DOE/EIA--0554(93)

{ DE93 008119
|

Supplement to the Annual Energy Outlook 1993

February 1993

Energy Information Administration
Office of Integrated Analysis and Forecasting
U.S. Department of Energy
Washington, DC 20585

MASTER

This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should not be construed as advocating or reflecting any policy position of the Department of Energy or any other organization.

EB

Approved for Release by NSA on 09-11-2013 pursuant to E.O. 13526

Contacts

Information concerning specific topics is available from the following contacts:

<i>AEO</i>	Susan Shaw	202/586-4838
Domestic Coal Supply.....	Robert Manicke	202/586-2157
World Coal Trade.....	Robert Manicke	202/586-2157
Electric Power.....	Alan Beamon	202/586-2025
Commercial Nuclear Power...	Mark Gielecki	202/586-2276
Oil and Gas Supply.....	William Trapmann	202/586-6408
End-Use Consumption and Prices.....	Barry Cohen	202/586-5359
Other.....	Michael Lehr	202/586-1470

Contents

Introduction	1
1. A Range of Projections for 2010-Summary	2
Domestic Coal Supply, Disposition, and Prices by World Oil Price Case	
2. New England Region	4
3. New York/New Jersey Region	5
4. Mid-Atlantic Region	6
5. South Atlantic Region	7
6. Midwest Region	8
7. Southwest Region	9
8. Central Region	10
9. North Central Region	11
10. West Region	12
11. Northwest Region	13
12. United States	14
Domestic Coal Supply, Disposition, and Prices by Economic Growth Case	
13. New England Region	16
14. New York/New Jersey Region	17
15. Mid-Atlantic Region	18
16. South Atlantic Region	19
17. Midwest Region	20
18. Southwest Region	21
19. Central Region	22
20. North Central Region	23
21. West Region	24
22. Northwest Region	25
23. United States	26
Domestic Coal Supply, Disposition, and Prices by Oil and Gas Recovery Case	
24. New England Region	28
25. New York/New Jersey Region	29
26. Mid-Atlantic Region	30
27. South Atlantic Region	31
28. Midwest Region	32
29. Southwest Region	33
30. Central Region	34
31. North Central Region	35
32. West Region	36
33. Northwest Region	37
34. United States	38
World Coal Trade	
35. World Steam Coal Flows, 1991	40
36. World Metallurgical Coal Flows, 1991	41
37. Total World Coal Flows, 1991	42
38. World Coal Flows by Importing and Exporting Regions, Reference Case	43
39. World Coal Flows by Importing and Exporting Regions, High Economic Growth Case	44
40. World Coal Flows by Importing and Exporting Regions, Low Economic Growth Case	45
Notes and Sources	46

Electric Power Data and Projections by World Oil Price Case

41. New England Region	52
42. New York/New Jersey Region	54
43. Mid-Atlantic Region	56
44. South Atlantic Region	58
45. Midwest Region	60
46. Southwest Region	62
47. Central Region	64
48. North Central Region	66
49. West Region	68
50. Northwest Region	70
51. United States	72

Electric Power Data and Projections by Economic Growth Case

52. New England Region	76
53. New York/New Jersey Region	78
54. Mid-Atlantic Region	80
55. South Atlantic Region	82
56. Midwest Region	84
57. Southwest Region	86
58. Central Region	88
59. North Central Region	90
60. West Region	92
61. Northwest Region	94
62. United States	96

Electric Power Data and Projections by Oil and Gas Recovery Case

63. New England Region	100
64. New York/New Jersey Region	102
65. Mid-Atlantic Region	104
66. South Atlantic Region	106
67. Midwest Region	108
68. Southwest Region	110
69. Central Region	112
70. North Central Region	114
71. West Region	116
72. Northwest Region	118
73. United States	120

Commercial Nuclear Power

74. Operable U.S. Nuclear Generating Units as of December 31, 1991	124
75. U.S. Nuclear Generating Units in the Construction Pipeline as of December 31, 1991	129

Oil and Gas Supply

76. Crude Oil and Natural Gas Production by World Oil Price Case	132
77. Crude Oil and Natural Gas Production by Economic Growth Case	133
78. Crude Oil and Natural Gas Production by Oil and Gas Recovery Case	134
79. Natural Gas Supply by World Oil Price Case	135
80. Natural Gas Supply by Economic Growth Case	136
81. Natural Gas Supply by Oil and Gas Recovery Case	137

End-Use Energy Consumption by World Oil Price Case

82. New England Region	140
83. New York/New Jersey Region	142
84. Mid-Atlantic Region	144

85. South Atlantic Region	146
86. Midwest Region	148
87. Southwest Region	150
88. Central Region	152
89. North Central Region	154
90. West Region	156
91. Northwest Region	158
92. United States	160
 End-Use Energy Consumption by Economic Growth Case	
93. New England Region	164
94. New York/New Jersey Region	166
95. Mid-Atlantic Region	168
96. South Atlantic Region	170
97. Midwest Region	172
98. Southwest Region	174
99. Central Region	176
100. North Central Region	178
101. West Region	180
102. Northwest Region	182
103. United States	184
 End-Use Energy Consumption by Oil and Gas Recovery Case	
104. New England Region	188
105. New York/New Jersey Region	190
106. Mid-Atlantic Region	192
107. South Atlantic Region	194
108. Midwest Region	196
109. Southwest Region	198
110. Central Region	200
111. North Central Region	202
112. West Region	204
113. Northwest Region	206
114. United States	208
 End-Use Energy Prices by World Oil Price Case	
115. New England Region	212
116. New York/New Jersey Region	214
117. Mid-Atlantic Region	216
118. South Atlantic Region	218
119. Midwest Region	220
120. Southwest Region	222
121. Central Region	224
122. North Central Region	226
123. West Region	228
124. Northwest Region	230
125. United States	232
 End-Use Energy Prices by Economic Growth Case	
126. New England Region	236
127. New York/New Jersey Region	238
128. Mid-Atlantic Region	240
129. South Atlantic Region	242
130. Midwest Region	244
131. Southwest Region	246

132. Central Region	248
133. North Central Region	250
134. West Region	252
135. Northwest Region	254
136. United States	256
 End-Use Energy Prices by Oil and Gas Recovery Case	
137. New England Region	260
138. New York/New Jersey Region	262
139. Mid-Atlantic Region	264
140. South Atlantic Region	266
141. Midwest Region	268
142. Southwest Region	270
143. Central Region	272
144. North Central Region	274
145. West Region	276
146. Northwest Region	278
147. United States	280
 Appendix	 283
Regional Maps	
1. Federal Regions	284
2. U.S. Coal-Producing Regions	285
3. Nuclear Plant Sites as of December 31, 1992	286
4. Lower 48 States Oil and Gas Supply Regions	287

Introduction

The *Supplement to the Annual Energy Outlook 1993* is a companion document to the Energy Information Administration's (EIA) *Annual Energy Outlook 1993* (AEO).¹ *Supplement* tables provide the regional projections underlying the national data and projections in the AEO.² The domestic coal, electric power, commercial nuclear power, end-use consumption, and end-use price tables present AEO forecasts at the 10 Federal Region level. World coal tables provide data and projections on international flows of steam coal and metallurgical coal, and the oil and gas tables provide the AEO oil and gas supply forecasts by Oil and Gas Supply Regions and by source of supply. All tables refer to cases presented in the AEO,³ which provides a range of projections for energy markets through 2010. Features of the cases are summarized below and the results in Table 1.

Annual Energy Outlook 1993: Summary of Cases

The Reference Case

- Mid-level path for the world oil price
- Baseline annual economic growth rate of 2.0 percent
- Mean of the U.S. Geological Survey's probability distribution as an estimate of economically recoverable oil and gas resources

The High Oil Price Case

- Higher world oil price path than the Reference Case
- Baseline economic growth trend, incorporating a small feedback effect from higher oil prices, which tends to slow the economy
- Baseline oil and gas resource assumptions
- *Results in lowest net petroleum imports of all seven cases*

The Low Oil Price Case

- Lower world oil price path than the Reference Case
- Baseline economic growth trend, incorporating a small feedback effect from lower oil prices, which tends to stimulate the economy
- Baseline oil and gas resource assumptions
- *Results in highest net petroleum imports of all seven cases*

The High Economic Growth Case

- Same world oil prices and oil and gas resource assumptions as in the Reference Case
- Higher annual economic growth rate of 2.4 percent per year
- *Results in the highest energy demand of all seven cases*

The Low Economic Growth Case

- Same world oil prices and oil and gas resource assumptions as in the Reference Case
- Lower annual macroeconomic growth rate of 1.6 percent per year
- *Results in lowest energy demand of all seven cases*

The High Oil and Gas Recovery Case

- Same world oil prices and economic growth assumptions as in the Reference Case
- U.S. Geological Survey's F_{95} fractile (upper 5 percentile) of the probability distribution for estimating economically recoverable oil and gas resources
- *Results in highest domestic crude oil and natural gas production and highest natural gas consumption*

The Low Oil and Gas Recovery Case

- Same world oil prices and economic growth assumptions as in the Reference Case
- U.S. Geological Survey's F_{95} fractile (lower 5 percentile) of the probability distribution for estimating economically recoverable oil and gas resources
- *Results in lowest domestic natural gas production and consumption*

¹ *Annual Energy Outlook 1993*, DOE/EIA-0383(93). Detailed assumptions for models used to generate the AEO are documented in *Assumptions for the Annual Energy Outlook 1993*, DOE/EIA-0527(93).

² Regional maps are provided in the Appendix.

³ *Annual Energy Outlook 1993*, "Framing the 1993 Energy Outlook."

Table 1. A Range of Projections for 2010—Summary

Sensitivity Factors	1990	2010						
		Reference	High Economic Growth	Low Economic Growth	High World Oil Price	Low World Oil Price	High Oil and Gas Recovery	Low Oil and Gas Recovery
Primary Production (quadrillion Btu)								
Petroleum	17.9	15.3	15.3	15.0	17.1	10.7	17.8	12.9
Natural Gas	18.5	20.8	21.5	20.0	21.8	19.4	22.4	19.0
Coal	22.2	28.8	31.5	26.4	28.2	28.9	28.3	29.7
Nuclear Power	6.2	6.9	7.1	6.9	6.9	6.9	6.9	6.9
Renewable Energy/Other	6.5	10.1	10.4	9.7	10.4	9.9	10.1	10.1
Total Primary Production	71.3	82.0	85.7	78.1	84.5	75.8	85.5	78.6
Net Imports (quadrillion Btu)								
Petroleum (including SPR)	15.3	25.8	28.1	23.6	21.7	35.7	22.9	28.5
Natural Gas	1.5	4.3	4.4	4.0	3.6	4.4	3.9	4.5
Coal/Other (- indicates export)	-2.5	-4.9	-6.3	-3.6	-4.8	-4.9	-4.8	-4.9
Total Net Imports	14.2	25.1	26.2	23.9	20.5	35.2	22.0	28.1
Net Stock Withdrawals	-1.4	-0.2	-0.2	-0.1	-0.1	-0.2	-0.2	-0.2
Discrepancy	0.4	-0.3	-0.3	-0.3	-0.1	-0.5	-0.1	-0.4
Consumption (quadrillion Btu)								
Petroleum Products	33.5	41.2	43.5	38.6	39.1	46.3	40.9	41.3
Natural Gas	19.3	25.0	25.8	23.9	25.3	23.7	26.2	23.5
Coal	19.1	22.9	24.1	21.9	22.4	23.0	22.4	23.8
Nuclear Power	6.2	6.9	7.1	6.9	6.9	6.9	6.9	6.9
Renewable Energy/Other	6.5	10.7	11.0	10.4	11.1	10.5	10.8	10.7
Total Consumption	84.6	106.7	111.5	101.7	104.8	110.4	107.2	106.2
Prices (1991 dollars)								
World Oil Price								
(dollars per barrel)	22.54	29.30	29.30	29.30	38.10	18.10	29.30	29.30
Domestic Natural Gas at Wellhead								
(dollars per thousand cubic feet) ..	1.77	3.68	4.07	3.30	3.89	3.52	3.19	4.44
Domestic Coal at Minemouth								
(dollars per short ton)	22.52	30.97	33.12	29.03	30.14	31.02	30.67	31.25
Average Electricity Price								
(cents per kilowatthour)	6.80	6.89	7.04	6.74	7.00	6.69	6.80	7.04
Economic Indicators								
Real Gross Domestic Product								
(billion 1987 dollars)	4,885	7,287	7,854	6,691	7,217	7,382	7,297	7,275
(annual change, 1990-2010)	--	2.0%	2.4%	1.6%	2.0%	2.1%	2.0%	2.0%
GDP Implicit Price Deflator								
(index, 1987=1.00)	1.129	2.432	2.160	3.155	2.442	2.421	2.430	2.435
(annual change, 1990-2010)	--	3.9%	3.3%	5.3%	3.9%	3.9%	3.9%	3.9%
Real Disposable Personal Income								
(billion 1987 dollars)	3,538	5,041	5,373	4,757	5,021	5,065	5,044	5,036
(annual change, 1990-2010)	--	1.8%	2.1%	1.5%	1.8%	1.8%	1.8%	1.8%
Index of Manufacturing Gross Output								
(index, 1987=1.00)	1.030	1.694	1.848	1.534	1.662	1.738	1.699	1.689
(annual change, 1990-2010)	--	2.5%	3.0%	2.0%	2.4%	2.6%	2.5%	2.5%
Energy Intensity (thousand Btu per 1987 dollar of GDP)								
Oil and Gas Use	10.81	9.08	8.82	9.34	8.92	9.48	9.19	8.90
Electricity End-Use	1.90	1.75	1.71	1.80	1.75	1.74	1.74	1.75
Total Energy Use	17.33	14.64	14.20	15.20	14.53	14.95	14.69	14.60
Total Energy Use								
Less Dispersed Renewables	16.72	13.96	13.55	14.49	13.80	14.29	13.99	13.91

Note: Quantities are derived from historical volumes and assumed thermal conversion factors.

Source: Energy Information Administration, *Annual Energy Outlook 1993*, DOE/EIA-0383(93), Table 1.

**Domestic Coal Supply,
Disposition, and Prices by
World Oil Price Case**

**Table 2. Domestic Coal Supply, Disposition, and Prices by World Oil Price Case
New England Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	3.2	6.8	6.0	6.8	3.0	5.5	4.0
Central and Southern Appalachia	2.3	.4	1.1	.4	3.0	.7	2.5
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	.0	.0	.0	.0	.0	.0	.0
West ¹	.0	.0	.0	.0	.8	.7	.3
Total Distribution ²	5.6	7.2	7.2	7.1	6.8	6.9	6.9
Imports	.3	.0	.0	.0	.0	.0	.0
Consumer Stock Withdrawals	-.1	.0	.0	.0	.0	.0	.0
Total Supply	5.8	7.2	7.1	7.1	6.8	6.9	6.9
Consumption (million short tons)							
Residential/Commercial	.1	.1	.1	.1	.1	.1	.1
Other Industrial	.3	.6	.6	.6	.6	.6	.6
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	6.3	6.4	6.4	6.4	6.1	6.2	6.2
Total Consumption	6.8	7.2	7.1	7.1	6.8	6.9	6.9
Discrepancy	-1.0	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	67.56	52.52	52.73	51.64	63.26	63.24	62.34
Coke Plants	.00	.00	.00	.00	.00	.00	.00
Electricity	49.76	54.00	54.53	53.11	67.88	68.65	68.01
Average Price ³	50.80	53.87	54.38	52.99	67.48	68.18	67.53

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 3. Domestic Coal Supply, Disposition, and Prices by World Oil Price Case
New York/New Jersey Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	13.9	9.2	9.3	9.3	7.9	8.9	7.9
Central and Southern Anpalachia	3.3	3.6	3.6	3.6	3.2	3.2	3.1
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	.0	.0	.0	.0	.0	.0	.0
West ¹	.0	.0	.0	.0	.0	.0	.0
Total Distribution ²	17.1	12.8	12.9	12.9	11.1	12.1	11.0
Imports	.0	1.5	1.5	1.5	2.6	2.6	2.6
Consumer Stock Withdrawals	-1.0	.0	.0	.0	.0	.0	.0
Total Supply	16.1	14.3	14.3	14.4	13.7	14.7	13.6
Consumption (million short tons)							
Residential/Commercial	.3	.3	.3	.3	.3	.3	.3
Other Industrial	2.3	2.8	2.8	2.8	2.8	2.8	2.8
Coke Plants	1.2	1.5	1.5	1.5	1.2	1.2	1.2
Electricity	12.7	9.6	9.7	9.8	9.3	10.3	9.3
Total Consumption	16.5	14.3	14.3	14.4	13.7	14.7	13.6
Discrepancy	-.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	41.07	41.25	40.96	47.63	48.16	47.50
Coke Plants	-	62.29	62.85	62.20	72.38	74.20	72.87
Electricity	43.95	46.96	47.36	46.82	53.24	54.39	53.79
Average Price ³	45.19	47.36	47.75	47.24	53.84	54.90	54.27

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 4. Domestic Coal Supply, Disposition, and Prices by World Oil Price Case
Mid-Atlantic Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	85.6	85.6	85.9	84.7	97.0	95.3	89.1
Central and Southern Appalachia	43.6	41.1	41.2	42.1	35.8	36.5	37.6
Illinois Basin	.1	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	.0	.0	.0	.0	.0	.0	.0
West ¹	.0	.0	.0	.0	.0	.0	.0
Total Distribution ²	129.2	126.7	127.1	126.8	132.8	131.7	126.7
Imports	.0	.0	.0	.0	.0	.0	.0
Consumer Stock Withdrawals	-8.2	.0	-.1	-.1	-.3	-.4	-.3
Total Supply	121.0	126.6	127.0	126.7	132.6	131.4	126.4
Consumption (million short tons)							
Residential/Commercial	1.9	1.5	1.5	1.4	1.2	1.2	1.2
Other Industrial	12.0	12.9	12.9	12.7	12.6	12.6	12.4
Coke Plants	15.4	13.0	13.0	13.0	11.1	11.1	11.1
Electricity	90.6	99.3	99.6	99.5	107.6	106.5	101.7
Total Consumption	118.9	126.6	127.0	126.7	132.6	131.4	126.4
Discrepancy	2.1	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	41.31	41.32	41.23	48.97	49.42	49.18
Coke Plants	47.16	53.04	54.12	53.29	61.89	63.71	63.42
Electricity	39.33	40.48	41.73	41.62	46.60	47.93	48.37
Average Price ³	-	41.87	42.97	42.79	48.11	49.42	49.78

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 5. Domestic Coal Supply, Disposition, and Prices by World Oil Price Case
South Atlantic Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	1.5	4.7	4.7	3.2	11.7	10.9	8.4
Central and Southern Appalachia	125.2	133.6	134.9	131.4	122.6	133.4	133.5
Illinois Basin	53.3	45.0	45.3	48.7	52.2	52.4	57.5
West Interior	.0	1.1	.7	.7	2.1	5.4	5.5
Northern Great Plains	2.6	.0	.0	.0	.0	.0	.0
West ¹	.0	8.7	7.2	9.0	28.2	16.0	13.4
Total Distribution²	182.6	193.2	192.8	192.9	216.8	218.2	218.4
Imports	1.1	2.7	2.7	2.7	4.8	4.8	4.8
Consumer Stock Withdrawals	-7.1	-.2	-.2	-.2	-.5	-.8	-.7
Total Supply	176.6	195.7	195.3	195.4	221.1	222.3	222.5
Consumption (million short tons)							
Residential/Commercial	.7	.7	.7	.7	.6	.6	.6
Other Industrial	14.7	19.7	19.4	19.4	19.3	19.2	18.8
Coke Plants	4.0	3.9	3.9	3.9	3.3	3.3	3.3
Electricity	156.5	171.5	171.3	171.4	197.9	199.2	199.8
Total Consumption	179.0	195.7	195.3	195.4	221.1	222.3	222.5
Discrepancy	-2.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	44.71	45.35	44.29	52.75	53.04	52.92
Coke Plants	-	51.25	51.99	51.65	60.73	62.20	62.11
Electricity	40.47	43.58	44.00	43.51	49.69	51.18	50.46
Average Price³	41.02	43.85	44.30	43.75	50.12	51.51	50.81

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 6. Domestic Coal Supply, Disposition, and Prices by World Oil Price Case
Midwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	44.2	13.2	13.3	13.2	17.1	19.7	17.5
Central and Southern Appalachia	57.5	78.2	90.5	90.2	76.2	79.7	75.6
Illinois Basin	66.3	64.6	64.5	64.5	69.4	72.9	69.2
West Interior	.0	.3	.3	.3	3.8	.5	.5
Northern Great Plains	63.4	70.4	70.6	71.4	92.5	90.8	89.8
West ¹	.9	19.6	6.5	8.0	16.7	15.5	20.2
Total Distribution ²	232.8	246.3	246.7	247.6	275.7	279.0	272.9
Imports	.3	.1	.1	.1	.2	.2	.2
Consumer Stock Withdrawals	-6.8	-1	-2	-2	-6	-9	-7
Total Supply	226.3	246.3	246.6	247.5	275.3	278.4	272.4
Consumption (million short tons)							
Residential/Commercial	2.0	1.7	1.7	1.8	1.6	1.5	1.6
Other Industrial	20.5	22.2	22.3	22.3	27.4	27.5	27.4
Coke Plants	16.9	17.5	17.5	17.5	14.9	14.9	14.9
Electricity	188.7	204.9	205.1	205.9	231.5	234.5	228.5
Total Consumption	228.0	246.3	246.6	247.5	275.3	278.4	272.4
Discrepancy	-1.7	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	37.54	36.83	36.86	36.43	43.71	43.68	43.24
Coke Plants	50.58	58.05	58.70	58.13	67.61	66.57	69.32
Electricity	33.41	34.40	36.58	36.13	37.71	40.17	40.46
Average Price ³	35.16	36.31	38.18	37.72	39.94	42.10	42.33

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 7. Domestic Coal Supply, Disposition, and Prices by World Oil Price Case Southwest Region

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.5	.2	.2	.2	.0	.0	.0
Illinois Basin	.4	.6	2.2	.9	1.9	11.7	6.7
West Interior	59.8	77.0	75.7	79.9	100.7	93.6	107.3
Northern Great Plains	67.4	68.0	67.7	63.4	78.1	76.7	88.8
West ¹	17.9	26.3	25.7	28.2	29.2	31.5	31.6
Total Distribution ²	146.0	172.1	171.5	172.6	209.9	213.4	234.5
Imports	.0	.0	.0	.0	.0	.0	.0
Consumer Stock Withdrawals	2.0	-.2	-.3	-.3	-.6	-.9	-.8
Total Supply	148.0	171.9	171.2	172.3	209.3	212.6	233.6
Consumption (million short tons)							
Residential/Commercial	.0	.0	.0	.0	.0	.0	.0
Other Industrial	5.8	6.1	6.0	6.4	6.2	6.1	6.0
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	140.8	165.7	165.2	165.9	203.1	206.5	227.6
Total Consumption	146.6	171.9	171.2	172.3	209.3	212.6	233.6
Discrepancy	1.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	23.17	34.87	34.76	31.46	38.40	37.53	37.40
Coke Plants	.00	.00	.00	.00	.00	.00	.00
Electricity	23.86	21.88	24.18	24.31	26.08	28.60	30.31
Average Price ³	23.82	22.35	24.56	24.57	26.44	28.85	30.49

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 8. Domestic Coal Supply, Disposition, and Prices by World Oil Price Case
Central Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.6	.0	.0	.0	.0	.0	.0
Illinois Basin	20.5	20.6	21.9	22.0	22.6	23.7	25.0
West Interior	3.7	2.2	2.8	2.8	4.4	4.3	3.9
Northern Great Plains	43.2	47.1	47.6	48.5	53.2	54.0	54.0
West ¹	.6	9.2	6.5	5.9	10.6	10.0	9.0
Total Distribution²	68.7	79.1	78.8	79.2	90.8	92.0	92.0
Imports	.0	.0	.0	.0	.0	.0	.0
Consumer Stock Withdrawals	-.8	-.1	-.1	-.1	-.2	-.3	-.3
Total Supply	67.9	79.0	78.7	79.1	90.5	91.7	91.7
Consumption (million short tons)							
Residential/Commercial	5	.3	.3	.3	.2	.2	.2
Other Industrial	4.1	4.9	4.9	4.9	6.2	6.2	6.2
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	62.6	73.8	73.5	73.9	84.1	85.2	85.3
Total Consumption	67.2	79.0	78.7	79.1	90.5	91.7	91.7
Discrepancy	.7	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	26.69	26.60	26.31	28.99	28.43	28.19
Coke Plants	-	.00	.00	.00	.00	.00	.00
Electricity	23.38	24.99	27.30	27.05	27.85	29.18	28.94
Average Price³	23.82	25.10	27.25	27.00	27.93	29.13	28.89

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 9. Domestic Coal Supply, Disposition, and Prices by World Oil Price Case
North Central Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.0	.0	.0	.0	.0	.0	.0
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	70.7	87.9	88.1	88.1	94.1	93.4	93.3
West ¹	27.1	21.8	21.8	21.7	19.6	20.1	20.2
Total Distribution ²	97.9	109.6	109.9	109.9	113.7	113.5	113.5
Imports	.6	1.1	1.1	1.1	1.9	1.9	1.9
Consumer Stock Withdrawals	1.2	-.1	-.1	-.1	-.3	-.4	-.3
Total Supply	99.7	110.6	110.8	110.8	115.4	115.1	115.1
Consumption (million short tons)							
Residential/Commercial	.6	.6	.6	.6	.5	.5	.5
Other Industrial	9.8	12.2	12.2	12.1	14.4	14.1	14.4
Coke Plants	1.5	1.0	1.0	1.0	.8	.8	.8
Electricity	86.3	96.9	97.0	97.2	99.7	99.6	99.4
Total Consumption	98.3	110.6	110.8	110.8	115.4	115.1	115.1
Discrepancy	1.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	15.47	15.42	15.25	15.02	16.37	16.61	15.94
Coke Plants	-	53.40	53.24	53.03	56.84	56.69	56.35
Electricity	16.52	14.18	15.31	15.15	15.87	16.59	17.15
Average Price ³	-	14.66	14.63	15.46	16.22	16.87	17.28

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 10. Domestic Coal Supply, Disposition, and Prices by World Oil Price Case
West Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.0	.0	.0	.0	.0	.0	.0
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	.6	.2	.2	.2	6.1	6.7	8.0
West ¹	25.7	26.7	26.5	26.7	29.5	34.0	39.0
Total Distribution ²	26.3	26.9	26.7	26.9	35.6	40.6	47.1
Imports	.0	.6	.6	.6	1.1	1.1	1.1
Consumer Stock Withdrawals	.1	.0	.0	.0	-.1	-.2	-.2
Total Supply	26.4	27.5	27.3	27.5	36.6	41.6	48.0
Consumption (million short tons)							
Residential/Commercial	.0	.0	.0	.0	.0	.0	.0
Other Industrial	3.7	3.1	3.2	3.2	2.6	2.7	2.6
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	23.0	24.3	24.1	24.2	34.0	38.9	45.4
Total Consumption	26.8	27.5	27.3	27.5	36.6	41.6	48.0
Discrepancy	-.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	43.15	41.06	40.45	51.99	48.73	50.84
Coke Plants	.00	.00	.00	.00	.00	.00	.00
Electricity	32.13	34.05	37.14	36.48	36.27	39.06	40.10
Average Price ³	-	35.09	37.60	36.94	37.39	39.69	40.68

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 11. Domestic Coal Supply, Disposition, and Prices by World Oil Price Case
Northwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.0	.0	.0	.0	.0	.0	.0
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	1.9	6.4	6.0	5.9	15.2	14.8	13.4
West ¹	6.0	2.3	2.5	2.5	2.0	5.4	6.5
Total Distribution²	7.8	8.7	8.5	8.4	17.2	20.2	19.9
Imports	.0	.5	.5	.5	.8	.8	.8
Consumer Stock Withdrawals	-.5	.0	.0	.0	.0	-.1	-.1
Total Supply	7.3	9.2	8.9	8.9	18.0	21.0	20.6
Consumption (million short tons)							
Residential/Commercial	.6	.5	.5	.5	.4	.4	.4
Other Industrial	.8	1.2	1.2	1.2	1.6	1.6	1.6
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	6.0	7.5	7.2	7.2	16.1	18.9	18.6
Total Consumption	7.4	9.2	8.9	8.9	18.0	21.0	20.6
Discrepancy	-.1	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	21.78	21.64	21.27	25.86	23.54	23.72
Coke Plants	.00	.00	.00	.00	.00	.00	.00
Electricity	24.19	19.15	23.07	22.69	23.69	27.28	20.39
Average Price³	-	19.52	22.86	22.49	23.88	26.98	28.02

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 12. Domestic Coal Supply, Disposition, and Prices by World Oil Price Case
United States**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	148.6	119.4	119.2	117.2	136.8	140.3	127.0
Central and Southern Appalachia	233.3	257.1	271.5	267.8	240.7	253.4	252.3
Illinois Basin	140.5	130.8	133.9	136.0	146.1	160.7	158.5
West Interior	63.5	80.7	79.5	83.7	110.9	103.9	117.2
Northern Great Plains	250.2	279.9	281.2	277.5	339.2	336.4	347.4
West ¹	78.3	114.6	96.7	102.0	136.7	133.1	140.3
Total Distribution ²	913.9	982.4	982.0	984.3	1110.4	1127.8	1142.7
Imports ³	2.4	6.5	6.5	6.5	11.5	11.5	11.5
Consumer Stock Withdrawals	-21.1	-.7	-1.1	-1.2	-2.7	-3.9	-3.5
Total Supply	895.2	988.2	987.3	989.6	1119.2	1135.5	1150.7
Consumption (million short tons)							
Residential/Commercial	6.7	5.7	5.7	5.7	5.0	5.0	5.0
Other Industrial	76.3	85.8	85.6	85.6	93.6	93.3	92.7
Coke Plants	39.0	36.7	36.8	36.8	31.3	31.4	31.4
Electricity	773.5	860.0	859.3	861.4	989.3	1005.8	1021.6
Total Consumption	895.5	988.2	987.3	989.6	1119.2	1135.5	1150.7
Discrepancy	-.3	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	34.77	35.93	35.94	35.24	41.24	41.22	40.81
Coke Plants	49.40	55.16	55.94	55.31	64.25	66.08	65.74
Electricity	31.52	31.54	33.20	32.92	35.63	37.49	37.69
Average Price ⁴	32.55	32.81	34.29	33.96	36.91	38.59	38.71

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Total imports excludes Puerto Rico and the Virgin Islands.

⁴ Weighted average. Excludes residential/commercial prices.

Ncte: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Domestic Coal Supply,
Disposition, and Prices by
Economic Growth Case**

**Table 13. Domestic Coal Supply, Disposition, and Prices by Economic Growth Case
New England Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	3.2	3.4	6.0	6.7	5.9	5.5	3.7
Central and Southern Appalachia	2.3	3.7	1.1	.4	.5	.7	3.1
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	.0	.0	.0	.0	.0	.0	.0
West ¹	.0	.0	.0	.0	.5	.7	.0
Total Distribution²	5.6	7.1	7.2	7.1	6.9	6.9	6.8
Imports	.3	.0	.0	.0	.0	.0	.0
Consumer Stock Withdrawals	-.1	.0	.0	.0	.0	.0	.0
Total Supply	5.8	7.1	7.1	7.1	6.9	6.9	6.8
Consumption (million short tons)							
Residential/Commercial	.1	.1	.1	.1	.1	.1	.1
Other Industrial	.3	.6	.6	.6	.6	.6	.6
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	6.3	6.4	6.4	6.4	6.2	6.2	6.1
Total Consumption	6.8	7.1	7.1	7.1	6.9	6.9	6.8
Discrepancy	-1.0	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	67.56	55.09	52.73	51.66	65.88	63.24	60.02
Coke Plants	.00	.00	.00	.00	.00	.00	.00
Electricity	49.76	57.02	54.53	52.75	70.39	68.65	64.49
Average Price³	50.80	56.86	54.38	52.66	70.00	68.18	64.11

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924

**Table 14. Domestic Coal Supply, Disposition, and Prices by Economic Growth Case
New York/New Jersey Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	13.9	9.4	9.3	9.2	11.8	8.9	7.9
Central and Southern Appalachia	3.3	3.6	3.6	3.5	3.5	3.2	3.0
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	.0	.0	.0	.0	.0	.0	.0
West ¹	.0	.0	.0	.0	.0	.0	.0
Total Distribution ²	17.1	13.0	12.9	12.7	15.2	12.1	11.0
Imports	.0	1.5	1.5	1.5	2.6	2.6	2.6
Consumer Stock Withdrawals	-1.0	.0	.0	.0	-.1	.0	.0
Total Supply	16.1	14.5	14.3	14.2	17.8	14.7	13.5
Consumption (million short tons)							
Residential/Commercial	.3	.3	.3	.3	.3	.3	.3
Other Industrial	2.3	2.8	2.8	2.8	2.8	2.8	2.8
Coke Plants	1.2	1.5	1.5	1.4	1.3	1.2	1.2
Electricity	12.7	9.8	9.7	9.6	13.4	10.3	9.2
Total Consumption	16.5	14.5	14.3	14.2	17.8	14.7	13.5
Discrepancy	-.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	41.62	41.25	41.07	49.44	48.16	46.30
Coke Plants	-	64.14	62.85	61.99	76.64	74.20	69.61
Electricity	43.95	47.90	47.36	46.23	57.63	54.39	51.86
Average Price ³	45.19	48.34	47.75	46.83	57.68	54.90	52.34

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

**Table 15. Domestic Coal Supply, Disposition, and Prices by Economic Growth Case
Mid-Atlantic Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	85.6	87.8	85.9	83.8	94.0	95.3	90.4
Central and Southern Appalachia	43.6	39.9	41.2	41.6	46.7	36.5	40.1
Illinois Basin	.1	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	.0	.0	.0	.0	.0	.0	.0
West ¹	.0	.0	.0	.0	.0	.0	.0
Total Distribution²	129.2	127.7	127.1	125.4	140.7	131.7	130.5
Imports	.0	.0	.0	.0	.0	.0	.0
Consumer Stock Withdrawals	-8.2	-.1	-.1	-.1	-.4	-.4	-.1
Total Supply	121.0	127.6	127.0	125.3	140.2	131.4	130.4
Consumption (million short tons)							
Residential/Commercial	1.9	1.5	1.5	1.5	1.3	1.2	1.2
Other Industrial	12.0	13.0	12.9	12.9	12.6	12.6	12.5
Coke Plants	15.4	13.1	13.0	12.8	11.2	11.1	10.9
Electricity	90.6	100.0	99.6	98.2	115.2	106.5	105.7
Total Consumption	118.9	127.6	127.0	125.3	140.2	131.4	130.4
Discrepancy	2.1	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	41.83	41.32	40.74	51.68	49.42	47.22
Coke Plants	47.16	55.14	54.12	52.29	67.09	63.71	60.31
Electricity	39.33	42.16	41.73	41.67	49.48	47.93	46.56
Average Price³	-	43.48	42.97	42.67	51.10	49.42	47.79

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

**Table 16. Domestic Coal Supply, Disposition, and Prices by Economic Growth Case
South Atlantic Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	1.5	1.3	4.7	4.7	5.3	10.9	6.8
Central and Southern Appalachia	125.2	132.9	134.9	133.9	136.9	133.4	131.1
Illinois Basin	53.3	49.5	45.3	46.2	60.0	52.4	55.4
West Interior	.0	.6	.7	.7	5.1	5.4	3.6
Northern Great Plains	2.6	.0	.0	.0	.0	.0	.0
West ¹	.0	9.6	7.2	6.9	18.9	16.0	8.0
Total Distribution²	182.6	193.8	192.8	192.4	226.2	218.2	204.8
Imports	1.1	2.7	2.7	2.7	4.8	4.8	4.8
Consumer Stock Withdrawals	-7.1	-3	-2	-3	-9	-8	-3
Total Supply	176.6	196.3	195.3	194.9	230.1	222.3	209.3
Consumption (million short tons)							
Residential/Commercial	.7	.7	.7	.7	.6	.6	.6
Other Industrial	14.7	19.6	19.4	19.3	19.1	19.2	19.1
Coke Plants	4.0	3.9	3.9	3.8	3.4	3.3	3.3
Electricity	156.5	172.0	171.3	171.1	207.0	199.2	186.4
Total Consumption	179.0	196.3	195.3	194.9	230.1	222.3	209.3
Discrepancy	-2.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	45.83	45.35	44.62	56.07	53.04	50.45
Coke Plants	-	53.14	51.99	50.88	68.01	62.20	58.14
Electricity	40.47	44.57	44.00	43.22	52.93	51.18	48.72
Average Price³	41.02	44.87	44.30	43.51	53.41	51.51	49.02

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA093.D0916924.

**Table 17. Domestic Coal Supply, Disposition, and Prices by Economic Growth Case
Midwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	44.2	13.1	13.3	12.4	21.8	19.7	20.1
Central and Southern Appalachia	57.5	89.6	90.5	92.6	69.3	79.7	83.1
Illinois Basin	66.3	63.6	64.5	63.8	76.8	72.9	66.8
West Interior	.0	.3	.3	.3	.5	.5	.4
Northern Great Plains	63.4	75.8	71.6	69.5	96.1	90.8	87.2
West ¹	.9	7.1	6.5	7.2	27.2	15.5	13.4
Total Distribution²	232.8	249.5	246.7	245.8	291.7	279.0	271.0
Imports	.3	.1	.1	.1	.2	.2	.2
Consumer Stock Withdrawals	-6.8	-.3	-.2	-.2	-1.0	-.9	-.4
Total Supply	226.3	249.3	246.6	245.7	291.0	278.4	270.9
Consumption (million short tons)							
Residential/Commercial	2.0	1.8	1.7	1.7	1.6	1.5	1.5
Other Industrial	20.5	22.6	22.3	21.9	27.9	27.5	27.0
Coke Plants	16.9	17.7	17.5	17.3	15.1	14.9	14.7
Electricity	188.7	207.2	205.1	204.8	246.4	234.5	227.7
Total Consumption	228.0	249.3	246.6	245.7	291.0	278.4	270.9
Discrepancy	-1.7	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	37.54	36.97	36.86	36.70	44.59	43.68	42.38
Coke Plants	50.58	60.21	58.70	58.02	72.18	69.67	65.05
Electricity	33.41	36.73	36.58	36.10	41.57	40.17	38.64
Average Price³	35.16	38.43	38.18	37.71	43.46	42.10	40.45

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA093.D0916924.

Table 18. Domestic Coal Supply, Disposition, and Prices by Economic Growth Case Southwest Region

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.5	.2	.2	.2	.0	.0	.0
Illinois Basin	.4	.9	2.2	.2	4.5	13.7	7.4
West Interior	59.8	76.1	75.7	81.0	107.9	93.6	93.6
Northern Great Plains	67.4	68.2	67.7	63.1	94.1	76.7	69.6
West ¹	17.9	26.5	25.7	27.9	33.6	31.5	29.8
Total Distribution ²	146.0	171.9	171.5	172.3	240.0	213.4	200.4
Imports	.0	.0	.0	.0	.0	.0	.0
Consumer Stock Withdrawals	2.0	-.3	-.3	-.3	-1.0	-.9	-.4
Total Supply	148.0	171.5	171.2	172.0	239.0	212.6	200.0
Consumption (million short tons)							
Residential/Commercial	.0	.0	.0	.0	.0	.0	.0
Other Industrial	5.8	6.4	6.0	6.3	6.0	6.1	6.0
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	140.8	165.2	165.2	165.7	233.0	206.5	194.0
Total Consumption	146.6	171.5	171.2	172.0	239.0	212.6	200.0
Discrepancy	1.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	23.17	33.10	34.76	32.63	39.74	37.53	36.80
Coke Plants	.00	.00	.00	.00	.00	.00	.00
Electricity	23.86	24.37	24.18	24.54	31.16	28.60	27.64
Average Price ³	23.82	24.70	24.56	24.84	31.38	28.85	27.92

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

**Table 19. Domestic Coal Supply, Disposition, and Prices by Economic Growth Case
Central Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.6	.0	.0	.0	.0	.0	.0
Illinois Basin	20.5	20.5	21.9	22.9	23.7	23.7	16.3
West Interior	3.7	2.8	2.8	2.7	3.4	4.3	4.6
Northern Great Plains	43.2	50.4	47.6	46.5	57.9	54.0	53.4
West ¹	.6	6.4	6.5	5.8	10.6	10.0	12.4
Total Distribution²	68.7	80.1	78.8	78.0	95.5	92.0	86.6
Imports	.0	.0	.0	.0	.0	.0	.0
Consumer Stock Withdrawals	-.8	-.1	-.1	-.1	-.4	-.3	-.2
Total Supply	67.9	80.0	78.7	77.9	95.1	91.7	86.4
Consumption (million short tons)							
Residential/Commercial	.5	.3	.3	.3	.2	.2	.2
Other Industrial	4.1	5.0	4.9	4.8	6.3	6.2	6.1
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	62.6	74.7	73.5	72.8	88.6	85.2	80.1
Total Consumption	67.2	80.0	78.7	77.9	95.1	91.7	86.4
Discrepancy	.7	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	26.59	26.60	26.53	29.17	28.43	27.82
Coke Plants	-	.00	.00	.00	.00	.00	.00
Electricity	23.38	27.37	27.30	26.89	30.23	29.18	30.66
Average Price³	23.82	27.32	27.25	26.87	30.16	29.13	30.46

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

**Table 20. Domestic Coal Supply, Disposition, and Prices by Economic Growth Case
North Central Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.0	.0	.0	.0	.0	.0	.0
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	70.7	89.7	88.1	87.1	97.0	93.4	91.2
West ¹	27.1	22.3	21.8	21.9	19.6	20.1	21.3
Total Distribution²	97.9	112.0	109.9	109.0	116.5	113.5	112.5
Imports	.6	1.1	1.1	1.1	1.9	1.9	1.9
Consumer Stock Withdrawals	1.2	-.2	-.1	-.1	-.4	-.4	-.2
Total Supply	99.7	112.9	110.8	110.0	118.0	115.1	114.2
Consumption (million short tons)							
Residential/Commercial	.6	.6	.6	.6	.5	.5	.5
Other Industrial	9.8	12.5	12.2	11.9	14.8	14.1	13.7
Coke Plants	1.5	1.0	1.0	.9	.8	.8	.8
Electricity	86.3	98.9	97.0	96.5	101.9	99.6	99.2
Total Consumption	98.3	112.9	110.8	110.0	118.0	115.1	114.2
Discrepancy	1.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	15.47	15.32	15.25	15.19	16.34	16.61	16.42
Coke Plants	-	53.29	53.24	53.29	56.73	56.69	56.66
Electricity	16.52	15.36	15.31	15.33	17.36	16.59	16.70
Average Price³	-	15.68	15.63	15.64	17.51	16.87	16.95

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

**Table 21. Domestic Coal Supply, Disposition, and Prices by Economic Growth Case
West Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.0	.0	.0	.0	.0	.0	.0
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	.6	.2	.2	.2	7.6	6.7	6.4
West 1	25.7	26.7	26.5	26.3	38.5	34.0	28.7
Total Distribution²	26.3	26.9	26.7	26.5	46.1	40.6	35.1
Imports	.0	.6	.6	.6	1.1	1.1	1.1
Consumer Stock Withdrawals	.1	.0	.0	.0	-.2	-.2	-.1
Total Supply	26.4	27.5	27.3	27.1	47.0	41.6	36.2
Consumption (million short tons)							
Residential/Commercial	.0	.0	.0	.0	.0	.0	.0
Other Industrial	3.7	3.3	3.2	3.1	2.8	2.7	2.4
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	23.0	24.1	24.1	24.0	44.2	38.9	33.7
Total Consumption	26.8	27.5	27.3	27.1	47.0	41.6	36.2
Discrepancy	-.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	41.11	41.06	40.66	53.42	48.73	47.76
Coke Plants	.00	.00	.00	.00	.00	.00	.00
Electricity	32.13	37.32	37.14	36.99	41.35	39.06	37.40
Average Price³	-	37.78	37.60	37.41	42.07	39.69	38.10

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

**Table 22. Domestic Coal Supply, Disposition, and Prices by Economic Growth Case
Northwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.0	.0	.0	.0	.0	.0	.0
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	1.9	5.9	6.0	5.9	20.1	14.8	10.2
West ¹	6.0	2.5	2.5	2.5	4.2	5.4	5.1
Total Distribution²	7.8	8.4	8.5	8.4	24.2	20.2	15.2
Imports	.0	.5	.5	.5	.8	.8	.8
Consumer Stock Withdrawals	-.5	.0	.0	.0	-.1	-.1	.0
Total Supply	7.3	8.9	8.9	8.8	25.0	21.0	16.0
Consumption (million short tons)							
Residential/Commercial	.6	.5	.5	.5	.4	.4	.4
Other Industrial	.8	1.2	1.2	1.2	1.7	1.6	1.6
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	6.0	7.2	7.2	7.2	22.9	18.9	14.0
Total Consumption	7.4	8.9	8.9	8.8	25.0	21.0	16.0
Discrepancy	-.1	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	21.78	21.64	21.56	24.33	23.54	22.95
Coke Plants	.00	.00	.00	.00	.00	.00	.00
Electricity	24.19	23.10	23.07	23.11	26.06	27.28	26.87
Average Price³	-	22.91	22.86	22.89	25.94	26.98	26.47

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA093.D0916924.

**Table 23. Domestic Coal Supply, Disposition, and Prices by Economic Growth Case
United States**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	148.6	115.0	119.2	116.8	138.8	140.3	128.8
Central and Southern Appalachia	233.3	269.8	271.5	272.2	256.9	253.4	260.5
Illinois Basin	140.5	134.5	133.9	133.2	165.0	160.7	145.9
West Interior	63.5	79.7	79.5	84.7	116.9	103.9	102.2
Northern Great Plains	250.2	290.3	281.2	272.3	372.7	336.4	318.0
West ¹	78.3	101.2	96.7	98.5	153.0	133.1	118.7
Total Distribution ²	913.9	990.6	982.0	977.7	1203.2	1127.8	1074.1
Imports ³	2.4	6.5	6.5	6.5	11.5	11.5	11.5
Consumer Stock Withdrawals	-21.1	-1.5	-1.1	-1.2	-4.6	-3.9	-1.7
Total Supply	895.2	995.6	987.3	983.0	1210.1	1135.5	1083.9
Consumption (million short tons)							
Residential/Commercial	6.7	5.7	5.7	5.7	5.0	5.0	4.9
Other Industrial	76.3	87.1	85.6	84.8	94.6	93.3	91.8
Coke Plants	39.0	37.2	36.8	36.3	31.7	31.4	31.0
Electricity	773.5	865.5	859.3	856.3	1078.8	1005.8	956.2
Total Consumption	895.5	995.6	987.3	983.0	1210.1	1135.5	1083.9
Discrepancy	-.3	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	34.77	36.04	35.94	35.50	42.61	41.22	39.82
Coke Plants	49.40	57.18	55.94	54.83	69.16	66.08	62.10
Electricity	31.52	33.45	33.20	32.92	39.09	37.49	36.31
Average Price ⁴	32.55	34.57	34.29	33.96	40.16	38.59	37.35

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Total imports excludes Puerto Rico and the Virgin Islands.

⁴ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

**Domestic Coal Supply,
Disposition, and Prices by Oil
and Gas Recovery Case**

**Table 24. Domestic Coal Supply, Disposition, and Prices by Oil and Gas Recovery Case
New England Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	3.2	6.8	6.0	6.6	6.1	5.5	5.8
Central and Southern Appalachia	2.3	.4	1.1	.6	.5	.7	.9
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	.0	.0	.0	.0	.0	.0	.0
West ¹	.0	.0	.0	.0	.3	.7	.2
Total Distribution ²	5.6	7.2	7.2	7.2	6.9	6.9	6.9
Imports	.3	.0	.0	.0	.0	.0	.0
Consumer Stock Withdrawals	-.1	.0	.0	.0	.0	.0	.0
Total Supply	5.8	7.2	7.1	7.1	6.9	6.9	6.9
Consumption (million short tons)							
Residential/Commercial	.1	.1	.1	.1	.1	.1	.1
Other Industrial	.3	.6	.6	.6	.6	.6	.6
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	6.3	6.4	6.4	6.4	6.2	6.2	6.2
Total Consumption	6.8	7.2	7.1	7.1	6.9	6.9	6.9
Discrepancy	-1.0	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	67.56	52.59	52.73	52.32	63.23	63.24	64.01
Coke Plants	.00	.00	.00	.00	.00	.00	.00
Electricity	49.76	53.96	54.53	54.27	68.25	68.65	68.89
Average Price ³	50.80	53.84	54.38	54.11	67.83	68.18	68.47

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGE093.D0918923.

**Table 25. Domestic Coal Supply, Disposition, and Prices by Oil and Gas Recovery Case
New York/New Jersey Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	13.9	9.3	9.3	9.3	9.2	8.9	7.9
Central and Southern Appalachia	3.3	3.6	3.6	3.6	2.9	3.2	3.1
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	.0	.0	.0	.0	.0	.0	.0
West ¹	.0	.0	.0	.0	.0	.0	.0
Total Distribution ²	17.1	12.9	12.9	12.9	12.1	12.1	11.0
Imports	.0	1.5	1.5	1.5	2.6	2.6	2.6
Consumer Stock Withdrawals	-1.0	.0	.0	.0	.0	.0	.0
Total Supply	16.1	14.3	14.3	14.3	14.7	14.7	13.6
Consumption (million short tons)							
Residential/Commercial	.3	.3	.3	.3	.3	.3	.3
Other Industrial	2.3	2.8	2.8	2.8	2.8	2.8	2.8
Coke Plants	1.2	1.5	1.5	1.5	1.2	1.2	1.2
Electricity	12.7	9.7	9.7	9.7	10.3	10.3	9.3
Total Consumption	16.5	14.3	14.3	14.3	14.7	14.7	13.6
Discrepancy	-.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	41.21	41.25	41.24	47.47	48.16	48.45
Coke Plants	-	62.74	62.85	62.74	73.03	74.20	74.61
Electricity	43.95	46.92	47.36	46.91	53.78	54.39	54.93
Average Price ³	45.19	47.42	47.75	47.42	54.22	54.90	55.41

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 26. Domestic Coal Supply, Disposition, and Prices by Oil and Gas Recovery Case
Mid-Atlantic Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	85.6	84.9	85.9	84.8	93.5	95.3	100.7
Central and Southern Appalachia	43.6	41.6	41.2	41.9	38.3	36.5	37.9
Illinois Basin	.1	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	.0	.0	.0	.0	.0	.0	.0
West ¹	.0	.0	.0	.0	.0	.0	.0
Total Distribution ²	129.2	126.5	127.1	126.7	131.8	131.7	138.6
Imports	.0	.0	.0	.0	.0	.0	.0
Consumer Stock Withdrawals	-8.2	-.1	-.1	-.1	-.4	-.4	-.4
Total Supply	121.0	126.4	127.0	126.6	131.4	131.4	138.3
Consumption (million short tons)							
Residential/Commercial	1.9	1.5	1.5	1.5	1.3	1.2	1.2
Other Industrial	12.0	12.9	12.9	12.9	12.6	12.6	12.5
Coke Plants	15.4	13.0	13.0	13.0	11.1	11.1	11.1
Electricity	90.6	99.1	99.6	99.2	106.5	106.5	113.4
Total Consumption	118.9	126.4	127.0	126.6	131.4	131.4	138.3
Discrepancy	2.1	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	41.35	41.32	41.40	48.90	49.42	49.91
Coke Plants	47.16	53.72	54.12	53.98	62.89	63.71	64.31
Electricity	39.33	41.40	41.73	41.45	46.86	47.93	48.27
Average Price ³	-	42.67	42.97	42.75	48.42	49.42	49.71

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 27. Domestic Coal Supply, Disposition, and Prices by Oil and Gas Recovery Case
South Atlantic Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	1.5	4.8	4.7	4.7	6.5	10.9	10.7
Central and Southern Appalachia	125.2	134.1	134.9	134.5	134.4	133.4	138.4
Illinois Basin	53.3	46.2	45.3	46.1	59.7	52.4	57.1
West Interior	.0	.7	.7	.7	4.4	5.4	5.8
Northern Great Plains	2.6	.0	.0	.0	.0	.0	.0
West ¹	.0	7.1	7.2	7.1	13.7	16.0	15.3
Total Distribution²	182.6	192.9	192.8	193.1	218.7	218.2	227.3
Imports	1.1	2.7	2.7	2.7	4.8	4.8	4.8
Consumer Stock Withdrawals	-7.1	-2	-2	-3	-8	-8	-8
Total Supply	176.6	195.4	195.3	195.5	222.7	222.3	231.4
Consumption (million short tons)							
Residential/Commercial	.7	.7	.7	.7	.6	.6	.6
Other Industrial	14.7	19.5	19.4	19.5	19.2	19.2	19.2
Coke Plants	4.0	3.9	3.9	3.9	3.3	3.3	3.3
Electricity	156.5	171.3	171.3	171.5	199.6	199.2	208.3
Total Consumption	179.0	195.4	195.3	195.5	222.7	222.3	231.4
Discrepancy	-2.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	45.00	45.35	45.15	52.61	53.04	53.84
Coke Plants	-	51.86	51.99	51.82	61.74	62.20	62.97
Electricity	40.47	43.88	44.00	43.80	50.77	51.18	51.51
Average Price³	41.02	44.15	44.30	44.10	51.09	51.51	51.87

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 28. Domestic Coal Supply, Disposition, and Prices by Oil and Gas Recovery Case
Midwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	44.2	12.9	13.3	13.3	15.8	19.7	19.9
Central and Southern Appalachia	57.5	89.5	90.5	90.0	78.2	79.7	81.0
Illinois Basin	66.3	66.1	64.5	67.0	67.5	72.9	81.3
West Interior	.0	.3	.3	.3	.5	.5	.4
Northern Great Plains	63.4	71.1	71.6	71.8	90.1	90.8	97.8
West ¹	.9	6.4	6.5	6.5	20.3	15.5	18.6
Total Distribution²	232.8	246.5	246.7	249.0	272.4	279.0	299.0
Imports	.3	.1	.1	.1	.2	.2	.2
Consumer Stock Withdrawals	-6.8	-.2	-.2	-.3	-.8	-.9	-.9
Total Supply	226.3	246.4	246.6	248.8	271.8	278.4	298.3
Consumption (million short tons)							
Residential/Commercial	2.0	1.7	1.7	1.7	1.5	1.5	1.5
Other Industrial	20.5	22.3	22.3	22.4	27.7	27.5	27.7
Coke Plants	16.9	17.5	17.5	17.5	14.9	14.9	14.9
Electricity	188.7	204.9	205.1	207.2	227.7	234.5	254.2
Total Consumption	228.0	246.4	246.6	248.8	271.8	278.4	298.3
Discrepancy	-1.7	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	37.54	36.78	36.86	36.73	42.99	43.68	43.66
Coke Plants	50.58	58.55	58.70	58.54	68.55	69.67	70.61
Electricity	33.41	36.46	36.58	36.50	40.31	40.17	40.83
Average Price³	35.16	38.07	38.18	38.08	42.14	42.10	42.58

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

Table 29. Domestic Coal Supply, Disposition, and Prices by Oil and Gas Recovery Case Southwest Region

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.5	.2	.2	.2	.0	.0	.0
Illinois Basin	.4	1.4	2.2	1.8	3.1	11.7	11.9
West Interior	59.8	79.6	75.7	75.7	95.7	93.6	100.7
Northern Great Plains	67.4	63.5	67.7	67.8	70.9	76.7	79.2
West ¹	17.9	27.8	25.7	26.2	27.3	31.5	32.0
Total Distribution ²	146.0	172.5	171.5	171.6	197.0	213.4	223.8
Imports	.0	.0	.0	.0	.0	.0	.0
Consumer Stock Withdrawals	2.0	-.3	-.3	-.3	-.8	-.9	-.8
Total Supply	148.0	172.2	171.2	171.3	196.2	212.6	222.9
Consumption (million short tons)							
Residential/Commercial	.0	.0	.0	.0	.0	.0	.0
Other Industrial	5.8	6.3	6.0	6.0	6.1	6.1	6.0
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	140.8	165.9	165.2	165.2	190.0	206.5	216.9
Total Consumption	146.6	172.2	171.2	171.3	196.2	212.6	222.9
Discrepancy	1.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	23.17	32.78	34.76	34.72	36.90	37.53	38.31
Coke Plants	.00	.00	.00	.00	.00	.00	.00
Electricity	23.86	24.50	24.18	24.21	27.73	28.60	29.48
Average Price ³	23.82	24.81	24.56	24.58	28.02	28.85	29.71

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGO93.D0918923.

**Table 30. Domestic Coal Supply, Disposition, and Prices by Oil and Gas Recovery Case
Central Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.6	.0	.0	.0	.0	.0	.0
Illinois Basin	20.5	22.0	21.9	21.8	23.4	23.7	22.5
West Interior	3.7	2.8	2.8	2.8	4.0	4.3	4.3
Northern Great Plains	43.2	47.7	47.6	47.7	54.6	54.0	55.0
West ¹	.6	6.4	6.5	6.6	8.7	10.0	11.6
Total Distribution²	68.7	78.9	78.8	78.8	90.7	92.0	93.4
Imports	.0	.0	.0	.0	.0	.0	.0
Consumer Stock Withdrawals	-.8	-.1	-.1	-.2	-.3	-.3	-.3
Total Supply	67.9	78.7	78.7	78.7	90.3	91.7	93.1
Consumption (million short tons)							
Residential/Commercial	.5	.3	.3	.3	.2	.2	.2
Other Industrial	4.1	4.9	4.9	4.9	6.2	6.2	6.2
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	62.6	73.6	73.5	73.5	83.9	85.2	86.6
Total Consumption	67.2	78.7	78.7	78.7	90.3	91.7	93.1
Discrepancy	.7	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	26.59	26.60	26.61	28.16	28.43	28.60
Coke Plants	-	.00	.00	.00	.00	.00	.00
Electricity	23.38	27.23	27.30	27.34	28.60	29.18	29.74
Average Price³	23.82	27.19	27.25	27.30	28.57	29.13	29.66

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 31. Domestic Coal Supply, Disposition, and Prices by Oil and Gas Recovery Case
North Central Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.0	.0	.0	.0	.0	.0	.0
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	70.7	88.0	88.1	88.1	93.3	93.4	93.2
West ¹	27.1	21.8	21.8	21.8	20.2	20.1	20.3
Total Distribution²	97.9	109.8	109.9	109.9	113.5	113.5	113.5
Imports	.6	1.1	1.1	1.1	1.9	1.9	1.9
Consumer Stock Withdrawals	1.2	-.1	-.1	-.2	-.4	-.4	-.4
Total Supply	99.7	110.7	110.8	110.8	115.0	115.1	115.0
Consumption (million short tons)							
Residential/Commercial	.6	.6	.6	.6	.5	.5	.5
Other Industrial	9.8	12.2	12.2	12.2	14.1	14.1	14.2
Coke Plants	1.5	1.0	1.0	1.0	.8	.8	.8
Electricity	86.3	97.0	97.0	97.0	99.6	99.6	99.5
Total Consumption	98.3	110.7	110.8	110.8	115.0	115.1	115.0
Discrepancy	1.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	15.47	15.21	15.25	15.24	16.52	16.61	16.71
Coke Plants	-	53.24	53.24	53.24	56.69	56.69	56.72
Electricity	16.52	15.33	15.31	15.33	16.49	16.59	16.85
Average Price³	-	15.65	15.63	15.64	16.78	16.87	17.12

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGE093.D0918923.

**Table 32. Domestic Coal Supply, Disposition, and Prices by Oil and Gas Recovery Case
West Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.0	.0	.0	.0	.0	.0	.0
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	.6	.2	.2	.2	6.8	6.7	7.3
West ¹	25.7	26.6	26.5	26.6	33.6	34.0	33.6
Total Distribution ²	26.3	26.8	26.7	26.8	40.5	40.6	40.9
Imports	.0	.6	.6	.6	1.1	1.1	1.1
Consumer Stock Withdrawals	.1	.0	.0	.0	-.2	-.2	-.1
Total Supply	26.4	27.4	27.3	27.3	41.4	41.6	41.8
Consumption (million short tons)							
Residential/Commercial	.0	.0	.0	.0	.0	.0	.0
Other Industrial	3.7	3.2	3.2	3.2	2.6	2.7	2.7
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	23.0	24.1	24.1	24.1	38.8	38.9	39.1
Total Consumption	26.8	27.4	27.3	27.3	41.4	41.6	41.8
Discrepancy	-.4	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	41.03	41.06	41.02	49.57	48.73	49.43
Coke Plants	.00	.00	.00	.00	.00	.00	.00
Electricity	32.13	36.88	37.14	36.91	38.51	39.06	39.29
Average Price ³	-	37.36	37.60	37.39	39.21	39.69	39.95

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGE093.D0918923.

**Table 33. Domestic Coal Supply, Disposition, and Prices by Oil and Gas Recovery Case
Northwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central and Southern Appalachia	.0	.0	.0	.0	.0	.0	.0
Illinois Basin	.0	.0	.0	.0	.0	.0	.0
West Interior	.0	.0	.0	.0	.0	.0	.0
Northern Great Plains	1.9	5.9	6.0	5.9	14.6	14.8	13.2
West ¹	6.0	2.5	2.5	2.5	5.5	5.4	5.5
Total Distribution²	7.8	8.4	8.5	8.4	20.1	20.2	18.7
Imports	.0	.5	.5	.5	.8	.8	.8
Consumer Stock Withdrawals	-.5	.0	.0	.0	-.1	-.1	-.1
Total Supply	7.3	8.9	8.9	8.9	20.8	21.0	19.5
Consumption (million short tons)							
Residential/Commercial	.6	.5	.5	.5	.4	.4	.4
Other Industrial	.8	1.2	1.2	1.2	1.6	1.6	1.6
Coke Plants	.0	.0	.0	.0	.0	.0	.0
Electricity	6.0	7.2	7.2	7.2	18.8	18.9	17.4
Total Consumption	7.4	8.9	8.9	8.9	20.8	21.0	19.5
Discrepancy	-.1	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	-	21.62	21.64	21.65	23.43	23.54	23.61
Coke Plants	.00	.00	.00	.00	.00	.00	.00
Electricity	24.19	23.06	23.07	23.07	27.32	27.28	27.51
Average Price³	-	22.85	22.86	22.86	27.01	26.98	27.18

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-0214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 34. Domestic Coal Supply, Disposition, and Prices by Oil and Gas Recovery Case
United States**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Sources of Supply (million short tons)							
Distribution From							
Northern Appalachia	148.6	118.7	119.2	118.7	131.1	140.3	145.0
Central and Southern Appalachia	233.3	269.3	271.5	270.7	254.3	253.4	261.4
Illinois Basin	140.5	135.8	133.9	136.6	153.7	160.7	172.7
West Interior	63.5	83.5	79.5	79.6	104.5	103.9	111.2
Northern Great Plains	250.2	276.6	281.2	281.4	330.3	336.4	345.6
West ¹	78.3	98.5	96.7	97.3	129.7	133.1	137.1
Total Distribution ²	913.9	982.3	982.0	984.3	1103.6	1127.8	1173.1
Imports ³	2.4	6.5	6.5	6.5	11.5	11.5	11.5
Consumer Stock Withdrawals	-21.1	-1.2	-1.1	-1.6	-3.8	-3.9	-3.8
Total Supply	895.2	987.6	987.3	989.3	1111.3	1135.5	1180.8
Consumption (million short tons)							
Residential/Commercial	6.7	5.7	5.7	5.7	5.0	5.0	4.9
Other Industrial	76.3	85.9	85.6	85.8	93.5	93.3	93.6
Coke Plants	39.0	36.8	36.8	36.8	31.3	31.4	31.3
Electricity	773.5	859.2	859.3	861.0	981.5	1005.8	1051.0
Total Consumption	895.5	987.6	987.3	989.3	1111.3	1135.5	1180.8
Discrepancy	-.3	.0	.0	.0	.0	.0	.0
Delivered Prices (1991 dollars per short ton)							
Other Industrial	34.77	35.70	35.94	35.87	40.78	41.22	41.55
Coke Plants	49.40	55.71	55.94	55.79	65.17	66.08	66.83
Electricity	31.52	33.14	33.20	33.11	37.22	37.49	38.16
Average Price ⁴	32.55	34.21	34.29	34.20	38.31	38.59	39.20

¹ Includes Rocky Mountains, Southwest, and Northwest.

² Excludes distribution to unknown destinations and from unknown origins.

³ Total imports excludes Puerto Rico and the Virgin Islands.

⁴ Weighted average. Excludes residential/commercial prices.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Distribution - Energy Information Administration, *Coal Distribution January-December 1990*, DOE/EIA-0125(90/4Q) (April 1991); Imports - U.S. Bureau of the Census, Form IM-145; Consumer Stock Withdrawals: Energy Information Administration, *Quarterly Coal Report, October-December 1991*, DOE/EIA-0121(91/4Q) (May 1992) and *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Consumption: Residential/Commercial, Electricity, Total Industrial, and Total Consumption: Energy Information Administration, *State Energy Data Report, Consumption Estimates 1960-1990*, DOE/EIA-C214(90) (May 1992); Other Industrial and Coke Plant consumption estimated from sectoral coal distribution - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Delivered Prices - *Quarterly Coal Report, October-December 1990*, DOE/EIA-0121(90/4Q) (May 1991); Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGE093.D0918923.

World Coal Trade

Table 35. World Steam Coal Flows, 1991
(Million Short Tons)

Importers	Exporters											Total
	United States ^a	Australia	Poland	South Africa	Former U.S.S.R	Canada	Germany	United Kingdom	China	Colombia	Other	
Western Europe	33.1	12.5	10.7	33.6	9.3	1.3	1.8	2.3	3.6	13.5	-	121.5
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Austria	-	-	-	0.0	0.0	-	0.1	-	-	0.0	1.6	1.7
Belgium	1.2	0.6	0.3	4.8	0.5	-	0.7	0.1	0.3	0.4	0.1	9.0
Denmark	5.2	2.1	0.8	-	1.6	0.7	0.0	0.2	0.1	2.9	0.3	13.9
Egypt	-	-	-	-	-	-	0.0	-	-	-	-	0.0
Finland	0.3	0.0	2.9	-	1.1	0.0	0.0	0.1	0.2	0.7	0.3	5.7
France	5.1	2.5	0.0	1.0	1.0	0.0	0.7	0.4	1.9	2.3	0.7	15.6
Germany	1.3	1.3	3.7	6.1	0.2	0.4	-	0.3	0.3	0.5	1.7	15.8
Greece	0.0	0.1	-	1.3	0.3	-	-	-	-	-	-	1.8
Ireland	1.5	-	0.6	0.1	-	-	0.0	0.3	0.0	0.0	1.0	3.6
Israel	0.6	0.6	-	2.8	-	-	-	-	-	0.7	-	4.5
Italy	5.2	0.1	0.6	5.5	1.2	-	0.0	-	0.3	0.3	0.4	13.5
Luxembourg	-	-	-	0.1	0.1	-	0.0	-	0.0	-	0.0	0.2
Morocco	0.8	-	-	-	-	-	-	0.1	-	-	-	0.9
Netherlands	3.1	4.0	0.8	1.2	0.0	0.0	0.0	0.0	0.0	1.8	0.5	11.6
Norway	0.2	0.0	0.1	-	0.0	-	0.0	0.1	0.0	-	0.2	0.6
Portugal	1.5	0.1	-	1.8	0.1	-	-	0.2	-	0.4	0.0	4.0
Spain	1.6	0.3	0.0	5.3	0.3	-	0.0	0.3	-	0.8	0.4	9.2
Sweden	0.2	0.1	0.5	-	0.5	-	0.0	0.0	0.1	0.0	0.4	1.8
Switzerland	-	-	0.0	0.4	-	-	0.0	-	-	-	0.0	0.4
Turkey	0.1	-	-	1.2	0.9	-	-	-	-	-	-	2.3
United Kingdom	4.4	0.7	0.4	0.6	1.0	0.0	0.2	0.0	0.3	2.7	1.0	11.4
Yugoslavia	0.1	-	-	-	-	-	-	-	-	-	-	0.1
Other	0.8	-	-	1.3	0.3	-	-	-	-	-	-	2.5
Asia	7.7	45.8	0.1	14.3	4.3	3.8	-	-	11.8	0.1	4.0	92.0
Hong Kong	0.6	3.9	-	3.4	-	-	-	-	1.8	-	1.4	11.0
Japan	2.3	26.4	-	2.1	2.8	1.5	-	-	4.3	0.1	1.8	41.4
Korea, South	0.8	5.4	-	3.6	0.3	1.9	-	-	4.1	-	-	16.1
Malaysia	-	0.7	-	-	-	-	-	-	-	-	-	0.7
Taiwan	4.1	4.2	-	5.1	-	-	-	-	1.7	-	0.8	15.8
Other	0.1	5.1	0.1	-	1.1	0.5	-	-	-	-	-	7.0
Eastern Europe	0.1	0.1	2.2	-	7.9	-	0.0	-	-	-	0.7	11.1
South America ^b	0.4	0.7	-	0.4	-	0.2	0.0	0.0	-	-	-	1.6
Argentina	-	0.3	-	-	-	0.1	-	-	-	-	-	0.4
Brazil	0.1	-	-	0.4	-	0.1	0.0	0.0	-	-	-	0.6
Chile	0.1	0.3	-	-	-	0.1	-	-	-	-	-	0.5
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Other	0.2	-	-	-	-	-	-	-	-	-	-	0.2
Canada	8.3	-	-	-	-	-	0.0	-	-	-	-	8.3
United States	-	0.0	-	-	-	0.9	-	-	-	1.9	0.5	3.4
Balancing Item	-5.4	1.0	-0.1	0.8	-1.1	-0.4	-0.4	-0.3	0.7	0.4	-	-4.8
Total	44.3	60.0	12.9	48.9	20.4	5.9	1.5	2.0	16.1	15.9	5.3	233.2

^aImports from the United States are those recorded by the importing countries and do not necessarily agree with U.S. export statistics from the Bureau of the Census, U.S. Department of Commerce, *Monthly Report EM-522*.

^bIncludes Mexico, Central America, the Caribbean, and South America.

- Indicates no trade.

Note: Totals may not equal sum of components due to independent rounding.

Source: See notes and sources section following Table 40.

Table 36. World Metallurgical Coal Flows, 1991
(Million Short Tons)

Importers	Exporters											Total
	United States ^a	Australia	Poland	South Africa	Former U.S.S.R	Canada	Germany	United Kingdom	China	Colombia	Other	
Western Europe	34.1	14.4	2.4	0.2	1.3	3.2	2.3	0.1	0.0	0.0	1.1	59.1
Algeria	0.5	0.5	-	-	-	-	-	-	-	-	-	1.0
Austria	0.3	-	0.8	-	0.5	-	0.0	-	-	-	0.9	2.5
Belgium	4.6	1.2	0.2	0.1	-	0.4	0.4	0.0	-	-	-	7.1
Denmark	0.6	-	-	-	-	0.1	-	-	-	-	-	0.6
Egypt	0.8	0.5	-	-	0.6	-	-	-	-	-	-	1.9
Finland	0.4	-	-	-	-	-	-	-	-	-	-	0.4
France	4.6	2.4	0.2	-	-	0.6	0.7	-	-	-	0.1	8.4
Germany	0.3	0.1	0.6	-	-	0.0	-	-	-	-	0.1	1.2
Greece	-	-	-	-	-	-	-	-	-	-	-	-
Ireland	-	-	0.0	0.0	-	-	0.0	-	-	-	0.0	0.0
Israel	0.1	-	-	-	-	-	-	-	-	-	-	0.1
Italy	6.3	1.3	0.1	0.0	0.0	0.3	0.5	-	-	-	0.0	8.6
Luxembourg	-	-	-	-	-	-	0.0	-	-	-	-	0.0
Morocco	0.2	-	-	-	-	-	-	-	-	-	-	0.2
Netherlands	3.5	0.4	0.0	-	-	0.4	0.4	-	0.0	0.0	0.0	4.7
Norway	0.1	-	-	-	-	-	-	-	-	-	-	0.1
Portugal	0.1	-	0.1	-	-	0.1	-	0.0	-	-	-	0.3
Spain	3.7	0.8	0.0	-	-	0.3	0.3	0.0	-	-	0.0	5.1
Sweden	1.0	0.6	-	-	-	0.0	-	-	-	-	-	1.6
Switzerland	-	-	-	-	-	-	0.0	-	-	-	-	0.0
Turkey	1.6	2.2	-	-	0.1	0.1	-	-	-	-	-	4.1
United Kingdom	4.5	4.5	0.3	0.0	-	0.8	0.0	-	-	-	0.0	10.1
Yugoslavia	0.9	-	0.0	-	-	-	-	-	-	-	-	0.9
Other	0.1	-	-	-	-	-	-	-	-	-	-	0.1
Asia	14.5	58.0	0.1	3.6	5.5	25.8	-	-	3.2	0.4	2.5	113.7
Hong Kong	-	0.1	-	-	-	-	-	-	-	-	-	0.1
Japan	11.0	39.3	-	3.6	4.1	19.3	-	-	1.9	0.4	2.5	82.1
Korea, South	3.0	7.6	-	-	0.3	5.2	-	-	0.4	-	-	16.5
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	0.4	3.5	-	-	-	0.9	-	-	-	-	-	4.9
Other	0.1	7.4	0.1	-	1.1	0.5	-	-	0.8	-	-	10.1
Eastern Europe	2.1	0.8	2.6	-	5.0	-	-	-	-	-	0.3	10.8
South America ^b	7.8	2.8	1.6	-	-	1.8	-	-	0.1	-	-	14.2
Argentina	0.4	0.3	0.1	-	-	0.1	-	-	-	-	-	0.9
Brazil	7.0	2.0	1.5	-	-	1.4	-	-	0.1	-	-	12.0
Chile	0.0	0.4	-	-	-	0.3	-	-	-	-	-	0.7
Mexico	0.0	-	-	-	-	0.1	-	-	-	-	-	0.2
Other	0.4	0.1	-	-	-	-	-	-	-	-	-	0.5
Canada	5.4	-	-	-	-	-	-	-	-	-	-	5.4
United States	-	-	-	-	-	-	-	-	-	-	-	-
Balancing Item	0.6	-3.6	0.2	0.0	-1.2	0.8	0.1	0.0	1.3	0.0	-	-1.8
Total	64.6	72.4	6.9	3.7	10.6	31.7	2.4	0.0	4.6	0.3	3.9	201.4

^aImports from the United States are those recorded by the importing countries and do not necessarily agree with U.S. export statistics from the Bureau of the Census, U.S. Department of Commerce, *Monthly Report EM-522*.

^bIncludes Mexico, Central America, the Caribbean, and South America.

- Indicates no trade.

Note: Totals may not equal sum of components due to independent rounding.

Source: See notes and sources section following Table 40.

Table 37. Total World Coal Flows, 1991
(Million Short Tons)

Importers	Exporters											Total
	United States ^a	Australia	Poland	South Africa	Former U.S.S.R.	Canada	Germany	United Kingdom	China	Colombia	Other	
Western Europe	67.3	26.9	13.0	33.7	10.5	4.5	4.2	2.3	3.6	13.5	1.1	180.6
Algeria	0.5	0.5	-	-	-	-	-	-	-	-	-	1.0
Austria	0.3	-	0.8	0.0	0.5	-	0.1	-	-	0.0	2.5	4.2
Belgium	5.8	1.9	0.5	4.9	0.5	0.4	1.1	0.2	0.3	0.4	0.1	16.1
Denmark	5.8	2.1	0.8	-	1.6	0.8	0.0	0.2	0.1	2.9	0.3	14.5
Egypt	0.8	0.5	-	-	0.6	-	0.0	-	-	-	-	1.9
Finland	0.7	0.0	2.9	-	1.1	0.0	0.0	0.1	0.2	0.7	0.3	6.1
France	9.6	4.8	0.2	1.0	1.0	0.7	1.3	0.4	1.9	2.3	0.7	24.0
Germany	1.6	1.4	4.3	6.1	0.2	0.4	-	0.3	0.3	0.5	1.9	17.0
Greece	0.0	0.1	-	1.3	0.3	-	-	-	-	-	-	1.8
Ireland	1.5	-	0.6	0.1	-	-	0.0	0.3	0.0	0.0	1.0	3.6
Israel	0.7	0.6	-	2.8	-	-	-	-	-	0.7	-	4.6
Italy	11.5	1.3	0.7	5.5	1.2	0.3	0.5	-	0.3	0.3	0.4	22.1
Luxembourg	-	-	-	0.1	0.1	-	0.0	-	0.0	-	0.0	0.2
Morocco	1.0	-	-	-	-	-	-	0.1	-	-	-	1.1
Netherlands	6.6	4.4	0.8	1.2	0.0	0.4	0.4	0.0	0.0	1.8	0.5	16.3
Norway	0.3	0.0	0.1	-	0.0	-	0.0	0.1	0.0	-	0.2	0.7
Portugal	1.6	0.1	0.1	1.8	0.1	0.1	-	0.2	-	0.4	0.0	4.3
Spain	5.3	1.1	0.1	5.3	0.3	0.3	0.4	0.4	-	0.8	0.4	14.3
Sweden	1.2	0.7	0.5	-	0.5	0.0	0.0	0.0	0.1	0.0	0.4	3.4
Switzerland	-	-	0.0	0.4	-	-	0.0	-	-	-	0.0	0.4
Turkey	1.8	2.2	-	1.2	1.0	0.1	-	-	-	-	-	6.4
United Kingdom	9.0	5.1	0.6	0.6	1.8	0.8	0.2	0.0	0.3	2.7	1.0	21.5
Yugoslavia	1.0	-	0.0	-	-	-	-	-	-	-	-	1.0
Other	0.9	-	-	1.3	0.3	-	-	-	-	-	-	2.6
Asia	22.3	103.8	0.3	17.9	9.9	29.7	-	-	13.0	0.4	6.3	208.7
Hong Kong	0.6	4.0	-	3.4	-	-	-	-	1.8	-	1.4	11.1
Japan	13.3	65.8	-	5.8	6.9	20.7	-	-	6.3	0.4	4.3	123.5
Korea, South	3.7	13.0	-	3.6	0.7	7.1	-	-	4.5	-	-	32.6
Malaysia	-	0.7	-	-	-	-	-	-	-	-	-	0.7
Taiwan	4.5	7.7	-	5.1	-	0.9	-	-	1.7	-	0.8	20.6
Other	0.2	12.6	0.3	-	2.3	1.0	-	-	0.8	-	-	17.1
Eastern Europe	2.3	0.9	4.8	-	12.9	-	0.0	-	-	-	1.1	21.9
South America ^b	8.2	3.3	1.6	0.4	-	2.0	0.0	0.0	0.1	-	-	13.8
Argentina	0.4	0.7	0.1	-	-	0.1	-	-	-	-	-	1.3
Brazil	7.0	2.0	1.5	0.4	-	1.4	0.0	0.0	0.1	-	-	12.5
Chile	0.1	0.7	-	-	-	0.4	-	-	-	-	-	1.2
Mexico	0.0	-	-	-	-	0.1	-	-	-	-	-	0.2
Other	0.6	0.1	-	-	-	-	-	-	-	-	-	0.7
Canada	13.7	-	-	-	-	-	0.0	-	-	-	-	13.7
United States	-	0.0	-	-	-	0.9	-	-	-	1.9	0.3	3.4
Balancing item	-4.7	-2.6	0.1	0.7	-2.3	0.5	-0.3	-0.3	2.0	0.4	-	-6.5
Total	109.0	132.5	19.8	52.7	31.0	37.6	3.9	2.0	20.7	16.2	9.3	434.6

^aImports from the United States are those recorded by the importing countries and do not necessarily agree with U.S. export statistics from the Bureau of the Census, U.S. Department of Commerce, *Monthly Report EM-522*.

^bIncludes Mexico, Central America, the Caribbean, and South America.

- Indicates no trade.

Note: Totals may not equal sum of components due to independent rounding.

Source: See notes and sources section following Table 40.

Table 38. World Coal Flows by Importing and Exporting Regions, Reference Case
(Million Short Tons)

Exporters	Importers											
	Steam				Metallurgical				Total			Total
	Europe	Asia	Other	Total	Europe	Asia	Other	Total	Europe	Asia	Other	
1990												
Australia	11	41	0	54	14	48	2	63	24	89	2	117
United States	24	6	11	42	35	14	12	63	59	21	23	106
South Africa	31	18	1	50	0	4	0	4	32	22	1	54
Former U.S.S.R.	14	3	0	18	13	6	0	25	27	9	0	43
Poland	23	0	0	19	4	0	3	12	27	0	3	31
Canada	1	3	1	5	3	26	2	30	4	28	3	34
China	3	8	0	17	0	1	0	2	3	9	0	19
South America ^a	11	1	2	16	0	0	0	1	11	1	2	17
Other ^b	11	5	0	14	5	0	0	6	16	5	0	20
Total	130	84	15	236	74	100	18	205	204	184	33	441
2000												
Australia	23	73	0	97	33	51	10	93	56	124	10	190
United States	87	11	9	107	24	9	7	40	112	20	16	147
South Africa	57	13	0	70	0	3	0	3	57	16	0	73
Former U.S.S.R.	2	0	0	2	4	11	0	15	6	11	0	17
Poland	8	0	0	8	7	0	1	8	16	0	1	17
Canada	4	15	2	21	2	14	2	18	6	29	4	38
China	1	27	0	27	0	2	0	2	1	29	0	30
South America	37	1	9	47	0	1	1	2	37	2	10	49
Other	1	23	0	24	0	0	0	0	1	23	0	24
Total	220	163	20	403	70	90	20	181	290	253	40	583
2010												
Australia	32	103	0	135	38	50	10	99	69	154	11	234
United States	177	11	12	200	26	7	8	42	203	19	20	242
South Africa	86	13	0	99	0	0	0	0	86	13	0	99
Former U.S.S.R.	0	0	0	0	4	12	0	16	4	12	0	16
Poland	0	0	4	4	5	0	0	5	5	0	4	10
Canada	2	18	2	22	4	13	2	19	6	31	4	42
China	1	38	0	38	0	2	0	2	1	40	0	41
South America	50	1	18	69	1	1	4	5	50	2	22	74
Other	0	25	0	26	0	0	0	0	0	25	0	26
Total	346	211	37	593	78	86	25	189	425	296	61	782

^aIncludes Colombia and Venezuela.

^bIncludes principally Indonesia's trade within Asia; also, the United Kingdom and West Germany's trade within Europe.

Notes: Totals may not equal sum of components due to independent rounding. The sum of the columns may not equal the total, because the total includes a balancing item between importers' and exporters' data. In the case of China and the U.S.S.R., the balancing item for 1990 amounted to between 5 and 7 million short tons.

Sources: 1990: Energy Information Administration, Office of Integrated Analysis and Forecasting estimates. 2000 and 2010: Energy Information Administration, International Coal Trade Model projections (1992).

Table 39. World Coal Flows by Importing and Exporting Regions, High Economic Growth Case
(Million Short Tons)

Exporters	Importers											
	Steam				Metallurgical				Total			Total
	Europe	Asia	Other	Total	Europe	Asia	Other	Total	Europe	Asia	Other	
1990												
Australia	11	41	0	54	14	48	2	63	24	89	2	117
United States	24	6	11	42	35	14	12	63	59	21	23	106
South Africa	31	18	1	50	0	4	0	4	32	22	1	54
Former U.S.S.R.	14	3	0	18	13	6	0	25	27	9	0	43
Poland	23	0	0	19	4	0	3	12	27	0	3	31
Canada	1	3	1	5	3	26	2	30	4	28	3	34
China	3	8	0	17	0	1	0	2	3	9	0	19
South America ^a	11	1	2	16	0	0	0	1	11	1	2	17
Other ^b	11	5	0	14	5	0	0	6	16	5	0	20
Total	130	84	15	236	74	100	18	205	204	184	33	441
2000												
Australia	23	82	0	106	23	60	1	84	46	142	2	189
United States	102	11	9	122	36	9	14	59	137	20	24	181
South Africa	57	13	0	70	0	3	0	3	57	16	0	73
Former U.S.S.R.	2	0	0	2	4	11	0	15	6	11	0	17
Poland	8	0	0	8	8	0	1	9	17	0	1	18
Canada	2	17	2	21	4	12	2	17	5	29	4	38
China	1	27	0	27	0	2	0	2	1	29	0	30
South America	37	1	9	47	0	1	3	3	37	2	11	50
Other	1	23	0	24	0	0	0	0	1	23	0	24
Total	232	172	21	427	75	97	21	193	306	271	42	619
2010												
Australia	25	113	0	138	62	65	10	137	86	178	11	275
United States	246	13	13	271	8	7	11	27	254	20	24	298
South Africa	67	32	0	99	0	0	0	0	67	32	0	99
Former U.S.S.R.	0	0	0	0	7	12	0	19	7	12	0	19
Poland	4	0	0	4	5	0	0	5	10	0	0	10
Canada	2	19	2	22	7	13	2	22	9	32	4	44
China	1	38	0	38	0	2	0	2	1	40	0	41
South America	45	1	23	69	1	1	4	5	46	2	27	74
Other	0	25	0	26	0	0	0	0	0	25	0	26
Total	389	241	39	668	90	101	27	218	479	341	66	886

^aIncludes Colombia and Venezuela.

^bIncludes principally Indonesia's trade within Asia; also, the United Kingdom and West Germany's trade within Europe.

Notes: Totals may not equal sum of components due to independent rounding. Also, the sum of the columns may not equal the total, because the total includes a balancing item between importers' and exporters' data. In the case of China and the U.S.S.R., the balancing item for 1990 amounted to between 5 and 7 million short tons.

Sources: **1990:** Energy Information Administration, Office of Integrated Analysis and Forecasting estimates. **2000 and 2010:** Energy Information Administration, International Coal Trade Model projections (1992).

Table 40. World Coal Flows by Importing and Exporting Regions, Low Economic Growth Case
(Million Short Tons)

Exporters	Importers											
	Steam				Metallurgical				Total			Total
	Europe	Asia	Other	Total	Europe	Asia	Other	Total	Europe	Asia	Other	
1990												
Australia	11	41	0	54	14	48	2	63	24	89	2	117
United States	24	6	11	42	35	14	12	63	59	21	23	106
South Africa	31	18	1	50	0	4	0	4	32	22	1	54
Former U.S.S.R.	14	3	0	18	13	6	0	25	27	9	0	43
Poland	23	0	0	19	4	0	3	12	27	0	3	31
Canada	1	3	1	5	3	26	2	30	4	28	3	34
China	3	8	0	17	0	1	0	2	3	9	0	19
South America ^a	11	1	2	16	0	0	0	1	11	1	2	17
Other ^b	11	5	0	14	5	0	0	6	16	5	0	20
Total	130	84	15	236	74	100	18	205	204	184	33	441
2000												
Australia	32	62	0	93	44	44	9	97	75	106	9	190
United States	68	11	8	87	11	9	7	26	78	20	15	113
South Africa	57	13	0	70	0	3	0	3	57	16	0	73
Former U.S.S.R.	2	0	0	2	4	11	0	15	6	11	0	17
Poland	8	0	0	8	6	0	1	7	15	0	1	16
Canada	3	15	2	20	2	14	2	17	4	29	4	37
China	1	27	0	27	0	2	0	2	1	29	0	30
South America	37	1	8	47	0	1	1	2	37	2	9	48
Other	1	23	0	24	0	0	0	0	1	23	0	24
Total	207	152	19	379	66	83	20	169	274	235	39	548
2010												
Australia	41	74	0	115	44	37	9	89	84	111	9	204
United States	140	11	11	162	13	7	8	28	152	18	19	190
South Africa	86	13	0	99	0	0	0	0	86	13	0	99
Former U.S.S.R.	0	0	0	0	4	12	0	16	4	12	0	16
Poland	4	0	0	4	5	0	0	5	10	0	0	10
Canada	2	19	2	22	3	13	2	18	5	32	4	40
China	1	38	0	38	0	2	0	2	1	40	0	41
South America	36	1	21	59	1	1	4	5	37	2	25	64
Other	0	25	0	26	0	0	0	0	0	25	0	26
Total	309	181	34	525	69	73	22	164	378	254	57	689

^aIncludes Colombia and Venezuela.

^bIncludes principally Indonesia's trade within Asia; also, the United Kingdom and West Germany's trade within Europe.

Notes: Totals may not equal sum of components due to independent rounding. Also, the sum of the columns may not equal the total, because the total includes a balancing item between importers' and exporters' data. In the case of China and the U.S.S.R., the balancing item for 1990 amounted to between 5 and 7 million short tons.

Sources: **1990:** Energy Information Administration, Office of Integrated Analysis and Forecasting estimates. **2000 and 2010:** Energy Information Administration, International Coal Trade Model projections (1992).

Notes and Sources for World Coal Trade Flows

International coal trade statistics can be obtained from either (a) export statistics of coal-exporting countries or (b) import statistics of coal-importing countries. Estimates may differ for trade between any two countries for which both sets of data are available due to classification differences in each country (discussed later). Consequently, the worldwide coal trade figures based upon exporting countries' totals are not the same as those obtained by summing the importing country totals.

In Tables 35 through 37, import statistics were used whenever available as the basis of the trade data in the body of the tables above the Balancing Item. For OECD countries, data on coal imports by coal type are published in the OECD/International Energy Agency report, *IEA Coal Information 1992*. That report provides a uniform set of data on coal imports by the OECD countries by coal type, i.e., steam and metallurgical, and is the principal source of the data in these tables. For non-OECD countries, a number of sources were used. In some cases, data on coal imports by coal type are available from the overall trade statistics of the importing country. In other cases, only total coal import data are provided in the country trade statistics, and the breakdown for steam and metallurgical coal was estimated by EIA. In still other cases, no importing country data are available, and the imports were estimated by summing the data of exporters for that country. Data sources or the derivation of the data for individual countries are shown below.

The balancing item contained in Tables 35 through 37 generally is the difference between the total of individual country coal exports and reported imports summed. Shipments in transit and distribution losses are additional reasons for the discrepancies between export and import statistics. Finally, different exporters and importers may use different definitions for steam and metallurgical coals. Thus, while total coal trade reported between any two countries may agree, the more detailed data on steam coal and metallurgical coal may not, because the coal may have been used in the importing country in different ways than initially anticipated when it was shipped from the exporting country. The balancing item also figures into Tables 38 through 40. In those tables the sum of column totals may not equal the reported total because the balancing item, which is not directly assignable to any of the regional columns, has been omitted from the regional columns but is included in the total.

Sources: Export Statistics 1990

OECD Countries: International Energy Agency (IEA), *Coal Information 1992 (IEA Coal Information 1992)* (Paris, 1992).

Non-OECD Countries:

China: (Total Exports Only) University of Illinois, China Statistical Information and Consultancy Service Center, *China Statistics Monthly, Volume 11* (Chicago, February 1991).

Colombia: International Coal Report's *Coal Year 1991 (ICRCY 91)* (London 1991).

Czechoslovakia: United Nations Economic Commission for Europe, *The Coal Situation in Europe and North America in 1990 (UNECE 1991)*, (Geneva 1991). Coal type assigned according to available market information.

Indonesia: Embassy of Indonesia, Washington, D.C.

South Africa: *South African Coal Report*, April 1991, pp. 10-11.

Poland: *Coal Observer*, May 2, 1991.

U.S.S.R.: *UNECE 1991*. Coal type assigned according to available market information.

Other Exporters: Estimated from importing countries' statistics. (See below.)

Sources: Import Statistics 1990

OECD Countries (except the United States): *IEA Coal Information 1992*.

Non-OECD Europe and Mediterranean:

Algeria: Exporter's data, United States: U.S. Department of Commerce, *Monthly Report EM-522*, Australia (*ICRCY 91*, p. 3).

Egypt: Exporter's data, United States (*EM-522*), Australia (*ICRCY 91*, p. 3). (U.S.S.R. data not available, but reported in previous years.)

Israel: *IEA Coal Information 1992*, p. 195.

Morocco: Exporters' data, United States (*EM-522*), United Kingdom (*ICRCY 91*, p. 12), Colombia (*ICRCY 91*, p. 9).

Yugoslavia: Exporters' data, United States (*EM-522*), Australia (*ICRCY 91*, p. 4), Poland (*Coal Observer*, May 2, 1991, p.39), U.S.S.R. (*UNECE 1991*), Czechoslovakia (*UNECE 1991*).

Other: Exporters' data, United States (*EM-522*) and Poland (*Coal Observer*, May 2, 1991, p. 30).

Non-OECD Asia:

Hong Kong: *IEA Coal Information 1992*, p. 195.

South Korea: *IEA Coal Information 1992*, p. 198.

Malaysia: Exporters' data, Australia (*ICRCY 91*, pp.3-4), Indonesia (Embassy of Indonesia, Washington, D.C.).

Taiwan: *IEA Coal Information 1992*, p. 199.

"Other Asia," as follows:

China (PRC): Exporters' data, Indonesia (Embassy of Indonesia).

India: Exporters' data, Australia (*ICRCY 91*, pp. 3-4), Indonesia (Embassy of Indonesia).

Indonesia: Embassy of Indonesia, Washington, D.C.

North Korea: Exporters' data, U.S.S.R. (Data not available for 1990, but reported in previous years.)

Pakistan: Exporters' data, Australia (*ICRCY 91*, pp.3-4) and Canada (*ICRCY 91*, p. 7).

Philippines: International Coal Report, *ICR Monthly Statistics*, October 1991, p. 13.

Thailand: Exporters' data. Indonesia (Embassy of Indonesia, Washington, D.C.).

Eastern Europe: Including Bulgaria, Czechoslovakia, Hungary, Poland, Romania, and the U.S.S.R. (*UNECE 1991*). Assignment of coal type for exports from Czechoslovakia and the U.S.S.R. was based mainly on analysis contained in the reports, *World Coal Fired Power Stations* and *Coal Prospects in Eastern Europe*, published by the IEA Coal Research (London, United Kingdom, 1990).

South America:

Argentina: Exporters' data, United States (*EM-522*), Australia (*ICRCY 91*, pp. 3-4), Poland (*Coal Observer*, May 2, 1991, p. 39).

Brazil: *IEA Coal Information 1992*, p. 192.

Chile: Exporters' data, United States (*EM-522*), Australia (*ICRCY 91*, pp. 3-4), South Africa (*South African Coal Report*, April 1991, pp. 10-11), Canada (*ICRCY 91*, pp. 7) and Colombia (*Coal Week International*, June 11, 1991, p. 7).

Mexico: Exporters' data, United States (*EM-522*).

Other: Exporters' data, United States (*EM-522*), Colombia (*ICRCY 91*, p. 9).

Sources: Coal Trade Statistics 1991

OECD Countries (except the United States): International Energy Agency (IEA), *Coal Information 1992* (*IEA Coal Information 1992*) (Paris, 1992).

Non-OECD Europe and Mediterranean:

Algeria: *International Coal Report's Coal Year 1992* (*ICRCY 1992*), export data from Australia and United States.

Egypt: *ICRCY 1992*, export data from Australia and United States.

Israel: *IEA Coal Information 1992*, pp. 195.

Morocco: *ICRCY 1992*, export data from Columbia, United States, and United Kingdom.

Yugoslavia: *ICRCY 1992*, export data from Poland and United States.

Non-OECD Asia:

Hong Kong: *IEA Coal Information 1992*, p. 195.

South Korea: *IEA Coal Information 1992*, p. 198.

Malaysia: *IEA Coal Information 1992*, pp. 288, export data from Australia.

Taiwan: *IEA Coal Information 1992*, p. 199.

Eastern Europe: Bulgaria, Hungary, and Romania (*UNECE 1991*). Poland and former U.S.S.R. U.S.S.R. *IEA Coal Information 1992*, p. 196, 200. Czechoslovakia export data from Federal Statistical Office, Czechoslovakia. Exports types were assigned based on importer data for Austria, Sweden and Germany from *IEA Coal Information 1992* p. 338, 394, 504.

South America:

Argentina: *ICRCY 1992*, export data from Australia, Canada, Poland, and United States.

Brazil: *IEA Coal Information 1992*, p. 192.

Chile: *ICRCY 1992*, export data from Australia and Canada.

Mexico: *ICRCY 1992*, export data from Canada and United States.

Electric Power Data and Projections by World Oil Price Case

**Table 41. Electric Power Data and Projections by World Oil Price Case
New England Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Demand (billion kilowatthours)							
Residential	37.5	43.7	43.9	44.3	48.9	49.5	49.9
Commercial/Other	39.6	44.9	44.9	45.0	50.0	49.9	49.6
Industrial	27.2	28.9	29.3	30.0	33.9	34.9	36.4
Total Sales	104.3	117.5	118.1	119.4	132.8	134.2	135.9
Nonutility Consumption of On-Site Generation	4.8	10.0	10.0	10.0	10.8	10.8	10.8
Total Electricity Demand	109.0	127.5	128.2	129.4	143.6	145.0	146.7
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a	5.6	7.0	7.0	7.1	7.7	7.7	7.8
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	6.1	11.7	11.7	11.7	21.1	21.1	21.1
Purchases from Nonutilities	9.7	18.6	18.5	18.5	23.3	23.2	23.2
Generation by Utilities	94.1	94.2	95.0	96.3	96.1	97.7	99.5
Total Net Energy for Load	109.9	124.5	125.2	126.4	140.5	142.0	143.7
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	16.6	16.5	16.5	16.5	15.8	15.8	15.8
Natural Gas	6.3	6.4	6.4	.3	6.2	6.2	.7
Oil	27.7	26.3	27.0	34.5	28.8	30.3	37.6
Nuclear	37.4	39.7	39.7	39.7	39.5	39.5	39.5
Renewable Sources/Other ^c	6.1	5.3	5.3	5.3	5.8	5.8	5.8
Total Utility Generation	94.1	94.2	95.0	96.3	96.1	97.7	99.5
Nonutility Generation^d							
Coal	1.9	3.6	3.6	3.6	3.6	3.7	3.7
Natural Gas	1.4	7.9	7.9	7.9	8.0	8.0	8.0
Oil	1.6	2.2	2.2	2.3	2.3	2.3	2.3
Renewable Sources/Other ^c	9.5	14.8	14.8	14.7	20.2	20.1	20.1
Total Nonutility Generation	14.4	28.6	28.5	28.5	34.0	34.0	34.0
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	8.34	10.25	9.99	9.44	10.15	9.67	8.94
Commercial/Other	8.42	10.02	9.77	9.27	9.39	8.94	8.25
Industrial	6.12	7.23	7.00	6.51	7.50	7.07	6.41
All Sectors Average	7.82	9.42	9.16	8.64	9.18	8.73	8.01
Price Components							
Capital ^f	2.36	3.21	3.18	3.13	1.99	1.96	1.90
Fuel ^g	2.30	3.13	2.91	2.44	4.21	3.78	3.14
Operation and Maintenance ^h	3.16	3.08	3.07	3.06	2.99	2.98	2.97
Total Average Electricity Price	7.82	9.42	9.16	8.64	9.18	8.73	8.01
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.87	2.12	2.14	2.09	2.66	2.71	2.68
Natural Gas	2.49	3.55	3.53	3.22	4.91	4.70	4.57
Oil	2.96	4.47	3.64	2.31	6.55	5.09	3.30
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	164.9	163.5	163.6	163.3	156.3	156.5	156.7
Natural Gas	69.4	72.1	72.0	3.6	69.5	69.8	8.5
Oil	291.3	288.0	295.9	377.8	315.7	333.2	413.0
Nonutility^j							
Coal	13.6	25.4	25.4	25.4	25.8	25.8	25.9
Natural Gas	8.6	49.5	49.6	49.7	49.9	49.9	50.0
Oil	10.6	14.7	14.7	14.8	14.8	14.8	14.9
Emissions (million tons) ^k							
Sulfur Dioxide	.4	.3	.3	.4	.2	.2	.3
Nitrogen Oxides	.1	.1	.1	.1	.1	.1	.1
Carbon Dioxide	37.3	36.2	36.6	36.5	49.6	51.2	54.7

- See footnotes at end of table.

**Table 41. Electric Power Data and Projections by World Oil Price Case
New England Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	2.7	2.4	2.4	2.4	2.3	2.3	2.3
Other Fossil Steam ^m	9.0	7.7	7.7	7.7	7.4	7.4	7.4
Combined Cycle	.4	.4	.4	.4	.4	.4	.4
Combustion Turbine/Diesel	1.4	1.7	1.7	1.7	1.7	2.0	2.3
Nuclear Power	6.6	6.4	6.4	6.4	6.4	6.4	6.4
Pumped Storage Hydroelectric	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Renewable Sources/Other ^c	1.7	1.8	1.8	1.8	2.0	2.0	2.0
Total Utility Capability	23.3	22.1	22.1	22.1	21.8	22.1	22.4
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	0	0	0	0	0	0
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	0	.3	.3	.3	.3	.3	.3
Nuclear Power	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.1	.1	.1	.1	.1	.1
Total (Announced)	1.2	1.6	1.6	1.6	1.6	1.6	1.6
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	0	0	0	0	0	.3	.6
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.1	.1	.1	.2	.2	.2
Total (Not Announced)	.0	.1	.1	.1	.2	.5	.8
Total Utility Additions	1.2	1.6	1.6	1.6	1.8	2.1	2.4
Cumulative Utility Retirements ^o	.0	1.7	1.7	1.7	2.2	2.2	2.2
Nonutility							
Capability^p							
Coal	.4	.7	.7	.7	.7	.7	.7
Natural Gas	.8	2.0	2.0	2.0	2.0	2.0	2.0
Oil	.4	.7	.7	.7	.7	.7	.7
Renewable Sources/Other ^c	1.7	2.8	2.7	2.7	3.6	3.5	3.5
Total Nonutility Capability	3.2	6.2	6.1	6.1	7.0	7.0	7.0
Cumulative Additions ⁿ	.0	2.9	2.9	2.9	3.8	3.7	3.7

- ^a Balancing item equaling net energy for load minus electricity sales.
- ^b Generation to meet system load, exclusive of net interregional transfers.
- ^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
- ^d Represents gross generation, net generation data are not reported.
- ^e Prices are from model simulations and represent average revenue per kilowatt-hour of demand over all customer classes.
- ^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
- ^g Includes the direct costs of fuel inputs used to generate electricity.
- ^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
- ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
- ^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
- ^k Estimated emissions from utilities and independent power producers in millions of short tons.
- ^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
- ^m Includes oil-, gas-, and dual-fired steam capability.
- ⁿ Cumulative additions after December 31, 1989.
- ^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
- ^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil Price--Run HWOP93.D0920923, Reference--Run AEO93B.D0918921, Low Oil Price--Run LWOP93.D0920923.

**Table 42. Electric Power Data and Projections by World Oil Price Case
New York/New Jersey Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Demand (billion kilowatthours)							
Residential	59.1	68.6	68.9	69.6	76.7	77.6	78.3
Commercial/Other	86.1	96.4	96.5	96.8	109.3	108.9	108.5
Industrial	47.0	49.6	50.5	51.6	59.2	60.9	63.5
Total Sales	192.2	214.7	215.8	218.0	245.2	247.3	250.4
Nonutility Consumption of On-Site Generation	3.2	16.5	16.5	16.6	17.9	17.9	17.9
Total Electricity Demand	195.3	231.2	232.4	234.6	263.1	265.2	268.3
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	-20.8	-11.3	-11.2	-11.1	-9.5	-9.6	-9.1
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	.5	12.7	12.7	12.7	13.0	13.0	13.0
Purchases from Nonutilities	5.7	28.9	28.9	28.8	35.5	38.7	35.4
Generation by Utilities	165.1	161.8	163.1	165.4	187.2	186.0	192.9
Total Net Energy for Load	171.4	203.4	204.6	206.9	235.7	237.8	241.3
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	31.7	25.4	25.5	25.7	25.7	25.7	25.7
Natural Gas	25.2	32.2	32.5	33.1	44.1	43.4	9.5
Oil	35.2	21.9	22.7	24.3	42.5	42.0	82.9
Nuclear	47.4	55.0	55.0	55.0	47.0	47.0	46.9
Renewable Sources/Other ^c	25.6	27.4	27.4	27.4	27.9	27.9	27.9
Total Utility Generation	165.1	161.8	163.1	165.4	187.2	186.0	192.9
Nonutility Generation^d							
Coal	1.4	6.2	6.2	6.2	6.4	9.7	6.4
Natural Gas	3.9	25.5	25.5	25.5	25.7	25.7	25.7
Oil	.5	2.8	2.8	2.8	2.9	2.9	2.9
Renewable Sources/Other ^c	3.1	10.9	10.9	10.8	18.4	18.4	18.3
Total Nonutility Generation	8.9	45.4	45.4	45.4	53.3	56.6	53.3
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	10.69	9.93	9.76	9.27	10.51	10.00	9.26
Commercial/Other	10.11	9.85	9.69	9.24	10.04	9.55	8.90
Industrial	4.85	5.19	5.06	4.67	6.24	5.84	5.23
All Sectors Average	9.04	8.80	8.63	8.17	9.27	8.78	8.09
Price Components							
Capital ^f	3.78	3.18	3.14	3.06	2.31	2.25	2.15
Fuel ^g	2.47	2.97	2.84	2.47	4.31	3.91	3.31
Operation and Maintenance ^h	2.80	2.65	2.65	2.64	2.64	2.61	2.63
Total Average Electricity Price	9.04	8.80	8.63	8.17	9.27	8.78	8.09
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.71	1.85	1.86	1.84	2.11	2.16	2.13
Natural Gas	2.44	3.53	3.52	2.90	4.86	4.65	4.53
Oil	3.73	4.96	4.13	2.74	6.87	5.45	3.77
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	329.6	270.6	271.6	273.2	273.9	273.8	273.7
Natural Gas	279.8	333.2	337.0	343.5	486.0	476.5	120.1
Oil	367.2	230.9	239.2	255.7	450.9	445.0	861.6
Nonutility^j							
Coal	9.6	44.0	44.1	44.1	45.0	71.4	45.3
Natural Gas	24.3	159.4	159.4	159.7	160.7	160.8	160.9
Oil	3.6	18.4	18.5	18.6	18.7	18.7	18.8
Emissions (million tons) ^k							
Sulfur Dioxide	.5	.3	.3	.3	.3	.3	.3
Nitrogen Oxides	.2	.2	.2	.2	.3	.3	.3
Carbon Dioxide	84.4	73.1	74.1	75.9	108.2	109.9	123.3

- See footnotes at end of table.

**Table 42. Electric Power Data and Projections by World Oil Price Case
New York/New Jersey Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Generating Capability (gigawatts) ¹							
Utility Capability							
Coal Steam	5.5	4.4	4.4	4.4	4.2	4.2	4.2
Other Fossil Steam ^m	16.6	14.5	14.5	14.5	14.2	14.2	14.2
Combined Cycle	.2	1.8	1.8	1.8	2.0	2.0	2.6
Combustion Turbine/Diesel	8.1	9.1	9.1	9.1	9.1	9.1	9.2
Nuclear Power	8.7	8.7	8.7	8.7	7.5	7.5	7.5
Pumped Storage Hydroelectric	1.6	1.7	1.7	1.7	1.7	1.7	1.7
Renewable Sources/Other ^c	3.9	4.3	4.3	4.3	4.3	4.3	4.3
Total Utility Capability	44.7	44.5	44.5	44.5	43.0	43.0	43.6
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	0	0	0	0	0	0
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	1.6	1.6	1.6	1.8	1.8	1.8
Combustion Turbine/Diesel	.1	1.2	1.2	1.2	1.2	1.2	1.2
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	.1	.1	.1	.1	.1	.1
Renewable Sources/Other ^c	.0	.4	.4	.4	.5	.5	.5
Total (Announced)	.1	3.2	3.2	3.2	3.5	3.5	3.5
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	.6
Combustion Turbine/Diesel	0	0	0	0	0	0	.1
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	0	0	0	0	0	0
Total (Not Announced)	.0	.0	.0	.0	.0	.0	.6
Total Utility Additions	.1	3.2	3.2	3.2	3.5	3.5	4.1
Cumulative Utility Retirements ^o	.0	3.3	3.3	3.3	5.1	5.1	5.1
Nonutility Capability^p							
Coal	.3	1.3	1.3	1.3	1.3	1.9	1.3
Natural Gas	.9	5.0	5.0	5.0	5.0	5.0	5.0
Oil	.1	1.1	1.1	1.1	1.1	1.2	1.2
Renewable Sources/Other ^c	.6	2.1	2.1	2.1	3.3	3.3	3.3
Total Nonutility Capability	1.9	9.6	9.5	9.6	10.8	11.4	10.8
Cumulative Additions ⁿ	.0	7.7	7.7	7.7	8.9	9.5	8.9

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of net interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report;" The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil Price--Run HWO93.D0920923, Reference--Run AEO93B.D0918921, Low Oil Price--Run LWOP93.D0920923.

**Table 43. Electric Power Data and Projections by World Oil Price Case
Mid-Atlantic Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Demand (billion kilowatthours)							
Residential	97.1	108.7	108.9	109.7	121.7	122.7	123.5
Commercial/Other	82.7	96.9	96.9	97.1	110.2	110.3	109.8
Industrial	98.4	114.3	115.9	118.0	133.8	136.8	141.6
Total Sales	278.2	319.9	321.7	324.8	365.7	369.7	374.9
Nonutility Consumption of On-Site Generation	8.5	18.1	18.2	18.2	19.5	19.5	19.6
Total Electricity Demand	286.7	338.0	339.8	343.0	385.2	389.3	394.5
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	60.3	55.4	55.5	55.7	58.3	58.6	59.1
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	0	0	0	0	0	0	0
Purchases from Nonutilities	9.3	22.1	22.1	22.1	30.1	32.8	36.8
Generation by Utilities	329.2	353.2	355.1	358.5	393.9	395.5	397.2
Total Net Energy for Load	338.5	375.3	377.2	380.5	424.0	428.3	434.0
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	227.8	241.2	241.7	242.4	264.5	261.9	247.4
Natural Gas	3.0	6.0	6.2	.1	20.8	25.6	22.0
Oil	10.6	17.1	18.3	27.0	19.5	18.8	38.4
Nuclear	82.9	86.7	86.7	86.7	86.3	86.3	86.3
Renewable Sources/Other ^c	4.9	2.2	2.2	2.2	2.8	2.9	3.1
Total Utility Generation	329.2	353.2	355.1	358.5	393.9	395.5	397.2
Nonutility Generation^d							
Coal	7.2	12.6	12.6	12.7	12.8	12.8	12.8
Natural Gas	2.5	8.5	8.5	8.5	11.5	14.2	18.3
Oil	1.1	2.5	2.5	2.5	2.5	2.6	2.6
Renewable Sources/Other ^e	7.0	16.6	16.6	16.6	22.8	22.8	22.8
Total Nonutility Generation	17.8	40.2	40.2	40.3	49.6	52.3	56.4
Electricity Price (1991 cents per kilowatthour)^f							
End-Use Sectors							
Residential	8.21	8.86	8.83	8.69	8.62	8.49	8.31
Commercial/Other	7.68	7.78	7.75	7.63	7.17	7.07	6.84
Industrial	5.35	5.62	5.61	5.51	5.54	5.47	5.36
All Sectors Average	7.03	7.37	7.34	7.22	7.05	6.95	6.76
Price Components							
Capital ^g	3.27	3.06	3.04	3.01	2.23	2.17	1.98
Fuel ^h	1.43	2.00	2.00	1.91	2.53	2.51	2.56
Operation and Maintenance ⁱ	2.33	2.32	2.31	2.30	2.30	2.27	2.22
Total Average Electricity Price	7.03	7.37	7.34	7.22	7.05	6.95	6.76
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.58	1.63	1.69	1.67	1.88	1.93	1.95
Natural Gas	2.60	4.03	3.99	3.53	5.47	5.29	5.06
Oil	3.51	4.97	4.07	2.69	6.75	5.31	3.58
Fuel Consumption (trillion Btu)							
Utility ^j							
Coal	2,247.8	2,460.7	2,465.4	2,472.9	2,665.0	2,638.7	2,523.7
Natural Gas	39.1	55.0	57.3	1.7	173.2	202.8	201.8
Oil	130.0	172.9	185.8	268.7	197.9	190.2	390.6
Nonutility^k							
Coal	50.7	89.3	89.4	89.5	90.5	90.6	90.8
Natural Gas	15.8	52.9	53.1	53.3	74.8	94.4	124.0
Oil	7.0	16.3	16.3	16.4	16.6	16.7	16.8
Emissions (million tons) ^l							
Sulfur Dioxide	2.6	2.2	2.0	2.0	2.0	1.9	1.9
Nitrogen Oxides	.9	.6	.6	.6	.7	.7	.7
Carbon Dioxide	254.1	279.7	281.4	285.8	314.4	314.0	321.8

- See footnotes at end of table.

**Table 43. Electric Power Data and Projections by World Oil Price Case
Mid-Atlantic Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	40.5	40.5	40.5	40.5	43.5	42.9	40.1
Other Fossil Steam ^m	9.5	8.1	8.1	8.1	7.4	7.4	7.4
Combined Cycle	.3	1.4	1.4	1.4	4.5	5.9	5.0
Combustion Turbine/Diesel	4.5	4.9	4.9	4.9	6.0	5.6	9.8
Nuclear Power	13.8	13.8	13.8	13.8	13.8	13.8	13.8
Pumped Storage Hydroelectric	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Renewable Sources/Other ^c	2.1	2.7	2.7	2.7	2.8	2.8	2.8
Total Utility Capability	74.2	74.9	74.9	74.9	81.6	82.0	82.6
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	1.7	1.7	1.7	1.7	1.7	1.7
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	.1	1.2	1.2	1.2	1.6	1.6	1.6
Combustion Turbine/Diesel	.4	.8	.8	.8	1.0	1.0	1.0
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.1	.6	.6	.6	.7	.7	.7
Total (Announced)	.6	4.4	4.4	4.4	5.0	5.0	5.0
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	3.3	2.8	0
Combined Cycle	0	0	0	0	2.8	4.2	3.3
Combustion Turbine/Diesel	0	0	0	0	.9	.5	4.7
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.1	.1	.1	.1	.1	.1
Total (Not Announced)	.0	.1	.1	.1	7.2	7.5	8.1
Total Utility Additions	.6	4.5	4.5	4.5	12.2	12.6	13.1
Cumulative Utility Retirements ^o	.0	3.2	3.2	3.2	4.2	4.2	4.2
Nonutility							
Capability^p							
Coal	1.4	2.5	2.5	2.5	2.6	2.6	2.6
Natural Gas	.8	1.9	1.9	1.9	2.5	3.1	3.9
Oil	.1	.8	.8	.8	.8	.8	.8
Renewable Sources/Other ^c	1.7	3.6	3.6	3.6	4.6	4.6	4.6
Total Nonutility Capability	4.0	8.8	8.8	8.8	10.5	11.0	11.9
Cumulative Additions ⁿ	.0	4.8	4.8	4.8	6.4	7.0	7.9

- ^a Balancing item equaling net energy for load minus electricity sales.
^b Generation to meet system load, exclusive of net interregional transfers.
^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
^d Represents gross generation, net generation data are not reported.
^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
^g Includes the direct costs of fuel inputs used to generate electricity.
^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
^k Estimated emissions from utilities and independent power producers in millions of short tons.
^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
^m Includes oil-, gas-, and dual-fired steam capability.
ⁿ Cumulative additions after December 31, 1989.
^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report;" The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report;" **Projections:** AEO 1993 FORECASTING SYSTEM High Oil Price--Run HWOP93.D0920923, Reference--Run AEO93B.D0918921, Low Oil Price--Run LWOP93.D0920923.

**Table 44. Electric Power Data and Projections by World Oil Price Case
South Atlantic Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Demand (billion kilowatthours)							
Residential	231.0	257.8	258.1	259.6	288.4	289.9	291.2
Commercial/Other	161.6	201.7	201.6	202.1	234.0	234.4	234.1
Industrial	207.2	242.8	245.6	249.1	288.9	294.1	302.6
Total Sales	599.9	702.4	705.3	710.8	811.3	818.4	827.9
Nonutility Consumption of On-Site Generation	20.7	28.8	28.9	29.1	31.6	31.7	32.0
Total Electricity Demand	620.6	731.2	734.2	739.8	842.9	850.1	859.8
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	23.6	31.3	31.5	31.7	36.8	36.8	37.6
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	0	0	0	0	0	0	0
Purchases from Nonutilities	6.3	16.2	16.3	16.3	44.4	52.3	48.3
Generation by Utilities	617.2	717.4	720.5	726.2	803.7	802.8	817.2
Total Net Energy for Load	623.5	733.7	736.7	742.4	848.1	855.1	865.5
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	379.6	410.3	410.3	410.3	460.1	460.1	460.0
Natural Gas	24.4	54.3	55.8	12.2	77.7	76.5	35.1
Oil	26.6	37.2	38.9	88.2	39.4	39.7	95.6
Nuclear	148.8	181.0	181.0	181.0	191.8	191.8	191.8
Renewable Sources/Other ^c	37.8	34.6	34.5	34.4	34.8	34.8	34.7
Total Utility Generation	617.2	717.4	720.5	726.2	803.7	802.8	817.2
Nonutility Generation^d							
Coal	7.8	10.9	10.9	10.9	31.5	38.1	38.2
Natural Gas	2.6	8.0	8.1	8.2	13.1	14.5	10.7
Oil	.9	1.8	1.8	1.8	1.9	1.9	2.0
Renewable Sources/Other ^c	15.7	24.4	24.4	24.4	29.4	29.4	29.4
Total Nonutility Generation	27.0	45.1	45.2	45.3	76.0	84.1	80.3
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	7.61	7.04	7.00	6.83	7.20	7.08	6.88
Commercial/Other	7.16	6.68	6.64	6.48	6.64	6.53	6.34
Industrial	5.00	5.00	4.97	4.82	5.25	5.16	4.99
All Sectors Average	6.61	6.23	6.19	6.03	6.34	6.23	6.04
Price Components							
Capital ^f	2.93	2.15	2.14	2.11	1.74	1.70	1.65
Fuel ^g	1.51	1.89	1.87	1.73	2.44	2.38	2.24
Operation and Maintenance ^h	2.17	2.19	2.19	2.19	2.16	2.14	2.15
Total Average Electricity Price	6.61	6.23	6.19	6.03	6.34	6.23	6.04
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.67	1.78	1.80	1.78	2.06	2.11	2.08
Natural Gas	2.41	3.21	3.19	2.66	4.66	4.48	4.01
Oil	3.17	4.49	3.68	2.37	6.45	5.03	3.36
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	3,779.3	4,148.5	4,148.5	4,148.4	4,555.7	4,555.5	4,555.1
Natural Gas	276.1	561.9	581.5	169.8	783.7	756.4	447.3
Oil	272.5	378.8	395.8	883.5	402.9	405.9	938.1
Nonutility^j							
Coal	54.8	77.0	77.1	77.3	239.8	292.7	293.3
Natural Gas	16.2	50.3	50.6	51.2	86.4	96.6	68.2
Oil	6.1	11.5	11.6	11.7	12.5	12.7	12.9
Emissions (million tons) ^k							
Sulfur Dioxide	4.0	2.5	2.6	2.8	2.4	2.4	2.6
Nitrogen Oxides	1.6	1.3	1.3	1.3	1.5	1.6	1.6
Carbon Dioxide	434.4	496.3	498.5	503.3	586.1	590.9	618.5

- See footnotes at end of table.

**Table 44. Electric Power Data and Projections by World Oil Price Case
South Atlantic Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	76.8	76.9	76.9	76.9	83.1	83.1	83.1
Other Fossil Steam ^m	17.9	15.8	15.8	15.8	14.2	14.2	14.2
Combined Cycle	.8	4.0	4.0	4.0	7.1	7.4	5.2
Combustion Turbine/Diesel	10.0	15.4	15.4	15.4	15.1	15.5	20.6
Nuclear Power	26.8	29.1	29.1	29.1	30.9	30.9	30.9
Pumped Storage Hydroelectric	3.2	5.5	5.5	5.5	5.5	5.5	5.5
Renewable Sources/Other ^c	11.3	12.1	12.1	12.1	12.2	12.2	12.2
Total Utility Capability	146.8	158.8	158.8	158.8	168.1	168.8	171.7
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	1.2	3.1	3.1	3.1	3.1	3.1	3.1
Other Fossil Steam ^m	0	.0	.0	.0	.0	.0	.0
Combined Cycle	0	3.2	3.2	3.2	3.2	3.2	3.2
Combustion Turbine/Diesel	0	5.6	5.6	5.6	6.0	6.0	6.0
Nuclear Power	0	2.3	2.3	2.3	3.6	3.6	3.6
Pumped Storage Hydroelectric	0	2.2	2.2	2.2	2.2	2.2	2.2
Renewable Sources/Other ^c	0	.7	.7	.7	.8	.8	.8
Total (Announced)	1.2	17.2	17.2	17.2	19.0	19.0	19.0
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	8.3	8.3	8.3
Combined Cycle	0	0	0	0	3.1	3.3	1.1
Combustion Turbine/Diesel	0	0	0	0	.4	.9	5.9
Nuclear Power	0	0	0	0	.6	.6	.6
Renewable Sources/Other ^c	0	.0	.0	.0	.1	.1	.1
Total (Not Announced)	.0	.0	.0	.0	12.5	13.2	16.0
Total Utility Additions	1.2	17.3	17.3	17.3	31.5	32.2	35.0
Cumulative Utility Retirements ^o	.1	4.2	4.2	4.2	9.0	9.0	9.0
Nonutility							
Capability^p							
Coal	1.2	1.8	1.8	1.8	5.3	6.4	6.4
Natural Gas	.6	1.6	1.6	1.6	2.7	2.9	2.1
Oil	.0	.4	.4	.4	.5	.5	.5
Renewable Sources/Other ^c	3.2	4.8	4.8	4.8	5.4	5.4	5.4
Total Nonutility Capability	5.0	8.6	8.6	8.7	13.8	15.3	14.5
Cumulative Additions ⁿ	.0	3.6	3.6	3.7	8.8	10.3	9.5

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of net interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil Price--Run HWOP93.D0920923, Reference--Run AEO93B.D0918921, Low Oil Price--Run LWOP93.D0920923.

**Table 45. Electric Power Data and Projections by World Oil Price Case
Midwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Demand (billion kilowatthours)							
Residential	149.4	166.6	166.2	166.6	182.7	182.6	182.1
Commercial/Other	134.6	156.6	155.9	155.9	170.0	168.9	167.2
Industrial	222.7	278.7	285.0	288.8	339.5	348.7	358.0
Total Sales	506.8	601.9	607.1	611.3	692.2	700.2	707.3
Nonutility Consumption of On-Site Generation	14.9	31.3	23.3	25.1	33.0	25.1	27.1
Total Electricity Demand	521.7	633.2	630.4	636.5	725.2	725.3	734.5
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	17.0	25.1	25.9	26.1	29.3	29.8	31.6
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	-10.8	3.1	3.1	3.1	3.0	3.0	3.0
Purchases from Nonutilities	7.2	29.1	25.1	27.0	73.3	76.0	63.3
Generation by Utilities	527.4	594.9	604.8	607.4	645.3	651.0	672.7
Total Net Energy for Load	523.8	627.1	633.0	637.5	721.5	730.0	739.0
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	389.9	416.8	419.8	420.4	442.0	445.8	443.4
Natural Gas	2.6	32.1	36.7	39.0	64.4	66.3	70.6
Oil	2.6	2.9	5.1	4.9	1.5	1.5	21.3
Nuclear	127.5	136.0	136.0	136.0	129.0	129.0	129.0
Renewable Sources/Other ^c	4.8	7.1	7.1	7.1	8.3	8.3	8.3
Total Utility Generation	527.4	594.9	604.8	607.4	645.3	651.0	672.7
Nonutility Generation^d							
Coal	6.1	7.3	7.3	7.3	34.3	41.0	27.9
Natural Gas	8.7	41.2	29.3	33.0	56.5	44.6	47.0
Oil	.4	.7	.8	.8	.8	.8	.9
Renewable Sources/Other ^c	6.9	11.1	11.1	11.1	14.6	14.6	14.6
Total Nonutility Generation	22.2	60.3	48.4	52.1	106.3	101.1	90.4
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	8.68	9.46	9.56	9.49	9.54	9.54	9.51
Commercial/Other	7.52	7.38	7.47	7.41	7.13	7.16	7.15
Industrial	5.17	5.24	5.32	5.26	5.39	5.43	5.43
All Sectors Average	6.84	6.96	7.03	6.96	6.92	6.92	6.89
Price Components							
Capital ^f	2.98	2.81	2.81	2.79	2.23	2.20	2.16
Fuel ^g	1.55	1.93	2.00	1.95	2.54	2.58	2.59
Operation and Maintenance ^h	2.31	2.23	2.23	2.22	2.14	2.13	2.14
Total Average Electricity Price	6.84	6.96	7.03	6.96	6.92	6.92	6.89
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.54	1.62	1.71	1.69	1.82	1.93	1.94
Natural Gas	2.63	3.12	3.07	2.77	4.80	4.56	4.39
Oil	4.02	5.70	4.68	3.30	7.55	6.10	3.80
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	4,070.4	4,357.0	4,388.4	4,394.5	4,591.9	4,624.4	4,613.8
Natural Gas	48.4	448.5	512.1	542.1	705.7	738.4	767.9
Oil	39.1	39.0	68.6	63.9	20.8	20.4	276.0
Nonutility^j							
Coal	43.2	51.3	51.4	51.6	265.8	318.9	214.5
Natural Gas	54.7	249.2	178.2	197.4	362.4	291.6	301.4
Oil	2.5	4.9	4.9	5.0	5.5	5.5	5.7
Emissions (million tons) ^k							
Sulfur Dioxide	5.5	2.5	2.4	2.5	2.3	2.2	2.4
Nitrogen Oxides	1.9	1.6	1.6	1.6	1.8	1.8	1.9
Carbon Dioxide	438.1	492.9	501.8	503.5	560.2	570.3	582.1

- See footnotes at end of table.

**Table 45. Electric Power Data and Projections by World Oil Price Case
Midwest Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	82.8	78.9	78.9	78.9	79.5	80.0	78.9
Other Fossil Steam ^m	7.1	5.7	5.7	5.7	5.0	5.0	5.0
Combined Cycle	.1	.2	.2	.2	7.6	7.2	7.2
Combustion Turbine/Diesel	7.1	13.8	14.2	15.0	18.1	19.2	24.2
Nuclear Power	21.6	21.6	21.6	21.6	20.8	20.8	20.8
Pumped Storage Hydroelectric	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Renewable Sources/Other ^c	1.6	1.8	1.8	1.8	2.1	2.1	2.1
Total Utility Capability	122.4	124.0	124.4	125.2	134.9	136.2	140.1
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	1.3	1.8	1.8	1.8	2.0	2.0	2.0
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	.0	.0	.0	.1	.1	.1
Combustion Turbine/Diesel	0	5.9	5.9	5.9	6.0	6.0	6.0
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.1	.1	.1	.1	.1	.1	.1
Total (Announced)	1.4	7.9	7.9	7.9	8.2	8.2	8.2
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	2.2	2.8	1.7
Combined Cycle	0	.0	.0	.0	7.3	6.9	6.9
Combustion Turbine/Diesel	0	.8	1.2	2.0	5.0	6.1	11.1
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.1	.1	.1	.5	.5	.5
Total (Not Announced)	.0	.9	1.3	2.1	15.0	16.2	20.1
Total Utility Additions	1.4	8.8	9.2	10.0	23.2	24.4	28.3
Cumulative Utility Retirements ^o	.3	6.1	6.1	6.1	9.5	9.5	9.5
Nonutility							
Capability^p							
Coal	1.9	2.2	2.2	2.2	6.7	7.9	5.7
Natural Gas	2.4	8.2	6.1	6.7	11.3	9.2	9.6
Oil	.1	.2	.2	.2	.3	.3	.3
Renewable Sources/Other ^c	1.2	1.8	1.8	1.8	2.2	2.2	2.2
Total Nonutility Capability	5.6	12.4	10.3	10.9	20.6	19.6	17.7
Cumulative Additions ⁿ	.0	6.8	4.7	5.3	15.0	14.0	12.1

- ^a Balancing item equaling net energy for load minus electricity sales.
^b Generation to meet system load, exclusive of net interregional transfers.
^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
^d Represents gross generation, net generation data are not reported.
^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
^g Includes the direct costs of fuel inputs used to generate electricity.
^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
^k Estimated emissions from utilities and independent power producers in millions of short tons.
^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
^m Includes oil-, gas-, and dual-fired steam capability.
ⁿ Cumulative additions after December 31, 1989.
^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report;" The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil Price--Run HWOP93.D0920923, Reference--Run AEO93B.D0918921, Low Oil Price--Run LWOP93.D0920923.

Table 46. Electric Power Data and Projections by World Oil Price Case Southwest Region

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Demand (billion kilowatthours)							
Residential	135.2	147.8	148.0	148.8	162.1	162.9	163.7
Commercial/Other	113.5	132.1	132.0	132.4	148.4	148.6	148.5
Industrial	136.3	178.6	180.6	183.3	215.2	219.2	225.5
Total Sales	384.9	458.5	460.7	464.4	525.7	530.7	537.6
Nonutility Consumption of On-Site Generation	44.3	47.8	47.8	47.9	48.4	48.5	48.6
Total Electricity Demand	429.2	506.3	508.5	512.3	574.1	579.2	586.2
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	42.8	44.5	44.7	45.0	47.2	46.8	46.7
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	0	-1.0	-1.0	-1.0	-1.9	-1.9	-1.9
Purchases from Nonutilities	24.9	28.1	28.1	28.1	59.7	70.3	78.2
Generation by Utilities	402.8	476.0	478.3	482.3	515.0	509.1	508.0
Total Net Energy for Load	427.8	503.1	505.3	509.4	572.9	577.6	584.3
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	206.3	227.9	227.9	227.9	258.8	265.5	275.4
Natural Gas	145.7	182.2	184.4	180.1	189.9	177.3	154.2
Oil	.8	3.4	3.4	11.8	3.0	3.0	15.0
Nuclear	41.3	52.5	52.5	52.5	52.8	52.8	52.8
Renewable Sources/Other ^c	8.7	10.0	10.0	10.0	10.5	10.6	10.6
Total Utility Generation	402.8	476.0	478.3	482.3	515.0	509.1	508.0
Nonutility Generation^d							
Coal	4.6	5.0	5.0	5.0	28.5	41.8	55.0
Natural Gas	51.5	57.0	57.0	57.1	65.3	62.6	57.4
Oil	.1	.2	.2	.2	.3	.3	.3
Renewable Sources/Other ^c	13.0	13.6	13.6	13.6	14.1	14.1	14.1
Total Nonutility Generation	69.2	75.8	75.9	76.0	108.2	118.8	126.8
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	7.86	8.60	8.67	8.53	9.26	9.15	9.03
Commercial/Other	6.96	7.25	7.32	7.19	7.56	7.47	7.41
Industrial	4.63	4.92	4.99	4.87	5.53	5.46	5.41
All Sectors Average	6.41	6.78	6.84	6.71	7.25	7.15	7.06
Price Components							
Capital ^f	2.50	2.59	2.58	2.57	2.32	2.29	2.25
Fuel ^g	2.13	2.38	2.45	2.34	3.13	3.09	3.05
Operation and Maintenance ^h	1.77	1.81	1.80	1.80	1.80	1.78	1.76
Total Average Electricity Price	6.41	6.78	6.84	6.71	7.25	7.15	7.06
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.52	1.54	1.69	1.71	1.87	1.97	2.14
Natural Gas	2.18	2.99	2.98	2.68	4.41	4.17	3.83
Oil	4.87	4.64	4.07	3.52	6.24	5.14	4.32
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	2,211.1	2,359.6	2,359.6	2,359.6	2,648.0	2,701.7	2,803.4
Natural Gas	1,558.9	1,911.2	1,934.8	1,903.9	1,909.7	1,810.4	1,615.6
Oil	8.9	37.1	37.6	106.1	33.0	32.4	129.9
Nonutility^j							
Coal	32.5	35.1	35.2	35.2	221.7	327.0	460.5
Natural Gas	322.3	356.7	356.8	357.5	416.7	397.2	358.8
Oil	.5	1.3	1.4	1.5	1.9	1.9	2.0
Emissions (million tons) ^k							
Sulfur Dioxide	1.0	.7	.7	.7	.7	.7	.8
Nitrogen Oxides	1.1	1.0	1.0	1.0	1.1	1.2	1.2
Carbon Dioxide	363.0	406.4	408.1	413.5	468.6	479.0	499.9

- See footnotes at end of table.

**Table 46. Electric Power Data and Projections by World Oil Price Case
Southwest Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	34.4	37.6	37.6	37.6	42.3	43.4	45.0
Other Fossil Steam ^m	55.9	54.1	54.1	54.1	49.4	49.4	49.4
Combined Cycle	1.7	3.5	3.5	3.5	8.2	6.2	4.8
Combustion Turbine/Diesel	3.5	4.8	4.8	4.8	5.5	5.8	6.1
Nuclear Power	7.4	8.5	8.5	8.5	8.5	8.5	8.5
Pumped Storage Hydroelectric	.3	.3	.3	.3	.3	.3	.3
Renewable Sources/Other ^c	3.0	4.0	4.0	4.0	4.2	4.2	4.2
Total Utility Capability	106.2	112.7	112.7	112.7	118.3	117.8	118.3
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	3.2	3.2	3.2	5.6	5.6	5.6
Other Fossil Steam ^m	0	.6	.6	.6	.7	.7	.7
Combined Cycle	0	1.8	1.8	1.8	2.3	2.3	2.3
Combustion Turbine/Diesel	0	1.3	1.3	1.3	1.7	1.7	1.7
Nuclear Power	1.1	2.3	2.3	2.3	2.3	2.3	2.3
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.1	1.2	1.2	1.2	1.3	1.3	1.3
Total (Announced)	1.3	10.3	10.3	10.3	13.9	13.9	13.9
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	2.2	3.3	5.0
Combined Cycle	0	0	0	0	4.2	2.2	.8
Combustion Turbine/Diesel	0	0	0	0	.4	.8	1.1
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	0	0	0	0	0	0
Total (Not Announced)	.0	.0	.0	.0	6.8	6.3	6.9
Total Utility Additions	1.3	10.3	10.3	10.3	20.8	20.3	20.8
Cumulative Utility Retirements ^o	.1	2.5	2.5	2.5	7.4	7.4	7.4
Nonutility							
Capability^p							
Coal	1.1	1.2	1.2	1.2	5.1	7.4	9.6
Natural Gas	9.2	10.2	10.2	10.2	11.9	11.4	10.3
Oil	0	.1	.1	.1	.1	.1	.1
Renewable Sources/Other ^c	1.5	1.7	1.7	1.7	1.7	1.7	1.7
Total Nonutility Capability	11.8	13.1	13.1	13.1	18.8	20.5	21.6
Cumulative Additions ⁿ	.0	1.3	1.3	1.4	7.1	8.7	9.9

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of net interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil Price--Run HWOP93.D0920923, Reference--Run AEO93B.D0918921, Low Oil Price--Run LWOP93.D0920923.

**Table 47. Electric Power Data and Projections by World Oil Price Case
Central Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Demand (billion kilowatthours)							
Residential	48.5	54.1	54.0	54.2	58.9	58.9	58.7
Commercial/Other	42.9	49.4	49.2	49.2	53.6	53.2	52.7
Industrial	37.0	52.1	53.3	54.0	63.0	64.7	66.4
Total Sales	128.4	155.7	156.5	157.4	175.4	176.8	177.8
Nonutility Consumption of On-Site							
Generation	1.3	2.9	2.9	2.9	3.3	3.3	3.3
Total Electricity Demand	129.6	158.6	159.4	160.3	178.7	180.1	181.1
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a ..							
	15.2	15.7	15.8	16.0	17.3	17.4	17.5
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	0	0	0	0	0	0	0
Purchases from Nonutilities	.0	1.6	1.6	1.6	4.3	4.3	4.3
Generation by Utilities	143.6	169.8	170.6	171.7	188.4	189.8	191.0
Total Net Energy for Load	143.6	171.4	172.3	173.3	192.7	194.2	195.3
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	109.8	124.8	125.2	125.6	141.7	144.1	142.6
Natural Gas	3.0	16.0	16.5	14.7	17.8	16.1	17.7
Oil	.2	.6	.6	3.1	.4	1.1	2.1
Nuclear	26.4	25.1	25.1	25.1	25.0	25.0	25.0
Renewable Sources/Other ^c	4.2	3.3	3.3	3.3	3.6	3.6	3.6
Total Utility Generation	143.6	169.8	170.6	171.7	188.4	189.8	191.0
Nonutility Generation^d							
Coal	1.0	2.7	2.7	2.7	2.8	2.8	2.8
Natural Gas	.3	.6	.6	.7	3.5	3.5	3.5
Oil	0	.0	.0	.0	.1	.1	.1
Renewable Sources/Other ^c	.0	1.2	1.2	1.2	1.2	1.2	1.2
Total Nonutility Generation	1.3	4.6	4.6	4.6	7.6	7.7	7.7
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	7.85	8.52	8.62	8.51	9.67	9.72	9.46
Commercial/Other	7.10	6.82	6.92	6.86	7.16	7.22	7.04
Industrial	4.83	4.82	4.92	4.86	5.15	5.19	5.11
All Sectors Average	6.68	6.74	6.83	6.74	7.28	7.31	7.12
Price Components							
Capital ^f	3.07	2.82	2.81	2.78	2.95	2.93	2.81
Fuel ^g	1.36	1.75	1.85	1.79	2.11	2.16	2.10
Operation and Maintenance ^h	2.26	2.18	2.17	2.17	2.22	2.22	2.21
Total Average Electricity Price	6.68	6.74	6.83	6.74	7.28	7.31	7.12
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.25	1.38	1.50	1.49	1.57	1.65	1.64
Natural Gas	1.95	2.99	2.98	2.69	4.42	4.20	4.02
Oil	5.11	6.12	5.14	2.97	7.95	5.45	3.89
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	1,184.2	1,336.7	1,340.4	1,344.3	1,490.9	1,509.8	1,500.7
Natural Gas	38.0	214.3	221.2	193.3	220.5	200.0	219.7
Oil	3.0	7.6	7.7	35.9	4.8	14.2	23.8
Nonutility^j							
Coal	6.9	18.7	18.8	18.8	19.8	19.9	20.0
Natural Gas	1.8	4.0	4.1	4.1	24.7	24.8	24.9
Oil	0	.2	.3	.3	.4	.4	.4
Emissions (million tons) ^k							
Sulfur Dioxide	1.4	.8	.8	.8	.6	.7	.5
Nitrogen Oxides	.5	.5	.6	.6	.6	.6	.6
Carbon Dioxide	129.5	156.4	157.2	158.4	174.2	175.8	176.9

- See footnotes at end of table.

**Table 47. Electric Power Data and Projections by World Oil Price Case
Central Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	24.8	24.4	24.4	24.4	26.3	26.8	26.3
Other Fossil Steam ^m	2.5	1.8	1.8	1.8	1.0	1.0	1.0
Combined Cycle	.2	.3	.3	.3	1.2	.9	1.2
Combustion Turbine/Diesel	5.4	10.4	10.5	10.8	13.3	13.4	14.0
Nuclear Power	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Pumped Storage Hydroelectric	.6	.6	.6	.6	.6	.6	.6
Renewable Sources/Other ^c	.9	.9	.9	.9	1.0	1.0	1.0
Total Utility Capability	38.3	42.5	42.6	42.9	47.3	47.6	48.0
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	.4	.4	.4	1.5	1.5	1.5
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	.1	.1	.1	.1	.1	.1
Combustion Turbine/Diesel	.2	1.8	1.8	1.8	1.9	1.9	1.9
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.0	.0	.0	.0	.1	.1	.1
Total (Announced)	.2	2.3	2.3	2.3	3.7	3.7	3.7
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	1.7	2.2	1.7
Combined Cycle	0	0	0	0	.8	.6	.8
Combustion Turbine/Diesel	0	3.3	3.5	3.8	6.3	6.4	7.0
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.0	.0	.0	.1	.1	.1
Total (Not Announced)	.0	3.4	3.5	3.8	8.9	9.2	8.6
Total Utility Additions	.2	5.7	5.9	6.2	12.6	12.9	13.3
Cumulative Utility Retirements ^o	.0	1.4	1.4	1.4	3.4	3.4	3.4
Nonutility							
Capability^p							
Coal	.3	.6	.6	.6	.7	.7	.7
Natural Gas	.0	.1	.1	.1	.7	.7	.7
Oil	0	.0	.0	.0	.0	.0	.0
Renewable Sources/Other ^c	0	.3	.3	.3	.3	.3	.3
Total Nonutility Capability	.3	1.1	1.1	1.1	1.7	1.7	1.7
Cumulative Additions ⁿ	.0	.7	.7	.7	1.4	1.4	1.4

- ^a Balancing item equaling net energy for load minus electricity sales.
- ^b Generation to meet system load, exclusive of net interregional transfers.
- ^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
- ^d Represents gross generation, net generation data are not reported.
- ^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
- ^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
- ^g Includes the direct costs of fuel inputs used to generate electricity.
- ^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
- ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
- ^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
- ^k Estimated emissions from utilities and independent power producers in millions of short tons.
- ^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
- ^m Includes oil-, gas-, and dual-fired steam capability.
- ⁿ Cumulative additions after December 31, 1989.
- ^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
- ^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil Price--Run HWOP93.D0920923, Reference--Run AEO93B.D0918921, Low Oil Price--Run LWOP93.D0920923.

**Table 48. Electric Power Data and Projections by World Oil Price Case
North Central Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Demand (billion kilowatthours)							
Residential	24.9	29.5	29.5	29.7	33.7	33.8	33.9
Commercial/Other	29.5	35.1	35.0	35.1	39.8	39.8	39.8
Industrial	30.0	36.8	37.4	37.9	43.7	45.2	46.5
Total Sales	84.4	101.5	102.0	102.7	117.3	118.7	120.2
Nonutility Consumption of On-Site Generation	.9	3.9	3.9	3.9	4.1	4.1	4.1
Total Electricity Demand	85.3	105.3	105.9	106.6	121.4	122.9	124.3
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	79.4	78.2	78.1	77.9	82.1	82.2	82.4
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	.7	1.3	1.3	1.3	4.1	4.1	4.1
Purchases from Nonutilities	1.2	5.1	5.1	5.1	5.2	5.2	5.5.2
Generation by Utilities	161.9	173.2	173.6	174.2	190.1	191.7	193.2
Total Net Energy for Load	163.8	179.7	180.1	180.6	199.4	201.0	202.5
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	142.3	145.3	145.6	145.8	146.0	146.1	146.1
Natural Gas	.5	1.5	1.7	1.9	17.5	18.4	20.6
Oil	.2	1.6	1.6	1.7	2.3	2.7	2.4
Nuclear	0	0	0	0	0	0	0
Renewable Sources/Other ^c	19.0	24.8	24.8	24.7	24.3	24.5	24.2
Total Utility Generation	161.9	173.2	173.6	174.2	190.1	191.7	193.2
Nonutility Generation^d							
Coal	.2	1.0	1.0	1.0	1.0	1.0	1.1
Natural Gas	1.1	3.9	3.9	3.9	4.0	4.0	4.1
Oil	.0	.1	.1	.1	.1	.1	.1
Renewable Sources/Other ^c	.7	4.1	4.1	4.1	4.1	4.1	4.1
Total Nonutility Generation	2.1	9.0	9.0	9.1	9.3	9.3	9.3
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	8.13	8.44	8.47	8.31	9.02	8.92	8.83
Commercial/Other	7.20	6.57	6.59	6.51	6.53	6.47	6.45
Industrial	4.76	4.42	4.45	4.39	4.74	4.71	4.70
All Sectors Average	6.58	6.33	6.35	6.25	6.58	6.49	6.44
Price Components							
Capital ^f	3.33	3.16	3.14	3.12	2.76	2.71	2.66
Fuel ^g	.50	.63	.67	.60	1.29	1.28	1.29
Operation and Maintenance ^h	2.74	2.54	2.54	2.53	2.53	2.51	2.50
Total Average Electricity Price	6.58	6.33	6.35	6.25	6.58	6.49	6.44
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	.94	.88	.95	.93	1.00	1.05	1.08
Natural Gas	3.72	3.39	3.32	3.03	4.82	4.74	4.51
Oil	5.46	6.18	5.23	3.63	7.93	6.49	4.48
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	1,518.8	1,569.5	1,572.0	1,574.7	1,576.5	1,576.5	1,576.6
Natural Gas	7.3	20.9	23.1	26.5	180.1	177.2	205.2
Oil	2.2	22.6	23.5	25.0	33.6	38.3	34.8
Nonutility^j							
Coal	1.7	6.8	6.8	6.8	7.3	7.4	7.4
Natural Gas	7.1	24.5	24.5	24.6	25.2	25.2	25.4
Oil	.2	.4	.4	.4	.5	.5	.5
Emissions (million tons) ^k							
Sulfur Dioxide	.6	.4	.4	.3	.2	.2	.2
Nitrogen Oxides	.5	.5	.5	.5	.5	.5	.5
Carbon Dioxide	163.8	171.5	172.0	172.6	182.8	183.0	184.4

- See footnotes at end of table.

**Table 48. Electric Power Data and Projections by World Oil Price Case
North Central Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	21.3	22.3	22.3	22.3	22.0	22.0	22.0
Other Fossil Steam ^m	.6	.2	.2	.2	.1	.1	.1
Combined Cycle	0	0	0	0	1.7	2.2	2.2
Combustion Turbine/Diesel	.9	1.0	1.0	1.0	2.0	1.6	2.0
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	.5	.6	.6	.6	.6	.6	.6
Renewable Sources/Other ^e	6.0	6.4	6.4	6.4	6.4	6.4	6.4
Total Utility Capability	29.3	30.5	30.5	30.5	32.7	32.9	33.3
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	1.4	1.4	1.4	1.4	1.4	1.4
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	.0	.1	.1	.1	.1	.1	.1
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	.1	.1	.1	.1	.1	.1
Renewable Sources/Other ^e	0	.4	.4	.4	.4	.4	.4
Total (Announced)	.0	2.0	2.0	2.0	2.0	2.0	2.0
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	1.7	2.2	2.2
Combustion Turbine/Diesel	0	0	0	0	.9	.6	.9
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^e	0	.0	.0	.0	.1	.0	.0
Total (Not Announced)	.0	.0	.0	.0	2.7	2.9	3.2
Total Utility Additions	.0	2.0	2.0	2.0	4.6	4.9	5.2
Cumulative Utility Retirements ^o	.0	.8	.8	.8	1.3	1.3	1.3
Nonutility							
Capability^p							
Coal	.0	.2	.2	.2	.2	.2	.2
Natural Gas	.3	.8	.8	.8	.8	.8	.8
Oil	0	.0	.0	.0	.0	.0	.0
Renewable Sources/Other ^e	.2	.9	.9	.9	.9	.9	.9
Total Nonutility Capability	.5	2.0	2.0	2.0	2.0	2.0	2.0
Cumulative Additions ⁿ	.0	1.5	1.5	1.5	1.5	1.5	1.5

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of net interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil Price--Run HWOP93.D0920923, Reference--Run AEO93B.D0918921, Low Oil Price--Run LWOP93.D0920923.

**Table 49. Electric Power Data and Projections by World Oil Price Case
West Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Demand (billion kilowatthours)							
Residential	89.8	108.6	108.7	109.3	128.3	128.5	129.3
Commercial/Other	111.5	139.8	139.7	140.3	173.7	172.8	174.4
Industrial	75.9	96.6	98.0	99.2	118.3	122.4	126.1
Total Sales	277.2	345.0	346.4	348.8	420.3	423.7	429.7
Nonutility Consumption of On-Site Generation	10.2	15.1	15.2	15.3	16.4	16.5	16.6
Total Electricity Demand	287.4	360.2	361.5	364.1	436.7	440.2	446.3
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	-28.0	-21.3	-20.6	-19.9	-18.4	-17.8	-17.4
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	4.7	5.3	5.3	5.3	6.7	6.7	6.7
Purchases from Nonutilities	40.4	66.9	63.6	60.3	96.4	98.3	103.6
Generation by Utilities	204.1	251.5	256.8	263.3	298.9	300.9	302.0
Total Net Energy for Load	249.2	323.8	325.7	328.9	401.9	405.9	412.4
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	46.7	50.3	50.3	50.3	67.6	70.8	74.1
Natural Gas	49.7	63.1	68.2	72.3	76.0	77.1	76.0
Oil	12.8	13.0	14.9	19.2	15.2	17.3	20.5
Nuclear	53.3	49.8	49.8	49.8	49.9	49.9	49.9
Renewable Sources/Other ^c	41.7	75.4	73.6	71.7	90.1	85.8	81.5
Total Utility Generation	204.1	251.5	256.8	263.3	298.9	300.9	302.0
Nonutility Generation^d							
Coal	2.2	2.5	2.5	2.5	2.8	12.8	26.1
Natural Gas	26.8	35.0	35.0	35.1	35.4	35.5	35.5
Oil	.6	.8	.8	.8	.9	.9	.9
Renewable Sources/Other ^c	21.0	43.9	40.5	37.2	73.6	65.7	57.7
Total Nonutility Generation	50.6	82.1	78.8	75.5	112.8	114.8	120.2
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	7.41	7.21	7.20	7.03	7.21	7.13	6.87
Commercial/Other	7.48	7.17	7.16	7.00	6.89	6.83	6.58
Industrial	6.36	6.30	6.29	6.14	6.38	6.30	6.06
All Sectors Average	7.13	6.94	6.93	6.76	6.84	6.77	6.52
Price Components							
Capital ^f	2.50	1.94	1.93	1.92	1.26	1.31	1.33
Fuel ^g	2.54	3.05	3.03	2.86	3.77	3.64	3.37
Operation and Maintenance ^h	2.09	1.94	1.97	1.99	1.81	1.82	1.82
Total Average Electricity Price	7.13	6.94	6.93	6.76	6.84	6.77	6.52
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.50	1.57	1.70	1.68	1.75	1.88	1.92
Natural Gas	3.07	3.69	3.66	3.37	5.03	4.81	4.24
Oil	4.40	5.42	4.69	3.45	7.15	5.86	4.29
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	491.5	527.0	527.0	527.0	703.8	729.9	757.0
Natural Gas	521.6	658.8	712.7	756.8	800.3	809.1	779.8
Oil	136.6	132.7	152.6	193.5	155.9	177.3	204.9
Nonutility^j							
Coal	15.4	17.4	17.5	17.5	19.9	99.0	211.4
Natural Gas	167.9	218.9	219.1	219.4	221.7	221.9	222.4
Oil	4.1	5.0	5.1	5.2	5.7	5.8	5.9
Emissions (million tons) ^k							
Sulfur Dioxide	.2	.1	.2	.1	.2	.2	.2
Nitrogen Oxides	.4	.4	.5	.5	.5	.6	.6
Carbon Dioxide	129.0	149.0	154.3	161.2	187.4	201.2	217.1

- See footnotes at end of table.

**Table 49. Electric Power Data and Projections by World Oil Price Case
West Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	7.3	7.7	7.7	7.7	10.6	11.1	11.7
Other Fossil Steam ^m	24.6	22.9	22.9	22.9	21.6	21.6	21.6
Combined Cycle	1.4	1.7	1.7	1.7	2.1	2.1	3.2
Combustion Turbine/Diesel	3.8	4.7	4.7	4.7	5.2	5.2	5.6
Nuclear Power	8.6	8.1	8.1	8.1	8.1	8.1	8.1
Pumped Storage Hydroelectric	3.7	3.8	3.8	3.8	3.8	3.8	3.8
Renewable Sources/Other ^c	14.8	17.0	16.7	16.5	18.9	18.4	17.8
Total Utility Capability	64.2	66.0	65.8	65.5	70.4	70.3	71.9
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	.4	.8	.8	.8	3.7	3.7	3.7
Other Fossil Steam ^m	0	.1	.1	.1	.2	.2	.2
Combined Cycle	0	.3	.3	.3	.7	.7	.7
Combustion Turbine/Diesel	.0	1.1	1.1	1.1	1.5	1.5	1.5
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	.2	.2	.2	.2	.2	.2
Renewable Sources/Other ^c	0	.6	.6	.6	.6	.6	.6
Total (Announced)	.4	3.0	3.0	3.0	6.8	6.8	6.8
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	0	.6	1.1
Combined Cycle	0	0	0	0	0	0	1.1
Combustion Turbine/Diesel	0	0	0	0	0	0	.4
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	1.6	1.3	1.1	3.6	3.0	2.4
Total (Not Announced)	.0	1.6	1.3	1.1	3.6	3.5	5.1
Total Utility Additions	.4	4.7	4.4	4.1	10.3	10.3	11.8
Cumulative Utility Retirements ^o	1.0	3.4	3.4	3.4	4.7	4.7	4.7
Nonutility							
Capability^p							
Coal	.5	.6	.6	.6	.7	2.3	4.6
Natural Gas	4.2	5.8	5.8	5.8	5.9	5.9	5.9
Oil	.1	.1	.1	.2	.2	.2	.2
Renewable Sources/Other ^c	4.8	9.9	9.1	8.3	16.0	14.3	12.6
Total Nonutility Capability	9.7	16.4	15.6	14.9	22.7	22.7	23.2
Cumulative Additions ⁿ	.0	6.7	6.0	5.2	13.1	13.0	13.5

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of net interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil Price--Run HWOP93.D0920923, Reference--Run AEO93B.D0918921, Low Oil Price--Run LWOP93.D0920923.

**Table 50. Electric Power Data and Projections by World Oil Price Case
Northwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Demand (billion kilowatthours)							
Residential	51.5	61.1	61.1	61.5	69.8	69.9	70.3
Commercial/Other	41.0	51.4	51.4	51.5	57.2	57.1	57.2
Industrial	63.8	66.9	67.9	68.7	80.5	83.3	85.8
Total Sales	156.3	179.4	180.3	181.7	207.5	210.3	213.3
Nonutility Consumption of On-Site Generation	2.7	4.7	3.9	6.4	11.6	4.4	6.9
Total Electricity Demand	159.0	184.0	184.2	188.1	219.1	214.7	220.2
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	9.1	-9	-8	-8	2.0	2.7	2.7
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	1.2	5.6	5.6	5.6	7.9	7.9	7.9
Purchases from Nonutilities	1.4	6.7	5.8	8.4	9.0	7.2	9.7
Generation by Utilities	162.8	166.1	168.1	166.9	192.6	197.8	198.4
Total Net Energy for Load	165.3	178.4	179.6	180.9	209.5	213.0	216.0
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	9.0	10.5	10.6	10.5	25.6	32.1	32.3
Natural Gas	3.7	9.3	9.6	11.0	12.7	10.2	11.4
Oil	.4	3.7	4.8	2.6	3.4	4.5	3.7
Nuclear	11.8	6.6	6.9	6.8	14.8	14.8	14.8
Renewable Sources/Other ^c	137.9	136.1	136.1	136.1	136.2	136.2	136.2
Total Utility Generation	162.8	166.1	168.1	166.9	192.6	197.8	198.4
Nonutility Generation^d							
Coal	.2	.4	.4	.4	.5	.5	.6
Natural Gas	.7	6.5	4.9	10.0	13.9	5.1	10.2
Oil	.1	.2	.2	.2	.2	.2	.2
Renewable Sources/Other ^c	3.0	4.3	4.3	4.2	6.0	5.8	5.7
Total Nonutility Generation	4.1	11.4	9.7	14.8	20.6	11.6	16.6
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	4.94	6.36	6.40	6.28	6.59	6.62	6.52
Commercial/Other	4.79	5.43	5.48	5.38	5.64	5.71	5.63
Industrial	3.08	3.60	3.64	3.54	3.89	3.92	3.87
All Sectors Average	4.20	5.06	5.10	4.99	5.28	5.30	5.21
Price Components							
Capital ^f	2.12	2.44	2.45	2.45	2.29	2.33	2.28
Fuel ^g	.32	.95	.98	.90	1.23	1.19	1.17
Operation and Maintenance ^h	1.76	1.67	1.67	1.65	1.76	1.78	1.76
Total Average Electricity Price	4.20	5.06	5.10	4.99	5.28	5.30	5.21
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.55	1.23	1.43	1.41	1.43	1.61	1.64
Natural Gas	1.48	2.59	2.60	2.50	4.15	3.80	3.79
Oil	4.71	5.80	5.10	3.74	7.59	6.32	4.55
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	99.5	115.9	117.1	115.9	265.7	321.2	322.7
Natural Gas	43.4	112.3	115.3	126.1	133.7	117.2	125.9
Oil	4.4	47.6	63.0	33.8	44.5	58.3	48.8
Nonutility^j							
Coal	1.6	2.5	2.6	2.7	3.6	3.8	4.0
Natural Gas	4.4	38.7	29.4	63.3	83.9	30.6	64.6
Oil	1.0	1.2	1.3	1.3	1.4	1.5	1.5
Emissions (million tons) ^k							
Sulfur Dioxide	.1	.1	.1	.0	.1	.1	.1
Nitrogen Oxides	.1	.1	.1	.1	.2	.2	.2
Carbon Dioxide	22.5	30.4	32.0	29.4	49.4	56.8	56.3

- See footnotes at end of table.

**Table 50. Electric Power Data and Projections by World Oil Price Case
Northwest Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	1.9	2.4	2.4	2.4	5.1	6.3	6.3
Other Fossil Steam ^m	.1	0	0	0	0	0	0
Combined Cycle	.6	.8	.9	1.2	1.8	1.1	1.5
Combustion Turbine/Diesel	1.8	1.9	2.2	1.8	2.4	2.7	2.5
Nuclear Power	2.2	1.1	1.1	1.1	2.3	2.3	2.3
Pumped Storage Hydroelectric	.3	.3	.3	.3	.3	.3	.3
Renewable Sources/Other ^e	32.4	32.7	32.7	32.7	32.7	32.7	32.7
Total Utility Capability	39.3	39.2	39.6	39.5	44.7	45.6	45.7
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	0	0	0	0	0	0
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	.0	.0	.0	.0	.0	.0	.0
Nuclear Power	0	0	0	0	1.2	1.2	1.2
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^e	.0	.3	.3	.3	.3	.3	.3
Total (Announced)	.0	.3	.3	.3	1.5	1.5	1.5
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	.6	.6	.6	3.2	4.4	4.4
Combined Cycle	0	.2	.3	.6	1.2	.6	.9
Combustion Turbine/Diesel	0	.2	.4	0	.7	.9	.8
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^e	0	.0	.0	.0	.0	.0	.0
Total (Not Announced)	.0	.9	1.2	1.2	5.2	6.0	6.2
Total Utility Additions	.0	1.2	1.5	1.5	6.7	7.5	7.7
Cumulative Utility Retirements ^o	.0	1.3	1.3	1.3	1.3	1.3	1.3
Nonutility							
Capability^p							
Coal	.1	.1	.1	.1	.1	.1	.1
Natural Gas	.2	1.1	.9	1.8	2.4	.9	1.8
Oil	.0	.0	.1	.1	.1	.1	.1
Renewable Sources/Other ^e	.8	1.1	1.1	1.1	1.6	1.5	1.5
Total Nonutility Capability	1.0	2.4	2.1	3.0	4.1	2.6	3.5
Cumulative Additions ⁿ	.0	1.4	1.1	2.0	3.1	1.6	2.4

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of net interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil Price--Run HWOP93.D0920923, Reference--Run AEO93B.D0918921, Low Oil Price--Run LWOP93.D0920923.

**Table 51. Electric Power Data and Projections by World Oil Price Case
United States**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Demand (billion kilowatthours)							
Residential	924.0	1,046.6	1,047.4	1,053.2	1,171.2	1,176.2	1,180.8
Commercial/Other	843.0	1,004.4	1,003.0	1,005.4	1,146.2	1,143.9	1,141.7
Industrial	945.5	1,145.5	1,163.4	1,180.7	1,376.1	1,410.0	1,452.4
Total Sales	2,712.6	3,196.5	3,213.8	3,239.2	3,693.5	3,730.1	3,775.0
Nonutility Consumption of On-Site Generation	111.3	179.1	170.6	175.5	196.5	181.9	187.2
Total Electricity Demand	2,823.8	3,375.6	3,384.4	3,414.7	3,890.1	3,912.0	3,962.1
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	204.0	223.7	225.8	227.7	252.7	254.6	259.0
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	2.2	38.6	38.6	38.6	54.0	54.0	54.0
Purchases from Nonutilities	106.2	223.4	215.1	216.1	381.1	408.4	407.9
Generation by Utilities	2,808.2	3,158.2	3,185.9	3,212.1	3,511.2	3,522.4	3,572.1
Total Net Energy for Load	2,916.6	3,420.2	3,439.6	3,466.9	3,946.2	3,984.7	4,034.0
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	1,559.6	1,669.2	1,673.4	1,675.4	1,847.7	1,867.9	1,862.9
Natural Gas	264.1	403.1	418.1	364.7	527.0	517.1	417.8
Oil	117.0	127.5	137.4	217.3	156.1	160.9	319.6
Nuclear	576.9	632.3	632.7	632.5	636.1	636.1	636.1
Renewable Sources/Other ^c	290.6	326.1	324.2	322.2	344.3	340.3	335.7
Total Utility Generation	2,808.2	3,158.2	3,185.9	3,212.1	3,511.2	3,522.4	3,572.1
Nonutility Generation^d							
Coal	32.6	52.0	52.1	52.2	124.3	164.2	174.5
Natural Gas	99.6	194.2	180.8	189.9	237.0	217.8	220.3
Oil	5.4	11.3	11.4	11.5	11.9	12.0	12.1
Renewable Sources/Other ^e	79.9	145.0	141.5	138.0	204.4	196.2	188.0
Total Nonutility Generation	217.5	402.5	385.7	391.6	577.6	590.2	595.0
Electricity Price (1991 cents per kilowatthour)^f							
End-Use Sectors							
Residential	7.96	8.25	8.25	8.07	8.48	8.36	8.14
Commercial/Other	7.52	7.43	7.43	7.26	7.34	7.22	7.01
Industrial	5.03	5.17	5.19	5.07	5.45	5.39	5.27
All Sectors Average	6.80	6.89	6.89	6.72	7.00	6.89	6.69
Price Components							
Capital ^g	2.88	2.60	2.58	2.56	2.08	2.05	1.99
Fuel ^h	1.70	2.12	2.13	1.99	2.79	2.72	2.59
Operation and Maintenance ^h	2.23	2.17	2.17	2.17	2.13	2.12	2.11
Total Average Electricity Price	6.80	6.89	6.89	6.72	7.00	6.89	6.69
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.51	1.57	1.64	1.63	1.81	1.89	1.91
Natural Gas	2.41	3.19	3.18	2.84	4.67	4.47	4.13
Oil	3.50	4.84	4.05	2.66	6.76	5.36	3.65
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	16,096.0	17,308.9	17,353.5	17,373.8	18,927.5	19,088.0	19,083.5
Natural Gas	2,881.0	4,388.4	4,567.1	4,067.2	5,462.4	5,357.7	4,491.7
Oil	1,255.0	1,357.1	1,469.7	2,243.8	1,660.0	1,715.3	3,321.6
Nonutility^j							
Coal	230.1	367.5	368.1	368.9	939.1	1,256.4	1,373.1
Natural Gas	623.0	1,204.2	1,124.8	1,180.2	1,506.3	1,393.1	1,400.6
Oil	35.6	73.9	74.3	75.2	78.0	78.5	79.4
Emissions (million tons) ^k							
Sulfur Dioxide	16.2	9.9	9.8	10.0	9.0	8.9	9.3
Nitrogen Oxides	7.4	6.3	6.4	6.4	7.4	7.5	7.7
Carbon Dioxide	2,056.1	2,292.0	2,316.0	2,340.0	2,680.8	2,732.0	2,835.0

- See footnotes at end of table.

**Table 51. Electric Power Data and Projections by World Oil Price Case
United States (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil Price	Reference	Low Oil Price	High Oil Price	Reference	Low Oil Price
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	298.1	297.6	297.6	297.6	318.8	322.2	320.0
Other Fossil Steam ^m	143.8	130.9	130.9	130.9	120.2	120.2	120.2
Combined Cycle	5.7	14.0	14.1	14.5	36.4	35.4	33.2
Combustion Turbine/Diesel	46.4	67.8	68.6	69.3	78.5	80.1	96.2
Nuclear Power	99.6	101.4	101.4	101.4	102.4	102.4	102.4
Pumped Storage Hydroelectric	17.4	19.9	19.9	19.9	19.9	19.9	19.9
Renewable Sources/Other ^e	77.7	83.6	83.3	83.1	86.7	86.1	85.5
Total Utility Capability	688.6	715.2	715.8	716.6	762.8	766.3	777.4
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	2.9	12.4	12.4	12.4	19.1	19.1	19.1
Other Fossil Steam ^m	0	.7	.7	.7	.8	.8	.8
Combined Cycle	.1	8.3	8.3	8.3	9.8	9.8	9.8
Combustion Turbine/Diesel	.7	18.3	18.3	18.3	19.8	19.8	19.8
Nuclear Power	2.3	5.8	5.8	5.8	8.3	8.3	8.3
Pumped Storage Hydroelectric	0	2.5	2.5	2.5	2.5	2.5	2.5
Renewable Sources/Other ^e	.3	4.3	4.3	4.3	4.9	4.9	4.9
Total (Announced)	6.3	52.3	52.3	52.3	65.2	65.2	65.2
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	.6	.6	.6	21.0	24.4	22.2
Combined Cycle	0	.2	.3	.6	21.1	20.0	17.8
Combustion Turbine/Diesel	0	4.3	5.1	5.8	14.8	16.4	32.6
Nuclear Power	0	0	0	0	.6	.6	.6
Renewable Sources/Other ^e	0	2.0	1.7	1.4	4.5	3.9	3.4
Total (Not Announced)	.0	7.0	7.6	8.4	62.0	65.4	76.6
Total Utility Additions	6.3	59.3	59.9	60.7	127.1	130.6	141.7
Cumulative Utility Retirements ^o	1.4	27.9	27.9	27.9	48.0	48.0	48.0
Nonutility							
Capability^p							
Coal	7.1	11.2	11.2	11.2	23.4	30.2	31.9
Natural Gas	19.3	36.8	34.4	36.0	45.3	42.0	42.2
Oil	.8	3.5	3.5	3.6	3.8	3.8	3.9
Renewable Sources/Other ^e	15.7	29.0	28.2	27.4	39.6	37.8	35.9
Total Nonutility Capability	43.0	80.4	77.3	78.2	112.1	113.8	114.0
Cumulative Additions ⁿ	.0	37.4	34.3	35.2	69.1	70.8	70.9

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil Price--Run HWOP93.D0920923, Reference--Run AEO93B.D0918921, Low Oil Price--Run LWOP93.D0920923.

Electric Power Data and Projections by Economic Growth Case

**Table 52. Electric Power Data and Projections by Economic Growth Case
New England Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Demand (billion kilowatthours)							
Residential	37.5	44.6	43.9	43.6	51.1	49.5	48.0
Commercial/Other	39.6	45.0	44.9	44.8	50.5	49.9	49.5
Industrial	27.2	31.1	29.3	27.7	38.3	34.9	31.3
Total Sales	104.3	120.6	118.1	116.0	139.9	134.2	128.8
Nonutility Consumption of On-Site Generation	4.8	10.1	10.0	9.4	11.4	10.8	9.7
Total Electricity Demand	109.0	130.8	128.2	125.4	151.4	145.0	138.5
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	5.6	7.0	7.0	6.9	7.9	7.7	7.4
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	6.1	11.7	11.7	11.7	21.1	21.1	21.1
Purchases from Nonutilities	9.7	20.9	18.5	18.4	25.7	23.2	22.7
Generation by Utilities	94.1	95.1	95.0	92.9	101.0	97.7	92.5
Total Net Energy for Load	109.9	127.7	125.2	122.9	147.8	142.0	136.2
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	16.6	16.5	16.5	16.5	15.8	15.8	15.7
Natural Gas	6.3	5.9	6.4	6.5	6.4	6.2	6.2
Oil	27.7	27.4	27.0	25.0	31.6	30.3	25.3
Nuclear	37.4	39.7	39.7	39.7	41.2	39.5	39.5
Renewable Sources/Other ^c	6.1	5.5	5.3	5.2	6.0	5.8	5.6
Total Utility Generation	94.1	95.1	95.0	92.9	101.0	97.7	92.5
Nonutility Generation^d							
Coal	1.9	3.6	3.6	3.6	3.7	3.7	3.6
Natural Gas	1.4	7.9	7.9	7.9	8.0	8.0	8.0
Oil	1.6	2.2	2.2	2.3	2.3	2.3	2.3
Renewable Sources/Other ^c	9.5	17.2	14.8	14.1	23.2	20.1	18.5
Total Nonutility Generation	14.4	31.0	28.5	27.8	37.2	34.0	32.3
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	8.34	10.08	9.99	9.71	9.84	9.67	9.32
Commercial/Other	8.42	9.85	9.77	9.53	9.21	8.94	8.58
Industrial	6.12	7.07	7.00	6.84	7.26	7.07	6.80
All Sectors Average	7.82	9.22	9.16	8.96	8.91	8.73	8.42
Price Components							
Capital ^f	2.36	3.19	3.18	3.07	2.06	1.96	1.87
Fuel ^g	2.30	3.02	2.91	2.79	3.92	3.78	3.52
Operation and Maintenance ^h	3.16	3.01	3.07	3.10	2.93	2.98	3.03
Total Average Electricity Price	7.82	9.22	9.16	8.96	8.91	8.73	8.42
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.87	2.23	2.14	2.08	2.78	2.71	2.54
Natural Gas	2.49	3.62	3.53	3.24	5.05	4.70	4.30
Oil	2.96	3.73	3.64	3.57	5.17	5.09	5.03
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	164.9	163.6	163.6	163.3	156.2	156.5	155.5
Natural Gas	69.4	67.1	72.0	72.3	71.7	69.8	69.8
Oil	291.3	300.5	295.9	273.6	347.6	333.2	277.5
Nonutility^j							
Coal	13.6	25.4	25.4	25.3	26.0	25.8	25.6
Natural Gas	8.6	49.6	49.6	49.5	50.2	49.9	49.8
Oil	10.6	14.7	14.7	14.7	14.8	14.8	14.8
Emissions (million tons) ^k							
Sulfur Dioxide	.4	.3	.3	.3	.2	.2	.2
Nitrogen Oxides	.1	.1	.1	.1	.1	.1	.1
Carbon Dioxide	37.3	36.6	36.6	35.5	52.6	51.2	46.0

- See footnotes at end of table.

**Table 52. Electric Power Data and Projections by Economic Growth Case
New England Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	2.7	2.4	2.4	2.4	2.3	2.3	2.3
Other Fossil Steam ^m	9.0	7.7	7.7	7.7	7.4	7.4	7.4
Combined Cycle	.4	.4	.4	.4	.4	.4	.4
Combustion Turbine/Diesel	1.4	1.7	1.7	1.7	2.5	2.0	1.7
Nuclear Power	6.6	6.4	6.4	6.4	7.0	6.4	6.4
Pumped Storage Hydroelectric	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Renewable Sources/Other ^c	1.7	1.9	1.8	1.8	2.0	2.0	1.9
Total Utility Capability	23.3	22.2	22.1	22.1	23.2	22.1	21.8
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	0	0	0	0	0	0
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	.0	.3	.3	.3	.3	.3	.3
Nuclear Power	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.0	.1	.1	.1	.1	.1	.1
Total (Announced)	1.2	1.6	1.6	1.6	1.6	1.6	1.6
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	0	0	0	0	.7	.3	0
Nuclear Power	0	0	0	0	.6	0	0
Renewable Sources/Other ^c	0	.1	.1	.1	.3	.2	.2
Total (Not Announced)	.0	.1	.1	.1	1.6	.5	.2
Total Utility Additions	1.2	1.7	1.6	1.6	3.2	2.1	1.8
Cumulative Utility Retirements ^o	.0	1.7	1.7	1.7	2.2	2.2	2.2
Nonutility							
Capability^p							
Coal	.4	.7	.7	.7	.7	.7	.7
Natural Gas	.8	2.0	2.0	2.0	2.0	2.0	2.0
Oil	.4	.7	.7	.7	.7	.7	.7
Renewable Sources/Other ^c	1.7	3.1	2.7	2.6	4.0	3.5	3.3
Total Nonutility Capability	3.2	6.5	6.1	6.0	7.4	7.0	6.7
Cumulative Additions ⁿ	.0	3.3	2.9	2.8	4.2	3.7	3.5

- ^a Balancing item equaling net energy for load minus electricity sales.
- ^b Generation to meet system load, exclusive of net interregional transfers.
- ^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
- ^d Represents gross generation, net generation data are not reported.
- ^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
- ^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
- ^g Includes the direct costs of fuel inputs used to generate electricity.
- ^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
- ⁱ In the end-use energy consumption tables (Tables E2-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
- ^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
- ^k Estimated emissions from utilities and independent power producers in millions of short tons.
- ^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
- ^m Includes oil-, gas-, and dual-fired steam capability.
- ⁿ Cumulative additions after December 31, 1989.
- ^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
- ^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Economic Growth--Run HMA93.D091692C, Reference--Run AEO93B.D0918921, Low Economic Growth--Run LMAG93.D0916924.

**Table 53. Electric Power Data and Projections by Economic Growth Case
New York/New Jersey Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Demand (billion kilowatthours)							
Residential	59.1	69.9	68.9	68.4	80.2	77.6	75.3
Commercial/Other	86.1	96.8	96.5	96.2	110.1	108.9	108.0
Industrial	47.0	53.4	50.5	47.6	66.9	60.9	54.7
Total Sales	192.2	220.1	215.8	212.2	257.2	247.3	237.9
Nonutility Consumption of On-Site Generation	3.2	16.8	16.5	16.5	18.7	17.9	17.6
Total Electricity Demand	195.3	236.9	232.4	228.6	276.0	265.2	255.5
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	-20.8	-11.1	-11.2	-11.5	-9.8	-9.6	-10.0
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	.5	12.7	12.7	12.7	13.0	13.0	13.0
Purchases from Nonutilities	5.7	32.2	28.9	28.7	51.9	38.7	34.7
Generation by Utilities	165.1	164.1	163.1	159.4	182.4	186.0	180.2
Total Net Energy for Load	171.4	209.0	204.6	200.7	247.4	237.8	227.9
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	31.7	25.6	25.5	25.2	25.7	25.7	25.7
Natural Gas	25.2	32.8	32.5	31.4	41.6	43.4	40.6
Oil	35.2	23.4	22.7	20.3	40.3	42.0	39.1
Nuclear	47.4	55.0	55.0	55.0	46.9	47.0	46.9
Renewable Sources/Other ^c	25.6	27.4	27.4	27.4	27.9	27.9	27.9
Total Utility Generation	165.1	164.1	163.1	159.4	182.4	186.0	180.2
Nonutility Generation^d							
Coal	1.4	6.3	6.2	6.2	19.7	9.7	6.3
Natural Gas	3.9	25.5	25.5	25.5	25.8	25.7	25.6
Oil	.5	2.8	2.8	2.8	2.9	2.9	2.9
Renewable Sources/Other ^e	3.1	14.4	10.9	10.6	22.3	18.4	17.4
Total Nonutility Generation	8.9	49.0	45.4	45.1	70.7	56.6	52.2
Electricity Price (1991 cents per kilowatthour)^f							
End-Use Sectors							
Residential	10.69	9.90	9.76	9.53	10.09	10.00	9.69
Commercial/Other	10.11	9.84	9.69	9.47	9.68	9.55	9.21
Industrial	4.85	5.17	5.06	4.94	5.93	5.84	5.64
All Sectors Average	9.04	8.73	8.63	8.47	8.83	8.78	8.54
Price Components							
Capital ^g	3.78	3.14	3.14	3.08	2.26	2.25	2.18
Fuel ^h	2.47	2.98	2.84	2.72	4.09	3.91	3.69
Operation and Maintenance ^h	2.80	2.61	2.65	2.67	2.49	2.61	2.67
Total Average Electricity Price	9.04	8.73	8.63	8.47	8.83	8.78	8.54
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.71	1.89	1.86	1.82	2.28	2.16	2.06
Natural Gas	2.44	3.83	3.52	3.23	5.05	4.65	4.26
Oil	3.73	4.22	4.13	4.02	5.52	5.45	5.35
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	329.6	272.3	271.6	268.3	273.5	273.8	273.3
Natural Gas	279.8	340.2	337.0	325.4	449.3	476.5	435.1
Oil	367.2	246.4	239.2	214.2	426.5	445.0	413.6
Nonutility^j							
Coal	9.6	44.2	44.1	43.9	150.6	71.4	44.7
Natural Gas	24.3	159.6	159.4	159.3	161.3	160.8	160.4
Oil	3.6	18.5	18.5	18.5	18.8	18.7	18.7
Emissions (million tons) ^k							
Sulfur Dioxide	.5	.3	.3	.3	.3	.3	.3
Nitrogen Oxides	.2	.2	.2	.2	.3	.3	.2
Carbon Dioxide	84.4	75.1	74.1	71.0	115.3	109.9	101.2

- See footnotes at end of table.

**Table 53. Electric Power Data and Projections by Economic Growth Case
New York/New Jersey Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	5.5	4.4	4.4	4.4	4.2	4.2	4.2
Other Fossil Steam ^m	16.6	14.5	14.5	14.5	14.2	14.2	14.2
Combined Cycle	.2	1.8	1.8	1.8	2.0	2.0	2.0
Combustion Turbine/Diesel	8.1	3.1	9.1	9.1	9.1	9.1	9.1
Nuclear Power	8.7	8.7	8.7	8.7	7.5	7.5	7.5
Pumped Storage Hydroelectric	1.6	1.7	1.7	1.7	1.7	1.7	1.7
Renewable Sources/Other ^c	3.9	4.3	4.3	4.3	4.3	4.3	4.3
Total Utility Capability	44.7	44.5	44.5	44.5	43.0	43.0	43.0
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	0	0	0	0	0	0
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	1.6	1.6	1.6	1.8	1.8	1.8
Combustion Turbine/Diesel	.1	1.2	1.2	1.2	1.2	1.2	1.2
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	.1	.1	.1	.1	.1	.1
Renewable Sources/Other ^c	.0	.4	.4	.4	.5	.5	.5
Total (Announced)	.1	3.2	3.2	3.2	3.5	3.5	3.5
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	.0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	0	0	0	0	0	0	0
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	0	0	0	0	0	0
Total (Not Announced)	.0	.0	.0	.0	.0	.0	.0
Total Utility Additions	.1	3.2	3.2	3.2	3.5	3.5	3.5
Cumulative Utility Retirements ^o	.0	3.3	3.3	3.3	5.1	5.1	5.1
Nonutility							
Capability^p							
Coal	.3	1.3	1.3	1.3	3.6	1.9	1.3
Natural Gas	.9	5.0	5.0	5.0	5.1	5.0	5.0
Oil	.1	1.1	1.1	1.1	1.2	1.2	1.1
Renewable Sources/Other ^c	.6	2.7	2.1	2.1	3.9	3.3	3.2
Total Nonutility Capability	1.9	10.1	9.5	9.5	13.7	11.4	10.6
Cumulative Additions ⁿ	.0	8.2	7.7	7.6	11.8	9.5	8.8

- ^a Balancing item equaling net energy for load minus electricity sales.
^b Generation to meet system load, exclusive of net interregional transfers.
^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
^d Represents gross generation, net generation data are not reported.
^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
^g Includes the direct costs of fuel inputs used to generate electricity.
^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
^k Estimated emissions from utilities and independent power producers in millions of short tons.
^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
^m Includes oil-, gas-, and dual-fired steam capability.
ⁿ Cumulative additions after December 31, 1989.
^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Economic Growth--Run HMA93.D091692C, Reference--Run AEO93B.D0918921, Low Economic Growth--Run LMA93.D0916924.

**Table 54. Electric Power Data and Projections by Economic Growth Case
Mid-Atlantic Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Demand (billion kilowatthours)							
Residential	97.1	110.7	108.9	107.6	127.4	122.7	117.9
Commercial/Other	82.7	97.3	96.9	96.5	111.6	110.3	109.1
Industrial	98.4	122.4	115.9	109.4	149.8	136.8	123.3
Total Sales	278.2	330.4	321.7	313.5	388.8	369.7	350.3
Nonutility Consumption of On-Site Generation	8.5	18.5	18.2	17.4	20.2	19.5	18.2
Total Electricity Demand	286.7	348.9	339.8	331.0	408.9	389.3	368.5
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	60.3	55.9	55.5	54.9	57.7	58.6	57.3
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	0	0	0	0	0	0	0
Purchases from Nonutilities	9.3	26.0	22.1	21.5	60.0	32.8	26.2
Generation by Utilities	329.2	360.2	355.1	346.9	386.5	395.5	381.4
Total Net Energy for Load	338.5	386.3	377.2	368.4	446.5	428.3	407.6
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	227.8	242.8	241.7	239.3	263.5	261.9	259.9
Natural Gas	3.0	7.2	6.2	5.1	18.7	25.6	12.4
Oil	10.6	21.3	18.3	13.6	15.1	18.8	19.9
Nuclear	82.9	86.7	86.7	86.7	86.3	96.3	86.3
Renewable Sources/Other ^c	4.9	2.3	2.2	2.2	2.9	2.9	2.8
Total Utility Generation	329.2	360.2	355.1	346.9	386.5	395.5	381.4
Nonutility Generation^d							
Coal	7.2	12.7	12.6	12.6	36.1	12.8	12.7
Natural Gas	2.5	9.9	8.5	8.4	15.7	14.2	8.7
Oil	1.1	2.5	2.5	2.5	2.6	2.6	2.5
Renewable Sources/Other ^e	7.0	19.4	16.6	15.4	25.8	22.8	20.4
Total Nonutility Generation	17.8	44.5	40.2	39.0	80.2	52.3	44.4
Electricity Price (1991 cents per kilowatthour)^f							
End-Use Sectors							
Residential	8.21	8.91	8.83	8.67	8.62	8.49	8.27
Commercial/Other	7.68	7.82	7.75	7.63	7.19	7.07	6.80
Industrial	5.35	5.68	5.61	5.53	5.59	5.47	5.27
All Sectors Average	7.03	7.39	7.34	7.25	7.04	6.95	6.76
Price Components							
Capital ^g	3.27	3.01	3.04	3.01	2.15	2.17	2.11
Fuel ^h	1.43	2.12	2.00	1.90	2.75	2.51	2.29
Operation and Maintenance ^h	2.33	2.27	2.31	2.34	2.14	2.27	2.35
Total Average Electricity Price	7.03	7.39	7.34	7.25	7.04	6.95	6.76
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.58	1.70	1.69	1.68	2.00	1.93	1.87
Natural Gas	2.60	4.21	3.99	3.72	5.66	5.29	4.79
Oil	3.51	4.14	4.07	4.04	5.39	5.31	5.25
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	2,247.8	2,476.6	2,465.4	2,441.0	2,654.9	2,638.7	2,625.2
Natural Gas	39.1	68.6	57.3	47.0	152.7	202.8	113.5
Oil	130.0	217.7	185.8	136.6	151.2	190.2	202.1
Nonutility^j							
Coal	50.7	89.6	89.4	89.2	282.2	90.6	90.0
Natural Gas	15.8	64.3	53.1	52.8	107.5	94.4	54.6
Oil	7.0	16.3	16.3	16.3	16.8	16.7	16.6
Emissions (million tons) ^k							
Sulfur Dioxide	2.6	2.1	2.0	1.9	2.1	1.9	1.8
Nitrogen Oxides	.9	.6	.6	.6	.7	.7	.6
Carbon Dioxide	254.1	286.6	281.4	274.2	330.1	314.0	305.5

- See footnotes at end of table.

**Table 54. Electric Power Data and Projections by Economic Growth Case
Mid-Atlantic Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Generating Capability (gigawatts) ¹							
Utility Capability							
Coal Steam	40.5	40.5	40.5	40.5	43.5	42.9	42.9
Other Fossil Steam ^m	9.5	8.1	8.1	8.1	7.4	7.4	7.4
Combined Cycle	.3	1.4	1.4	1.4	4.7	5.9	2.5
Combustion Turbine/Diesel	4.5	4.9	4.9	4.9	6.2	5.6	5.8
Nuclear Power	13.8	13.8	13.8	13.8	13.8	13.8	13.8
Pumped Storage Hydroelectric	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Renewable Sources/Other ^c	2.1	2.7	2.7	2.7	2.9	2.8	2.8
Total Utility Capability	74.2	74.9	74.9	74.9	82.1	82.0	78.9
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	1.7	1.7	1.7	1.7	1.7	1.7
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	.1	1.2	1.2	1.2	1.6	1.6	1.6
Combustion Turbine/Diesel	.4	.8	.8	.8	1.0	1.0	1.0
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.1	.6	.6	.6	.7	.7	.7
Total (Announced)	.6	4.4	4.4	4.4	5.0	5.0	5.0
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	3.3	2.8	2.8
Combined Cycle	0	0	0	0	3.1	4.2	.8
Combustion Turbine/Diesel	0	0	0	0	1.1	.5	.7
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.1	.1	.0	.1	.1	.1
Total (Not Announced)	.0	.1	.1	.0	7.6	7.5	4.4
Total Utility Additions	.6	4.5	4.5	4.5	12.6	12.6	9.4
Cumulative Utility Retirements ^o	.0	3.2	3.2	3.2	4.2	4.2	4.2
Nonutility Capability^p							
Coal	1.4	2.6	2.5	2.5	6.5	2.6	2.6
Natural Gas	.8	2.2	1.9	1.9	3.4	3.1	2.0
Oil	.1	.8	.8	.8	.8	.8	.8
Renewable Sources/Other ^c	1.7	4.0	3.6	3.4	5.0	4.6	4.2
Total Nonutility Capability	4.0	9.6	8.8	8.6	15.7	11.0	9.5
Cumulative Additions ⁿ	.0	5.5	4.8	4.6	11.7	7.0	5.5

- ^a Balancing item equaling net energy for load minus electricity sales.
- ^b Generation to meet system load, exclusive of net interregional transfers.
- ^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
- ^d Represents gross generation, net generation data are not reported.
- ^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
- ^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
- ^g Includes the direct costs of fuel inputs used to generate electricity.
- ^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
- ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
- ^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
- ^k Estimated emissions from utilities and independent power producers in millions of short tons.
- ^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
- ^m Includes oil-, gas-, and dual-fired steam capability.
- ⁿ Cumulative additions after December 31, 1989.
- ^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
- ^p Represents nameplate capacity, net summer capability data are not reported.
- Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Economic Growth--Run HMA93.D091692C, Reference--Run AEO93B.D0918921, Low Economic Growth--Run LMA93.D0916924.

**Table 55. Electric Power Data and Projections by Economic Growth Case
South Atlantic Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Demand (billion kilowatthours)							
Residential	231.0	262.9	258.1	254.4	301.9	289.9	276.7
Commercial/Other	161.6	202.6	201.6	200.7	237.5	234.4	231.3
Industrial	207.2	258.8	245.6	231.9	321.3	294.1	265.9
Total Sales	599.9	724.3	705.3	687.0	860.7	818.4	773.8
Nonutility Consumption of On-Site Generation	20.7	29.7	28.9	28.0	33.1	31.7	30.2
Total Electricity Demand	620.6	754.0	734.2	715.0	893.8	850.1	804.0
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	23.6	32.6	31.5	30.3	38.0	36.8	35.5
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	0	0	0	0	0	0	0
Purchases from Nonutilities	6.3	18.0	16.3	16.2	74.8	52.3	23.2
Generation by Utilities	617.2	738.9	720.5	701.2	823.9	802.8	786.1
Total Net Energy for Load	623.5	756.9	736.7	717.3	898.7	855.1	809.3
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	379.6	410.3	410.3	410.2	466.7	460.1	443.5
Natural Gas	24.4	60.8	55.8	44.8	89.1	76.5	69.4
Oil	26.6	48.6	38.9	30.5	34.1	39.7	46.7
Nuclear	148.8	184.7	181.0	181.0	199.3	191.8	191.8
Renewable Sources/Other ^c	37.8	34.5	34.5	34.6	34.7	34.8	34.7
Total Utility Generation	617.2	738.9	720.5	701.2	823.9	802.8	786.1
Nonutility Generation^d							
Coal	7.8	11.0	10.9	10.8	51.6	38.1	14.7
Natural Gas	2.6	8.3	8.1	8.0	21.7	14.5	8.9
Oil	.9	1.8	1.8	1.8	2.0	1.9	1.9
Renewable Sources/Other ^c	15.7	26.6	24.4	23.7	32.6	29.4	28.0
Total Nonutility Generation	27.0	47.7	45.2	44.2	107.9	84.1	53.4
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	7.61	7.09	7.00	6.87	7.19	7.08	7.01
Commercial/Other	7.16	6.75	6.64	6.52	6.68	6.53	6.40
Industrial	5.00	5.07	4.97	4.86	5.29	5.16	5.04
All Sectors Average	6.61	6.27	6.19	6.09	6.34	6.23	6.15
Price Components							
Capital ^f	2.93	2.14	2.14	2.13	1.72	1.70	1.70
Fuel ^g	1.51	1.97	1.87	1.76	2.53	2.38	2.22
Operation and Maintenance ^h	2.17	2.17	2.19	2.21	2.08	2.14	2.24
Total Average Electricity Price	6.61	6.27	6.19	6.09	6.34	6.23	6.15
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.67	1.83	1.80	1.76	2.19	2.11	2.01
Natural Gas	2.41	3.46	3.19	2.99	5.01	4.48	3.91
Oil	3.17	3.78	3.68	3.56	5.13	5.03	4.93
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	3,779.3	4,148.8	4,148.5	4,147.9	4,609.1	4,555.5	4,420.4
Natural Gas	276.1	642.7	581.5	448.5	829.4	756.4	752.7
Oil	272.5	495.5	395.8	310.2	349.2	405.9	476.7
Nonutility^j							
Coal	54.8	77.9	77.1	76.3	399.8	292.7	106.7
Natural Gas	16.2	51.8	50.6	49.8	148.2	96.6	55.5
Oil	6.1	11.7	11.6	11.5	12.9	12.7	12.4
Emissions (million tons) ^k							
Sulfur Dioxide	4.0	2.6	2.6	2.5	2.3	2.4	2.3
Nitrogen Oxides	1.6	1.3	1.3	1.3	1.6	1.6	1.5
Carbon Dioxide	434.4	508.3	498.5	485.2	610.1	590.9	560.8

- See footnotes at end of table.

**Table 55. Electric Power Data and Projections by Economic Growth Case
South Atlantic Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Generating Capability (gigawatts) ¹							
Utility Capability							
Coal Steam	76.8	76.9	76.9	76.9	84.3	83.1	80.4
Other Fossil Steam ^m	17.9	15.8	15.8	15.8	14.2	14.2	14.2
Combined Cycle	.8	4.0	4.0	4.0	10.4	7.4	4.6
Combustion Turbine/Diesel	10.0	15.4	15.4	15.4	15.2	15.5	15.2
Nuclear Power	26.8	30.3	29.1	29.1	32.1	30.9	30.9
Pumped Storage Hydroelectric	3.2	5.5	5.5	5.5	5.5	5.5	5.5
Renewable Sources/Other ^e	11.3	12.1	12.1	12.1	12.2	12.2	12.2
Total Utility Capability	146.8	160.0	158.8	158.8	173.9	168.8	163.0
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	1.2	3.1	3.1	3.1	3.1	3.1	3.1
Other Fossil Steam ^m	0	.0	.0	.0	.0	.0	.0
Combined Cycle	0	3.2	3.2	3.2	3.2	3.2	3.2
Combustion Turbine/Diesel	0	5.6	5.6	5.6	6.0	6.0	6.0
Nuclear Power	0	3.6	2.3	2.3	4.8	3.6	3.6
Pumped Storage Hydroelectric	0	2.2	2.2	2.2	2.2	2.2	2.2
Renewable Sources/Other ^e	0	.7	.7	.7	.8	.8	.8
Total (Announced)	1.2	18.5	17.2	17.2	20.2	19.0	19.0
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	9.4	8.3	5.6
Combined Cycle	0	0	0	0	6.4	3.3	.6
Combustion Turbine/Diesel	0	0	0	0	.6	.9	.6
Nuclear Power	0	0	0	0	.6	.6	.6
Renewable Sources/Other ^e	0	.0	.0	.0	.1	.1	.0
Total (Not Announced)	.0	.0	.0	.0	17.1	13.2	7.4
Total Utility Additions	1.2	18.5	17.3	17.3	37.3	32.2	26.3
Cumulative Utility Retirements ^o	.1	4.2	4.2	4.2	9.0	9.0	9.0
Nonutility Capability^p							
Coal	1.2	1.8	1.8	1.8	8.7	6.4	2.5
Natural Gas	.6	1.7	1.6	1.6	4.4	2.9	1.8
Oil	.0	.4	.4	.4	.5	.5	.5
Renewable Sources/Other ^e	3.2	5.1	4.8	4.7	5.8	5.4	5.2
Total Nonutility Capability	5.0	9.0	8.6	8.5	19.4	15.3	9.9
Cumulative Additions ⁿ	.0	4.0	3.6	3.5	14.4	10.3	4.9

- ^a Balancing item equaling net energy for load minus electricity sales.
- ^b Generation to meet system load, exclusive of net interregional transfers.
- ^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
- ^d Represents gross generation, net generation data are not reported.
- ^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
- ^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
- ^g Includes the direct costs of fuel inputs used to generate electricity.
- ^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
- ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
- ^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
- ^k Estimated emissions from utilities and independent power producers in millions of short tons.
- ^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
- ^m Includes oil-, gas-, and dual-fired steam capability.
- ⁿ Cumulative additions after December 31, 1989.
- ^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
- ^p Represents nameplate capacity, net summer capability data are not reported.
- Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report;" The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report;" **Projections:** AEO 1993 FORECASTING SYSTEM High Economic Growth--Run HMAC93.D091692C, Reference--Run AEO93B.D0918921, Low Economic Growth--Run LMAG93.D0916924.

**Table 56. Electric Power Data and Projections by Economic Growth Case
Midwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Demand (billion kilowatthours)							
Residential	149.4	169.3	166.2	164.2	190.2	182.6	174.1
Commercial/Other	134.6	156.9	155.9	155.2	171.5	168.9	165.8
Industrial	222.7	296.8	285.0	269.9	379.2	348.7	313.8
Total Sales	506.8	623.0	607.1	589.3	740.9	700.2	653.6
Nonutility Consumption of On-Site Generation	14.9	35.8	23.3	18.3	38.1	25.1	19.7
Total Electricity Demand	521.7	658.7	630.4	607.6	779.0	725.3	673.4
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	17.0	26.7	25.9	25.1	31.5	29.8	28.6
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	-10.8	3.1	3.1	3.1	3.0	3.0	3.0
Purchases from Nonutilities	7.2	32.5	25.1	16.1	97.2	76.0	42.1
Generation by Utilities	527.4	614.1	604.8	595.2	672.2	651.0	637.2
Total Net Energy for Load	523.8	649.6	633.0	614.4	772.4	730.0	682.3
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	389.9	421.9	419.8	417.2	459.8	445.8	444.9
Natural Gas	2.6	44.3	36.7	31.1	69.7	66.3	53.2
Oil	2.6	4.2	5.1	4.0	2.9	1.5	2.1
Nuclear	127.5	136.0	136.0	136.0	130.9	129.0	129.0
Renewable Sources/Other ^c	4.8	7.6	7.1	7.0	8.9	8.3	8.0
Total Utility Generation	527.4	614.1	604.8	595.2	672.2	651.0	637.2
Nonutility Generation^d							
Coal	6.1	7.4	7.3	10.4	57.9	41.0	27.4
Natural Gas	8.7	45.0	29.3	12.3	58.0	44.6	19.3
Oil	.4	3.0	.8	.7	3.1	.8	.8
Renewable Sources/Other ^c	6.9	12.9	11.1	11.0	16.4	14.6	14.2
Total Nonutility Generation	22.2	68.2	48.4	34.4	135.3	101.1	61.8
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	8.68	9.63	9.56	9.36	9.70	9.54	9.47
Commercial/Other	7.52	7.56	7.47	7.31	7.38	7.16	7.01
Industrial	5.17	5.41	5.32	5.20	5.59	5.43	5.25
All Sectors Average	6.84	7.10	7.03	6.91	7.06	6.92	6.82
Price Components							
Capital ^f	2.98	2.79	2.81	2.76	2.26	2.20	2.25
Fuel ^g	1.55	2.12	2.00	1.88	2.74	2.58	2.31
Operation and Maintenance ^h	2.31	2.19	2.23	2.28	2.06	2.13	2.26
Total Average Electricity Price	6.84	7.10	7.03	6.91	7.06	6.92	6.82
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.54	1.73	1.71	1.68	1.99	1.93	1.84
Natural Gas	2.63	3.48	3.07	2.74	5.08	4.56	3.99
Oil	4.02	4.90	4.68	4.59	5.97	6.10	5.98
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	4,070.4	4,410.2	4,388.4	4,360.8	4,742.1	4,624.4	4,608.0
Natural Gas	48.4	590.2	512.1	435.8	714.0	738.4	642.8
Oil	39.1	56.6	68.6	53.9	37.0	20.4	28.6
Nonutility^j							
Coal	43.2	52.2	51.4	83.7	459.4	318.9	218.3
Natural Gas	54.7	277.0	178.2	74.9	372.8	291.6	128.4
Oil	2.5	17.0	4.9	4.8	17.8	5.5	5.3
Emissions (million tons) ^k							
Sulfur Dioxide	5.5	2.4	2.4	2.6	2.2	2.2	2.4
Nitrogen Oxides	1.9	1.6	1.6	1.6	1.9	1.8	1.8
Carbon Dioxide	438.1	509.9	501.8	494.8	598.3	570.3	548.0

- See footnotes at end of table.

**Table 56. Electric Power Data and Projections by Economic Growth Case
Midwest Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Generating Capability (gigawatts) ¹							
Utility Capability							
Coal Steam	82.8	78.9	78.9	78.9	82.2	80.0	80.6
Other Fossil Steam ^m	7.1	5.7	5.7	5.7	5.0	5.0	5.0
Combined Cycle	.1	1.3	.2	.2	10.5	7.2	3.9
Combustion Turbine/Diesel	7.1	15.2	14.2	13.0	18.8	19.2	17.6
Nuclear Power	21.6	21.6	21.6	21.6	21.4	20.8	20.8
Pumped Storage Hydroelectric	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Renewable Sources/Other ^c	1.6	1.9	1.8	1.8	2.3	2.1	2.1
Total Utility Capability	122.4	126.6	124.4	123.2	142.1	136.2	131.8
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	1.3	1.8	1.8	1.8	2.0	2.0	2.0
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	.1	.0	.0	.1	.1	.1
Combustion Turbine/Diesel	0	5.9	5.9	5.9	6.0	6.0	6.0
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.1	.1	.1	.1	.1	.1	.1
Total (Announced)	1.4	7.9	7.9	7.9	8.2	8.2	8.2
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	5.0	2.8	3.3
Combined Cycle	0	1.1	.0	0	10.2	6.9	3.6
Combustion Turbine/Diesel	0	2.1	1.2	0	5.7	6.1	4.5
Nuclear Power	0	0	0	0	.6	0	0
Renewable Sources/Other ^c	0	.3	.1	.1	.6	.5	.4
Total (Not Announced)	.0	3.5	1.3	.1	22.1	16.2	11.8
Total Utility Additions	1.4	11.4	9.2	8.0	30.3	24.4	20.0
Cumulative Utility Retirements ^o	.3	6.1	6.1	6.1	9.5	9.5	9.5
Nonutility Capability^p							
Coal	1.9	2.2	2.2	2.7	10.7	7.9	5.6
Natural Gas	2.4	8.9	6.1	3.0	11.6	9.2	4.5
Oil	.1	.6	.2	.2	.7	.3	.3
Renewable Sources/Other ^c	1.2	2.0	1.8	1.8	2.4	2.2	2.2
Total Nonutility Capability	5.6	13.7	10.3	7.7	25.4	19.6	12.5
Cumulative Additions ⁿ	.0	8.2	4.7	2.2	19.8	14.0	6.9

- ^a Balancing item equaling net energy for load minus electricity sales.
^b Generation to meet system load, exclusive of net interregional transfers.
^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
^d Represents gross generation, net generation data are not reported.
^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
^g Includes the direct costs of fuel inputs used to generate electricity.
^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
^k Estimated emissions from utilities and independent power producers in millions of short tons.
^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
^m Includes oil-, gas-, and dual-fired steam capability.
ⁿ Cumulative additions after December 31, 1989.
^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December 31 of any given year are counted in the next year.
^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Economic Growth--Run HMA93.D091692C, Reference--Run AEO93B.D0918921, Low Economic Growth--Run LMA93.D0916924.

**Table 57. Electric Power Data and Projections by Economic Growth Case
Southwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Demand (billion kilowatthours)							
Residential	135.2	150.8	148.0	145.8	169.8	162.9	155.5
Commercial/Other	113.5	132.7	132.0	131.4	150.6	148.6	146.6
Industrial	136.3	190.4	180.6	170.6	239.4	219.2	198.1
Total Sales	384.9	473.8	460.7	447.8	559.8	530.7	500.2
Nonutility Consumption of On-Site Generation	44.3	47.9	47.8	47.9	48.9	48.5	48.4
Total Electricity Demand	429.2	521.8	508.5	495.7	608.7	579.2	548.6
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	42.8	45.6	44.7	43.7	47.3	46.8	46.9
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	0	-1.0	-1.0	-1.0	-1.9	-1.9	-1.9
Purchases from Nonutilities	24.9	28.3	28.1	28.0	93.1	70.3	38.4
Generation by Utilities	402.8	492.2	478.3	464.5	515.9	509.1	510.6
Total Net Energy for Load	427.8	519.5	505.3	491.5	607.1	577.6	547.1
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	206.3	227.9	227.9	227.9	278.8	265.5	262.1
Natural Gas	145.7	198.1	184.4	170.9	171.0	177.3	181.9
Oil	.8	3.7	3.4	3.2	2.7	3.0	3.2
Nuclear	41.3	52.5	52.5	52.5	52.8	52.8	52.8
Renewable Sources/Other ^c	8.7	10.0	10.0	10.0	10.6	10.6	10.6
Total Utility Generation	402.8	492.2	478.3	464.5	515.9	509.1	510.6
Nonutility Generation^d							
Coal	4.6	5.0	5.0	4.9	61.7	41.8	15.1
Natural Gas	51.5	57.1	57.0	57.2	65.5	62.6	57.3
Oil	.1	.2	.2	.2	.3	.3	.3
Renewable Sources/Other ^c	13.0	13.9	13.6	13.6	14.4	14.1	14.1
Total Nonutility Generation	69.2	76.2	75.9	75.9	141.9	118.8	86.8
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	7.86	8.81	8.67	8.46	9.55	9.15	8.94
Commercial/Other	6.96	7.46	7.32	7.14	7.88	7.47	7.22
Industrial	4.63	5.14	4.99	4.86	5.75	5.46	5.26
All Sectors Average	6.41	6.96	6.84	6.70	7.48	7.15	6.98
Price Components							
Capital ^f	2.50	2.56	2.58	2.55	2.40	2.29	2.25
Fuel ^g	2.13	2.61	2.45	2.33	3.37	3.09	2.84
Operation and Maintenance ^h	1.77	1.79	1.80	1.82	1.70	1.78	1.89
Total Average Electricity Price	6.41	6.96	6.84	6.70	7.48	7.15	6.98
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.52	1.71	1.69	1.72	2.20	1.97	1.95
Natural Gas	2.18	3.28	2.98	2.70	4.60	4.17	3.74
Oil	4.87	4.42	4.07	3.71	5.47	5.14	4.80
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	2,211.1	2,359.6	2,359.6	2,359.4	2,823.6	2,701.7	2,674.5
Natural Gas	1,558.9	2,080.2	1,934.8	1,793.1	1,722.7	1,810.4	1,888.1
Oil	8.9	40.5	37.6	34.8	29.4	32.4	35.3
Nonutility^j							
Coal	32.5	35.6	35.2	34.7	506.7	327.0	115.7
Natural Gas	322.3	357.1	356.8	357.6	420.3	397.2	358.7
Oil	.5	1.4	1.4	1.3	2.1	1.9	1.8
Emissions (million tons) ^k							
Sulfur Dioxide	1.0	.7	.7	.7	.8	.7	.7
Nitrogen Oxides	1.1	1.1	1.0	1.0	1.2	1.2	1.1
Carbon Dioxide	363.0	418.0	408.1	398.4	509.5	479.0	453.4

- See footnotes at end of table.

**Table 57. Electric Power Data and Projections by Economic Growth Case
Southwest Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	34.4	37.6	37.6	37.6	45.6	43.4	42.8
Other Fossil Steam ^m	55.9	54.1	54.1	54.1	49.4	49.4	49.4
Combined Cycle	1.7	3.5	3.5	3.5	7.6	6.2	4.5
Combustion Turbine/Diesel	3.5	4.8	4.8	4.8	5.9	5.8	5.6
Nuclear Power	7.4	8.5	8.5	8.5	8.5	8.5	8.5
Pumped Storage Hydroelectric	.3	.3	.3	.3	.3	.3	.3
Renewable Sources/Other ^c	3.0	4.0	4.0	4.0	4.2	4.2	4.2
Total Utility Capability	106.2	112.7	112.7	112.7	121.4	117.8	115.4
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	3.2	3.2	3.2	5.6	5.6	5.6
Other Fossil Steam ^m	0	.6	.6	.6	.7	.7	.7
Combined Cycle	0	1.8	1.8	1.8	2.3	2.3	2.3
Combustion Turbine/Diesel	.0	1.3	1.3	1.3	1.7	1.7	1.7
Nuclear Power	1.1	2.3	2.3	2.3	2.3	2.3	2.3
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.1	1.2	1.2	1.2	1.3	1.3	1.3
Total (Announced)	1.3	10.3	10.3	10.3	13.9	13.9	13.9
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	5.6	3.3	2.8
Combined Cycle	0	0	0	0	3.6	2.2	.6
Combustion Turbine/Diesel	0	0	0	0	.8	.8	.6
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	0	0	0	0	0	0
Total (Not Announced)	.0	.0	.0	.0	10.0	6.3	3.9
Total Utility Additions	1.3	10.3	10.3	10.3	23.9	20.3	17.9
Cumulative Utility Retirements ^o	.1	2.5	2.5	2.5	7.4	7.4	7.4
Nonutility							
Capability^p							
Coal	1.1	1.2	1.2	1.1	10.7	7.4	2.9
Natural Gas	9.2	10.2	10.2	10.2	11.9	11.4	10.3
Oil	0	.1	.1	.1	.1	.1	.1
Renewable Sources/Other ^c	1.5	1.7	1.7	1.7	1.7	1.7	1.7
Total Nonutility Capability	11.8	13.1	13.1	13.1	24.5	20.5	14.9
Cumulative Additions ⁿ	.0	1.4	1.3	1.3	12.7	8.7	3.2

- ^a Balancing item equaling net energy for load minus electricity sales.
^b Generation to meet system load, exclusive of net interregional transfers.
^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
^d Represents gross generation, net generation data are not reported.
^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
^g Includes the direct costs of fuel inputs used to generate electricity.
^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
^k Estimated emissions from utilities and independent power producers in millions of short tons.
^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
^m Includes oil-, gas-, and dual-fired steam capability.
ⁿ Cumulative additions after December 31, 1989.
^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Economic Growth--Run HMAC93.D091692C, Reference--Run AEO93B.D0918921, Low Economic Growth--Run LMAC93.D0916924.

**Table 58. Electric Power Data and Projections by Economic Growth Case
Central Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Demand (billion kilowatthours)							
Residential	48.5	55.0	54.0	53.4	61.3	58.9	56.1
Commercial/Other	42.9	49.5	49.2	49.0	54.0	53.2	52.3
Industrial	37.0	55.5	53.3	50.5	70.3	64.7	58.2
Total Sales	128.4	160.0	156.5	152.8	185.7	176.8	166.6
Nonutility Consumption of On-Site Generation	1.3	3.0	2.9	2.8	3.5	3.3	3.1
Total Electricity Demand	129.6	163.0	159.4	155.6	199.1	180.1	169.7
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	15.2	16.1	15.8	15.5	18.1	17.4	16.7
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	0	0	0	0	0	0	0
Purchases from Nonutilities	.0	3.0	1.6	1.6	5.7	4.3	1.7
Generation by Utilities	143.6	173.1	170.6	166.6	198.1	189.8	181.6
Total Net Energy for Load	143.6	176.1	172.3	168.3	203.8	194.2	183.3
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	109.8	126.1	125.2	123.6	149.2	144.1	133.3
Natural Gas	3.0	17.2	16.5	14.1	19.1	16.1	19.4
Oil	.2	1.5	.6	.6	1.3	1.1	.4
Nuclear	26.4	25.1	25.1	25.1	25.0	25.0	25.0
Renewable Sources/Other ^c	4.2	3.3	3.3	3.3	3.6	3.6	3.6
Total Utility Generation	143.6	173.1	170.6	166.6	198.1	189.8	181.6
Nonutility Generation^d							
Coal	1.0	2.7	2.7	2.6	2.9	2.8	2.8
Natural Gas	.3	2.0	.6	.6	4.9	3.5	.8
Oil	0	.0	.0	.0	.1	.1	.1
Renewable Sources/Other ^e	.0	1.2	1.2	1.2	1.3	1.2	1.2
Total Nonutility Generation	1.3	6.0	4.6	4.5	9.2	7.7	4.8
Electricity Price (1991 cents per kilowatthour)^f							
End-Use Sectors							
Residential	7.85	8.67	8.62	8.54	9.71	9.72	9.81
Commercial/Other	7.10	7.01	6.92	6.83	7.35	7.22	7.11
Industrial	4.83	5.01	4.92	4.85	5.33	5.19	5.14
All Sectors Average	6.68	6.89	6.83	6.77	7.36	7.31	7.33
Price Components							
Capital ^g	3.07	2.78	2.81	2.81	2.89	2.93	2.90
Fuel ^h	1.36	1.96	1.85	1.77	2.29	2.16	2.18
Operation and Maintenance ^h	2.26	2.14	2.17	2.19	2.18	2.22	2.26
Total Average Electricity Price	6.68	6.89	6.83	6.77	7.36	7.31	7.33
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.25	1.51	1.50	1.48	1.72	1.65	1.72
Natural Gas	1.95	3.33	2.98	2.69	4.68	4.20	3.81
Oil	5.11	4.53	5.14	5.05	5.55	5.45	6.29
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	1,184.2	1,350.1	1,340.4	1,323.3	1,556.0	1,509.8	1,423.6
Natural Gas	38.0	221.8	221.2	189.5	220.6	200.0	232.1
Oil	3.0	18.5	7.7	7.6	15.9	14.2	5.1
Nonutility^j							
Coal	6.9	18.9	18.8	18.6	20.3	19.9	19.5
Natural Gas	1.8	15.2	4.1	3.8	36.3	24.8	4.8
Oil	0	.3	.3	.2	.5	.4	.4
Emissions (million tons) ^k							
Sulfur Dioxide	1.4	.8	.8	.9	.6	.7	.7
Nitrogen Oxides	.5	.6	.6	.5	.6	.6	.6
Carbon Dioxide	129.5	159.9	157.2	153.5	182.8	175.8	166.6

- See footnotes at end of table.

**Table 58. Electric Power Data and Projections by Economic Growth Case
Central Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	24.8	24.4	24.4	24.4	27.4	26.8	24.6
Other Fossil Steam ^m	2.5	1.8	1.8	1.8	1.0	1.0	1.0
Combined Cycle	.2	.6	.3	.3	2.0	.9	1.7
Combustion Turbine/Diesel	5.4	11.3	10.5	9.5	13.9	13.4	12.6
Nuclear Power	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Pumped Storage Hydroelectric	.6	.6	.6	.6	.6	.6	.6
Renewable Sources/Other ^c	.9	.9	.9	.9	1.0	1.0	1.0
Total Utility Capability	38.3	43.6	42.6	41.6	49.9	47.6	45.5
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	.4	.4	.4	1.5	1.5	1.5
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	.1	.1	.1	.1	.1	.1
Combustion Turbine/Diesel	.2	1.8	1.8	1.8	1.9	1.9	1.9
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.0	.0	.0	.0	.1	.1	.1
Total (Announced)	.2	2.3	2.3	2.3	3.7	3.7	3.7
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	2.8	2.2	0
Combined Cycle	0	.3	0	0	1.7	.6	1.4
Combustion Turbine/Diesel	0	4.2	3.5	2.5	6.9	6.4	5.6
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.0	.0	.0	.1	.1	.0
Total (Not Announced)	.0	4.5	3.5	2.5	11.5	9.2	7.0
Total Utility Additions	.2	6.9	5.9	4.9	15.2	12.9	10.8
Cumulative Utility Retirements ^o	.0	1.4	1.4	1.4	3.4	3.4	3.4
Nonutility							
Capability^p							
Coal	.3	.6	.6	.6	.7	.7	.7
Natural Gas	.0	.4	.1	.1	1.0	.7	.1
Oil	0	.0	.0	.0	.0	.0	.0
Renewable Sources/Other ^c	0	.3	.3	.3	.3	.3	.3
Total Nonutility Capability	.3	1.4	1.1	1.0	2.0	1.7	1.1
Cumulative Additions ⁿ	.0	1.0	.7	.7	1.7	1.4	.8

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of net interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report on Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Economic Growth--Run HMA93.D091692C, Reference--Run AEO93B.D0918921, Low Economic Growth--Run LMA93.D0916924.

**Table 59. Electric Power Data and Projections by Economic Growth Case
North Central Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Demand (billion kilowatthours)							
Residential	24.9	30.2	29.5	29.1	35.4	33.8	32.1
Commercial/Other	29.5	35.3	35.0	34.8	40.6	39.8	39.1
Industrial	30.0	39.2	37.4	35.2	49.5	45.2	40.6
Total Sales	84.4	104.8	102.0	99.1	125.4	118.7	111.9
Nonutility Consumption of On-Site Generation	.9	3.9	3.9	3.9	4.2	4.1	4.0
Total Electricity Demand	85.3	108.7	105.9	103.0	129.7	122.9	115.9
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	79.4	78.3	78.1	80.4	82.5	82.2	81.6
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	.7	1.3	1.3	1.3	4.1	4.1	4.1
Purchases from Nonutilities	1.2	8.5	5.1	5.1	8.5	5.2	5.1
Generation by Utilities	161.9	173.3	173.6	173.0	195.4	191.7	184.2
Total Net Energy for Load	163.8	183.1	180.1	179.5	208.0	201.0	193.5
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	142.3	145.4	145.6	145.0	146.1	146.1	146.0
Natural Gas	.5	1.6	1.7	1.9	23.5	18.4	11.5
Oil	.2	1.5	1.6	1.4	1.6	2.7	2.4
Nuclear	0	0	0	0	0	0	0
Renewable Sources/Other ^c	19.0	24.8	24.8	24.8	24.2	24.5	24.2
Total Utility Generation	161.9	173.3	173.6	173.0	195.4	191.7	184.2
Nonutility Generation^d							
Coal	.2	4.3	1.0	.9	4.4	1.0	1.0
Natural Gas	1.1	3.9	3.9	3.9	4.1	4.0	4.0
Oil	.0	.1	.1	.1	.1	.1	.1
Renewable Sources/Other ^c	.7	4.1	4.1	4.1	4.1	4.1	4.1
Total Nonutility Generation	2.1	12.4	9.0	9.0	12.7	9.3	9.2
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	8.13	8.51	8.47	8.44	9.05	8.92	8.76
Commercial/Other	7.20	6.66	6.59	6.62	6.68	6.47	6.23
Industrial	4.76	4.54	4.45	4.50	4.93	4.71	4.53
All Sectors Average	6.58	6.40	6.35	6.40	6.66	6.49	6.34
Price Components							
Capital ^f	3.33	3.11	3.14	3.11	2.67	2.71	2.63
Fuel ^g	.50	.82	.67	.70	1.57	1.28	1.12
Operation and Maintenance ^h	2.74	2.46	2.54	2.58	2.42	2.51	2.59
Total Average Electricity Price	6.58	6.40	6.35	6.40	6.66	6.49	6.34
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	.94	.95	.95	.94	1.10	1.05	1.05
Natural Gas	3.72	3.62	3.32	3.05	5.00	4.74	4.06
Oil	5.46	5.35	5.23	5.06	6.56	6.49	6.38
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	1,518.8	1,569.6	1,572.0	1,565.5	1,576.6	1,576.5	1,576.4
Natural Gas	7.3	22.5	23.1	25.8	244.0	177.2	136.7
Oil	2.2	22.4	23.5	20.1	22.7	38.3	34.6
Nonutility^j							
Coal	1.7	40.2	6.8	6.7	40.9	7.4	7.2
Natural Gas	7.1	24.6	24.5	24.5	25.6	25.2	25.0
Oil	.2	.4	.4	.4	.6	.5	.5
Emissions (million tons) ^k							
Sulfur Dioxide	.3	.4	.4	.4	.2	.2	.3
Nitrogen Oxides	.5	.5	.5	.5	.5	.5	.5
Carbon Dioxide	163.8	175.1	172.0	171.1	189.2	183.0	180.3

- See footnotes at end of table.

**Table 59. Electric Power Data and Projections by Economic Growth Case
North Central Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	21.3	22.3	22.3	22.3	22.0	22.0	22.0
Other Fossil Steam ^m	.6	.2	.2	.2	.1	.1	.1
Combined Cycle	0	0	0	0	2.2	2.2	.6
Combustion Turbine/Diesel	.9	1.1	1.0	1.0	2.5	1.6	1.9
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	.5	.6	.6	.6	.6	.6	.6
Renewable Sources/Other ^e	6.0	6.4	6.4	6.4	6.4	6.4	6.4
Total Utility Capability	29.3	30.6	30.5	30.5	33.8	32.9	31.6
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	1.4	1.4	1.4	1.4	1.4	1.4
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	.0	.1	.1	.1	.1	.1	.1
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	.1	.1	.1	.1	.1	.1
Renewable Sources/Other ^e	0	.4	.4	.4	.4	.4	.4
Total (Announced)	.0	2.0	2.0	2.0	2.0	2.0	2.0
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	.0	0	0
Combined Cycle	0	0	0	0	2.2	2.2	.6
Combustion Turbine/Diesel	0	.1	0	0	1.4	.6	.9
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^e	0	.0	.0	.0	.0	.0	.0
Total (Not Announced)	.0	.1	.0	.0	3.7	2.9	1.5
Total Utility Additions	.0	2.1	2.0	2.0	5.7	4.9	3.5
Cumulative Utility Retirements ^o	.0	.8	.8	.8	1.3	1.3	1.3
Nonutility							
Capability							
Coal	.0	.7	.2	.2	.8	.2	.2
Natural Gas	.3	.8	.8	.8	.8	.8	.8
Oil	0	.0	.0	.0	.0	.0	.0
Renewable Sources/Other ^e	.2	.9	.9	.9	1.0	.9	.9
Total Nonutility Capability	.5	2.5	2.0	1.9	2.6	2.0	2.0
Cumulative Additions ⁿ	.0	2.0	1.5	1.5	2.1	1.5	1.5

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of net interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report;" The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report;" **Projections:** AEO 1993 FORECASTING SYSTEM High Economic Growth--Run HMA93.D091692C, Reference--Run AEO93B.D0918921, Low Economic Growth--Run LMA93.D0916924.

**Table 60. Electric Power Data and Projections by Economic Growth Case
West Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Demand (billion kilowatthours)							
Residential	89.8	111.1	108.7	106.8	135.0	128.5	122.2
Commercial/Other	111.5	140.9	139.7	138.8	176.5	172.8	170.1
Industrial	75.9	102.9	98.0	92.3	134.0	122.4	109.9
Total Sales	277.2	355.0	346.4	337.8	445.5	423.7	402.2
Nonutility Consumption of On-Site Generation	10.2	15.4	15.2	15.0	17.0	16.5	16.0
Total Electricity Demand	287.4	370.4	361.5	352.8	462.5	440.2	418.3
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	-28.0	-19.9	-20.6	-21.4	-17.6	-17.8	-18.8
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	4.7	5.3	5.3	5.3	6.7	6.7	6.7
Purchases from Nonutilities	40.4	64.4	63.6	63.2	117.2	98.3	87.7
Generation by Utilities	204.1	265.3	256.8	247.9	304.1	300.9	289.0
Total Net Energy for Load	249.2	335.0	325.7	316.4	427.9	405.9	383.4
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	46.7	50.3	50.3	50.3	67.6	70.8	67.6
Natural Gas	49.7	73.8	68.2	61.0	84.1	77.1	70.0
Oil	12.8	17.8	14.9	13.2	16.6	17.3	15.7
Nuclear	53.3	49.8	49.8	49.8	49.9	49.9	49.9
Renewable Sources/Other ^c	41.7	73.6	73.6	73.6	85.9	85.8	85.8
Total Utility Generation	204.1	265.3	256.8	247.9	304.1	300.9	289.0
Nonutility Generation^d							
Coal	2.2	2.5	2.5	2.4	29.4	12.8	2.7
Natural Gas	26.8	35.1	35.0	35.0	37.0	35.5	35.4
Oil	.6	.8	.8	.8	.9	.9	.9
Renewable Sources/Other ^c	21.0	41.5	40.5	40.0	66.8	65.7	64.7
Total Nonutility Generation	50.6	79.9	78.8	78.2	134.2	114.8	103.7
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	7.41	7.34	7.20	7.02	7.27	7.13	6.92
Commercial/Other	7.48	7.31	7.16	6.99	7.00	6.83	6.59
Industrial	6.36	6.44	6.29	6.14	6.46	6.30	6.09
All Sectors Average	7.13	7.06	6.93	6.77	6.92	6.77	6.55
Price Components							
Capital ^f	2.50	1.93	1.93	1.90	1.34	1.31	1.22
Fuel ^g	2.54	3.18	3.03	2.90	3.84	3.64	3.46
Operation and Maintenance ^h	2.09	1.95	1.97	1.98	1.74	1.82	1.87
Total Average Electricity Price	7.13	7.06	6.93	6.77	6.92	6.77	6.55
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.50	1.71	1.70	1.69	2.00	1.88	1.79
Natural Gas	3.07	3.97	3.66	3.36	5.24	4.81	4.43
Oil	4.40	4.95	4.69	4.45	6.06	5.86	5.63
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	491.5	527.0	527.0	527.0	703.8	729.9	703.8
Natural Gas	521.6	772.6	712.7	637.6	848.6	809.1	729.2
Oil	136.6	182.5	152.6	135.1	169.7	177.3	160.9
Nonutility^j							
Coal	15.4	17.7	17.5	17.2	231.2	99.0	19.4
Natural Gas	167.9	219.3	219.1	219.0	233.0	221.9	221.2
Oil	4.1	5.1	5.1	5.0	5.9	5.8	5.6
Emissions (million tons) ^k							
Sulfur Dioxide	.2	.2	.2	.1	.2	.2	.2
Nitrogen Oxides	.4	.5	.5	.4	.6	.6	.5
Carbon Dioxide	129.0	162.1	154.3	147.0	217.1	201.2	181.0

- See footnotes at end of table.

**Table 60. Electric Power Data and Projections by Economic Growth Case
West Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Generating Capability (gigawatts) ¹							
Utility Capability							
Coal Steam	7.3	7.7	7.7	7.7	10.6	11.1	10.6
Other Fossil Steam ^m	24.6	22.9	22.9	22.9	21.6	21.6	21.6
Combined Cycle	1.4	1.7	1.7	1.7	4.0	2.1	2.1
Combustion Turbine/Diesel	3.8	4.7	4.7	4.7	5.8	5.2	5.2
Nuclear Power	8.6	8.1	8.1	8.1	8.1	8.1	8.1
Pumped Storage Hydroelectric	3.7	3.8	3.8	3.8	3.8	3.8	3.8
Renewable Sources/Other ^c	14.8	16.7	16.7	16.7	18.4	18.4	18.4
Total Utility Capability	64.2	65.8	65.8	65.8	72.3	70.3	69.8
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	.4	.8	.8	.8	3.7	3.7	3.7
Other Fossil Steam ^m	0	.1	.1	.1	.2	.2	.2
Combined Cycle	0	.3	.3	.3	.7	.7	.7
Combustion Turbine/Diesel	.0	1.1	1.1	1.1	1.5	1.5	1.5
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	.2	.2	.2	.2	.2	.2
Renewable Sources/Other ^c	0	.6	.6	.6	.6	.6	.6
Total (Announced)	.4	3.0	3.0	3.0	6.8	6.8	6.8
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	.0	.6	0
Combined Cycle	0	0	0	0	1.9	0	0
Combustion Turbine/Diesel	0	0	0	0	.6	0	0
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	1.4	1.3	1.3	3.0	3.0	3.0
Total (Not Announced)	.0	1.4	1.3	1.3	5.5	3.5	3.0
Total Utility Additions	.4	4.4	4.4	4.4	12.3	10.3	9.7
Cumulative Utility Retirements ^o	1.0	3.4	3.4	3.4	4.7	4.7	4.7
Nonutility Capability^p							
Coal	.5	.6	.6	.6	5.1	2.3	.6
Natural Gas	4.2	5.8	5.8	5.8	6.2	5.9	5.9
Oil	.1	.2	.1	.1	.2	.2	.2
Renewable Sources/Other ^c	4.8	9.3	9.1	9.0	14.5	14.3	14.1
Total Nonutility Capability	9.7	15.8	15.6	15.5	26.0	22.7	20.8
Cumulative Additions ⁿ	.0	6.1	6.0	5.9	16.3	13.0	11.1

- ^a Balancing item equaling net energy for load minus electricity sales.
^b Generation to meet system load, exclusive of net interregional transfers.
^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
^d Represents gross generation, net generation data are not reported.
^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
^g Includes the direct costs of fuel inputs used to generate electricity.
^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
^k Estimated emissions from utilities and independent power producers in millions of short tons.
^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
^m Includes oil-, gas-, and dual-fired steam capability.
ⁿ Cumulative additions after December 31, 1989.
^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
^p Represents nameplate capacity; net summer capability data are not reported.
- Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Economic Growth-Run HMA93.D091692C, Reference-Run AEO93B.D0918921, Low Economic Growth-Run LMAC93.D0916924.

**Table 61. Electric Power Data and Projections by Economic Growth Case
Northwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Demand (billion kilowatthours)							
Residential	51.5	62.5	61.1	60.0	73.4	69.9	66.5
Commercial/Other	41.0	51.8	51.4	51.0	58.3	57.1	56.2
Industrial	63.8	71.3	67.9	63.9	91.2	83.3	74.8
Total Sales	156.3	185.6	180.3	175.0	222.9	210.3	197.5
Nonutility Consumption of On-Site Generation	2.7	7.2	3.9	3.3	7.9	4.4	3.7
Total Electricity Demand	159.0	192.8	184.2	178.3	230.8	214.7	201.2
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	9.1	- .9	- .8	- 1.8	3.7	2.7	.3
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	1.2	5.6	5.6	5.6	7.9	7.9	7.9
Purchases from Nonutilities	1.4	13.1	5.8	2.5	14.5	7.2	3.8
Generation by Utilities	162.8	166.0	168.1	165.0	204.1	197.8	186.0
Total Net Energy for Load	165.3	184.7	179.6	173.1	226.6	213.0	197.8
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	9.0	10.5	10.6	10.5	38.4	32.1	22.4
Natural Gas	3.7	9.9	9.6	8.6	11.2	10.2	10.0
Oil	.4	2.9	4.8	3.3	3.5	4.5	2.7
Nuclear	11.8	6.5	6.9	6.5	14.8	14.8	14.8
Renewable Sources/Other ^c	137.9	136.1	136.1	136.1	136.2	136.2	136.1
Total Utility Generation	162.8	166.0	168.1	165.0	204.1	197.8	186.0
Nonutility Generation^d							
Coal	.2	.4	.4	.3	.6	.5	.5
Natural Gas	.7	11.1	4.9	1.0	11.4	5.1	1.2
Oil	.1	4.0	.2	.2	4.1	.2	.2
Renewable Sources/Other ^e	3.0	4.8	4.3	4.3	6.4	5.8	5.7
Total Nonutility Generation	4.1	20.4	9.7	5.8	22.4	11.6	7.5
Electricity Price (1991 cents per kilowatthour)^f							
End-Use Sectors							
Residential	4.94	6.49	6.40	6.17	6.89	6.62	6.23
Commercial/Other	4.79	5.57	5.48	5.26	6.02	5.71	5.24
Industrial	3.08	3.77	3.64	3.43	4.17	3.92	3.58
All Sectors Average	4.20	5.19	5.10	4.90	5.55	5.30	4.95
Price Components							
Capital ^g	2.12	2.38	2.45	2.43	2.41	2.33	2.15
Fuel ^h	.32	1.20	.98	.77	1.41	1.19	.99
Operation and Maintenance ^h	1.76	1.61	1.67	1.70	1.73	1.78	1.81
Total Average Electricity Price	4.20	5.19	5.10	4.90	5.55	5.30	4.95
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.55	1.43	1.43	1.43	1.60	1.61	1.58
Natural Gas	1.48	3.20	2.60	2.23	4.49	3.80	3.43
Oil	4.71	5.46	5.10	4.73	6.68	6.32	5.95
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	99.5	115.9	117.1	115.9	373.2	321.2	239.2
Natural Gas	43.4	117.4	115.3	106.5	123.1	117.2	113.3
Oil	4.4	38.1	63.0	43.3	46.0	58.3	35.3
Nonutility^j							
Coal	1.6	2.8	2.6	2.4	4.3	3.8	3.3
Natural Gas	4.4	78.2	29.4	6.4	79.9	30.6	7.3
Oil	1.0	24.2	1.3	1.3	24.4	1.5	1.4
Emissions (million tons) ^k							
Sulfur Dioxide	.1	.1	.1	.1	.1	.1	.0
Nitrogen Oxides	.1	.1	.1	.1	.2	.2	.1
Carbon Dioxide	22.5	30.0	32.0	29.7	62.2	56.8	44.9

- See footnotes at end of table.

**Table 61. Electric Power Data and Projections by Economic Growth Case
Northwest Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	1.9	2.4	2.4	2.4	7.4	6.3	4.7
Other Fossil Steam ^m	.1	0	0	0	0	0	0
Combined Cycle	.6	.9	.9	.6	1.5	1.1	1.1
Combustion Turbine/Diesel	1.8	1.8	2.2	1.8	2.6	2.7	2.0
Nuclear Power	2.2	1.1	1.1	1.1	2.3	2.3	2.3
Pumped Storage Hydroelectric	.3	.3	.3	.3	.3	.3	.3
Renewable Sources/Other ^c	32.4	32.7	32.7	32.7	32.7	32.7	32.7
Total Utility Capability	39.3	39.3	39.6	38.9	46.9	45.6	43.2
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	0	0	0	0	0	0
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	.0	.0	.0	.0	.0	.0	.0
Nuclear Power	0	0	0	0	1.2	1.2	1.2
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.0	.3	.3	.3	.3	.3	.3
Total (Announced)	.0	.3	.3	.3	1.5	1.5	1.5
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	.6	.6	.6	5.6	4.4	2.8
Combined Cycle	0	.3	.3	0	.9	.6	.6
Combustion Turbine/Diesel	0	.1	.4	0	.8	.9	.3
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.0	.0	.0	.0	.0	.0
Total (Not Announced)	.0	1.0	1.2	.6	7.3	6.0	3.6
Total Utility Additions	.0	1.3	1.5	.9	8.8	7.5	5.2
Cumulative Utility Retirements ^o	.0	1.3	1.3	1.3	1.3	1.3	1.3
Nonutility							
Capability^p							
Coal	.1	.1	.1	.1	.1	.1	.1
Natural Gas	.2	2.1	.9	.2	2.2	.9	.3
Oil	.0	.7	.1	.1	.7	.1	.1
Renewable Sources/Other ^c	.8	1.2	1.1	1.1	1.6	1.5	1.5
Total Nonutility Capability	1.0	4.2	2.1	1.5	4.7	2.6	1.9
Cumulative Additions ⁿ	.0	3.1	1.1	.4	3.6	1.6	.9

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of net interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity; net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Economic Growth--Run HMA93.D091692C, Reference--Run AEO93B.D0918921, Low Economic Growth--Run LMA93.D091692A.

**Table 62. Electric Power Data and Projections by Economic Growth Case
United States**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Demand (billion kilowatthours)							
Residential	924.0	1,067.0	1,047.4	1,033.2	1,225.6	1,176.2	1,124.4
Commercial/Other	843.0	1,008.9	1,003.0	998.4	1,161.3	1,143.9	1,127.9
Industrial	945.5	1,221.8	1,163.4	1,099.0	1,540.0	1,410.0	1,270.5
Total Sales	2,712.6	3,297.6	3,213.8	3,130.5	3,926.8	3,730.1	3,522.8
Nonutility Consumption of On-Site Generation							
.....	111.3	188.3	170.6	162.6	203.0	181.9	170.6
Total Electricity Demand	2,823.8	3,485.9	3,384.4	3,293.1	4,129.9	3,912.0	3,693.5
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) *							
.....	204.0	230.2	225.8	222.1	259.4	254.6	245.6
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	2.2	38.6	38.6	38.6	54.0	54.0	54.0
Purchases from Nonutilities	106.2	246.8	215.1	201.4	548.6	408.4	285.6
Generation by Utilities	2,808.2	3,242.3	3,185.9	3,112.6	3,583.6	3,522.4	3,428.8
Total Net Energy for Load	2,916.6	3,527.8	3,439.6	3,352.6	4,136.2	3,984.7	3,768.4
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	1,559.6	1,677.3	1,673.4	1,665.7	1,911.5	1,867.9	1,821.1
Natural Gas	264.1	451.6	418.1	375.4	534.3	517.1	474.8
Oil	117.0	152.5	137.4	115.1	149.7	160.9	157.7
Nuclear	576.9	635.9	632.7	632.3	647.2	636.1	636.1
Renewable Sources/Other ^c	290.6	325.0	324.2	324.1	341.0	340.3	339.2
Total Utility Generation	2,808.2	3,242.3	3,185.9	3,112.6	3,583.6	3,522.4	3,428.8
Nonutility Generation^d							
Coal	32.6	55.8	52.1	54.9	268.0	164.2	86.9
Natural Gas	99.6	205.8	180.8	159.8	252.1	217.8	169.2
Oil	5.4	17.4	11.4	11.3	18.2	12.0	11.8
Renewable Sources/Other ^c	79.9	156.1	141.5	138.0	213.4	196.2	188.3
Total Nonutility Generation	217.5	435.1	385.7	363.9	751.6	590.2	456.2
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	7.96	8.35	8.25	8.08	8.53	8.36	8.20
Commercial/Other	7.52	7.54	7.43	7.27	7.43	7.22	7.00
Industrial	5.03	5.30	5.19	5.08	5.57	5.39	5.21
All Sectors Average	6.80	6.97	6.89	6.77	7.04	6.89	6.74
Price Components							
Capital ^f	2.88	2.57	2.58	2.55	2.09	2.05	2.02
Fuel ^g	1.70	2.26	2.13	2.02	2.91	2.72	2.51
Operation and Maintenance ^h	2.23	2.14	2.17	2.20	2.04	2.12	2.21
Total Average Electricity Price	6.80	6.97	6.89	6.77	7.04	6.89	6.74
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.51	1.66	1.64	1.63	1.98	1.89	1.83
Natural Gas	2.41	3.49	3.18	2.89	4.92	4.47	3.98
Oil	3.50	4.14	4.05	3.92	5.46	5.36	5.23
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	16,096.0	17,393.6	17,353.5	17,272.3	19,468.9	19,088.0	18,699.7
Natural Gas	2,881.0	4,923.2	4,567.1	4,081.5	5,376.1	5,357.7	5,113.3
Oil	1,255.0	1,618.8	1,469.7	1,229.3	1,595.3	1,715.3	1,669.8
Nonutility^j							
Coal	230.1	404.4	368.1	398.0	2,121.4	1,256.4	650.4
Natural Gas	623.0	1,296.7	1,124.8	997.6	1,635.2	1,393.1	1,065.6
Oil	35.6	109.6	74.3	73.9	114.5	78.5	77.4
Emissions (million tons) ^k							
Sulfur Dioxide	16.2	9.8	9.8	9.9	9.1	8.9	8.9
Nitrogen Oxides	7.4	6.5	6.4	6.2	7.9	7.5	7.1
Carbon Dioxide	2,056.1	2,361.7	2,316.0	2,260.5	2,867.2	2,732.0	2,587.7

- See footnotes at end of table.

**Table 62. Electric Power Data and Projections by Economic Growth Case
United States (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	298.1	297.6	297.6	297.6	329.5	322.2	315.0
Other Fossil Steam ^m	143.8	130.9	130.9	130.9	120.2	120.2	120.2
Combined Cycle	5.7	15.6	14.1	13.8	45.4	35.4	23.4
Combustion Turbine/Diesel	46.4	70.0	68.6	66.0	82.5	80.1	76.9
Nuclear Power	99.6	102.6	101.4	101.4	104.8	102.4	102.4
Pumped Storage Hydroelectric	17.4	19.9	19.9	19.9	19.9	19.9	19.9
Renewable Sources/Other ^c	77.7	83.6	83.3	83.3	85.4	86.1	85.9
Total Utility Capability	688.6	720.1	715.8	712.9	788.6	766.3	743.8
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	2.9	12.4	12.4	12.4	19.1	19.1	19.1
Other Fossil Steam ^m	0	.7	.7	.7	.8	.8	.8
Combined Cycle	.1	8.3	8.3	8.3	9.8	9.8	9.8
Combustion Turbine/Diesel	.7	18.3	18.3	18.3	19.8	19.8	19.8
Nuclear Power	2.3	7.0	5.8	5.8	9.5	8.3	8.3
Pumped Storage Hydroelectric	0	2.5	2.5	2.5	2.5	2.5	2.5
Renewable Sources/Other ^c	.3	4.3	4.3	4.3	4.9	4.9	4.9
Total (Announced)	6.3	53.6	52.3	52.3	66.4	65.2	65.2
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	.6	.6	.6	31.7	24.4	17.2
Combined Cycle	0	1.7	.3	0	30.0	20.0	8.1
Combustion Turbine/Diesel	0	6.4	5.1	2.5	18.8	16.4	13.2
Nuclear Power	0	0	0	0	1.8	.6	.6
Renewable Sources/Other ^c	0	2.0	1.7	1.6	4.3	3.9	3.8
Total (Not Announced)	.0	10.7	7.6	4.7	86.5	65.4	42.9
Total Utility Additions	6.3	64.2	59.9	57.0	152.9	130.6	108.1
Cumulative Utility Retirements ^o	1.4	27.9	27.9	27.9	48.0	48.0	48.0
Nonutility							
Capability^p							
Coal	7.1	11.8	11.2	11.7	47.6	30.2	17.1
Natural Gas	19.3	39.2	34.4	30.7	48.7	42.0	32.6
Oil	.8	4.6	3.5	3.5	4.9	3.8	3.7
Renewable Sources/Other ^c	15.7	30.3	28.2	27.6	40.3	37.8	36.5
Total Nonutility Capability	43.0	85.8	77.3	73.5	141.5	113.8	90.0
Cumulative Additions ⁿ	.0	42.8	34.3	30.4	98.5	70.8	47.0

- ^a Balancing item equaling net energy for load minus electricity sales.
- ^b Generation to meet system load, exclusive of net interregional transfers.
- ^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
- ^d Represents gross generation, net generation data are not reported.
- ^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
- ^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
- ^g Includes the direct costs of fuel inputs used to generate electricity.
- ^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
- ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
- ^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
- ^k Estimated emissions from utilities and independent power producers in millions of short tons.
- ^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
- ^m Includes oil-, gas-, and dual-fired steam capability.
- ⁿ Cumulative additions after December 31, 1989.
- ^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
- ^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Economic Growth--Run HMA93.D091692C, Reference--Run AEO93B.D0918921, Low Economic Growth--Run LMA93.D0916924.

Electric Power Data and Projections by Oil and Gas Recovery Case

**Table 63. Electric Power Data and Projections by Oil and Gas Recovery Case
New England Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Demand (billion kilowatthours)							
Residential	37.5	43.9	43.9	44.0	49.0	49.5	49.8
Commercial/Other	39.6	44.9	44.9	44.9	50.0	49.9	49.9
Industrial	27.2	29.3	29.3	29.4	34.9	34.9	34.8
Total Sales	104.3	118.1	118.1	118.2	133.9	134.2	134.5
Nonutility Consumption of On-Site Generation	4.8	10.0	10.0	10.0	10.8	10.8	10.8
Total Electricity Demand	109.0	128.1	128.2	128.2	144.8	145.0	145.3
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	5.6	7.0	7.0	7.0	7.7	7.7	7.8
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	6.1	11.7	11.7	11.7	21.1	21.1	21.1
Purchases from Nonutilities	9.7	18.5	18.5	18.5	23.2	23.2	23.2
Generation by Utilities	94.1	94.9	95.0	95.0	97.4	97.7	98.0
Total Net Energy for Load	109.9	125.1	125.2	125.2	141.7	142.0	142.2
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	16.6	16.5	16.5	16.5	15.8	15.8	15.8
Natural Gas	6.3	6.4	6.4	5.8	6.2	6.2	5.6
Oil	27.7	27.0	27.0	27.7	30.1	30.3	31.2
Nuclear	37.4	39.7	39.7	39.7	39.5	39.5	39.5
Renewable Sources/Other ^c	6.1	5.3	5.3	5.3	5.8	5.8	5.8
Total Utility Generation	94.1	94.9	95.0	95.0	97.4	97.7	98.0
Nonutility Generation^d							
Coal	1.9	3.6	3.6	3.6	3.7	3.7	3.6
Natural Gas	1.4	7.9	7.9	7.9	8.0	8.0	8.0
Oil	1.6	2.2	2.2	2.2	2.3	2.3	2.3
Renewable Sources/Other ^c	9.5	14.8	14.8	14.8	20.1	20.1	20.1
Total Nonutility Generation	14.4	28.6	28.5	28.5	34.0	34.0	34.0
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	8.34	9.97	9.99	9.96	9.63	9.67	9.68
Commercial/Other	8.42	9.75	9.77	9.79	8.88	8.94	8.99
Industrial	6.12	6.98	7.00	7.01	7.02	7.07	7.11
All Sectors Average	7.82	9.14	9.16	9.16	8.67	8.73	8.76
Price Components							
Capital ^f	2.36	3.18	3.18	3.17	1.95	1.96	1.96
Fuel ^g	2.30	2.89	2.91	2.91	3.74	3.78	3.82
Operation and Maintenance ^h	3.16	3.07	3.07	3.08	2.98	2.98	2.98
Total Average Electricity Price	7.82	9.14	9.16	9.16	8.67	8.73	8.76
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.87	2.12	2.14	2.13	2.71	2.71	2.73
Natural Gas	2.49	3.37	3.53	3.52	4.19	4.70	4.94
Oil	2.96	3.64	3.64	3.65	5.09	5.09	5.10
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	164.9	163.6	163.6	163.6	156.5	156.5	156.5
Natural Gas	69.4	72.0	72.0	65.4	69.6	69.8	64.0
Oil	291.3	295.6	295.9	303.8	330.0	333.2	342.7
Nonutility^j							
Coal	13.6	25.4	25.4	25.4	25.8	25.8	25.8
Natural Gas	8.6	49.6	49.6	49.5	50.1	49.9	49.9
Oil	10.6	14.7	14.7	14.7	14.8	14.8	14.8
Emissions (million tons) ^k							
Sulfur Dioxide	.4	.3	.3	.3	.2	.2	.2
Nitrogen Oxides	.1	.1	.1	.1	.1	.1	.1
Carbon Dioxide	37.3	36.6	36.6	36.6	50.9	51.2	51.7

- See footnotes at end of table.

**Table 63. Electric Power Data and Projections by Oil and Gas Recovery Case
New England Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	2.7	2.4	2.4	2.4	2.3	2.3	2.3
Other Fossil Steam ^m	9.0	7.7	7.7	7.7	7.4	7.4	7.4
Combined Cycle	.4	.4	.4	.4	.4	.4	.4
Combustion Turbine/Diesel	1.4	1.7	1.7	1.7	1.9	2.0	2.0
Nuclear Power	6.6	6.4	6.4	6.4	6.4	6.4	6.4
Pumped Storage Hydroelectric	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Renewable Sources/Other ^c	1.7	1.8	1.8	1.8	2.0	2.0	2.0
Total Utility Capability	23.3	22.1	22.1	22.1	22.0	22.1	22.1
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	0	0	0	0	0	0
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	.0	.3	.3	.3	.3	.3	.3
Nuclear Power	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.0	.1	.1	.1	.1	.1	.1
Total (Announced)	1.2	1.6	1.6	1.6	1.6	1.6	1.6
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	0	0	0	0	.2	.3	.3
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.1	.1	.1	.2	.2	.2
Total (Not Announced)	.0	.1	.1	.1	.4	.5	.5
Total Utility Additions	1.2	1.6	1.6	1.6	2.0	2.1	2.1
Cumulative Utility Retirements ^o	.0	1.7	1.7	1.7	2.2	2.2	2.2
Nonutility							
Capability^p							
Coal	.4	.7	.7	.7	.7	.7	.7
Natural Gas	.8	2.0	2.0	2.0	2.0	2.0	2.0
Oil	.4	.7	.7	.7	.7	.7	.7
Renewable Sources/Other ^c	1.7	2.7	2.7	2.7	3.5	3.5	3.5
Total Nonutility Capability	3.2	6.1	6.1	6.1	7.0	7.0	7.0
Cumulative Additions ⁿ	.0	2.9	2.9	2.9	3.7	3.7	3.7

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of net interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report;" The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil and Gas Recovery--Run HGE093.D0916924, Reference--Run AEO93B.D0918921, Low Oil and Gas Recovery--Run LGEO93.D0918923.

**Table 64. Electric Power Data and Projections by Oil and Gas Recovery Case
New York/New Jersey Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Demand (billion kilowatthours)							
Residential	59.1	68.9	68.9	69.0	76.9	77.6	78.1
Commercial/Other	86.1	96.5	96.5	96.4	109.4	108.9	108.8
Industrial	47.0	50.4	50.5	50.5	61.0	60.9	60.8
Total Sales	192.2	215.8	215.8	215.9	247.4	247.3	247.7
Nonutility Consumption of On-Site Generation	3.2	16.5	16.5	16.5	17.9	17.9	17.9
Total Electricity Demand	195.3	232.4	232.4	232.4	265.3	265.2	265.6
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	-20.8	-11.2	-11.2	-11.2	-9.6	-9.6	-9.3
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	.5	12.7	12.7	12.7	13.0	13.0	13.0
Purchases from Nonutilities	5.7	28.9	28.9	28.9	38.7	38.7	35.4
Generation by Utilities	165.1	163.1	163.1	163.2	186.1	186.0	190.0
Total Net Energy for Load	171.4	204.6	204.6	204.7	237.8	237.8	238.4
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	31.7	25.5	25.5	25.5	25.7	25.7	25.7
Natural Gas	25.2	32.5	32.5	32.5	43.5	43.4	45.7
Oil	35.2	22.7	22.7	22.7	42.0	42.0	43.7
Nuclear	47.4	55.0	55.0	55.0	47.0	47.0	46.9
Renewable Sources/Other ^c	25.6	27.4	27.4	27.4	27.9	27.9	27.9
Total Utility Generation	165.1	163.1	163.1	163.2	186.1	186.0	190.0
Nonutility Generation^d							
Coal	1.4	6.2	6.2	6.2	9.7	9.7	6.4
Natural Gas	3.9	25.5	25.5	25.5	25.7	25.7	25.7
Oil	.5	2.8	2.8	2.8	2.9	2.9	2.9
Renewable Sources/Other ^c	3.1	10.9	10.9	10.9	18.4	18.4	18.4
Total Nonutility Generation	8.9	45.4	45.4	45.4	56.6	56.6	53.3
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	10.69	9.72	9.76	9.81	9.84	10.00	10.29
Commercial/Other	10.11	9.64	9.69	9.77	9.38	9.55	9.88
Industrial	4.85	5.01	5.06	5.11	5.68	5.84	6.09
All Sectors Average	9.04	8.58	8.63	8.69	8.61	8.78	9.08
Price Components							
Capital ^f	3.78	3.13	3.14	3.15	2.22	2.25	2.29
Fuel ^g	2.47	2.80	2.84	2.90	3.78	3.91	4.15
Operation and Maintenance ^h	2.80	2.65	2.65	2.65	2.61	2.61	2.63
Total Average Electricity Price	9.04	8.58	8.63	8.69	8.61	8.78	9.08
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.71	1.85	1.86	1.85	2.13	2.16	2.17
Natural Gas	2.44	3.36	3.52	3.78	4.14	4.65	5.37
Oil	3.73	4.13	4.13	4.13	5.45	5.45	5.47
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	329.6	271.6	271.6	271.6	273.8	273.8	274.1
Natural Gas	279.8	336.9	337.0	337.2	476.7	476.5	509.2
Oil	367.2	239.1	239.2	239.8	445.2	445.0	464.7
Nonutility^j							
Coal	9.6	44.0	44.1	44.1	71.4	71.4	45.1
Natural Gas	24.3	159.5	159.4	159.4	160.9	160.8	160.7
Oil	3.6	18.5	18.5	18.5	18.7	18.7	18.7
Emissions (million tons) ^k							
Sulfur Dioxide	.5	.3	.3	.3	.3	.3	.3
Nitrogen Oxides	.2	.2	.2	.2	.3	.3	.3
Carbon Dioxide	84.4	74.1	74.1	74.1	109.9	109.9	110.9

- See footnotes at end of table.

**Table 64. Electric Power Data and Projections by Oil and Gas Recovery Case
New York/New Jersey Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	5.5	4.4	4.4	4.4	4.2	4.2	4.2
Other Fossil Steam ^m	16.6	14.5	14.5	14.5	14.2	14.2	14.2
Combined Cycle	.2	1.8	1.8	1.8	2.0	2.0	2.0
Combustion Turbine/Diesel	8.1	9.1	9.1	9.1	9.1	9.1	9.1
Nuclear Power	8.7	8.7	8.7	8.7	7.5	7.5	7.5
Pumped Storage Hydroelectric	1.6	1.7	1.7	1.7	1.7	1.7	1.7
Renewable Sources/Other ^c	3.9	4.3	4.3	4.3	4.3	4.3	4.3
Total Utility Capability	44.7	44.5	44.5	44.5	43.0	43.0	43.0
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	0	0	0	0	0	0
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	1.6	1.6	1.6	1.8	1.8	1.8
Combustion Turbine/Diesel	.1	1.2	1.2	1.2	1.2	1.2	1.2
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	.1	.1	.1	.1	.1	.1
Renewable Sources/Other ^c	.0	.4	.4	.4	.5	.5	.5
Total (Announced)	.1	3.2	3.2	3.2	3.5	3.5	3.5
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	0	0	0	0	0	0	0
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	0	0	0	0	0	0
Total (Not Announced)	.0	.0	.0	.0	.0	.0	.0
Total Utility Additions	.1	3.2	3.2	3.2	3.5	3.5	3.5
Cumulative Utility Retirements ^o	.0	3.3	3.3	3.3	5.1	5.1	5.1
Nonutility							
Capability^p							
Coal	.3	1.3	1.3	1.3	1.9	1.9	1.3
Natural Gas	.9	5.0	5.0	5.0	5.0	5.0	5.0
Oil	.1	1.1	1.1	1.1	1.2	1.2	1.2
Renewable Sources/Other ^c	.6	2.1	2.1	2.1	3.3	3.3	3.3
Total Nonutility Capability	1.9	9.5	9.5	9.5	11.4	11.4	10.8
Cumulative Additions ⁿ	.0	7.7	7.7	7.7	9.5	9.5	8.9

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of net interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil and Gas Recovery--Run HGE093.D0916924, Reference--Run AEO93B.D0918921, Low Oil and Gas Recovery--Run LGE093.D0918923.

**Table 65. Electric Power Data and Projections by Oil and Gas Recovery Case
Mid-Atlantic Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Demand (billion kilowatthours)							
Residential	97.1	108.9	108.9	108.9	122.1	122.7	123.0
Commercial/Other	82.7	96.9	96.9	96.8	110.1	110.3	110.2
Industrial	98.4	115.8	115.9	116.0	136.9	136.8	136.7
Total Sales	278.2	321.5	321.7	321.8	369.0	369.7	369.8
Nonutility Consumption of On-Site Generation	8.5	18.2	18.2	18.1	19.6	19.5	19.5
Total Electricity Demand	286.7	339.7	339.8	339.9	388.6	389.3	389.4
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	60.3	55.5	55.5	55.5	58.5	58.6	57.9
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	0	0	0	0	0	0	0
Purchases from Nonutilities	9.3	22.1	22.1	22.1	32.8	32.8	37.4
Generation by Utilities	329.2	355.0	355.1	355.2	394.7	395.5	390.4
Total Net Energy for Load	338.5	377.0	377.2	377.3	427.5	428.3	427.7
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	227.8	241.6	241.7	241.7	261.8	261.9	269.4
Natural Gas	3.0	6.2	6.2	6.2	24.6	25.6	13.9
Oil	10.6	18.2	18.3	18.4	19.1	18.8	17.9
Nuclear	82.9	86.7	86.7	86.7	86.3	86.3	86.3
Renewable Sources/Other ^c	4.9	2.2	2.2	2.2	2.9	2.9	2.8
Total Utility Generation	329.2	355.0	355.1	355.2	394.7	395.5	390.4
Nonutility Generation^d							
Coal	7.2	12.6	12.6	12.6	12.8	12.8	22.7
Natural Gas	2.5	8.5	8.5	8.5	14.2	14.2	8.8
Oil	1.1	2.5	2.5	2.5	2.5	2.6	2.6
Renewable Sources/Other ^c	7.0	16.6	16.6	16.6	22.8	22.8	22.8
Total Nonutility Generation	17.8	40.2	40.2	40.2	52.4	52.3	56.9
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	8.21	8.82	8.83	8.83	8.46	8.49	8.54
Commercial/Other	7.68	7.74	7.75	7.76	7.02	7.07	7.15
Industrial	5.35	5.59	5.61	5.61	5.42	5.47	5.53
All Sectors Average	7.03	7.33	7.34	7.34	6.90	6.95	7.01
Price Components							
Capital ^f	3.27	3.04	3.04	3.04	2.16	2.17	2.22
Fuel ^g	1.43	1.98	2.00	1.99	2.47	2.51	2.52
Operation and Maintenance ^h	2.33	2.31	2.31	2.31	2.27	2.27	2.27
Total Average Electricity Price	7.03	7.33	7.34	7.34	6.90	6.95	7.01
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.58	1.66	1.69	1.67	1.89	1.93	1.94
Natural Gas	2.60	3.85	3.99	4.12	4.79	5.29	5.88
Oil	3.51	4.07	4.07	4.07	5.31	5.31	5.33
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	2,247.8	2,464.9	2,465.4	2,465.8	2,637.7	2,638.7	2,715.9
Natural Gas	39.1	57.3	57.3	57.2	196.5	202.8	116.1
Oil	130.0	184.9	185.8	186.8	193.3	190.2	181.0
Nonutility^j							
Coal	50.7	89.4	89.4	89.4	90.6	90.6	190.5
Natural Gas	15.8	53.1	53.1	53.0	94.7	94.4	55.3
Oil	7.0	16.3	16.3	16.3	16.7	16.7	16.7
Emissions (million tons) ^k							
Sulfur Dioxide	2.6	2.1	2.0	2.1	2.0	1.9	1.9
Nitrogen Oxides	.9	.6	.6	.6	.7	.7	.7
Carbon Dioxide	254.1	281.3	281.4	281.5	313.8	314.0	324.1

- See footnotes at end of table.

**Table 65. Electric Power Data and Projections by Oil and Gas Recovery Case
Mid-Atlantic Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	40.5	40.5	40.5	40.5	42.9	42.9	44.6
Other Fossil Steam ^m	9.5	8.1	8.1	8.1	7.4	7.4	7.4
Combined Cycle	.3	1.4	1.4	1.4	5.6	5.9	3.4
Combustion Turbine/Diesel	4.5	4.9	4.9	4.9	5.7	5.6	5.9
Nuclear Power	13.8	13.8	13.8	13.8	13.8	13.8	13.8
Pumped Storage Hydroelectric	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Renewable Sources/Other ^e	2.1	2.7	2.7	2.7	2.8	2.8	2.8
Total Utility Capability	74.2	74.9	74.9	74.9	81.8	82.0	81.4
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	1.7	1.7	1.7	1.7	1.7	1.7
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	.1	1.2	1.2	1.2	1.6	1.6	1.6
Combustion Turbine/Diesel	.4	.8	.8	.8	1.0	1.0	1.0
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^e	.1	.6	.6	.6	.7	.7	.7
Total (Announced)	.6	4.4	4.4	4.4	5.0	5.0	5.0
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	2.8	2.8	4.4
Combined Cycle	0	0	0	0	3.9	4.2	1.7
Combustion Turbine/Diesel	0	0	0	0	.6	.5	.8
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^e	0	.1	.1	.1	.1	.1	.1
Total (Not Announced)	.0	.1	.1	.1	7.3	7.5	7.0
Total Utility Additions	.6	4.5	4.5	4.5	12.3	12.6	12.0
Cumulative Utility Retirements ^o	.0	3.2	3.2	3.2	4.2	4.2	4.2
Nonutility							
Capability^p							
Coal	1.4	2.5	2.5	2.5	2.6	2.6	4.2
Natural Gas	.8	1.9	1.9	1.9	3.1	3.1	2.0
Oil	.1	.8	.8	.8	.8	.8	.8
Renewable Sources/Other ^e	1.7	3.6	3.6	3.6	4.6	4.6	4.6
Total Nonutility Capability	4.0	8.8	8.8	8.8	11.0	11.0	11.6
Cumulative Additions ⁿ	.0	4.8	4.8	4.8	7.0	7.0	7.6

- ^a Balancing item equaling net energy for load minus electricity sales.
- ^b Generation to meet system load, exclusive of net interregional transfers.
- ^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
- ^d Represents gross generation, net generation data are not reported.
- ^e Prices are from model simulations and represent average revenue per kilowatt-hour of demand over all customer classes.
- ^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
- ^g Includes the direct costs of fuel inputs used to generate electricity.
- ^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
- ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
- ^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
- ^k Estimated emissions from utilities and independent power producers in millions of short tons.
- ^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
- ^m Includes oil-, gas-, and dual-fired steam capability.
- ⁿ Cumulative additions after December 31, 1989.
- ^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
- ^p Represents nameplate capacity; net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil and Gas Recovery--Run HGE093.D0916924, Reference--Run AEO93B.D0918921, Low Oil and Gas Recovery--Run LGE093.D0918923.

**Table 66. Electric Power Data and Projections by Oil and Gas Recovery Case
South Atlantic Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Demand (billion kilowatthours)							
Residential	231.0	258.2	258.1	257.9	289.1	289.9	289.8
Commercial/Other	161.6	201.6	201.6	201.5	234.1	234.4	234.0
Industrial	207.2	245.2	245.6	246.0	294.0	294.1	294.3
Total Sales	599.9	705.0	705.3	705.4	817.2	818.4	818.0
Nonutility Consumption of On-Site Generation	20.7	28.9	28.9	28.9	31.8	31.7	31.7
Total Electricity Demand	620.6	733.9	734.2	734.3	849.0	850.1	849.7
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	23.6	31.5	31.5	31.5	36.7	36.8	36.3
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	0	0	0	0	0	0	0
Purchases from Nonutilities	6.3	16.3	16.3	16.2	52.3	52.3	53.6
Generation by Utilities	617.2	720.2	720.5	720.7	801.5	802.8	800.7
Total Net Energy for Load	623.5	736.4	736.7	736.9	853.8	855.1	854.3
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	379.6	410.3	410.3	410.3	460.1	460.1	473.5
Natural Gas	24.4	55.7	55.8	55.8	76.0	76.5	61.8
Oil	26.6	38.7	38.9	38.9	38.9	39.7	39.0
Nuclear	148.8	181.0	181.0	181.0	191.8	191.8	191.8
Renewable Sources/Other ^c	37.8	34.5	34.5	34.6	34.8	34.8	34.7
Total Utility Generation	617.2	720.2	720.5	720.7	801.5	802.8	800.7
Nonutility Generation^d							
Coal	7.8	10.9	10.9	10.9	38.1	38.1	44.7
Natural Gas	2.6	8.1	8.1	8.1	14.6	14.5	9.1
Oil	.9	1.8	1.8	1.8	1.9	1.9	1.9
Renewable Sources/Other ^e	15.7	24.4	24.4	24.4	29.4	29.4	29.4
Total Nonutility Generation	27.0	45.2	45.2	45.1	84.2	84.1	85.3
Electricity Price (1991 cents per kilowatthour)^f							
End-Use Sectors							
Residential	7.61	6.99	7.00	7.02	7.01	7.08	7.17
Commercial/Other	7.16	6.63	6.64	6.67	6.46	6.53	6.63
Industrial	5.00	4.95	4.97	4.99	5.09	5.16	5.24
All Sectors Average	6.61	6.18	6.19	6.21	6.16	6.23	6.32
Price Components							
Capital ^g	2.93	2.14	2.14	2.14	1.70	1.70	1.73
Fuel ^h	1.51	1.85	1.87	1.88	2.32	2.38	2.43
Operation and Maintenance ^h	2.17	2.19	2.19	2.19	2.15	2.14	2.16
Total Average Electricity Price	6.61	6.18	6.19	6.21	6.16	6.23	6.32
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.67	1.79	1.80	1.79	2.09	2.11	2.13
Natural Gas	2.41	3.03	3.19	3.44	4.00	4.48	5.10
Oil	3.17	3.68	3.68	3.68	5.03	5.03	5.03
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	3,779.3	4,148.5	4,148.5	4,148.6	4,555.7	4,555.5	4,692.5
Natural Gas	276.1	580.2	581.5	582.3	750.4	756.4	648.2
Oil	272.5	393.8	395.8	396.7	397.4	405.9	397.4
Nonutility^j							
Coal	54.8	77.1	77.1	77.1	292.8	292.7	359.2
Natural Gas	16.2	50.8	50.6	50.5	97.1	96.6	57.2
Oil	6.1	11.6	11.6	11.6	12.7	12.7	12.7
Emissions (million tons) ^k							
Sulfur Dioxide	4.0	2.6	2.6	2.6	2.3	2.4	2.4
Nitrogen Oxides	1.6	1.3	1.3	1.3	1.6	1.6	1.6
Carbon Dioxide	434.4	498.3	498.5	498.6	589.8	590.9	602.5

- See footnotes at end of table.

**Table 66. Electric Power Data and Projections by Oil and Gas Recovery Case
South Atlantic Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	76.8	76.9	76.9	76.9	83.1	83.1	85.4
Other Fossil Steam ^m	17.9	15.8	15.8	15.8	14.2	14.2	14.2
Combined Cycle	.8	4.0	4.0	4.0	7.4	7.4	4.6
Combustion Turbine/Diesel	10.0	15.4	15.4	15.4	15.2	15.5	16.0
Nuclear Power	26.8	29.1	29.1	29.1	30.9	30.9	30.9
Pumped Storage Hydroelectric	3.2	5.5	5.5	5.5	5.5	5.5	5.5
Renewable Sources/Other ^c	11.3	12.1	12.1	12.1	12.2	12.2	12.2
Total Utility Capability	146.8	158.8	158.8	158.8	168.5	168.8	168.7
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	1.2	3.1	3.1	3.1	3.1	3.1	3.1
Other Fossil Steam ^m	0	.0	.0	.0	.0	.0	.0
Combined Cycle	0	3.2	3.2	3.2	3.2	3.2	3.2
Combustion Turbine/Diesel	0	5.6	5.6	5.6	6.0	6.0	6.0
Nuclear Power	0	2.3	2.3	2.3	3.6	3.6	3.6
Pumped Storage Hydroelectric	0	2.2	2.2	2.2	2.2	2.2	2.2
Renewable Sources/Other ^c	0	.7	.7	.7	.8	.8	.8
Total (Announced)	1.2	17.2	17.2	17.2	19.0	19.0	19.0
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	8.3	8.3	10.6
Combined Cycle	0	0	0	0	3.3	3.3	.6
Combustion Turbine/Diesel	0	0	0	0	.6	.9	1.3
Nuclear Power	0	0	0	0	.6	.6	.6
Renewable Sources/Other ^c	0	.0	.0	.0	.1	.1	.1
Total (Not Announced)	.0	.0	.0	.0	12.9	13.2	13.1
Total Utility Additions	1.2	17.3	17.3	17.3	31.9	32.2	32.1
Cumulative Utility Retirements ^o	.1	4.2	4.2	4.2	9.0	9.0	9.0
Nonutility							
Capability^p							
Coal	1.2	1.8	1.8	1.8	6.4	6.4	7.5
Natural Gas	.6	1.6	1.6	1.6	3.0	2.9	1.8
Oil	0	.4	.4	.4	.5	.5	.5
Renewable Sources/Other ^c	3.2	4.8	4.8	4.8	5.4	5.4	5.4
Total Nonutility Capability	5.0	8.7	8.6	8.6	15.3	15.3	15.2
Cumulative Additions ⁿ	.0	3.6	3.6	3.6	10.3	10.3	10.2

- ^a Balancing item equaling net energy for load minus electricity sales.
^b Generation to meet system load, exclusive of net interregional transfers.
^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
^d Represents gross generation; net generation data are not reported.
^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
^g Includes the direct costs of fuel inputs used to generate electricity.
^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
^k Estimated emissions from utilities and independent power producers in millions of short tons.
^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
^m Includes oil-, gas-, and dual-fired steam capability.
ⁿ Cumulative additions after December 31, 1989.
^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
^p Represents nameplate capacity; net summer capability data are not reported.
- Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement," net capability, Form EIA-860, "Annual Electric Generator Report," generation (preliminary), Form EIA-759, "Monthly Power Plant Report," delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil and Gas Recovery--Run HGE093.D0916924, Reference--Run AEO93B.D0918921, Low Oil and Gas Recovery--Run LGE093.D0918923.

**Table 67. Electric Power Data and Projections by Oil and Gas Recovery Case
Midwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Demand (billion kilowatthours)							
Residential	149.4	166.2	166.2	166.1	181.1	182.6	183.6
Commercial/Other	134.6	155.8	155.9	155.8	167.3	168.9	169.9
Industrial	222.7	284.3	285.0	285.0	348.7	348.7	348.0
Total Sales	506.8	606.2	607.1	607.0	697.1	700.2	701.4
Nonutility Consumption of On-Site Generation	14.9	24.9	23.3	23.2	26.8	25.1	25.0
Total Electricity Demand	521.7	631.2	630.4	630.2	724.0	725.3	726.4
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	17.0	25.7	25.9	25.4	30.2	29.8	28.2
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	-10.8	3.1	3.1	3.1	3.0	3.0	3.0
Purchases from Nonutilities	7.2	26.8	25.1	30.9	68.5	76.0	94.8
Generation by Utilities	527.4	602.0	604.8	598.4	655.9	651.0	631.8
Total Net Energy for Load	523.8	631.9	633.0	632.4	727.3	730.0	729.6
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	389.9	419.1	419.8	417.8	441.3	445.8	456.3
Natural Gas	2.6	35.5	36.7	34.4	74.0	66.3	36.5
Oil	2.6	4.3	5.1	3.2	3.2	1.5	1.7
Nuclear	127.5	136.0	136.0	136.0	129.0	129.0	129.0
Renewable Sources/Other ^c	4.8	7.1	7.1	7.1	8.3	8.3	8.3
Total Utility Generation	527.4	602.0	604.8	598.4	655.9	651.0	631.8
Nonutility Generation^d							
Coal	6.1	7.3	7.3	13.9	27.8	41.0	74.1
Natural Gas	8.7	32.7	29.3	28.3	52.1	44.6	30.3
Oil	.4	.8	.8	.8	.8	.8	.9
Renewable Sources/Other ^e	6.9	11.1	11.1	11.1	14.6	14.6	14.6
Total Nonutility Generation	22.2	51.8	48.4	54.1	95.3	101.1	119.8
Electricity Price (1991 cents per kilowatthour)^f							
End-Use Sectors							
Residential	8.68	9.52	9.56	9.63	9.56	9.54	9.58
Commercial/Other	7.52	7.43	7.47	7.53	7.13	7.16	7.26
Industrial	5.17	5.28	5.32	5.37	5.37	5.43	5.53
All Sectors Average	6.84	6.99	7.03	7.09	6.88	6.92	7.01
Price Components							
Capital ^g	2.97	2.81	2.81	2.83	2.23	2.20	2.21
Fuel ^h	1.56	1.96	2.00	2.05	2.51	2.58	2.68
Operation and Maintenance ⁱ	2.31	2.22	2.23	2.22	2.14	2.13	2.12
Total Average Electricity Price	6.84	6.99	7.03	7.09	6.88	6.92	7.01
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.54	1.71	1.71	1.71	1.93	1.93	1.95
Natural Gas	2.63	2.91	3.07	3.27	4.19	4.56	4.99
Oil	4.02	4.73	4.68	4.79	5.77	6.10	6.16
Fuel Consumption (trillion Btu)							
Utility ^j							
Coal	4,070.4	4,381.0	4,388.4	4,367.5	4,591.2	4,624.4	4,723.7
Natural Gas	48.4	495.0	512.1	478.1	755.6	738.4	479.6
Oil	39.1	58.2	68.6	42.8	42.7	20.4	21.1
Nonutility^k							
Coal	43.2	51.4	51.4	118.1	213.8	318.9	644.9
Natural Gas	54.7	196.9	178.2	162.9	340.0	291.6	177.4
Oil	2.5	4.9	4.9	4.9	5.5	5.5	5.6
Emissions (million tons) ^l							
Sulfur Dioxide	5.5	2.4	2.4	2.4	2.3	2.2	2.3
Nitrogen Oxides	1.9	1.6	1.6	1.6	1.8	1.8	1.9
Carbon Dioxide	438.1	499.0	501.8	500.6	560.3	570.3	592.0

- See footnotes at end of table.

**Table 67. Electric Power Data and Projections by Oil and Gas Recovery Case
Midwest Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	82.8	78.9	78.9	78.9	78.9	80.0	83.9
Other Fossil Steam ^m	7.1	5.7	5.7	5.7	5.0	5.0	5.0
Combined Cycle	.1	.2	.2	.2	10.8	7.2	1.1
Combustion Turbine/Diesel	7.1	13.9	14.2	14.4	17.3	19.2	19.3
Nuclear Power	21.6	21.6	21.6	21.6	20.8	20.8	20.8
Pumped Storage Hydroelectric	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Renewable Sources/Other ^c	1.6	1.8	1.8	1.8	2.1	2.1	2.1
Total Utility Capability	122.4	124.1	124.4	124.5	136.8	136.2	134.1
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	1.3	1.8	1.8	1.8	2.0	2.0	2.0
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	.0	.0	.0	.1	.1	.1
Combustion Turbine/Diesel	0	5.9	5.9	5.9	6.0	6.0	6.0
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.1	.1	.1	.1	.1	.1	.1
Total (Announced)	1.4	7.9	7.9	7.9	8.2	8.2	8.2
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	1.7	2.8	6.7
Combined Cycle	0	.0	.0	.0	10.6	6.9	.8
Combustion Turbine/Diesel	0	.9	1.2	1.3	4.2	6.1	6.2
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.1	.1	.1	.5	.5	.5
Total (Not Announced)	.0	1.0	1.3	1.5	16.9	16.2	14.1
Total Utility Additions	1.4	8.9	9.2	9.4	25.1	24.4	22.3
Cumulative Utility Retirements ^o	.3	6.1	6.1	6.1	9.5	9.5	9.5
Nonutility							
Capability^p							
Coal	1.9	2.2	2.2	3.3	5.6	7.9	13.4
Natural Gas	2.4	6.6	6.1	5.8	10.6	9.2	6.2
Oil	.1	.2	.2	.2	.3	.3	.3
Renewable Sources/Other ^c	1.2	1.8	1.8	1.8	2.2	2.2	2.2
Total Nonutility Capability	5.6	10.8	10.3	11.1	18.8	19.6	22.1
Cumulative Additions ⁿ	.0	5.3	4.7	5.5	13.2	14.0	16.5

- ^a Balancing item equaling net energy for load minus electricity sales.
^b Generation to meet system load, exclusive of net interregional transfers.
^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
^d Represents gross generation, net generation data are not reported.
^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
^g Includes the direct costs of fuel inputs used to generate electricity.
^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
^k Estimated emissions from utilities and independent power producers in millions of short tons.
^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
^m Includes oil-, gas-, and dual-fired steam capability.
ⁿ Cumulative additions after December 31, 1989.
^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
^p Represents nameplate capacity, net summer capability data are not reported.
- Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil and Gas Recovery--Run HGE093.D0916924, Reference--Run AEO93B.D0918921, Low Oil and Gas Recovery--Run LGEO93.D0918923.

**Table 68. Electric Power Data and Projections by Oil and Gas Recovery Case
Southwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Demand (billion kilowatthours)							
Residential	135.2	148.0	148.0	147.9	162.5	162.9	162.9
Commercial/Other	113.5	132.0	132.0	131.9	148.4	148.6	148.4
Industrial	136.3	180.4	180.6	181.0	219.1	219.2	219.3
Total Sales	384.9	460.4	460.7	460.8	530.0	530.7	530.5
Nonutility Consumption of On-Site Generation	44.3	47.9	47.8	47.8	48.5	48.5	49.0
Total Electricity Demand	429.2	508.3	508.5	508.6	578.6	579.2	579.5
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	42.8	44.7	44.7	44.7	48.0	46.8	46.4
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	0	-1.0	-1.0	-1.0	-1.9	-1.9	-1.9
Purchases from Nonutilities	24.9	28.1	28.1	28.1	54.5	70.3	74.9
Generation by Utilities	402.8	478.0	478.3	478.4	525.3	509.1	503.9
Total Net Energy for Load	427.8	505.1	505.3	505.5	578.0	577.6	577.0
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	206.3	227.9	227.9	227.9	248.8	265.5	272.1
Natural Gas	145.7	184.2	184.4	184.5	210.1	177.3	165.6
Oil	.8	3.4	3.4	3.4	3.1	3.0	2.9
Nuclear	41.3	52.5	52.5	52.5	52.8	52.8	52.8
Renewable Sources/Other ^c	8.7	10.0	10.0	10.0	10.5	10.6	10.6
Total Utility Generation	402.8	478.0	478.3	478.4	525.3	509.1	503.9
Nonutility Generation^d							
Coal	4.6	5.0	5.0	5.0	15.3	41.8	48.4
Natural Gas	51.5	57.1	57.0	57.0	73.4	62.6	61.1
Oil	.1	.2	.2	.2	.3	.3	.3
Renewable Sources/Other ^e	13.0	13.6	13.6	13.6	14.1	14.1	14.1
Total Nonutility Generation	69.2	75.9	75.9	75.8	103.1	118.8	123.9
Electricity Price (1991 cents per kilowatthour)^f							
End-Use Sectors							
Residential	7.86	8.60	8.67	8.77	9.05	9.15	9.47
Commercial/Other	6.96	7.26	7.32	7.43	7.35	7.47	7.78
Industrial	4.63	4.94	4.99	5.10	5.33	5.46	5.74
All Sectors Average	6.41	6.78	6.84	6.95	7.04	7.15	7.45
Price Components							
Capital ^g	2.50	2.58	2.58	2.59	2.28	2.29	2.32
Fuel ^h	2.13	2.40	2.45	2.56	2.96	3.09	3.36
Operation and Maintenance ⁱ	1.77	1.80	1.80	1.80	1.79	1.78	1.77
Total Average Electricity Price	6.41	6.78	6.84	6.95	7.04	7.15	7.45
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.52	1.72	1.69	1.69	1.99	1.97	2.05
Natural Gas	2.18	2.82	2.98	3.23	3.78	4.17	4.87
Oil	4.87	4.07	4.07	4.07	5.14	5.14	5.46
Fuel Consumption (trillion Btu)							
Utility ^j							
Coal	2,211.1	2,359.6	2,359.6	2,359.6	2,566.8	2,701.7	2,769.5
Natural Gas	1,558.9	1,932.5	1,934.8	1,936.4	2,071.1	1,810.4	1,714.7
Oil	8.9	37.5	37.6	37.6	33.9	32.4	31.8
Nonutility^j							
Coal	32.5	35.1	35.2	35.2	116.6	327.0	393.8
Natural Gas	322.3	357.3	356.8	356.7	475.9	397.2	378.3
Oil	.5	1.4	1.4	1.4	1.9	1.9	1.9
Emissions (million tons) ^k							
Sulfur Dioxide	1.0	.7	.7	.7	.7	.7	.7
Nitrogen Oxides	1.1	1.0	1.0	1.0	1.2	1.2	1.2
Carbon Dioxide	363.0	407.9	408.1	408.1	462.0	479.0	486.1

- See footnotes at end of table.

**Table 68. Electric Power Data and Projections by Oil and Gas Recovery Case
Southwest Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Generating Capability (gigawatts) ¹							
Utility Capability							
Coal Steam	34.4	37.6	37.6	37.6	40.6	43.4	44.5
Other Fossil Steam ^m	55.9	54.1	54.1	54.1	49.4	49.4	49.4
Combined Cycle	1.7	3.5	3.5	3.5	11.2	6.2	4.5
Combustion Turbine/Diesel	3.5	4.8	4.8	4.8	5.6	5.8	5.8
Nuclear Power	7.4	8.5	8.5	8.5	8.5	8.5	8.5
Pumped Storage Hydroelectric	.3	.3	.3	.3	.3	.3	.3
Renewable Sources/Other ^c	3.0	4.0	4.0	4.0	4.2	4.2	4.2
Total Utility Capability	106.2	112.7	112.7	112.7	119.8	117.8	117.2
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	3.2	3.2	3.2	5.6	5.6	5.6
Other Fossil Steam ^m	0	.6	.6	.6	.7	.7	.7
Combined Cycle	0	1.8	1.8	1.8	2.3	2.3	2.3
Combustion Turbine/Diesel	0	1.3	1.3	1.3	1.7	1.7	1.7
Nuclear Power	1.1	2.3	2.3	2.3	2.3	2.3	2.3
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.1	1.2	1.2	1.2	1.3	1.3	1.3
Total (Announced)	1.3	10.3	10.3	10.3	13.9	13.9	13.9
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	.6	3.3	4.4
Combined Cycle	0	0	0	0	7.2	2.2	.6
Combustion Turbine/Diesel	0	0	0	0	.6	.8	.7
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	0	0	0	0	0	0
Total (Not Announced)	.0	.0	.0	.0	8.4	6.3	5.7
Total Utility Additions	1.3	10.3	10.3	10.3	22.3	20.3	19.7
Cumulative Utility Retirements ^o	.1	2.5	2.5	2.5	7.4	7.4	7.4
Nonutility Capability^p							
Coal	1.1	1.2	1.2	1.2	2.9	7.4	8.5
Natural Gas	9.2	10.2	10.2	10.2	13.6	11.4	10.9
Oil	0	.1	.1	.1	.1	.1	.1
Renewable Sources/Other ^c	1.5	1.7	1.7	1.7	1.7	1.7	1.7
Total Nonutility Capability	11.8	13.1	13.1	13.1	18.3	20.5	21.2
Cumulative Additions ⁿ	.0	1.3	1.3	1.3	6.5	8.7	9.4

- ^a Balancing item equaling net energy for load minus electricity sales.
^b Generation to meet system load, exclusive of net interregional transfers.
^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
^d Represents gross generation, net generation data are not reported.
^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
^g Includes the direct costs of fuel inputs used to generate electricity.
^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
^k Estimated emissions from utilities and independent power producers in millions of short tons.
^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
^m Includes oil-, gas-, and dual-fired steam capability.
ⁿ Cumulative additions after December 31, 1989.
^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil and Gas Recovery--Run HGE093.D0916924, Reference--Run AEO93B.D0918921, Low Oil and Gas Recovery--Run LGEO93.D0918923.

**Table 69. Electric Power Data and Projections by Oil and Gas Recovery Case
Central Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Demand (billion kilowatthours)							
Residential	48.5	54.0	54.0	54.0	58.4	58.9	59.2
Commercial/Other	42.9	49.2	49.2	49.2	52.7	53.2	53.5
Industrial	37.0	53.2	53.3	53.3	64.7	64.7	64.5
Total Sales	128.4	156.3	156.5	156.5	175.8	176.8	177.3
Nonutility Consumption of On-Site Generation	1.3	2.9	2.9	2.9	3.3	3.3	3.3
Total Electricity Demand	129.6	159.2	159.4	159.4	179.1	180.1	180.6
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	15.2	15.8	15.8	15.9	17.2	17.4	17.6
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	0	0	0	0	0	0	0
Purchases from Nonutilities	.0	1.6	1.6	1.6	5.7	4.3	3.0
Generation by Utilities	143.6	170.5	170.6	170.7	187.3	189.8	191.8
Total Net Energy for Load	143.6	172.1	172.3	172.4	193.0	194.2	194.8
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	109.8	125.1	125.2	125.2	139.3	144.1	146.6
Natural Gas	3.0	16.4	16.5	14.9	19.1	16.1	15.3
Oil	.2	.6	.6	2.3	.4	1.1	1.4
Nuclear	26.4	25.1	25.1	25.1	25.0	25.0	25.0
Renewable Sources/Other ^c	4.2	3.3	3.3	3.3	3.6	3.6	3.6
Total Utility Generation	143.6	170.5	170.6	170.7	187.3	189.8	191.8
Nonutility Generation^d							
Coal	1.0	2.7	2.7	2.7	2.8	2.8	2.8
Natural Gas	.3	.7	.6	.6	4.9	3.5	2.2
Oil	0	.0	.0	.0	.1	.1	.1
Renewable Sources/Other ^c	.0	1.2	1.2	1.2	1.2	1.2	1.2
Total Nonutility Generation	1.3	4.6	4.6	4.6	9.0	7.7	6.3
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	7.85	8.60	8.62	8.64	9.58	9.72	9.83
Commercial/Other	7.10	6.90	6.92	6.97	7.04	7.22	7.40
Industrial	4.83	4.90	4.92	4.97	5.09	5.19	5.33
All Sectors Average	6.68	6.81	6.83	6.86	7.17	7.31	7.46
Price Components							
Capital ^f	3.07	2.81	2.81	2.81	2.87	2.93	2.95
Fuel ^g	1.36	1.82	1.85	1.88	2.10	2.16	2.26
Operation and Maintenance ^h	2.26	2.17	2.17	2.17	2.20	2.22	2.24
Total Average Electricity Price	6.68	6.81	6.83	6.86	7.17	7.31	7.46
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.25	1.49	1.50	1.50	1.63	1.65	1.68
Natural Gas	1.95	2.82	2.98	3.23	3.75	4.20	4.92
Oil	5.11	5.14	5.14	4.18	6.40	5.45	5.49
Fuel Consumption (million Btu)							
Utility ⁱ							
Coal	1,184.2	1,339.6	1,340.4	1,340.3	1,473.1	1,509.8	1,535.5
Natural Gas	38.0	219.7	221.2	194.3	232.4	200.0	194.1
Oil	3.0	7.5	7.7	28.7	4.8	14.2	17.6
Nonutility^j							
Coal	6.9	18.8	18.8	18.8	19.9	19.9	19.9
Natural Gas	1.8	4.1	4.1	4.1	34.6	24.8	15.1
Oil	0	.3	.3	.3	.4	.4	.4
Emissions (million tons) ^k							
Sulfur Dioxide	1.4	.8	.8	.8	.6	.7	.7
Nitrogen Oxides	.5	.6	.6	.6	.6	.6	.6
Carbon Dioxide	129.5	157.1	157.2	157.4	173.6	175.8	177.9

- See footnotes at end of table.

**Table 69. Electric Power Data and Projections by Oil and Gas Recovery Case
Central Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	24.8	24.4	24.4	24.4	25.7	26.8	27.4
Other Fossil Steam ^m	2.5	1.8	1.8	1.8	1.0	1.0	1.0
Combined Cycle	.2	.3	.3	.3	1.4	.9	.6
Combustion Turbine/Diesel	5.4	10.5	10.5	10.5	13.4	13.4	13.5
Nuclear Power	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Pumped Storage Hydroelectric	.6	.6	.6	.6	.6	.6	.6
Renewable Sources/Other ^c	.9	.9	.9	.9	1.0	1.0	1.0
Total Utility Capability	38.3	42.6	42.6	42.6	47.1	47.6	48.1
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	.4	.4	.4	1.5	1.5	1.5
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	.1	.1	.1	.1	.1	.1
Combustion Turbine/Diesel	.2	1.8	1.8	1.8	1.9	1.9	1.9
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.0	.0	.0	.0	.1	.1	.1
Total (Announced)	.2	2.3	2.3	2.3	3.7	3.7	3.7
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	1.1	2.2	2.8
Combined Cycle	0	0	0	0	1.1	.6	.3
Combustion Turbine/Diesel	0	3.5	3.5	3.5	6.4	6.4	6.6
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.0	.0	.0	.1	.1	.1
Total (Not Announced)	.0	3.5	3.5	3.5	8.7	9.2	9.7
Total Utility Additions	.2	5.9	5.9	5.9	12.4	12.9	13.4
Cumulative Utility Retirements ^o	.0	1.4	1.4	1.4	3.4	3.4	3.4
Nonutility							
Capability^p							
Coal	.3	.6	.6	.6	.7	.7	.7
Natural Gas	.0	.1	.1	.1	1.0	.7	.4
Oil	0	.0	.0	.0	.0	.0	.0
Renewable Sources/Other ^c	0	.3	.3	.3	.3	.3	.3
Total Nonutility Capability	.3	1.1	1.1	1.1	2.0	1.7	1.4
Cumulative Additions ⁿ	.0	.7	.7	.7	1.7	1.4	1.1

- ^a Balancing item equaling net energy for load minus electricity sales.
- ^b Generation to meet system load, exclusive of net interregional transfers.
- ^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
- ^d Represents gross generation, net generation data are not reported.
- ^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
- ^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
- ^g Includes the direct costs of fuel inputs used to generate electricity.
- ^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
- ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
- ^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
- ^k Estimated emissions from utilities and independent power producers in millions of short tons.
- ^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
- ^m Includes oil-, gas-, and dual-fired steam capability.
- ⁿ Cumulative additions after December 31, 1989.
- ^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
- ^p Represents nameplate capacity, net summer capability data are not reported.
- Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil and Gas Recovery--Run HGEO93.D0916924, Reference--Run AEO93B.D0918921, Low Oil and Gas Recovery--Run LGEO93.D0918923.

**Table 70. Electric Power Data and Projections by Oil and Gas Recovery Case
North Central Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Demand (billion kilowatthours)							
Residential	24.9	29.5	29.5	29.5	33.6	33.8	33.9
Commercial/Other	29.5	35.0	35.0	35.0	39.6	39.8	39.8
Industrial	30.0	37.4	37.4	37.3	45.4	45.2	45.0
Total Sales	84.4	102.0	102.0	101.8	118.6	118.7	118.7
Nonutility Consumption of On-Site Generation	.9	3.9	3.9	3.9	4.1	4.1	4.1
Total Electricity Demand	85.3	105.9	105.9	105.7	122.7	122.9	122.8
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	79.4	78.1	78.1	78.1	82.2	82.2	82.2
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	.7	1.3	1.3	1.3	4.1	4.1	4.1
Purchases from Nonutilities	1.2	5.1	5.1	5.1	5.2	5.2	5.2
Generation by Utilities	161.9	173.6	173.6	173.5	191.5	191.7	191.6
Total Net Energy for Load	163.8	180.1	180.1	179.9	200.8	201.0	200.9
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	142.3	145.6	145.6	145.5	146.1	146.1	146.1
Natural Gas	.5	1.7	1.7	1.6	18.3	18.4	18.8
Oil	.2	1.6	1.6	1.6	2.6	2.7	2.5
Nuclear	0	0	0	0	0	0	0
Renewable Sources/Other ^c	19.0	24.8	24.8	24.8	24.5	24.5	24.3
Total Utility Generation	161.9	173.6	173.6	173.5	191.5	191.7	191.6
Nonutility Generation^d							
Coal	.2	1.0	1.0	1.0	1.0	1.0	1.0
Natural Gas	1.1	3.9	3.9	3.9	4.1	4.0	4.0
Oil	.0	.1	1	.1	.1	.1	.1
Renewable Sources/Other ^e	.7	4.1	4.1	4.1	4.1	4.1	4.1
Total Nonutility Generation	2.1	9.0	9.0	9.0	9.3	9.3	9.3
Electricity Price (1991 cents per kilowatthour)^f							
End-Use Sectors							
Residential	8.13	8.46	8.47	8.45	8.84	8.92	9.00
Commercial/Other	7.20	6.59	6.59	6.62	6.38	6.47	6.58
Industrial	4.76	4.45	4.45	4.47	4.61	4.71	4.83
All Sectors Average	6.58	6.35	6.35	6.36	6.40	6.49	6.61
Price Components							
Capital ^g	3.33	3.14	3.14	3.14	2.71	2.71	2.69
Fuel ^h	.50	.67	.67	.68	1.18	1.28	1.40
Operation and Maintenance ^h	2.75	2.54	2.54	2.54	2.51	2.51	2.51
Total Average Electricity Price	6.58	6.35	6.35	6.36	6.40	6.49	6.61
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	.94	.95	.95	.95	1.04	1.05	1.06
Natural Gas	3.72	3.16	3.32	3.57	4.25	4.74	5.41
Oil	5.46	5.23	5.23	5.23	6.49	6.49	6.49
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	1,518.8	1,572.0	1,572.0	1,571.3	1,576.5	1,576.5	1,576.5
Natural Gas	7.3	23.1	23.1	22.5	176.0	177.2	190.4
Oil	2.2	23.5	23.5	23.3	37.5	38.3	35.4
Nonutility^j							
Coal	1.7	6.8	6.8	6.8	7.4	7.4	7.4
Natural Gas	7.1	24.6	24.5	24.5	25.3	25.2	25.2
Oil	.2	.4	.4	.4	.5	.5	.5
Emissions (million tons) ^k							
Sulfur Dioxide	.6	.3	.4	.4	.2	.2	.2
Nitrogen Oxides	.5	.5	.5	.5	.5	.5	.5
Carbon Dioxide	163.8	172.0	172.0	171.8	182.9	183.0	183.6

- See footnotes at end of table.

**Table 70. Electric Power Data and Projections by Oil and Gas Recovery Case
North Central Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	21.3	22.3	22.3	22.3	22.0	22.0	22.0
Other Fossil Steam ^m	.6	.2	.2	.2	.1	.1	.1
Combined Cycle	0	0	0	0	2.2	2.2	1.9
Combustion Turbine/Diesel	.9	1.0	1.0	1.0	1.6	1.6	1.9
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	.5	.6	.6	.6	.6	.6	.6
Renewable Sources/Other ^c	6.0	6.4	6.4	6.4	6.4	6.4	6.4
Total Utility Capability	29.3	30.5	30.5	30.5	32.9	32.9	32.9
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	1.4	1.4	1.4	1.4	1.4	1.4
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	.0	.1	.1	.1	.1	.1	.1
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	.1	.1	.1	.1	.1	.1
Renewable Sources/Other ^c	0	.4	.4	.4	.4	.4	.4
Total (Announced)	.0	2.0	2.0	2.0	2.0	2.0	2.0
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	2.2	2.2	1.9
Combustion Turbine/Diesel	0	0	0	0	.6	.6	.9
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.0	.0	.0	.0	.0	.0
Total (Not Announced)	.0	.0	.0	.0	2.9	2.9	2.9
Total Utility Additions	.0	2.0	2.0	2.0	4.9	4.9	4.9
Cumulative Utility Retirements ^o	.0	.8	.8	.8	1.3	1.3	1.3
Nonutility							
Capability^p							
Coal	.0	.2	.2	.2	.2	.2	.2
Natural Gas	.3	.8	.8	.8	.8	.8	.8
Oil	0	.0	.0	.0	.0	.0	.0
Renewable Sources/Other ^c	.2	.9	.9	.9	.9	.9	.9
Total Nonutility Capability	.5	2.0	2.0	2.0	2.0	2.0	2.0
Cumulative Additions ⁿ	.0	1.5	1.5	1.5	1.5	1.5	1.5

^a Balancing item equaling net energy for load minus electricity sales.

^b Generation to meet system load, exclusive of net interregional transfers.

^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.

^d Represents gross generation, net generation data are not reported.

^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.

^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.

^g Includes the direct costs of fuel inputs used to generate electricity.

^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.

ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.

^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.

^k Estimated emissions from utilities and independent power producers in millions of short tons.

^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

^m Includes oil-, gas-, and dual-fired steam capability.

ⁿ Cumulative additions after December 31, 1989.

^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.

^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil and Gas Recovery--Run HGE093.D0916924, Reference--Run AEO93B.D0918921, Low Oil and Gas Recovery--Run LGE093.D0918923.

**Table 71. Electric Power Data and Projections by Oil and Gas Recovery Case
West Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Demand (billion kilowatthours)							
Residential	89.8	108.7	108.7	108.6	128.0	128.5	128.9
Commercial/Other	111.5	139.8	139.7	139.6	174.0	172.8	172.9
Industrial	75.9	98.0	98.0	97.7	122.9	122.4	121.7
Total Sales	277.2	346.5	346.4	345.9	424.9	423.7	423.5
Nonutility Consumption of On-Site Generation	10.2	15.2	15.2	15.1	16.6	16.5	16.4
Total Electricity Demand	287.4	361.7	361.5	361.0	441.5	440.2	439.9
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	-28.0	-20.6	-20.6	-20.7	-17.7	-17.8	-17.9
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	4.7	5.3	5.3	5.3	6.7	6.7	6.7
Purchases from Nonutilities	40.4	63.6	63.6	63.6	98.3	98.3	98.3
Generation by Utilities	204.1	257.0	256.8	256.3	302.2	300.9	300.6
Total Net Energy for Load	249.2	325.9	325.7	325.2	407.2	405.9	405.6
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	46.7	50.3	50.3	50.3	70.8	70.8	70.8
Natural Gas	49.7	68.3	68.2	67.8	78.9	77.1	73.6
Oil	12.8	15.0	14.9	14.9	16.7	17.3	20.6
Nuclear	53.3	49.8	49.8	49.8	49.9	49.9	49.9
Renewable Sources/Other ^c	41.7	73.6	73.6	73.6	85.8	85.8	85.7
Total Utility Generation	204.1	257.0	256.8	256.3	302.2	300.9	300.6
Nonutility Generation^d							
Coal	2.2	2.5	2.5	2.5	12.8	12.8	12.8
Natural Gas	26.8	35.1	35.0	35.0	35.6	35.5	35.4
Oil	.6	.8	.8	.8	.9	.9	.9
Renewable Sources/Other ^c	21.0	40.5	40.5	40.5	65.7	65.7	65.7
Total Nonutility Generation	50.6	78.8	78.8	78.7	114.9	114.8	114.8
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	7.41	7.15	7.20	7.26	7.00	7.13	7.32
Commercial/Other	7.48	7.11	7.16	7.24	6.68	6.83	7.04
Industrial	6.36	6.24	6.29	6.37	6.17	6.30	6.50
All Sectors Average	7.13	6.88	6.93	7.00	6.63	6.77	6.97
Price Components							
Capital ^f	2.50	1.93	1.93	1.94	1.29	1.31	1.31
Fuel ^g	2.54	2.98	3.03	3.09	3.51	3.64	3.83
Operation and Maintenance ^h	2.09	1.97	1.97	1.97	1.82	1.82	1.83
Total Average Electricity Price	7.13	6.88	6.93	7.00	6.63	6.77	6.97
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.50	1.69	1.70	1.69	1.85	1.88	1.90
Natural Gas	3.07	3.49	3.66	3.92	4.32	4.81	5.58
Oil	4.40	4.68	4.69	4.70	5.85	5.86	5.94
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	491.5	527.0	527.0	527.0	729.9	729.9	729.9
Natural Gas	521.6	713.9	712.7	707.8	824.1	809.1	772.7
Oil	136.6	153.3	152.6	151.6	171.8	177.3	212.2
Nonutility^j							
Coal	15.4	17.5	17.5	17.5	99.1	99.0	99.0
Natural Gas	167.9	219.3	219.1	218.9	222.5	221.9	221.6
Oil	4.1	5.1	5.1	5.1	5.7	5.8	5.8
Emissions (million tons) ^k							
Sulfur Dioxide	.2	.2	.2	.2	.2	.2	.2
Nitrogen Oxides	.4	.5	.5	.5	.6	.6	.6
Carbon Dioxide	129.0	154.4	154.3	153.9	201.7	201.2	202.1

- See footnotes at end of table.

**Table 71. Electric Power Data and Projections by Oil and Gas Recovery Case
West Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	7.3	7.7	7.7	7.7	11.1	11.1	11.1
Other Fossil Steam ^m	24.6	22.9	22.9	22.9	21.6	21.6	21.6
Combined Cycle	1.4	1.7	1.7	1.7	2.4	2.1	2.1
Combustion Turbine/Diesel	3.8	4.7	4.7	4.7	5.2	5.2	5.2
Nuclear Power	8.6	8.1	8.1	8.1	8.1	8.1	8.1
Pumped Storage Hydroelectric	3.7	3.8	3.8	3.8	3.8	3.8	3.8
Renewable Sources/Other ^c	14.8	16.7	16.7	16.7	18.4	18.4	18.4
Total Utility Capability	64.2	65.8	65.8	65.8	70.7	70.3	70.3
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	.4	.8	.8	.8	3.7	3.7	3.7
Other Fossil Steam ^m	0	.1	.1	.1	.2	.2	.2
Combined Cycle	0	.3	.3	.3	.7	.7	.7
Combustion Turbine/Diesel	.0	1.1	1.1	1.1	1.5	1.5	1.5
Nuclear Power	0	0	0	0	0	0	0
Pumped Storage Hydroelectric	0	.2	.2	.2	.2	.2	.2
Renewable Sources/Other ^c	0	.6	.6	.6	.6	.6	.6
Total (Announced)	.4	3.0	3.0	3.0	6.8	6.8	6.8
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	0	0	0	.6	.6	.6
Combined Cycle	0	0	0	0	.3	0	0
Combustion Turbine/Diesel	0	0	0	0	.1	0	0
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	1.3	1.3	1.3	3.0	3.0	3.0
Total (Not Announced)	.0	1.3	1.3	1.3	3.9	3.5	3.5
Total Utility Additions	.4	4.4	4.4	4.4	10.6	10.3	10.3
Cumulative Utility Retirements ^o	1.0	3.4	3.4	3.4	4.7	4.7	4.7
Nonutility							
Capability^p							
Coal	.5	.6	.6	.6	2.3	2.3	2.3
Natural Gas	4.2	5.8	5.8	5.8	5.9	5.9	5.9
Oil	.1	.1	.1	.1	.2	.2	.2
Renewable Sources/Other ^c	4.8	9.1	9.1	9.1	14.3	14.3	14.3
Total Nonutility Capability	9.7	15.6	15.6	15.6	22.7	22.7	22.7
Cumulative Additions ⁿ	.0	6.0	6.0	6.0	13.0	13.0	13.0

- ^a Balancing item equaling net energy for load minus electricity sales.
- ^b Generation to meet system load, exclusive of net interregional transfers.
- ^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
- ^d Represents gross generation, net generation data are not reported.
- ^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
- ^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
- ^g Includes the direct costs of fuel inputs used to generate electricity.
- ^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
- ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
- ^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
- ^k Estimated emissions from utilities and independent power producers in millions of short tons.
- ^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
- ^m Includes oil-, gas-, and dual-fired steam capability.
- ⁿ Cumulative additions after December 31, 1989.
- ^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
- ^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil and Gas Recovery--Run HGE093.D0916924, Reference--Run AEO93B.D0918921, Low Oil and Gas Recovery--Run LGE093.D0918923.

**Table 72. Electric Power Data and Projections by Oil and Gas Recovery Case
Northwest Region**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Demand (billion kilowatthours)							
Residential	51.5	61.1	61.1	61.1	69.6	69.9	70.1
Commercial/Other	41.0	51.4	51.4	51.3	57.0	57.1	57.2
Industrial	63.8	67.9	67.9	67.6	83.6	83.3	82.8
Total Sales	156.3	180.4	180.3	180.0	210.3	210.3	210.0
Nonutility Consumption of On-Site Generation	2.7	3.9	3.9	4.8	4.5	4.4	5.3
Total Electricity Demand	159.0	184.3	184.2	184.8	214.8	214.7	215.3
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	9.1	- .8	- .8	- .7	2.6	2.7	2.5
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	1.2	5.6	5.6	5.6	7.9	7.9	7.9
Purchases from Nonutilities	1.4	6.4	5.9	7.8	7.8	7.2	9.2
Generation by Utilities	162.8	167.6	168.1	165.9	197.2	197.8	195.4
Total Net Energy for Load	165.3	179.6	179.6	179.3	212.9	213.0	212.5
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	9.0	10.5	10.6	10.5	32.0	32.1	29.1
Natural Gas	3.7	9.3	9.6	8.6	10.7	10.2	11.1
Oil	.4	4.8	4.8	4.3	3.5	4.5	4.2
Nuclear	11.8	6.9	6.9	6.5	14.8	14.8	14.8
Renewable Sources/Other ^c	137.9	136.1	136.1	136.1	136.2	136.2	136.2
Total Utility Generation	162.8	167.6	168.1	165.9	197.2	197.8	195.4
Nonutility Generation^d							
Coal	.2	.4	.4	.4	.5	.5	.5
Natural Gas	.7	4.7	4.9	5.9	5.0	5.1	6.1
Oil	.1	1.0	.2	2.0	1.0	.2	2.1
Renewable Sources/Other ^c	3.0	4.3	4.3	4.3	5.8	5.8	5.8
Total Nonutility Generation	4.1	10.4	9.7	12.6	12.3	11.6	14.5
Electricity Price (1991 cents per kilowatthour)^e							
End-Use Sectors							
Residential	4.94	6.38	6.40	6.45	6.55	6.62	6.69
Commercial/Other	4.79	5.46	5.48	5.54	5.64	5.71	5.78
Industrial	3.08	3.62	3.64	3.70	3.85	3.92	4.01
All Sectors Average	4.20	5.08	5.10	5.16	5.23	5.30	5.39
Price Components							
Capital ^f	2.12	2.44	2.45	2.45	2.32	2.33	2.30
Fuel ^g	.32	.97	.98	1.05	1.12	1.19	1.32
Operation and Maintenance ^h	1.76	1.67	1.67	1.66	1.78	1.78	1.76
Total Average Electricity Price	4.20	5.08	5.10	5.16	5.23	5.30	5.39
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.55	1.43	1.43	1.43	1.61	1.61	1.62
Natural Gas	1.48	2.42	2.60	2.77	3.37	3.80	4.60
Oil	4.71	5.10	5.10	5.10	6.32	6.32	6.33
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	99.5	115.9	117.1	115.9	319.7	321.2	296.2
Natural Gas	43.4	112.3	115.3	106.5	119.7	117.2	122.6
Oil	4.4	62.6	63.0	56.2	45.4	58.3	55.3
Nonutility^j							
Coal	1.6	2.6	2.6	2.6	3.8	3.8	3.8
Natural Gas	4.4	29.1	29.4	34.8	30.4	30.6	36.0
Oil	1.0	5.6	1.3	11.9	5.8	1.5	12.1
Emissions (million tons) ^k							
Sulfur Dioxide	.1	.1	.1	.1	.1	.1	.0
Nitrogen Oxides	.1	.1	.1	1	.2	.2	.2
Carbon Dioxide	22.5	31.8	32.0	31.3	55.5	56.8	53.8

- See footnotes at end of table.

**Table 72. Electric Power Data and Projections by Oil and Gas Recovery Case
Northwest Region (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	1.9	2.4	2.4	2.4	6.3	6.3	5.8
Other Fossil Steam ^m	.1	0	0	0	0	0	0
Combined Cycle	.6	.8	.9	.6	1.3	1.1	1.4
Combustion Turbine/Diesel	1.8	2.2	2.2	2.1	2.5	2.7	2.7
Nuclear Power	2.2	1.1	1.1	1.1	2.3	2.3	2.3
Pumped Storage Hydroelectric	.3	.3	.3	.3	.3	.3	.3
Renewable Sources/Other ^c	32.4	32.7	32.7	32.7	32.7	32.7	32.7
Total Utility Capability	39.3	39.5	39.6	39.2	45.5	45.6	45.2
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	0	0	0	0	0	0	0
Other Fossil Steam ^m	0	0	0	0	0	0	0
Combined Cycle	0	0	0	0	0	0	0
Combustion Turbine/Diesel	.0	.0	.0	.0	.0	.0	.0
Nuclear Power	0	0	0	0	1.2	1.2	1.2
Pumped Storage Hydroelectric	0	0	0	0	0	0	0
Renewable Sources/Other ^c	.0	.3	.3	.3	.3	.3	.3
Total (Announced)	.0	.3	.3	.3	1.5	1.5	1.5
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	.6	.6	.6	4.4	4.4	3.9
Combined Cycle	0	.2	.3	.0	.7	.6	.8
Combustion Turbine/Diesel	0	.4	.4	.3	.7	.9	.9
Nuclear Power	0	0	0	0	0	0	0
Renewable Sources/Other ^c	0	.0	.0	.0	.0	.0	.0
Total (Not Announced)	.0	1.1	1.2	.9	5.9	6.0	5.6
Total Utility Additions	.0	1.4	1.5	1.2	7.5	7.5	7.1
Cumulative Utility Retirements ^o	.0	1.3	1.3	1.3	1.3	1.3	1.3
Nonutility							
Capability^p							
Coal	.1	.1	.1	.1	.1	.1	.1
Natural Gas	.2	.9	.9	1.0	.9	.9	1.1
Oil	.0	.2	.1	.4	.2	.1	.4
Renewable Sources/Other ^c	.8	1.1	1.1	1.1	1.5	1.5	1.5
Total Nonutility Capability	1.0	2.2	2.1	2.6	2.7	2.6	3.1
Cumulative Additions ⁿ	.0	1.2	1.1	1.6	1.7	1.6	2.1

- ^a Balancing item equaling net energy for load minus electricity sales.
^b Generation to meet system load, exclusive of net interregional transfers.
^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
^d Represents gross generation, net generation data are not reported.
^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
^g Includes the direct costs of fuel inputs used to generate electricity.
^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
^k Estimated emissions from utilities and independent power producers in millions of short tons.
^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
^m Includes oil-, gas-, and dual-fired steam capability.
ⁿ Cumulative additions after December 31, 1989.
^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
^p Represents nameplate capacity, net summer capability data are not reported.

Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil and Gas Recovery--Run HGE093.D0916924, Reference--Run AEO93B.D0918921, Low Oil and Gas Recovery--Run LGE093.D0918923.

**Table 73. Electric Power Data and Projections by Oil and Gas Recovery Case
United States**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Demand (billion kilowatthours)							
Residential	924.0	1,047.3	1,047.4	1,047.0	1,170.5	1,176.2	1,179.1
Commercial/Other	843.0	1,003.1	1,003.0	1,002.5	1,142.7	1,143.9	1,144.7
Industrial	945.5	1,161.9	1,163.4	1,163.8	1,411.1	1,410.0	1,407.8
Total Sales	2,712.6	3,212.3	3,213.8	3,213.3	3,724.2	3,730.1	3,731.5
Nonutility Consumption of On-Site Generation	111.3	172.4	170.6	171.3	184.0	181.9	183.0
Total Electricity Demand	2,823.8	3,384.7	3,384.4	3,384.6	3,908.2	3,912.0	3,914.5
Transmission and Distribution Losses and Unaccounted for (billion kilowatthours) ^a							
	204.0	225.6	225.8	225.5	255.7	254.6	251.6
Net Energy For Load (billion kilowatthours) ^b							
Net Electricity Imports	2.2	38.6	38.6	38.6	54.0	54.0	54.0
Purchases from Nonutilities	106.2	217.4	215.1	222.9	387.0	408.4	434.9
Generation by Utilities	2,808.2	3,181.8	3,185.9	3,177.3	3,539.0	3,522.4	3,494.2
Total Net Energy for Load	2,916.6	3,437.9	3,439.6	3,438.8	3,980.0	3,984.7	3,983.1
Generation by Fuel Type (billion kilowatthours)							
Utility Generation							
Coal	1,559.6	1,672.5	1,673.4	1,671.3	1,841.6	1,867.9	1,905.5
Natural Gas	264.1	416.1	418.1	412.1	561.4	517.1	447.6
Oil	117.0	176.4	137.4	137.5	159.6	160.9	165.2
Nuclear	576.9	632.7	632.7	632.2	636.1	636.1	636.1
Renewable Sources/Other ^c	290.6	324.2	324.2	324.2	340.2	340.3	339.7
Total Utility Generation	2,808.2	3,181.8	3,185.9	3,177.3	3,539.0	3,522.4	3,494.2
Nonutility Generation^d							
Coal	32.6	52.1	52.1	58.7	124.5	164.2	217.2
Natural Gas	99.6	184.2	180.8	180.7	237.5	217.8	190.7
Oil	5.4	12.1	11.4	13.2	12.7	12.0	13.8
Renewable Sources/Other ^e	79.9	141.5	141.5	141.5	196.2	196.2	196.2
Total Nonutility Generation	217.5	389.9	385.7	394.1	571.0	590.2	617.9
Electricity Price (1991 cents per kilowatthour)^f							
End-Use Sectors							
Residential	7.96	8.22	8.25	8.29	8.29	8.36	8.49
Commercial/Other	7.52	7.39	7.43	7.48	7.13	7.22	7.39
Industrial	5.03	5.16	5.19	5.24	5.31	5.39	5.53
All Sectors Average	6.80	6.85	6.89	6.93	6.80	6.89	7.04
Price Components							
Capital ^g	2.88	2.58	2.58	2.59	2.05	2.05	2.07
Fuel ^h	1.70	2.10	2.13	2.17	2.63	2.72	2.84
Operation and Maintenance ^h	2.23	2.17	2.17	2.17	2.12	2.12	2.12
Total Average Electricity Price	6.80	6.85	6.89	6.93	6.80	6.89	7.04
Delivered Price of Fuel (1991 dollars per million Btu)							
Coal	1.51	1.64	1.64	1.64	1.88	1.89	1.92
Natural Gas	2.41	3.02	3.18	3.42	4.02	4.47	5.12
Oil	3.50	4.05	4.05	4.03	5.36	5.36	5.40
Fuel Consumption (trillion Btu)							
Utility ⁱ							
Coal	16,096.0	17,343.6	17,353.5	17,331.2	18,880.9	19,088.0	19,470.3
Natural Gas	2,881.0	4,543.0	4,567.1	4,487.7	5,672.3	5,357.7	4,811.7
Oil	1,255.0	1,456.1	1,469.7	1,467.3	1,702.0	1,715.3	1,759.2
Nonutility^j							
Coal	230.1	367.9	368.1	434.9	941.0	1,256.4	1,789.4
Natural Gas	623.0	1,144.2	1,124.8	1,114.3	1,531.4	1,393.1	1,176.6
Oil	35.6	78.6	74.3	84.9	82.7	78.5	89.1
Emissions (million tons) ^k							
Sulfur Dioxide	16.2	9.9	9.8	9.8	9.0	8.9	9.1
Nitrogen Oxides	7.4	6.4	6.4	6.4	7.5	7.5	7.6
Carbon Dioxide	2,056.1	2,312.5	2,316.0	2,314.0	2,700.3	2,732.0	2,784.6

- See footnotes at end of table.

**Table 73. Electric Power Data and Projections by Oil and Gas Recovery Case
United States (Continued)**

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Electricity Generating Capability (gigawatts) ¹							
Utility							
Capability							
Coal Steam	298.1	297.6	297.6	297.6	317.2	322.2	331.1
Other Fossil Steam ^m	143.8	130.9	130.9	130.9	120.2	120.2	120.2
Combined Cycle	5.7	14.0	14.1	13.8	44.7	35.4	22.0
Combustion Turbine/Diesel	46.4	68.3	68.6	68.7	77.7	80.1	81.3
Nuclear Power	99.6	101.4	101.4	101.4	102.4	102.4	102.4
Pumped Storage Hydroelectric	17.4	19.9	19.9	19.9	19.9	19.9	19.9
Renewable Sources/Other ^c	77.7	83.3	83.3	83.3	86.1	86.1	86.1
Total Utility Capability	688.6	715.4	715.8	715.6	768.2	766.3	763.0
Cumulative Additions							
Utility Announced ⁿ							
Coal Steam	2.9	12.4	12.4	12.4	19.1	19.1	19.1
Other Fossil Steam ^m	0	.7	.7	.7	.8	.8	.8
Combined Cycle	.1	8.3	8.3	8.3	9.8	9.8	9.8
Combustion Turbine/Diesel	.7	18.3	18.3	18.3	19.8	19.8	19.8
Nuclear Power	2.3	5.8	5.8	5.8	8.3	8.3	8.3
Pumped Storage Hydroelectric	0	2.5	2.5	2.5	2.5	2.5	2.5
Renewable Sources/Other ^c	.3	4.3	4.3	4.3	4.9	4.9	4.9
Total (Announced)	6.3	52.3	52.3	52.3	65.2	65.2	65.2
Utility Additions (Not Announced) ⁿ							
Coal Steam	0	.6	.6	.6	19.4	24.4	33.3
Combined Cycle	0	.2	.3	.0	29.3	20.0	6.6
Combustion Turbine/Diesel	0	4.8	5.1	5.2	14.0	16.4	17.6
Nuclear Power	0	0	0	0	.6	.6	.6
Renewable Sources/Other ^c	0	1.7	1.7	1.7	3.9	3.9	3.9
Total (Not Announced)	.0	7.2	7.6	7.4	67.3	65.4	62.1
Total Utility Additions	6.3	59.5	59.9	59.7	132.5	130.6	127.3
Cumulative Utility Retirements ^o	1.4	27.9	27.9	27.9	48.0	48.0	48.0
Nonutility							
Capability^p							
Coal	7.1	11.2	11.2	12.3	23.5	30.2	39.0
Natural Gas	19.3	35.0	34.4	34.3	46.0	42.0	36.1
Oil	.8	3.7	3.5	3.8	3.9	3.8	4.1
Renewable Sources/Other ^c	15.7	28.2	28.2	28.2	37.8	37.8	37.8
Total Nonutility Capability	43.0	78.0	77.3	78.6	111.2	113.8	117.1
Cumulative Additions ⁿ	.0	35.0	34.3	35.6	68.2	70.8	74.0

- ^a Balancing item equaling net energy for load minus electricity sales.
- ^b Generation to meet system load, exclusive of net interregional transfers.
- ^c Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar, and wind power. For nonutilities, also includes waste heat, blast furnace gas, and coke oven gas.
- ^d Represents gross generation, net generation data are not reported.
- ^e Prices are from model simulations and represent average revenue per kilowatthour of demand over all customer classes.
- ^f Represents the cost to the utility of its capital assets including plant depreciation, taxes, and a sufficient return on invested capital.
- ^g Includes the direct costs of fuel inputs used to generate electricity.
- ^h Includes all nonfuel costs necessary to operate and maintain generation, transmission, and distribution capacity used to deliver electricity to end-use sectors.
- ⁱ In the end-use energy consumption tables (Tables 82-103), projected fuel consumption in the utility sector includes fuel used by independent power producers. In this table, fuel used by independent power producers is included in the nonutility category.
- ^j Includes independent power producers and cogenerators. Fuel consumption for cogenerators is included in the industrial sector in the end use tables.
- ^k Estimated emissions from utilities and independent power producers in millions of short tons.
- ^l Represents net summer capability; the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.
- ^m Includes oil-, gas-, and dual-fired steam capability.
- ⁿ Cumulative additions after December 31, 1989.
- ^o Includes cumulative scheduled and assumed retirements that occur after December 31, 1989. Retirements Scheduled for December in any given year are counted in the next year.
- ^p Represents nameplate capacity; net summer capability data are not reported.
- Sources: Energy Information Administration, **History:** 1990 electricity sales (preliminary), Form EIA-826, "Electric Utility Company Monthly Statement;" net capability, Form EIA-860, "Annual Electric Generator Report;" generation (preliminary), Form EIA-759, "Monthly Power Plant Report;" delivered price of fuel (final), Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" emissions, Form EIA-767, "Steam-Electric Plant Operation and Design Report." The 1990 electricity prices are from model simulation. Nonutility data on capacity, generation, and fuel use are from the Form EIA-867, "Annual Nonutility Power Producer Report." **Projections:** AEO 1993 FORECASTING SYSTEM High Oil and Gas Recovery--Run HGE093.D0916924, Reference--Run AEO93B.D0918921, Low Oil and Gas Recovery--Run LGE093.D0918923.

Commercial Nuclear Power

Table 74. Operable U.S. Nuclear Generating Units as of December 31, 1991

Site	Unit Name	Net Summer Capability (net MWe)	Utility ^a	Reactor ^b		Month Operable
				Type	Supplier	
Region I - New England						
Connecticut:						
Haddam Neck	Haddam Neck (Connecticut Yankee)	560	Connecticut L&P	PWR	W	8/67
Waterford	Millstone 1	652	Connecticut L&P	BWR	GE	11/70
Waterford	Millstone 2	863	Connecticut L&P	PWR	C-E	11/75
Waterford	Millstone 3	1,137	Connecticut L&P	PWR	W	1/86
New Hampshire:						
Seabrook	Seabrook 1	1,150	Public Service Co.	PWR	W	3/90
Maine:						
Wicasset	Maine Yankee	870	Maine Yankee Atomic	PWR	C-E	11/72
Massachusetts:						
Plymouth	Pilgrim 1	663	Boston Edison	BWR	GE	7/72
Rowe	Yankee Rowe 1	167	New England Power	PWR	W	11/60
Vermont:						
Vernon	Vermont Yankee	496	Vermont Yankee Nuclear Power	BWR	GE	9/72
Total Region I		6,558 ^c				
Region II - New York/New Jersey						
New York:						
Buchanan	Indian Point 2	931	Consolidated Edison	PWR	W	6/73
Buchanan	Indian Point 3	980	Power Authority of the State of New York	PWR	W	4/76
Rochester	Robert E. Ginna	470	Rochester Gas & Electric	PWR	W	12/69
Oswego	Nine Mile Point 1	605	Niagara Mohawk Power	BWR	GE	11/69
Oswego	Nine Mile Point 2	1,080	Niagara Mohawk Power	BWR	GE	7/87
Scriba	James Fitzpatrick	800	Power Authority of	BWR	GE	2/75
New Jersey:						
Forked River	Oyster Creek 1	610	Jersey Central P&L	BWR	GE	9/69
Salem	Salem 1	1,106	Public Service E&G and Philadelphia Electric	PWR	W	12/76
Salem	Salem 2	1,106	Public Service E&G and Philadelphia Electric	PWR	W	6/81
Salem	Hope Creek 1	1,031	Public Service E&G	BWR	GE	7/86
Total Region II		8,719				

See footnotes at end of table.

Table 74. Operable U.S. Nuclear Generating Units as of December 31, 1991 (Continued)

Site	Unit Name	Net Summer Capability (net MWe)	Utility ^a	Reactor ^b		Month Operable
				Type	Supplier	
Region III - Middle Atlantic						
Maryland:						
Lusby	Calvert Cliffs 1	825	Baltimore G&E	PWR	C-E	1/75
Lusby	Calvert Cliffs 2	825	Baltimore G&E	PWR	C-E	12/76
Pennsylvania:						
Berwick	Susquehanna 1	1,040	Pennsylvania P&L	BWR	GE	11/82
Berwick	Susquehanna 2	1,044	Pennsylvania P&L	BWR	GE	6/84
Middletown	3 Mile Island 1	808	GPU Nuclear Corp.	PWR	B&W	6/74
Lancaster	Peach Bottom 2	1,051	Philadelphia Electric	BWR	GE	2/74
Lancaster	Peach Bottom 3	1,035	Philadelphia Electric and Public Service E&G	BWR	GE	9/74
Pottstown	Limerick 1	1,055	Philadelphia Electric	BWR	GE	8/85
Pottstown	Limerick 2	1,055	Philadelphia Electric	BWR	GE	8/89
Shippingport	Beaver Valley 1	810	Duquesne Light	PWR	W	6/76
Shippingport	Beaver Valley 2	833	Ohio Edison	PWR	W	8/87
Virginia:						
Surry	Surry 1	781	Virginia Electric & Power	PWR	W	7/72
Surry	Surry 2	781	Virginia Electric & Power	PWR	W	3/73
Mineral	North Anna 1	911	Virginia Electric & Power	PWR	W	4/78
Mineral	North Anna 2	909	Virginia Electric & Power	PWR	W	8/80
Total Region III		13,763				
Region IV - South Atlantic						
Alabama:						
Decatur	Browns Ferry 1	1,065	Tennessee Valley Authority	BWR	GE	10/73
Decatur	Browns Ferry 2	1,065	Tennessee Valley Authority	BWR	GE	8/74
Decatur	Browns Ferry 3	1,065	Tennessee Valley Authority	BWR	GE	9/76
Dothan	Joseph M. Farley 1	812	Alabama Power	PWR	W	8/77
Dothan	Joseph M. Farley 2	824	Alabama Power	PWR	W	5/81
Florida:						
Florida City	Turkey Point 3	666	Florida P&L	PWR	W	11/72
Florida City	Turkey Point 4	666	Florida P&L	PWR	W	6/73
Ft. Pierce	St. Lucie 1	839	Florida P&L	PWR	C-E	5/76
Ft. Pierce	St. Lucie 2	839	Florida P&L	PWR	C-E	6/83
Red Level	Crystal River 3	820	Florida Power Corp.	PWR	B&W	1/77

See footnotes at end of table.

Table 74. Operable U.S. Nuclear Generating Units as of December 31, 1991 (Continued)

Site	Unit Name	Net Summer Capability (net MWe)	Utility ^a	Reactor ^b		Month Operable
				Type	Supplier	
Georgia:						
Baxley	Hatch 1	744	Georgia Power	BWR	GE	11/74
Baxley	Hatch 2	762	Georgia Power	BWR	GE	9/78
Waynesboro	Vogtle 1	1,105	Georgia Power	PWR	W	3/87
Waynesboro	Vogtle 2	1,103	Georgia Power	PWR	W	3/89
Mississippi:						
Port Gibson	Grand Gulf 1	1,143	System Energy Resources,	BWR	GE	9/84
North Carolina:						
Cowens Ford Dam	McGuire 1	1,129	Duke Power	PWR	W	9/81
Cowens Ford Dam	McGuire 2	1,129	Duke Power	PWR	W	5/83
New Hill	Shearon Harris 1	860	Carolina P&L	PWR	W	1/87
Southport	Brunswick 1	767	Carolina P&L	BWR	GE	12/76
Southport	Brunswick 2	754	Carolina P&L	BWR	GE	4/75
South Carolina:						
Clover	Catawba 1	1,129	North Carolina Electric Membership Corporation	PWR	W	1/85
Clover	Catawba 2	1,129	North Carolina Municipal	PWR	W	5/86
Hartsville	H.B. Robinson 2	683	Carolina P&L	PWR	W	9/70
Jenkinsville	Summer 1	885	South Carolina E&G	PWR	W	11/82
Seneca	Oconee 1	846	Duke Power	PWR	B&W	5/73
Seneca	Oconee 2	846	Duke Power	PWR	B&W	12/73
Seneca	Oconee 3	846	Duke Power	PWR	B&W	9/74
Tennessee:						
Daisy	Sequoyah 1	1,122	Tennessee Valley Authority	PWR	W	7/80
Daisy	Sequoyah 2	1,122	Tennessee Valley Authority	PWR	W	12/81
Total Region IV		26,765				
Region V - Midwest						
Illinois:						
Braidwood	Braidwood 1	1,090	Commonwealth Edison	PWR	W	7/87
Braidwood	Braidwood 2	1,090	Commonwealth Edison	PWR	W	5/88
Byron	Byron 1	1,120	Commonwealth Edison	PWR	W	2/85
Byron	Byron 2	1,120	Commonwealth Edison	PWR	W	1/87
Clinton	Clinton 1	930	Illinois Power	BWR	GE	4/87
Cordova	Quad-Cities 1	769	Commonwealth Edison	BWR	GE	4/72
Cordova	Quad-Cities 2	769	Commonwealth Edison	BWR	GE	5/72
Morris	Dresden 2	772	Commonwealth Edison	BWR	GE	4/70
Morris	Dresden 3	773	Commonwealth Edison	BWR	GE	7/71
Seneca	LaSalle 1	1,048	Commonwealth Edison	BWR	GE	9/82
Seneca	LaSalle 2	1,048	Commonwealth Edison	BWR	GE	3/84
Zion	Zion 1	1,040	Commonwealth Edison	PWR	W	6/73
Zion	Zion 2	1,040	Commonwealth Edison	PWR	W	12/73

See footnotes at end of table.

Table 74. Operable U.S. Nuclear Generating Units as of December 31, 1991 (Continued)

Site	Unit Name	Net Summer Capability (net MWe)	Utility ^a	Reactor ^b		Month Operable
				Type	Supplier	
Michigan:						
Bridgman	Donald C. Cook 1	1,000	Indiana & Michigan Elec.	PWR	W	2/75
Bridgman	Donald C. Cook 2	1,060	Indiana & Michigan Elec.	PWR	W	3/78
Charlevoix	Big Rock Point	67	Consumers Power	BWR	GE	12/62
Newport	Fermi 2	1,060	Detroit Edison	BWR	GE	7/85
South Haven	Palisades	755	Consumers Power	PWR	C-E	12/71
Minnesota:						
Monticello	Monticello	532	Northern States Power	BWR	GE	3/71
Red Wing	Prairie Island 1	507	Northern States Power	PWR	W	12/73
Red Wing	Prairie Island 2	503	Northern States Power	PWR	W	12/74
Ohio:						
Oak Harbor	Davis-Besse 1	873	Cleveland Elec. Illum.	PWR	B&W	8/77
North Perry	Perry 1	1,169	Ohio Edison	BWR	GE	11/86
Wisconsin:						
Carlton	Kewaunee	519	Wisconsin Public Service	PWR	W	4/74
Two Creeks	Point Beach 1	495	Wisconsin Electric Power	PWR	W	11/70
Two Creeks	Point Beach 2	495	Wisconsin Electric Power	PWR	W	8/72
Total Region V		21,644				
Region VI - Southwest						
Arkansas:						
Russellville	Arkansas Nuclear 1	836	Arkansas P&L	PWR	B&W	7/74
Russellville	Arkansas Nuclear 2	858	Arkansas P&L	PWR	C-E	12/78
Louisiana:						
St. Francisville	River Bend 1	936	Gulf States Utilities	BWR	GE	11/85
Taft	Waterford 3	1,075	Louisiana P&L	PWR	C-E	3/85
Texas:						
Glen Rose	Comanche Peak 1	1,150	Texas Utilities Generating	PWR	W	4/90
Bay City	South Texas 1	1,250	Houston L&P	PWR	W	3/88
Bay City	South Texas 2	1,250	Houston L&P	PWR	W	3/89
Total Region VI		7,355				
Region VII - Central						
Iowa:						
Palo	Duane Arnold	515	Iowa Electric L&P	BWR	GE	5/74

See footnotes at end of table.

Table 74. Operable U.S. Nuclear Generating Units as of December 31, 1991 (Continued)

Site	Unit Name	Net Summer Capability (net MWe)	Utility ^a	Reactor ^b		Month Operable
				Type	Supplier	
Kansas:						
Burlington	Wolf Creek	1,131	Kansas City P&L and Kansas Gas & Electric	PWR	W	6/85
Missouri:						
Fulton	Callaway 1	1,125	Union Electric	PWR	W	10/84
Nebraska:						
Brownville	Cooper	778	Nebraska Public Power	BWR	GE	5/74
Fort Calhoun	Fort Calhoun 1	476	Omaha Public Power Dist.	PWR	C-E	8/73
Total Region VII		4,025				
Region VIII - North Central						
No operable nuclear generating units.						
Region IX - West						
Arizona:						
Wintersburg	Palo Verde 1	1,270	Arizona Public Service	PWR	C-E	6/85
Wintersburg	Palo Verde 2	1,270	Arizona Public Service	PWR	C-E	4/86
Wintersburg	Palo Verde 3	1,270	Arizona Public Service	PWR	C-E	11/87
California:						
Avila Beach	Diablo Canyon 1	1,073	Pacific Gas and Electric	PWR	W	11/84
Avila Beach	Diablo Canyon 2	1,087	Pacific Gas and Electric	PWR	W	8/85
San Clemente	San Onofre 1	436	Southern Calif. Edison	PWR	W	7/67
San Clemente	San Onofre 2	1,070	Southern Calif. Edison	PWR	C-E	9/82
San Clemente	San Onofre 3	1,080	Southern Calif. Edison	PWR	C-E	9/83
Total Region IX		8,556				
Region - Northwest						
Oregon:						
Prescott	Trojan	1,104	Portland General Elec.	PWR	W	12/75
Richland	WNP 2	1,100	Washington Public Power Supply System	BWR	GE	4/84
Total Region X		2,204				
Total United States (111 Units) ^c		99,589 ^d				

^aPrincipal (majority) owner.

^bReactor Type: BWR, boiling-water reactor; PWR, pressurized-water reactor. Reactor Supplier: B&W, Babcock and Wilcox Co.; C-E, Combustion Engineering, Inc.; GE, General Electric; W, Westinghouse Electric Corporation.

^cThis total is comprised of 37 BWR's (31,849 MWe) and 74 PWR's (67,740 MWe).

^dTotals may not equal sum of components due to independent rounding.

Note: "Operable" units are those that have been issued a full-power license by the Nuclear Regulatory Commission; retired units are not included.

Source: Energy Information Administration (EIA) Form-860, "Annual Electric Generator Report 1991."

Table 75. Roster of U.S. Nuclear Generating Units in the Construction Pipeline as of December 31, 1991

Site	Unit Name	Net Summer Capability ^a (net MWe)	Utility ^b	Reactor ^c		Status ^d		Estimated Operable Year	
				Type	Supplier	% Complete	License	EIA ^e	
								Ref	HEG
Region I -- New England									
Region II -- NY/NJ		0 ^f							
Region III -- Middle Atlantic		0							
Region IV -- South Atlantic									
Alabama									
Scottsboro	Bellefonte 1	1,212	Tennessee Valley Authority	PWR	B&W	85	ID	2001	2000
Scottsboro	Bellefonte 2	1,212	Tennessee Valley Authority	PWR	B&W	56	ID	--	2002
Tennessee									
Spring City	Watts Bar 1	1,170	Tennessee Valley Authority	PWR	W	99	CP	1994	1994
Spring City	Watts Bar 2	1,170	Tennessee Valley Authority	PWR	W	84	CP	1996	1996
Total Region IV		4,764							
Region V -- Midwest									
Ohio									
North Perry	Perry 2	1,169	Cleveland Electric Illuminating	BWR	GE	44	ID	--	--
Total Region V		1,169							
Region VI -- Southwest									
Texas									
Glen Rose	Comanche Peak 2	1,150	Texas Utilities Generating Co.	PWR	W	87	CP	1994	1993
Total Region VI		1,150							
Region VII -- Central		0							
Region VIII -- North Central		0							
Region IX -- West		0							

See footnotes at end of table.

**Table 75. Roster of U.S. Nuclear Generating Units in the Construction Pipeline as of December 31, 1991
(Continued)**

Site	Unit Name	Net Summer Capability ^a (net MWe)	Utility ^b	Reactor ^c		Status ^d		Estimated Operable Year	
				Type	Sup-plier	% Com-plete	Li-cense	EIA ^e	
								Ref	HEG
Region X -- Northwest									
Washington									
Richland	WNP 1	1,255	Washington Power Supply System	PWR	B&W	63	ID	2005	2002
Satsop	WNP 3	1,230	Washington Power Supply System	PWR	C-E	75	ID	--	--
Total Region X		2,485							
Total United States (8 Units) ^g		9,568							

^aAs reported to the Energy Information Administration (EIA) Form EIA-860, "Annual Electric Generator Report 1991"; this value is estimated by the utility.

^bPrincipal owner.

^cReactor Type: BWR, boiling-water reactor; PWR, pressurized-water reactor. Reactor Suppliers: B&W, Babcock and Wilcox Co.; C-E, Combustion Engineering, Inc.; GE, General Electric Corporation; W, Westinghouse Corp.

^dLicense Status: CP, construction permit issued; ID, indefinitely deferred.

^eRef=Reference Case; HEG=High Economic Growth Case. Except for the High Economic Growth Case, the nuclear projections for all other cases are identical to the Reference Case.

^fShoreham received a possession-only license in June 1991 and is not scheduled to operate.

^gThis total is comprised of 1 BWR (1,169 MWe) and 7 PWR's (8,399 MWe).

Sources: Nuclear Regulatory Commission, *Licensed Operation Reactors*, NUREG-0020 (December 1983); Nuclear Regulatory Commission, *Regulatory Licensing, Status Summary Report*, NUREG-0580 (January 1985); and Form EIA-254, "Semiannual Report on Status of Reactor Construction" (1990).

Oil and Gas Supply

Table 76. Crude Oil and Natural Gas Production by World Oil Price Case

Selected Values	1990	Projections					
		2000			2010		
		High World Oil Price	Reference	Low World Oil Price	High World Oil Price	Reference	Low World Oil Price
Crude Oil (million barrels per day)							
Alaska	1.77	1.01	0.93	0.82	1.01	0.74	0.41
Lower 48 Offshore	.95	1.05	.94	.79	1.02	.93	.75
Lower 48 Onshore Total	4.63	4.53	3.73	2.77	4.47	4.00	2.38
Lower 48 Onshore by Region							
East Coast	.17	.08	.08	.08	.11	.08	.04
Gulf Coast	1.03	.84	.71	.48	1.04	.91	.66
Midcontinent	.54	.60	.49	.30	.50	.49	.42
Permian Basin	1.44	1.40	1.11	.82	1.42	1.28	.45
Rocky Mountain	.63	.81	.71	.54	.57	.56	.51
West Coast	.81	.80	.64	.57	.84	.67	.30
Lower 48 Onshore by Source							
Conventional	3.97	3.69	3.12	2.24	3.39	3.13	2.00
Enhanced Oil Recovery	.66	.84	.62	.53	1.08	.87	.38
Total Crude Oil	7.36	6.58	5.61	4.38	6.50	5.67	3.54
Natural Gas (trillion cubic feet)							
Alaska	.38	.39	.39	.39	1.13	.89	.43
Lower 48 States	17.43	19.91	19.47	18.64	19.87	19.18	18.27
Lower 48 Onshore	12.18	15.94	15.61	14.95	16.64	16.05	15.36
East Coast	.84	1.09	1.10	1.09	1.48	1.43	1.34
Gulf Coast	4.77	5.86	5.80	5.59	6.66	6.39	6.16
Midcontinent	3.28	4.15	4.08	3.96	3.12	3.02	3.04
Permian Basin	1.49	1.72	1.56	1.36	1.81	1.74	1.43
Rocky Mountain	1.52	2.99	2.99	2.83	3.49	3.40	3.33
West Coast	.28	.13	.12	.11	.09	.08	.06
Lower 48 Offshore	5.25	3.98	3.86	3.69	3.23	3.13	2.91
Total Natural Gas	17.81	20.03	19.86	19.03	21.00	20.07	18.70

Notes: Supply regions are defined in the Appendix. Totals may not equal sum of components due to independent rounding.

Sources: 1990: Lower 48 Offshore Natural Gas: Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, DOE/EIA-0216(90) (Washington, DC, September 1991); Alaska, Total Natural Gas Production: *Natural Gas Annual 1991*, DOE/EIA-0131(91) (Washington, DC, October 1992); Alaska, Lower 48 Onshore, Lower 48 Offshore Crude Oil: *Petroleum Supply Annual 1990*, DOE/EIA-0340(90)/1 (Washington, DC, May 1991); Lower 48 Disaggregations: EIA, Office of Integrated Analysis and Forecasting. Figures for 1990 may differ from published data due to internal conversion factors within the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 77. Crude Oil and Natural Gas Production by Economic Growth Case

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Crude Oil (million barrels per day)							
Alaska	1.77	0.93	0.93	0.93	0.74	0.74	0.74
Lower 48 Offshore	.95	.95	.94	.94	.93	.93	.93
Lower 48 Onshore Total	4.63	3.66	3.73	3.75	3.95	4.00	3.92
Lower 48 Onshore by Region							
East Coast	.17	.08	.08	.08	.08	.08	.08
Gulf Coast	1.03	.70	.71	.71	.89	.91	.89
Midcontinent	.54	.48	.49	.50	.48	.49	.48
Permian Basin	1.44	1.07	1.11	1.12	1.26	1.28	1.26
Rocky Mountain	.63	.68	.71	.71	.56	.56	.55
West Coast	.81	.64	.64	.64	.68	.67	.66
Lower 48 Onshore by Source							
Conventional	3.97	3.04	3.12	3.14	3.08	3.13	3.05
Enhanced Oil Recovery	.66	.62	.62	.62	.87	.87	.87
Total Crude Oil	7.36	5.53	5.61	5.63	5.62	5.67	5.59
Natural Gas (trillion cubic feet)							
Alaska	.38	.39	.39	.39	.92	.89	.43
Lower 48 States	17.43	19.95	19.47	18.82	19.39	19.18	18.84
Lower 48 Onshore	12.18	16.05	15.61	14.99	16.25	16.05	15.75
East Coast	.84	1.16	1.10	1.04	1.46	1.43	1.36
Gulf Coast	4.77	5.89	5.80	5.55	6.48	6.39	6.23
Midcontinent	3.28	4.25	4.08	3.88	3.00	3.02	3.02
Permian Basin	1.49	1.59	1.56	1.54	1.75	1.74	1.71
Rocky Mountain	1.52	3.05	2.99	2.86	3.47	3.40	3.36
West Coast	.28	.12	.12	.12	.08	.08	.08
Lower 48 Offshore	5.25	3.90	3.86	3.83	3.14	3.13	3.09
Total Natural Gas	17.81	20.34	19.86	19.20	20.75	20.07	19.27

Notes: Supply regions are defined in the Appendix. Totals may not equal sum of components due to independent rounding.

Sources: 1990: Lower 48 Offshore Natural Gas: Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, DOE/EIA-0216(90) (Washington, DC, September 1991); Alaska, Total Natural Gas Production: *Natural Gas Annual 1991*, DOE/EIA-0131(91) (Washington, DC, October 1992); Alaska, Lower 48 Onshore, Lower 48 Offshore Crude Oil: *Petroleum Supply Annual 1990*, DOE/EIA-0340(90)/1 (Washington, DC, May 1991); Lower 48 Disaggregations: EIA, Office of Integrated Analysis and Forecasting. Figures for 1990 may differ from published data due to internal conversion factors within the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

Table 78. Crude Oil and Natural Gas Production by Oil and Gas Recovery Case

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Crude Oil (million barrels per day)							
Alaska	1.77	1.05	0.93	0.81	1.24	0.74	0.40
Lower 48 Offshore	.95	.97	.94	.92	1.02	.93	.86
Lower 48 Onshore Total	4.63	3.87	3.73	3.54	4.48	4.00	3.37
Lower 48 Onshore by Region							
East Coast	.17	.08	.08	.08	.08	.08	.08
Gulf Coast	1.03	.73	.71	.70	.96	.91	.82
Midcontinent	.54	.52	.49	.45	.59	.49	.37
Permian Basin	1.44	1.11	1.11	1.10	1.43	1.28	1.07
Rocky Mountain	.63	.77	.71	.62	.66	.56	.43
West Coast	.81	.68	.64	.60	.76	.67	.59
Lower 48 Onshore by Source							
Conventional	3.97	3.20	3.12	2.98	3.47	3.13	2.61
Enhanced Oil Recovery	.66	.68	.62	.56	1.01	.87	.76
Total Crude Oil	7.36	5.90	5.61	5.26	6.73	5.67	4.62
Natural Gas (trillion cubic feet)							
Alaska	.38	.39	.39	.39	.43	.89	1.59
Lower 48 States	17.43	19.91	19.47	19.00	21.17	19.18	18.31
Lower 48 Onshore	12.18	15.90	15.61	15.30	17.70	16.05	16.72
East Coast	.84	1.09	1.10	1.11	1.45	1.43	1.37
Gulf Coast	4.77	5.87	5.80	5.65	7.03	6.39	5.59
Midcontinent	3.28	4.24	4.08	3.90	3.55	3.02	2.34
Permian Basin	1.49	1.57	1.56	1.56	1.88	1.74	1.51
Rocky Mountain	1.52	3.01	2.99	2.96	3.72	3.40	3.04
West Coast	.28	.12	.12	.12	.08	.08	.08
Lower 48 Offshore	5.25	4.01	3.86	3.70	3.47	3.13	2.79
Total Natural Gas	17.81	20.29	19.86	19.39	21.60	20.07	18.31

Notes: Supply regions are defined in the Appendix. Totals may not equal sum of components due to independent rounding.

Sources: 1990: Lower 48 Offshore Natural Gas: Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, DOE/EIA-0216(90) (Washington, DC, September 1991); Alaska, Total Natural Gas Production: *Natural Gas Annual 1991*, DOE/EIA-0131(91) (Washington, DC, October 1991); Alaska Lower 48 Onshore, Lower 48 Offshore Crude Oil: *Petroleum Supply Annual 1990*, DOE/EIA-0340(90)/1 (Washington, DC, May 1991) Lower 48 Disaggregations: EIA, Office of Integrated Analysis and Forecasting. Figures for 1990 may differ from published data due to internal conversion factors within the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGE093.D0918923.

Table 79. Natural Gas Supply by World Oil Price Case
(Trillion Cubic Feet)

Selected Values	1990	Projections					
		2000			2010		
		High World Oil Price	Reference	Low World Oil Price	High World Oil Price	Reference	Low World Oil Price
Domestic Natural Gas Production							
Dry Gas Production							
Lower 48 Onshore	12.18	15.94	15.61	14.95	16.64	16.05	15.36
Nonassociated	10.14	14.27	14.21	13.96	15.04	14.57	14.38
Conventional	8.73	11.51	11.47	11.25	10.62	10.19	10.12
Unconventional	1.42	2.75	2.74	2.71	4.42	4.38	4.26
Associated-Dissolved	2.04	1.67	1.41	.98	1.61	1.48	.99
Lower 48 Offshore	5.25	3.98	3.86	3.69	3.23	3.13	2.91
Alaska	.38	.39	.39	.39	1.13	.89	.43
Total Dry Gas Production	17.81	20.30	19.86	19.03	21.00	20.07	18.70
Supplemental Supplies	.12	.10	.10	.10	.14	.14	.13
Total Domestic Production	17.93	20.40	19.96	19.13	21.14	20.21	18.84
Imports and Exports							
Imports							
Pipeline	1.45	2.38	2.70	2.73	2.93	3.22	3.62
Canada	1.45	2.38	2.70	2.73	2.72	3.02	3.44
Mexico	.00	.00	.00	.00	.21	.21	.18
Liquefied Natural Gas	.08	.77	.77	.77	1.31	1.27	1.03
Total Imports	1.53	3.15	3.46	3.49	4.23	4.49	4.64
Exports							
Pipeline	.03	.59	.4	.38	.70	.30	.30
Liquefied Natural Gas	.05	.05	.05	.05	.05	.05	.05
Total Exports	.09	.64	.46	.43	.75	.35	.35
Total Net Imports	1.45	2.51	3.01	3.06	3.48	4.15	4.30
Total Supply	19.38	22.91	22.97	22.19	24.62	24.36	23.13

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Lower 48 Offshore: Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, DOE/EIA-0216(90) (Washington, DC, September 1991); Alaska, Total Natural Gas Production, Supplemental Supplies, Imports and Exports: *Natural Gas Annual 1991*, DOE/EIA-0131(91) (Washington, DC, October 1992); Others: EIA, Office of Integrated Analysis and Forecasting. Figures for 1990 may differ from published data due to internal conversion factors within the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 80. Natural Gas Supply by Economic Growth Case
(Trillion Cubic Feet)

Selected Values	1990	Projections					
		2000			2010		
		High Economic Growth	Reference	Low Economic Growth	High Economic Growth	Reference	Low Economic Growth
Domestic Natural Gas Production							
Dry Gas Production							
Lower 48 Onshore	12.18	16.05	15.61	14.99	16.25	16.05	15.75
Nonassociated	10.14	14.68	14.21	13.57	14.80	14.57	14.31
Conventional	8.73	11.87	11.47	10.89	10.33	10.19	10.09
Unconventional	1.42	2.81	2.74	2.68	4.46	4.38	4.22
Associated-Dissolved	2.04	1.37	1.41	1.41	1.46	1.48	1.44
Lower 48 Offshore	5.25	3.90	3.86	3.83	3.14	3.13	3.09
Alaska	.38	.39	.39	.39	1.36	.89	.43
Total Dry Gas Production	17.81	20.34	19.86	19.20	20.75	20.07	19.27
Supplemental Supplies	.12	.10	.10	.10	.14	.14	.13
Total Domestic Production	17.93	20.44	19.96	19.31	20.89	20.21	19.40
Imports and Exports							
Imports							
Pipeline	1.45	2.78	2.70	2.51	3.30	3.22	3.18
Canada	1.45	2.78	2.70	2.51	3.10	3.02	2.98
Mexico	.00	.00	.00	.00	.21	.21	.21
Liquefied Natural Gas	.08	.77	.77	.77	1.31	1.27	1.03
Total Imports	1.53	3.54	3.46	3.27	4.61	4.49	4.21
Exports							
Pipeline	.03	.41	.41	.41	.30	.30	.30
Liquefied Natural Gas	.05	.05	.05	.05	.05	.05	.05
Total Exports	.09	.46	.46	.46	.35	.35	.35
Total Net Imports	1.45	3.09	3.01	2.82	4.27	4.15	3.86
Total Supply	19.38	23.53	22.97	22.12	25.16	24.36	23.26

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Lower 48 Offshore: Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, DOE/EIA-0216(90) (Washington, DC, September 1991); Alaska, Total Natural Gas Production, Supplemental Supplies, Imports and Exports: *Natural Gas Annual 1991*, DOE/EIA-0131(91) (Washington, DC, October 1992); Others: EIA, Office of Integrated Analysis and Forecasting. Figures for 1990 may differ from published data due to internal conversion factors within the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HM/AC93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMAC93.D0916924.

Table 81. Natural Gas Supply by Oil and Gas Recovery Case
(Trillion Cubic Feet)

Selected Values	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference	Low Oil and Gas Recovery
Domestic Natural Gas Production							
Dry Gas Production							
Lower 48 Onshore	12.18	15.90	15.61	15.30	17.70	16.05	13.93
Nonassociated	10.14	14.46	14.21	13.96	16.06	14.57	12.69
Conventional	8.73	11.54	11.47	11.39	11.00	10.19	8.86
Unconventional	1.42	2.92	2.74	2.57	5.06	4.38	3.83
Associated-Dissolved	2.04	1.44	1.41	1.34	1.65	1.48	1.24
Lower 48 Offshore	5.25	4.01	3.86	3.70	3.47	3.13	2.79
Alaska	.38	.39	.39	.39	.43	.89	1.59
Total Dry Gas Production	17.81	20.29	19.86	19.39	21.60	20.07	18.31
Supplemental Supplies	.12	.10	.10	.10	.13	.14	.15
Total Domestic Production	17.93	20.40	19.96	19.49	21.73	20.21	18.45
Imports and Exports							
Imports							
Pipeline	1.45	2.46	2.70	2.73	3.08	3.22	3.44
Canada	1.45	2.46	2.70	2.73	2.88	3.02	3.24
Mexico	.00	.00	.00	.00	.21	.21	.21
Liquefied Natural Gas	.08	.77	.77	.77	1.03	1.27	1.31
Total Imports	1.53	3.22	3.46	3.49	4.11	4.49	4.75
Exports							
Pipeline	.03	.41	.41	.41	.30	.30	.30
Liquefied Natural Gas	.05	.05	.05	.05	.05	.05	.05
Total Exports	.09	.46	.46	.46	.35	.35	.35
Total Net Imports	1.45	2.77	3.01	3.04	3.76	4.15	4.41
Total Supply	19.38	23.16	22.97	22.52	25.50	24.36	22.86

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Lower 48 Offshore: Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, DOE/EIA-0216(90) (Washington, DC, September 1991); Alaska, Total Natural Gas Production, Supplemental Supplies, Imports and Exports: *Natural Gas Annual 1991*, DOE/EIA-0131(91) (Washington, DC, October 1992); Others: EIA, Office of Integrated Analysis and Forecasting. Figures for 1990 may differ from published data due to internal conversion factors within the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

End-Use Energy Consumption by World Oil Price Case

**Table 82. End-Use Energy Consumption by World Oil Price Case
New England Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential							
Distillate Fuel	0.218	0.178	0.187	0.204	0.112	0.128	0.162
Kerosene	.008	.002	.002	.002	.000	.000	.000
Liquefied Petroleum Gas	.019	.020	.020	.020	.020	.020	.020
Natural Gas	.181	.200	.198	.196	.191	.186	.178
Coal	.002	.002	.002	.002	.002	.002	.002
Renewable Energy ¹	.064	.109	.109	.109	.141	.141	.141
Electricity	.127	.149	.150	.151	.167	.169	.170
Total	.619	.661	.668	.685	.633	.646	.673
Commercial							
Distillate Fuel	.071	.079	.081	.085	.066	.072	.084
Kerosene	.002	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.003	.004	.004	.004	.004	.004	.004
Residual Fuel	.048	.037	.037	.037	.028	.028	.028
Natural Gas	.106	.126	.125	.124	.134	.132	.129
Other ³	.005	.004	.004	.004	.003	.003	.003
Renewable Energy ¹	.003	.012	.012	.012	.015	.015	.015
Electricity	.133	.148	.148	.148	.161	.161	.159
Total	.371	.411	.412	.416	.412	.416	.424
Industrial ⁴							
Distillate Fuel	.024	.027	.029	.033	.028	.031	.038
Liquefied Petroleum Gas	.006	.010	.010	.011	.012	.012	.013
Motor Gasoline ²	.004	.006	.006	.006	.006	.007	.007
Petrochemical Feedstocks	.017	.018	.019	.021	.021	.023	.025
Residual Fuel	.092	.069	.081	.121	.066	.080	.124
Other Petroleum ⁵	.062	.066	.067	.070	.067	.068	.071
Natural Gas ⁶	.058	.072	.072	.071	.074	.075	.075
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.011	.014	.014	.014	.014	.014	.014
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.075	.115	.112	.109	.141	.133	.128
Purchased Electricity	.088	.098	.100	.102	.116	.119	.124
Total	.438	.495	.511	.558	.545	.560	.618
Transportation							
Distillate Fuel	.133	.152	.154	.156	.168	.173	.176
Jet Fuel	.074	.084	.086	.090	.091	.094	.100
Motor Gasoline ²	.701	.724	.750	.791	.713	.761	.836
Residual Fuel	.006	.007	.007	.007	.008	.008	.008
Other Petroleum ⁷	.008	.009	.009	.009	.009	.010	.010
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.002	.002	.002	.021	.016	.017
Alcohol Fuels	.000	.002	.001	.001	.015	.011	.012
Electricity	.004	.005	.005	.005	.009	.009	.010
Total	.926	.985	1.013	1.061	1.035	1.081	1.168
Electric Utilities ⁸							
Distillate Fuel	.007	.003	.002	.003	.010	.005	.010
Residual Fuel	.277	.285	.294	.375	.305	.328	.403
Natural Gas	.068	.072	.072	.004	.069	.070	.008
Steam Coal ⁹	.166	.163	.164	.163	.156	.156	.157
Nuclear Power	.401	.433	.433	.433	.431	.431	.431
Renewable Energy/Other ¹⁰	.193	.279	.279	.278	.430	.429	.429
Total	1.113	1.235	1.243	1.256	1.402	1.420	1.438

- See footnotes at end of table.

**Table 82. End-Use Energy Consumption by World Oil Price Case
New England Region (Continued)**
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Primary Energy Consumption							
Distillate Fuel	0.453	0.439	0.453	0.481	0.385	0.408	0.469
Kerosene	.009	.004	.004	.004	.001	.001	.001
Jet Fuel	.074	.084	.086	.090	.091	.094	.100
Liquefied Petroleum Gas	.029	.034	.034	.035	.034	.035	.036
Motor Gasoline	.708	.733	.759	.800	.723	.772	.847
Petrochemical Feedstocks	.017	.018	.019	.021	.021	.023	.025
Residual Fuel	.424	.398	.419	.540	.407	.444	.562
Other Petroleum ¹¹	.070	.074	.075	.078	.075	.077	.080
Natural Gas	.413	.472	.469	.397	.490	.479	.408
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.181	.181	.181	.181	.173	.173	.173
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Nuclear Power	.401	.433	.433	.433	.431	.431	.431
Renewable Energy/Other ¹²	.293	.434	.431	.428	.581	.573	.567
Alcohols	.000	.002	.001	.001	.015	.011	.012
Total	3.072	3.305	3.363	3.487	3.428	3.520	3.710
Electricity Consumption (all Sectors)	.353	.401	.403	.407	.453	.458	.464
Industrial Electricity							
Gross Consumption	.104	.133	.134	.137	.153	.156	.161
Self-generation - Own Use	.016	.034	.034	.034	.037	.037	.037
Purchased Electricity	.088	.098	.100	.102	.116	.119	.124

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 83. End-Use Energy Consumption by World Oil Price Case
New York/New Jersey Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential							
Distillate Fuel	0.253	0.205	0.215	0.235	0.128	0.147	0.185
Kerosene	.009	.003	.003	.003	.000	.000	.000
Liquefied Petroleum Gas	.020	.021	.021	.021	.020	.020	.020
Natural Gas	.527	.562	.556	.550	.514	.501	.479
Coal	.005	.005	.005	.005	.005	.005	.005
Renewable Energy ¹	.047	.106	.106	.106	.136	.136	.136
Electricity	.201	.234	.235	.237	.262	.265	.267
Total	1.061	1.135	1.140	1.157	1.066	1.074	1.093
Commercial							
Distillate Fuel	.125	.139	.143	.150	.115	.126	.147
Kerosene	.001	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.011	.013	.013	.013	.014	.014	.014
Residual Fuel	.127	.096	.096	.096	.070	.070	.070
Natural Gas	.305	.353	.351	.349	.363	.359	.350
Other ³	.008	.006	.006	.006	.005	.005	.005
Renewable Energy ¹	.011	.030	.030	.030	.047	.047	.047
Electricity	.286	.318	.318	.318	.343	.343	.339
Total	.875	.955	.957	.963	.959	.964	.973
Industrial ⁴							
Distillate Fuel	.037	.041	.044	.050	.043	.047	.058
Liquefied Petroleum Gas	.013	.021	.022	.023	.024	.025	.027
Motor Gasoline ²	.008	.010	.010	.011	.012	.012	.013
Petrochemical Feedstocks	.098	.106	.111	.122	.124	.132	.146
Residual Fuel	.040	.030	.035	.053	.029	.036	.055
Other Petroleum ⁵	.204	.210	.214	.222	.213	.217	.226
Natural Gas ⁶	.196	.226	.227	.224	.227	.229	.229
Metallurgical Coal	.047	.038	.039	.039	.033	.033	.033
Steam Coal	.054	.068	.067	.067	.067	.066	.066
Net Coal Coke Imports	.000	.002	.002	.002	.005	.005	.005
Renewable Energy ¹	.028	.061	.060	.059	.089	.086	.084
Purchased Electricity	.154	.169	.172	.176	.202	.208	.217
Total	.878	.983	1.003	1.048	1.068	1.096	1.158
Transportation							
Distillate Fuel	.206	.236	.239	.243	.262	.269	.274
Jet Fuel	.289	.314	.323	.336	.334	.348	.367
Motor Gasoline ²	1.169	1.199	1.241	1.309	1.176	1.255	1.379
Residual Fuel	.085	.096	.097	.097	.110	.110	.112
Other Petroleum ⁷	.013	.014	.014	.014	.016	.016	.016
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.005	.004	.004	.043	.032	.036
Alcohol Fuels	.000	.006	.005	.005	.048	.034	.037
Electricity	.009	.011	.011	.012	.029	.028	.031
Total	1.771	1.882	1.934	2.021	2.019	2.094	2.252
Electric Utilities ⁸							
Distillate Fuel	.015	.002	.002	.002	.012	.011	.120
Residual Fuel	.346	.229	.237	.253	.438	.434	.742
Natural Gas	.280	.333	.337	.343	.486	.477	.120
Steam Coal ⁹	.332	.271	.272	.273	.274	.300	.274
Nuclear Power	.509	.598	.599	.599	.511	.511	.511
Renewable Energy/Other ¹⁰	.297	.496	.496	.495	.574	.573	.573
Total	1.778	1.929	1.942	1.967	2.296	2.306	2.339

- See footnotes at end of table.

**Table 83. End-Use Energy Consumption by World Oil Price Case
New York/New Jersey Region (Continued)**
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Primary Energy Consumption							
Distillate Fuel	0.636	0.623	0.643	0.679	0.562	0.600	0.784
Kerosene	.010	.004	.004	.004	.001	.001	.001
Jet Fuel	.289	.314	.323	.336	.334	.343	.367
Liquefied Petroleum Gas	.037	.046	.047	.048	.047	.049	.051
Motor Gasoline	1.189	1.222	1.264	1.333	1.201	1.281	1.406
Petrochemical Feedstocks	.098	.106	.111	.122	.124	.132	.146
Residual Fuel	.598	.451	.465	.500	.648	.650	.979
Other Petroleum ¹¹	.216	.224	.227	.236	.228	.233	.241
Natural Gas	1.308	1.479	1.475	1.471	1.633	1.597	1.213
Metallurgical Coal	.047	.038	.039	.039	.033	.033	.033
Steam Coal	.395	.346	.347	.348	.348	.374	.347
Net Coal Coke Imports	.000	.002	.002	.002	.005	.005	.005
Nuclear Power	.509	.598	.599	.599	.511	.511	.511
Renewable Energy/Other ¹²	.379	.605	.603	.602	.756	.753	.750
Alcohols	.000	.006	.005	.005	.048	.034	.037
Total	5.711	6.065	6.152	6.323	6.481	6.600	6.871
Electricity Consumption (all Sectors)	.649	.733	.736	.744	.837	.844	.854
Industrial Electricity							
Gross Consumption	.165	.226	.229	.233	.263	.269	.278
Self-generation - Own Use	.011	.056	.056	.057	.061	.061	.061
Purchased Electricity	.154	.169	.172	.176	.202	.208	.217

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 84. End-Use Energy Consumption by World Oil Price Case
Mid-Atlantic Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential							
Distillate Fuel	0.154	0.120	0.125	0.135	0.072	0.080	0.098
Kerosene	.018	.010	.010	.010	.003	.003	.003
Liquefied Petroleum Gas	.018	.019	.019	.019	.017	.017	.017
Natural Gas	.433	.472	.470	.469	.454	.448	.439
Coal	.020	.019	.019	.019	.019	.019	.019
Renewable Energy ¹	.109	.193	.193	.193	.252	.252	.252
Electricity	.332	.371	.372	.374	.415	.419	.421
Total	1.084	1.203	1.206	1.218	1.232	1.237	1.249
Commercial							
Distillate Fuel	.061	.065	.066	.069	.053	.056	.064
Kerosene	.002	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.008	.009	.009	.009	.010	.010	.010
Residual Fuel	.010	.008	.008	.008	.006	.006	.006
Natural Gas	.234	.279	.278	.278	.299	.297	.293
Other ³	.025	.020	.020	.020	.015	.015	.015
Renewable Energy ¹	.015	.038	.038	.038	.054	.054	.054
Electricity	.281	.331	.331	.331	.376	.376	.375
Total	.635	.750	.750	.753	.812	.814	.816
Industrial ⁴							
Distillate Fuel	.083	.088	.093	.105	.091	.097	.119
Liquefied Petroleum Gas	.027	.038	.040	.044	.043	.046	.052
Motor Gasoline ²	.014	.017	.017	.018	.018	.019	.020
Petrochemical Feedstocks	.119	.134	.141	.156	.161	.171	.192
Residual Fuel	.030	.024	.028	.042	.022	.027	.042
Other Petroleum ⁵	.314	.302	.307	.320	.298	.304	.316
Natural Gas ⁶	.461	.540	.537	.525	.534	.536	.526
Metallurgical Coal	.394	.342	.343	.343	.291	.292	.292
Steam Coal	.274	.306	.305	.302	.300	.297	.293
Net Coal Coke Imports	.002	.018	.018	.021	.049	.049	.052
Renewable Energy ¹	.079	.132	.128	.125	.154	.146	.141
Purchased Electricity	.343	.390	.395	.403	.457	.467	.483
Total	2.140	2.331	2.352	2.403	2.418	2.451	2.529
Transportation							
Distillate Fuel	.347	.408	.413	.419	.478	.490	.499
Jet Fuel	.211	.245	.252	.262	.294	.306	.323
Motor Gasoline ²	1.326	1.400	1.449	1.528	1.452	1.550	1.702
Residual Fuel	.053	.062	.062	.063	.074	.075	.076
Other Petroleum ⁷	.019	.020	.020	.020	.023	.023	.023
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.000	.000	.000
Alcohol Fuels	.000	.000	.000	.000	.000	.000	.000
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	1.956	2.135	2.196	2.293	2.321	2.444	2.623
Electric Utilities ⁸							
Distillate Fuel	.013	.029	.029	.064	.031	.035	.130
Residual Fuel	.107	.144	.157	.205	.166	.155	.261
Natural Gas	.039	.055	.057	.002	.193	.242	.270
Steam Coal ⁹	2.266	2.461	2.465	2.473	2.665	2.639	2.524
Nuclear Power	.889	.943	.943	.943	.939	.939	.939
Renewable Energy/Other ¹⁰	.085	.107	.107	.107	.169	.170	.171
Total	3.399	3.739	3.759	3.793	4.164	4.179	4.295

- See footnotes at end of table.

**Table 84. End-Use Energy Consumption by World Oil Price Case
Mid-Atlantic Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Primary Energy Consumption							
Distillate Fuel	0.658	0.710	0.726	0.791	0.725	0.759	0.910
Kerosene	.019	.011	.011	.011	.004	.004	.004
Jet Fuel	.211	.245	.252	.262	.294	.306	.323
Liquefied Petroleum Gas	.049	.061	.063	.067	.064	.066	.072
Motor Gasoline	1.348	1.425	1.475	1.555	1.480	1.578	1.732
Petrochemical Feedstocks	.119	.134	.141	.156	.161	.171	.192
Residual Fuel	.201	.237	.254	.317	.269	.263	.384
Other Petroleum ¹¹	.332	.320	.326	.339	.319	.326	.338
Natural Gas	1.167	1.347	1.342	1.274	1.479	1.522	1.529
Metallurgical Coal	.394	.342	.343	.343	.291	.292	.292
Steam Coal	2.582	2.803	2.806	2.811	2.996	2.967	2.848
Net Coal Coke Imports	.002	.018	.018	.021	.049	.049	.052
Nuclear Power	.889	.943	.943	.943	.939	.939	.939
Renewable Energy/Other ¹²	.288	.469	.465	.462	.629	.621	.618
Alcohols	.000	.000	.000	.000	.000	.000	.000
Total	8.258	9.070	9.170	9.350	9.700	9.860	10.230
Electricity Consumption (all Sectors)	.956	1.091	1.098	1.108	1.248	1.262	1.279
Industrial Electricity							
Gross Consumption	.372	.452	.457	.465	.523	.533	.550
Self-generation - Own Use	.029	.062	.062	.062	.067	.067	.067
Purchased Electricity	.343	.390	.395	.403	.457	.467	.483

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 85. End-Use Energy Consumption by World Oil Price Case
South Atlantic Region
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential							
Distillate Fuel	0.037	0.027	0.028	0.029	0.015	0.016	0.018
Kerosene	.017	.015	.015	.015	.006	.006	.006
Liquefied Petroleum Gas	.077	.081	.081	.081	.067	.067	.067
Natural Gas	.337	.348	.348	.352	.319	.321	.327
Coal	.007	.007	.007	.007	.007	.007	.007
Renewable Energy ¹	.177	.313	.313	.313	.410	.410	.410
Electricity	.789	.880	.881	.886	.984	.989	.994
Total	1.440	1.669	1.671	1.681	1.808	1.816	1.828
Commercial							
Distillate Fuel	.053	.054	.055	.056	.043	.045	.048
Kerosene	.001	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.023	.027	.028	.028	.030	.030	.030
Residual Fuel	.017	.013	.013	.013	.010	.010	.010
Natural Gas	.275	.316	.317	.319	.324	.325	.327
Other ³	.027	.023	.023	.023	.017	.017	.017
Renewable Energy ¹	.018	.055	.055	.055	.083	.083	.083
Electricity	.559	.688	.688	.689	.798	.799	.798
Total	.975	1.178	1.178	1.183	1.305	1.309	1.314
Industrial ⁴							
Distillate Fuel	.184	.196	.205	.228	.204	.217	.264
Liquefied Petroleum Gas	.064	.079	.085	.098	.086	.094	.112
Motor Gasoline ²	.031	.037	.038	.040	.042	.043	.045
Petrochemical Feedstocks	.096	.109	.115	.128	.132	.141	.158
Residual Fuel	.058	.050	.058	.089	.050	.059	.093
Other Petroleum ⁵	.451	.425	.433	.452	.416	.426	.444
Natural Gas ⁶	.735	.885	.870	.835	.891	.884	.847
Metallurgical Coal	.104	.103	.103	.103	.087	.087	.088
Steam Coal	.440	.457	.454	.448	.445	.440	.433
Net Coal Coke Imports	.000	.007	.007	.008	.018	.018	.019
Renewable Energy ¹	.650	.737	.704	.680	.771	.717	.681
Purchased Electricity	.684	.829	.838	.850	.986	1.004	1.032
Total	3.497	3.913	3.910	3.959	4.128	4.129	4.215
Transportation							
Distillate Fuel	.786	.953	.965	.979	1.145	1.174	1.195
Jet Fuel	.506	.582	.597	.622	.727	.756	.798
Motor Gasoline ²	2.691	2.925	3.028	3.195	3.138	3.350	3.680
Residual Fuel	.068	.082	.083	.083	.101	.102	.103
Other Petroleum ⁷	.041	.047	.047	.048	.057	.058	.059
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.003	.003	.003
Alcohol Fuels	.000	.000	.000	.000	.004	.003	.003
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	4.093	4.591	4.721	4.928	5.176	5.446	5.840
Electric Utilities ⁸							
Distillate Fuel	.019	.014	.016	.059	.020	.019	.141
Residual Fuel	.249	.365	.380	.824	.383	.387	.797
Natural Gas	.280	.562	.581	.170	.813	.795	.457
Steam Coal ⁹	3.810	4.148	4.149	4.148	4.713	4.766	4.765
Nuclear Power	1.597	1.971	1.971	1.971	2.089	2.089	2.089
Renewable Energy/Other ¹⁰	.438	.452	.452	.451	.498	.499	.498
Total	6.392	7.513	7.549	7.624	8.517	8.555	8.748

- See footnotes at end of table.

**Table 85. End-Use Energy Consumption by World Oil Price Case
South Atlantic Region (Continued)**
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Primary Energy Consumption							
Distillate Fuel	1.079	1.244	1.268	1.352	1.427	1.470	1.666
Kerosene	.018	.016	.016	.016	.007	.007	.007
Jet Fuel	.506	.582	.597	.622	.727	.756	.798
Liquefied Petroleum Gas	.160	.178	.184	.197	.170	.178	.195
Motor Gasoline	2.746	2.990	3.094	3.262	3.210	3.423	3.755
Petrochemical Feedstocks	.096	.109	.115	.128	.132	.141	.158
Residual Fuel	.392	.510	.534	1.010	.543	.557	1.003
Other Petroleum ¹¹	.488	.466	.474	.494	.466	.476	.495
Natural Gas	1.625	2.111	2.117	1.675	2.351	2.329	1.961
Metallurgical Coal	.104	.103	.103	.103	.087	.087	.088
Steam Coal	4.270	4.622	4.619	4.613	5.172	5.219	5.212
Net Coal Coke Imports	.000	.007	.007	.008	.018	.018	.019
Nuclear Power	1.597	1.971	1.971	1.971	2.089	2.089	2.089
Renewable Energy/Other ¹²	1.283	1.557	1.524	1.499	1.763	1.709	1.672
Alcohols	.000	.000	.000	.000	.004	.003	.003
Total	14.360	16.470	16.620	16.950	18.170	18.460	19.120
Electricity Consumption (all Sectors)	2.032	2.396	2.406	2.425	2.768	2.792	2.825
Industrial Electricity							
Gross Consumption	.755	.927	.937	.949	1.093	1.112	1.141
Self-generation - Own Use	.071	.098	.099	.099	.108	.108	.109
Purchased Electricity	.684	.829	.838	.850	.986	1.004	1.032

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 86. End-Use Energy Consumption by World Oil Price Case
Midwest Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential							
Distillate Fuel	0.106	0.080	0.083	0.089	0.049	0.053	0.061
Kerosene	.007	.010	.010	.010	.006	.006	.006
Liquefied Petroleum Gas	.085	.106	.106	.106	.088	.088	.088
Natural Gas	1.483	1.650	1.653	1.669	1.601	1.613	1.628
Coal	.017	.017	.017	.017	.017	.017	.017
Renewable Energy ¹	.160	.311	.311	.311	.407	.407	.407
Electricity	.507	.568	.567	.569	.623	.623	.621
Total	2.365	2.742	2.746	2.770	2.791	2.807	2.828
Commercial							
Distillate Fuel	.050	.049	.050	.051	.037	.038	.041
Kerosene	.002	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.024	.026	.026	.026	.028	.028	.028
Residual Fuel	.006	.004	.004	.004	.003	.003	.003
Natural Gas	.783	.851	.852	.860	.809	.815	.824
Other ³	.047	.038	.038	.038	.028	.028	.028
Renewable Energy ¹	.015	.033	.033	.033	.055	.055	.055
Electricity	.460	.534	.532	.532	.580	.576	.571
Total	1.385	1.537	1.536	1.544	1.541	1.545	1.551
Industrial ⁴							
Distillate Fuel	.169	.211	.227	.267	.222	.242	.309
Liquefied Petroleum Gas	.139	.251	.264	.288	.283	.302	.339
Motor Gasoline ²	.031	.045	.046	.048	.051	.052	.055
Petrochemical Feedstocks	.111	.130	.136	.148	.157	.167	.185
Residual Fuel	.063	.087	.103	.155	.082	.101	.163
Other Petroleum ⁵	.677	.626	.637	.662	.626	.640	.664
Natural Gas ⁶	1.218	1.478	1.456	1.444	1.548	1.544	1.546
Metallurgical Coal	.456	.460	.461	.461	.392	.392	.392
Steam Coal	.462	.496	.497	.493	.618	.618	.614
Net Coal Coke Imports	.002	.031	.031	.035	.078	.078	.083
Renewable Energy ¹	.192	.231	.223	.218	.271	.257	.248
Purchased Electricity	.747	.951	.972	.985	1.158	1.190	1.222
Total	4.267	4.996	5.052	5.205	5.486	5.583	5.820
Transportation							
Distillate Fuel	.643	.724	.733	.743	.800	.821	.835
Jet Fuel	.295	.320	.328	.342	.343	.357	.376
Motor Gasoline ²	2.412	2.455	2.541	2.681	2.422	2.586	2.841
Residual Fuel	.003	.003	.003	.003	.003	.003	.003
Other Petroleum ⁷	.049	.052	.052	.053	.059	.059	.060
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.006	.005	.005
Alcohol Fuels	.000	.001	.001	.001	.012	.009	.009
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	3.401	3.555	3.658	3.822	3.646	3.839	4.130
Electric Utilities ⁸							
Distillate Fuel	.003	.021	.027	.031	.013	.013	.023
Residual Fuel	.029	.018	.042	.033	.008	.007	.253
Natural Gas	.049	.492	.541	.564	.859	.877	.890
Steam Coal ⁹	4.097	4.357	4.388	4.395	4.802	4.887	4.772
Nuclear Power	1.368	1.482	1.482	1.482	1.407	1.407	1.407
Renewable Energy/Other ¹⁰	-.040	.157	.157	.157	.200	.200	.200
Total	5.504	6.527	6.637	6.662	7.289	7.391	7.544

- See footnotes at end of table.

**Table 86. End-Use Energy Consumption by World Oil Price Case
Midwest Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Primary Energy Consumption							
Distillate Fuel	0.970	1.085	1.119	1.180	1.122	1.166	1.269
Kerosene	.009	.011	.011	.011	.007	.007	.007
Jet Fuel	.295	.320	.328	.342	.343	.357	.376
Liquefied Petroleum Gas	.245	.378	.391	.415	.389	.408	.445
Motor Gasoline	2.467	2.526	2.613	2.755	2.501	2.666	2.924
Petrochemical Feedstocks	.111	.130	.136	.148	.157	.167	.185
Residual Fuel	.100	.112	.152	.196	.097	.116	.423
Other Petroleum ¹¹	.721	.671	.682	.708	.676	.691	.716
Natural Gas	3.532	4.472	4.502	4.537	4.822	4.854	4.893
Metallurgical Coal	.456	.460	.461	.461	.392	.392	.392
Steam Coal	4.608	4.895	4.926	4.929	5.455	5.540	5.420
Net Coal Coke Imports	.002	.031	.031	.035	.078	.078	.083
Nuclear Power	1.368	1.482	1.482	1.482	1.407	1.407	1.407
Renewable Energy/Other ¹²	.400	.710	.702	.697	.912	.898	.889
Alcohols	.000	.001	.001	.001	.012	.009	.009
Total	15.280	17.280	17.540	17.900	18.370	18.760	19.440
Electricity Consumption (all Sectors)	1.714	2.054	2.071	2.086	2.362	2.389	2.413
Industrial Electricity							
Gross Consumption	.798	1.058	1.052	1.071	1.271	1.275	1.314
Self-generation - Own Use	.051	.107	.080	.086	.113	.086	.093
Purchased Electricity	.747	.951	.972	.985	1.158	1.190	1.222

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 87. End-Use Energy Consumption by World Oil Price Case
Southwest Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential							
Distillate Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Kerosene	.005	.005	.005	.005	.003	.003	.003
Liquefied Petroleum Gas	.052	.048	.048	.048	.039	.039	.039
Natural Gas	.403	.419	.419	.423	.386	.389	.395
Coal	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.045	.113	.113	.113	.146	.146	.146
Electricity	.462	.504	.505	.508	.553	.556	.558
Total	.967	1.090	1.091	1.098	1.127	1.133	1.142
Commercial							
Distillate Fuel	.041	.044	.044	.045	.033	.034	.037
Kerosene	.003	.002	.002	.002	.002	.002	.002
Motor Gasoline ²	.017	.019	.019	.019	.020	.020	.020
Residual Fuel	.008	.006	.006	.006	.005	.005	.005
Natural Gas	.292	.310	.332	.334	.338	.340	.342
Other ³	.009	.008	.008	.008	.006	.006	.006
Renewable Energy ¹	.014	.035	.035	.035	.047	.047	.047
Electricity	.378	.451	.450	.452	.506	.507	.507
Total	.762	.895	.896	.900	.956	.959	.964
Industrial ⁴							
Distillate Fuel	.306	.322	.337	.376	.341	.362	.441
Liquefied Petroleum Gas	1.206	1.458	1.563	1.809	1.634	1.783	2.113
Motor Gasoline ²	.034	.041	.042	.044	.046	.047	.050
Petrochemical Feedstocks	.594	.679	.716	.795	.819	.874	.981
Residual Fuel	.083	.076	.088	.134	.075	.088	.139
Other Petroleum ⁵	1.168	1.078	1.099	1.148	1.079	1.104	1.150
Natural Gas ⁶	3.277	3.964	3.901	3.745	3.996	3.964	3.802
Metallurgical Coal	.002	.002	.002	.002	.002	.002	.002
Steam Coal	.109	.113	.113	.111	.110	.109	.107
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.726	.787	.755	.732	.824	.775	.742
Purchased Electricity	.492	.609	.616	.625	.734	.748	.769
Total	7.997	9.130	9.230	9.520	9.660	9.860	10.300
Transportation							
Distillate Fuel	.640	.771	.780	.792	.917	.939	.956
Jet Fuel	.637	.814	.835	.870	.967	1.005	1.060
Motor Gasoline ²	1.755	1.928	1.995	2.105	2.024	2.161	2.373
Residual Fuel	.301	.360	.362	.366	.444	.448	.453
Other Petroleum ⁷	.037	.042	.042	.043	.050	.051	.051
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.000	.000	.000
Alcohol Fuels	.000	.000	.000	.000	.006	.005	.005
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	3.369	3.914	4.015	4.175	4.408	4.608	4.898
Electric Utilities ⁸							
Distillate Fuel	.001	.000	.000	.068	.000	.000	.098
Residual Fuel	.008	.037	.038	.038	.033	.032	.032
Natural Gas	1.553	1.911	1.935	1.904	1.968	1.849	1.616
Steam Coal ⁹	2.226	2.360	2.360	2.360	2.832	2.991	3.226
Nuclear Power	.444	.577	.577	.577	.580	.580	.580
Renewable Energy/Other ¹⁰	.130	.136	.136	.136	.139	.139	.139
Total	4.362	5.021	5.045	5.083	5.552	5.592	5.690

- See footnotes at end of table.

**Table 87. End-Use Energy Consumption by World Oil Price Case
Southwest Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Primary Energy Consumption							
Distillate Fuel	0.989	1.137	1.162	1.280	1.290	1.335	1.532
Kerosene	.008	.007	.007	.007	.005	.005	.005
Jet Fuel	.637	.814	.835	.870	.967	1.005	1.060
Liquefied Petroleum Gas	1.269	1.517	1.623	1.869	1.684	1.833	2.163
Motor Gasoline	1.806	1.987	2.056	2.167	2.090	2.228	2.443
Petrochemical Feedstocks	.594	.679	.716	.795	.819	.874	.981
Residual Fuel	.400	.479	.494	.544	.557	.573	.628
Other Petroleum ¹¹	1.202	1.115	1.136	1.186	1.123	1.149	1.196
Natural Gas	5.525	6.625	6.588	6.407	6.689	6.542	6.155
Metallurgical Coal	.002	.002	.002	.002	.002	.002	.002
Steam Coal	2.335	2.473	2.473	2.471	2.943	3.100	3.334
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Nuclear Power	.444	.577	.577	.577	.580	.580	.580
Renewable Energy/Other ¹²	.916	1.078	1.046	1.023	1.168	1.120	1.086
Alcohols	.000	.000	.000	.000	.006	.005	.005
Total	16.130	18.490	18.710	19.200	19.920	20.350	21.170
Electricity Consumption (all Sectors)	1.332	1.565	1.572	1.585	1.794	1.811	1.834
Industrial Electricity							
Gross Consumption	.643	.772	.779	.789	.899	.913	.935
Self-generation - Own Use	.151	.163	.163	.164	.165	.165	.166
Purchased Electricity	.492	.609	.616	.625	.734	.748	.769

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 88. End-Use Energy Consumption by World Oil Price Case
Central Region
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential							
Distillate Fuel	0.011	0.008	0.008	0.009	0.005	0.005	0.006
Kerosene	.001	.001	.001	.001	.000	.000	.000
Liquefied Petroleum Gas	.039	.049	.049	.049	.040	.041	.041
Natural Gas	.300	.335	.336	.339	.326	.329	.332
Coal	.002	.002	.002	.002	.002	.002	.002
Renewable Energy ¹	.052	.093	.093	.093	.123	.123	.123
Electricity	.166	.185	.184	.185	.201	.201	.200
Total	.571	.673	.673	.678	.698	.701	.704
Commercial							
Distillate Fuel	.012	.012	.012	.012	.009	.009	.010
Kerosene	.000	.000	.000	.000	.000	.000	.000
Motor Gasoline ²	.005	.005	.005	.005	.006	.006	.006
Residual Fuel	.000	.000	.000	.000	.000	.000	.000
Natural Gas	.213	.232	.232	.234	.220	.222	.225
Other ³	.012	.010	.010	.010	.007	.007	.007
Renewable Energy ¹	.000	.004	.004	.004	.008	.008	.008
Electricity	.145	.169	.168	.168	.183	.182	.180
Total	.387	.432	.431	.433	.433	.434	.435
Industrial ⁴							
Distillate Fuel	.088	.111	.119	.140	.116	.126	.161
Liquefied Petroleum Gas	.055	.101	.107	.116	.116	.124	.140
Motor Gasoline ²	.018	.027	.027	.029	.030	.031	.033
Petrochemical Feedstocks	.042	.048	.051	.055	.059	.062	.069
Residual Fuel	.006	.009	.011	.017	.009	.011	.018
Other Petroleum ⁵	.162	.154	.157	.163	.158	.161	.167
Natural Gas ⁶	.316	.401	.395	.392	.429	.428	.429
Metallurgical Coal	.001	.006	.006	.006	.005	.005	.005
Steam Coal	.084	.091	.091	.090	.110	.110	.109
Net Coal Coke Imports	.000	.000	.000	.000	.001	.001	.001
Renewable Energy ¹	.017	.024	.023	.023	.026	.027	.026
Purchased Electricity	.138	.178	.182	.184	.215	.221	.227
Total	.927	1.150	1.168	1.216	1.275	1.307	1.384
Transportation							
Distillate Fuel	.239	.271	.274	.278	.302	.310	.316
Jet Fuel	.098	.107	.110	.114	.115	.119	.126
Motor Gasoline ²	.719	.730	.755	.797	.717	.765	.841
Residual Fuel	.000	.000	.000	.000	.000	.000	.001
Other Petroleum ⁷	.018	.019	.019	.019	.021	.022	.022
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.005	.004	.004
Alcohol Fuels	.000	.000	.000	.000	.002	.002	.002
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	1.075	1.128	1.159	1.210	1.164	1.223	1.311
Electric Utilities ⁸							
Distillate Fuel	.002	.007	.007	.012	.005	.004	.011
Residual Fuel	.002	.000	.000	.023	.000	.010	.013
Natural Gas	.039	.214	.221	.193	.240	.220	.239
Steam Coal ⁹	1.187	1.337	1.340	1.344	1.491	1.510	1.501
Nuclear Power	.283	.273	.273	.273	.272	.272	.272
Renewable Energy/Other ¹⁰	.044	.040	.040	.040	.043	.043	.043
Total	1.558	1.872	1.882	1.887	2.051	2.059	2.079

- See footnotes at end of table.

**Table 88. End-Use Energy Consumption by World Oil Price Case
Central Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Primary Energy Consumption							
Distillate Fuel	0.352	0.409	0.421	0.452	0.437	0.455	0.504
Kerosene	.001	.001	.001	.001	.001	.001	.001
Jet Fuel	.098	.107	.110	.114	.115	.119	.126
Liquefied Petroleum Gas	.103	.159	.164	.174	.164	.172	.187
Motor Gasoline	.742	.762	.788	.831	.753	.802	.879
Petrochemical Feedstocks	.042	.048	.051	.055	.059	.062	.069
Residual Fuel	.009	.010	.012	.041	.010	.022	.031
Other Petroleum ¹¹	.178	.171	.174	.180	.176	.180	.187
Natural Gas	.868	1.182	1.184	1.158	1.221	1.203	1.228
Metallurgical Coal	.001	.006	.006	.006	.005	.005	.005
Steam Coal	1.278	1.433	1.437	1.440	1.606	1.625	1.615
Net Coal Coke Imports	.000	.000	.000	.000	.001	.001	.001
Nuclear Power	.283	.273	.273	.273	.272	.272	.272
Renewable Energy/Other ¹²	.113	.162	.161	.161	.202	.201	.200
Alcohols	.000	.000	.000	.000	.002	.002	.002
Total	4.068	4.723	4.781	4.887	5.022	5.121	5.306
Electricity Consumption (all Sectors)	.449	.531	.534	.537	.599	.603	.607
Industrial Electricity							
Gross Consumption	.142	.188	.192	.194	.226	.232	.238
Self-generation - Own Use	.004	.010	.010	.010	.011	.011	.011
Purchased Electricity	.138	.178	.182	.184	.215	.221	.227

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 89. End-Use Energy Consumption by World Oil Price Case
North Central Region
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential							
Distillate Fuel	0.015	0.011	0.011	0.012	0.007	0.008	0.009
Kerosene	.000	.000	.000	.000	.000	.000	.000
Liquefied Petroleum Gas	.020	.016	.016	.016	.011	.011	.011
Natural Gas	.202	.203	.203	.205	.200	.202	.205
Coal	.004	.004	.004	.004	.004	.004	.004
Renewable Energy ¹	.023	.045	.045	.045	.059	.059	.059
Electricity	.087	.101	.101	.101	.115	.115	.116
Total	.351	.380	.381	.384	.398	.400	.404
Commercial							
Distillate Fuel	.013	.014	.014	.014	.011	.011	.011
Kerosene	.000	.000	.000	.000	.000	.000	.000
Motor Gasoline ²	.003	.004	.004	.004	.004	.004	.004
Residual Fuel	.008	.006	.006	.006	.004	.004	.004
Natural Gas	.136	.165	.165	.166	.182	.183	.184
Other ³	.012	.009	.009	.009	.007	.007	.007
Renewable Energy ¹	.003	.010	.010	.010	.014	.014	.014
Electricity	.100	.120	.120	.120	.136	.136	.136
Total	.274	.328	.328	.330	.358	.359	.361
Industrial ⁴							
Distillate Fuel	.094	.102	.107	.123	.107	.115	.140
Liquefied Petroleum Gas	.018	.023	.025	.027	.026	.028	.031
Motor Gasoline ²	.015	.019	.020	.021	.022	.023	.024
Petrochemical Feedstocks	.001	.002	.002	.002	.002	.002	.003
Residual Fuel	.005	.010	.012	.017	.009	.011	.017
Other Petroleum ⁵	.137	.133	.136	.142	.134	.137	.143
Natural Gas ⁶	.169	.260	.258	.256	.270	.266	.265
Metallurgical Coal	.033	.024	.024	.024	.021	.021	.021
Steam Coal	.167	.182	.182	.181	.200	.201	.199
Net Coal Coke Imports	.000	.002	.002	.002	.005	.005	.005
Renewable Energy ¹	.014	.027	.026	.026	.028	.027	.026
Purchased Electricity	.108	.126	.128	.129	.149	.154	.159
Total	.762	.910	.921	.950	.975	.991	1.033
Transportation							
Distillate Fuel	.152	.182	.184	.187	.211	.216	.220
Jet Fuel	.091	.110	.113	.118	.123	.128	.135
Motor Gasoline ²	.448	.483	.500	.527	.497	.531	.583
Residual Fuel	.000	.000	.000	.000	.000	.000	.000
Other Petroleum ⁷	.010	.012	.012	.012	.014	.014	.014
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.003	.002	.002	.023	.016	.018
Alcohol Fuels	.000	.000	.000	.000	.001	.001	.001
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	.702	.790	.811	.846	.869	.906	.971
Electric Utilities ⁸							
Distillate Fuel	.000	.021	.022	.023	.030	.036	.033
Residual Fuel	.002	.002	.002	.002	.003	.002	.002
Natural Gas	.007	.021	.023	.026	.180	.177	.205
Steam Coal ⁹	1.523	1.570	1.572	1.575	1.576	1.577	1.577
Nuclear Power	.000	.000	.000	.000	.000	.000	.000
Renewable Energy/Other ¹⁰	.212	.294	.294	.293	.318	.321	.317
Total	1.744	1.907	1.912	1.920	2.108	2.113	2.134

- See footnotes at end of table.

**Table 89. End-Use Energy Consumption by World Oil Price Case
North Central Region (Continued)**
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Primary Energy Consumption							
Distillate Fuel	0.274	0.329	0.338	0.358	0.367	0.386	0.414
Kerosene	.000	.000	.000	.000	.000	.000	.000
Jet Fuel	.091	.110	.113	.118	.123	.128	.135
Liquefied Petroleum Gas	.042	.044	.045	.047	.041	.043	.046
Motor Gasoline	.466	.506	.524	.552	.524	.558	.611
Petrochemical Feedstocks	.001	.002	.002	.002	.002	.002	.003
Residual Fuel	.015	.018	.020	.025	.017	.017	.023
Other Petroleum ¹¹	.147	.144	.147	.153	.146	.149	.155
Natural Gas	.514	.651	.651	.656	.856	.845	.877
Metallurgical Coal	.033	.024	.024	.024	.021	.021	.021
Steam Coal	1.703	1.762	1.765	1.767	1.785	1.786	1.784
Net Coal Coke Imports	.000	.002	.002	.002	.005	.005	.005
Nuclear Power	.000	.000	.000	.000	.000	.000	.000
Renewable Energy/Other ¹²	.247	.367	.366	.366	.391	.393	.388
Alcohols	.000	.000	.000	.000	.001	.001	.001
Total	3.534	3.960	3.997	4.070	4.279	4.335	4.464
Electricity Consumption (all Sectors)	.295	.346	.348	.350	.400	.405	.410
Industrial Electricity							
Gross Consumption	.111	.139	.141	.143	.163	.168	.173
Self-generation - Own Use	.003	.013	.013	.013	.014	.014	.014
Purchased Electricity	.108	.126	.128	.129	.149	.154	.159

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 90. End-Use Energy Consumption by World Oil Price Case
West Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential							
Distillate Fuel	0.003	0.003	0.003	0.003	0.002	0.002	0.003
Kerosene	.000	.000	.000	.000	.000	.000	.000
Liquefied Petroleum Gas	.028	.018	.018	.018	.012	.012	.012
Natural Gas	.576	.572	.573	.579	.568	.574	.580
Coal	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.060	.124	.124	.124	.167	.167	.167
Electricity	.303	.371	.371	.373	.438	.439	.441
Total	.969	1.087	1.089	1.097	1.187	1.194	1.203
Commercial							
Distillate Fuel	.035	.037	.038	.038	.031	.031	.032
Kerosene	.000	.000	.000	.000	.000	.000	.000
Motor Gasoline ²	.012	.014	.014	.014	.015	.015	.015
Residual Fuel	.006	.004	.004	.004	.003	.003	.003
Natural Gas	.308	.382	.382	.385	.428	.431	.434
Other ³	.005	.004	.004	.004	.003	.003	.003
Renewable Energy ¹	.008	.024	.024	.024	.030	.030	.030
Electricity	.375	.472	.471	.473	.553	.552	.553
Total	.748	.937	.937	.942	1.063	1.066	1.070
Industrial ⁴							
Distillate Fuel	.132	.135	.141	.158	.145	.154	.183
Liquefied Petroleum Gas	.065	.082	.086	.093	.092	.097	.109
Motor Gasoline ²	.018	.024	.024	.025	.028	.028	.030
Petrochemical Feedstocks	.026	.039	.041	.045	.048	.052	.058
Residual Fuel	.021	.045	.052	.074	.041	.049	.073
Other Petroleum ⁵	.484	.479	.489	.511	.481	.492	.513
Natural Gas ⁶	.506	.786	.779	.773	.815	.802	.799
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.093	.098	.099	.098	.102	.104	.102
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.111	.134	.130	.127	.147	.139	.134
Purchased Electricity	.277	.330	.334	.339	.404	.418	.430
Total	1.732	2.150	2.175	2.243	2.303	2.335	2.430
Transportation							
Distillate Fuel	.478	.600	.608	.616	.712	.730	.744
Jet Fuel	.705	.860	.882	.919	.990	1.029	1.086
Motor Gasoline ²	1.866	2.116	2.191	2.311	2.233	2.384	2.619
Residual Fuel	.386	.474	.477	.481	.576	.580	.586
Other Petroleum ⁷	.034	.040	.040	.041	.048	.048	.049
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.010	.008	.008	.088	.062	.068
Alcohol Fuels	.000	.020	.013	.014	.138	.088	.094
Electricity	.001	.005	.005	.006	.040	.037	.042
Total	3.469	4.126	4.224	4.397	4.824	4.959	5.288
Electric Utilities ⁸							
Distillate Fuel	.019	.000	.000	.013	.003	.004	.037
Residual Fuel	.120	.133	.152	.180	.153	.173	.167
Natural Gas	.522	.659	.713	.757	.800	.809	.780
Steam Coal ⁹	.494	.527	.527	.527	.704	.809	.948
Nuclear Power	.572	.544	.544	.544	.546	.546	.546
Renewable Energy/Other ¹⁰	.649	1.228	1.174	1.120	1.701	1.573	1.445
Total	2.375	3.091	3.111	3.142	3.907	3.914	3.924

- See footnotes at end of table.

**Table 90. End-Use Energy Consumption by World Oil Price Case
West Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Primary Energy Consumption							
Distillate Fuel	0.667	0.775	0.790	0.829	0.893	0.922	0.998
Kerosene	.000	.000	.000	.000	.000	.000	.000
Jet Fuel	.705	.860	.882	.919	.990	1.029	1.086
Liquefied Petroleum Gas	.102	.110	.113	.120	.113	.119	.131
Motor Gasoline	1.895	2.154	2.229	2.350	2.276	2.427	2.663
Petrochemical Feedstocks	.026	.039	.041	.045	.048	.052	.058
Residual Fuel	.532	.656	.686	.740	.773	.806	.830
Other Petroleum ¹¹	.515	.514	.524	.546	.522	.534	.555
Natural Gas	1.911	2.408	2.455	2.503	2.699	2.678	2.661
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.587	.625	.626	.625	.806	.913	1.050
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Nuclear Power	.572	.544	.544	.544	.546	.546	.546
Renewable Energy/Other ¹²	.796	1.472	1.414	1.357	1.999	1.863	1.730
Alcohols	.000	.020	.013	.014	.138	.088	.094
Total	8.307	10.180	10.320	10.590	11.800	11.970	12.400
Electricity Consumption (all Sectors)	.955	1.177	1.182	1.190	1.434	1.446	1.466
Industrial Electricity							
Gross Consumption	.311	.381	.386	.391	.460	.474	.487
Self-generation - Own Use	.035	.052	.052	.052	.056	.056	.057
Purchased Electricity	.277	.330	.334	.339	.404	.418	.430

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 91. End-Use Energy Consumption by World Oil Price Case
Northwest Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential							
Distillate Fuel	0.040	0.035	0.036	0.039	0.032	0.034	0.038
Kerosene	.000	.000	.000	.000	.000	.000	.000
Liquefied Petroleum Gas	.006	.004	.004	.004	.002	.002	.002
Natural Gas	.078	.077	.077	.078	.076	.077	.078
Coal	.004	.004	.004	.004	.004	.004	.004
Renewable Energy ¹	.095	.141	.141	.141	.190	.190	.190
Electricity	.180	.208	.209	.210	.238	.238	.240
Total	.403	.470	.471	.475	.543	.546	.552
Commercial							
Distillate Fuel	.026	.027	.027	.027	.021	.022	.022
Kerosene	.000	.000	.000	.000	.000	.000	.000
Motor Gasoline ²	.005	.006	.006	.006	.006	.006	.006
Residual Fuel	.011	.009	.009	.009	.006	.006	.006
Natural Gas	.108	.134	.134	.135	.150	.151	.152
Other ³	.009	.007	.007	.007	.005	.005	.005
Renewable Energy ¹	.007	.014	.014	.014	.021	.021	.021
Electricity	.146	.175	.175	.176	.193	.193	.193
Total	.312	.371	.371	.373	.404	.405	.406
Industrial ⁴							
Distillate Fuel	.064	.064	.067	.076	.069	.073	.087
Liquefied Petroleum Gas	.014	.017	.018	.019	.018	.020	.022
Motor Gasoline ²	.010	.013	.013	.014	.015	.015	.016
Petrochemical Feedstocks	.000	.000	.000	.000	.000	.000	.000
Residual Fuel	.016	.036	.041	.058	.033	.039	.058
Other Petroleum ⁵	.167	.168	.172	.179	.172	.176	.184
Natural Gas ⁶	.265	.412	.408	.405	.427	.420	.419
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.018	.019	.019	.019	.020	.020	.020
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.180	.213	.204	.197	.232	.216	.205
Purchased Electricity	.195	.228	.232	.234	.275	.284	.293
Total	.929	1.170	1.174	1.202	1.261	1.264	1.302
Transportation							
Distillate Fuel	.206	.250	.253	.257	.290	.298	.303
Jet Fuel	.224	.321	.329	.343	.415	.432	.455
Motor Gasoline ²	.490	.526	.544	.574	.534	.570	.626
Residual Fuel	.122	.150	.150	.152	.182	.183	.185
Other Petroleum ⁷	.015	.017	.017	.018	.021	.021	.021
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.003	.002	.002	.022	.015	.017
Alcohol Fuels	.000	.001	.001	.001	.007	.005	.005
Electricity	.000	.000	.000	.000	.002	.002	.002
Total	1.056	1.267	1.297	1.346	1.472	1.524	1.614
Electric Utilities ⁸							
Distillate Fuel	.007	.048	.063	.034	.044	.058	.049
Residual Fuel	.000	.000	.000	.000	.000	.000	.000
Natural Gas	.043	.112	.115	.137	.134	.117	.137
Steam Coal ⁹	.100	.116	.117	.116	.266	.321	.323
Nuclear Power	.127	.071	.075	.073	.161	.161	.161
Renewable Energy/Other ¹⁰	1.489	1.497	1.497	1.496	1.537	1.536	1.535
Total	1.766	1.844	1.867	1.856	2.142	2.194	2.204

- See footnotes at end of table.

**Table 91. End-Use Energy Consumption by World Oil Price Case
Northwest Region (Continued)**
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Primary Energy Consumption							
Distillate Fuel	0.343	0.424	0.446	0.431	0.457	0.485	0.498
Kerosene	.000	.000	.000	.000	.000	.000	.000
Jet Fuel	.224	.321	.329	.343	.415	.432	.455
Liquefied Petroleum Gas	.022	.024	.025	.026	.024	.026	.028
Motor Gasoline	.505	.545	.564	.594	.555	.591	.648
Petrochemical Feedstocks	.000	.000	.000	.000	.000	.000	.000
Residual Fuel	.149	.194	.200	.218	.221	.228	.249
Other Petroleum ¹¹	.180	.183	.187	.195	.190	.194	.202
Natural Gas	.494	.737	.737	.757	.809	.781	.802
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.130	.145	.147	.146	.295	.350	.352
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Nuclear Power	.127	.071	.075	.073	.161	.161	.161
Renewable Energy/Other ¹²	1.763	1.826	1.816	1.809	1.925	1.908	1.895
Alcohols	.000	.001	.001	.001	.007	.005	.005
Total	3.937	4.471	4.527	4.593	5.059	5.161	5.296
Electricity Consumption (all Sectors)	.521	.612	.615	.620	.708	.717	.728
Industrial Electricity							
Gross Consumption	.205	.244	.245	.256	.314	.299	.316
Self-generation - Own Use	.009	.016	.013	.022	.040	.015	.024
Purchased Electricity	.195	.228	.232	.234	.275	.284	.293

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 92. End-Use Energy Consumption by World Oil Price Case
United States
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential							
Distillate Fuel	0.840	0.670	0.700	0.750	0.420	0.470	0.580
Kerosene	.060	.050	.050	.050	.020	.020	.020
Liquefied Petroleum Gas	.370	.380	.380	.380	.320	.320	.320
Natural Gas	4.520	4.840	4.830	4.860	4.640	4.640	4.640
Coal	.060	.060	.060	.060	.060	.060	.060
Renewable Energy ¹	.830	1.550	1.550	1.550	2.030	2.030	2.030
Electricity	3.150	3.570	3.570	3.590	4.000	4.010	4.030
Total	9.830	11.110	11.140	11.240	11.480	11.550	11.680
Commercial							
Distillate Fuel	.490	.520	.530	.550	.420	.440	.500
Kerosene	.010	.010	.010	.010	.010	.010	.010
Motor Gasoline ²	.110	.130	.130	.130	.140	.140	.140
Residual Fuel	.240	.180	.180	.180	.140	.140	.140
Natural Gas	2.760	3.170	3.170	3.180	3.250	3.250	3.260
Other ³	.160	.130	.130	.130	.100	.100	.100
Renewable Energy ¹	.100	.250	.250	.250	.370	.370	.370
Electricity	2.860	3.400	3.400	3.410	3.830	3.830	3.810
Total	6.720	7.790	7.800	7.840	8.240	8.270	8.310
Industrial ⁴							
Distillate Fuel	1.180	1.300	1.370	1.550	1.370	1.460	1.800
Liquefied Petroleum Gas	1.610	2.080	2.220	2.530	2.330	2.530	2.960
Motor Gasoline ²	.180	.240	.240	.260	.270	.280	.290
Petrochemical Feedstocks	1.100	1.260	1.330	1.470	1.520	1.620	1.820
Residual Fuel	.410	.440	.510	.760	.420	.500	.780
Other Petroleum ⁵	3.830	3.640	3.710	3.870	3.640	3.730	3.880
Natural Gas ⁶	8.470	10.350	10.210	9.930	10.620	10.500	10.200
Metallurgical Coal	1.040	.980	.980	.980	.830	.830	.830
Steam Coal	1.710	1.840	1.840	1.830	1.990	1.980	1.960
Net Coal Coke Imports	.000	.060	.060	.070	.160	.160	.170
Renewable Energy ¹	2.070	2.460	2.360	2.290	2.680	2.520	2.410
Purchased Electricity	3.230	3.910	3.970	4.030	4.700	4.810	4.960
Total	24.840	28.560	28.800	29.560	30.530	30.920	32.050
Transportation							
Distillate Fuel	3.830	4.550	4.600	4.670	5.290	5.420	5.520
Jet Fuel	3.130	3.760	3.850	4.020	4.400	4.570	4.830
Motor Gasoline ²	13.580	14.490	14.990	15.820	14.910	15.910	17.480
Residual Fuel	1.020	1.230	1.240	1.250	1.500	1.510	1.530
Other Petroleum ⁷	.240	.270	.270	.280	.320	.320	.330
Pipeline Fuel Natural Gas	.680	.710	.720	.700	.830	.810	.730
Compressed Natural Gas	.000	.020	.020	.020	.210	.150	.170
Alcohol Fuels	.000	.030	.020	.020	.230	.160	.170
Electricity	.010	.020	.020	.020	.080	.080	.090
Total	22.500	25.090	25.740	26.800	27.760	28.930	30.820
Electric Utilities ⁸							
Distillate Fuel	.090	.140	.170	.310	.170	.190	.650
Residual Fuel	1.140	1.210	1.300	1.940	1.490	1.530	2.670
Natural Gas	2.880	4.430	4.600	4.100	5.740	5.630	4.720
Steam Coal ⁹	16.200	17.310	17.350	17.370	19.480	19.960	20.060
Nuclear Power	6.190	6.890	6.900	6.900	6.940	6.940	6.940
Renewable Energy/Other ¹⁰	3.490	4.690	4.630	4.570	5.610	5.480	5.350
Total	29.990	34.680	34.950	35.190	39.430	39.720	40.390

- See footnotes at end of table.

**Table 92. End-Use Energy Consumption by World Oil Price Case
United States (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Primary Energy Consumption							
Distillate Fuel	6.420	7.170	7.370	7.830	7.660	7.990	9.040
Kerosene	.080	.050	.050	.050	.030	.030	.030
Jet Fuel	3.130	3.760	3.850	4.020	4.400	4.570	4.830
Liquefied Petroleum Gas	2.060	2.550	2.690	3.000	2.730	2.930	3.360
Motor Gasoline	13.870	14.850	15.360	16.200	15.310	16.330	17.910
Petrochemical Feedstocks	1.100	1.260	1.330	1.470	1.520	1.620	1.820
Residual Fuel	2.820	3.070	3.240	4.130	3.540	3.680	5.110
Other Petroleum ¹¹	4.050	3.880	3.950	4.120	3.920	4.010	4.160
Natural Gas	19.310	23.530	23.540	22.790	25.290	24.990	23.720
Metallurgical Coal	1.040	.980	.980	.980	.830	.830	.830
Steam Coal	18.070	19.290	19.330	19.330	21.580	22.050	22.140
Net Coal Coke Imports	.000	.060	.060	.070	.160	.160	.170
Nuclear Power	6.190	6.890	6.900	6.900	6.940	6.940	6.940
Renewable Energy/Other ¹²	6.490	8.950	8.800	8.670	10.700	10.410	10.170
Alcohols	.000	.030	.020	.020	.230	.160	.170
Total	84.630	96.320	97.470	99.600	104.800	106.700	110.400
Electricity Consumption (all Sectors)	9.260	10.910	10.970	11.050	12.600	12.730	12.880
Industrial Electricity							
Gross Consumption	3.580	4.520	4.550	4.630	5.370	5.430	5.590
Self-generation - Own Use	.390	.610	.580	.600	.670	.620	.640
Purchased Electricity	3.230	3.910	3.970	4.030	4.700	4.810	4.960

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

End-Use Energy Consumption by Economic Growth Case

**Table 93. End-Use Energy Consumption by Economic Growth Case
New England Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential							
Distillate Fuel	0.218	0.186	0.187	0.188	0.129	0.128	0.126
Kerosene	.008	.002	.002	.002	.000	.000	.000
Liquefied Petroleum Gas	.019	.020	.020	.020	.020	.020	.019
Natural Gas	.181	.197	.198	.198	.187	.186	.186
Coal	.002	.002	.002	.002	.002	.002	.002
Renewable Energy ¹	.064	.109	.109	.109	.141	.141	.141
Electricity	.127	.152	.150	.149	.174	.169	.164
Total	.619	.669	.668	.668	.653	.646	.638
Commercial							
Distillate Fuel	.071	.081	.081	.081	.073	.072	.071
Kerosene	.002	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.003	.004	.004	.003	.004	.004	.004
Residual Fuel	.048	.037	.037	.037	.028	.028	.028
Natural Gas	.106	.125	.125	.124	.134	.132	.131
Other ³	.005	.004	.004	.004	.003	.003	.003
Renewable Energy ¹	.003	.013	.012	.012	.016	.015	.015
Electricity	.133	.148	.148	.148	.163	.161	.160
Total	.371	.414	.412	.411	.421	.416	.413
Industrial ⁴							
Distillate Fuel	.024	.030	.029	.028	.032	.031	.029
Liquefied Petroleum Gas	.006	.011	.010	.010	.013	.012	.012
Motor Gasoline ²	.004	.006	.006	.005	.007	.007	.006
Petrochemical Feedstocks	.017	.020	.019	.018	.024	.023	.021
Residual Fuel	.092	.083	.081	.080	.084	.080	.076
Other Petroleum ⁵	.062	.068	.067	.065	.070	.068	.066
Natural Gas ⁶	.058	.073	.072	.070	.079	.075	.072
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.011	.014	.014	.014	.014	.014	.014
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.075	.114	.112	.089	.144	.133	.092
Purchased Electricity	.088	.106	.100	.094	.131	.119	.107
Total	.438	.524	.511	.475	.597	.560	.494
Transportation							
Distillate Fuel	.133	.161	.154	.146	.186	.173	.159
Jet Fuel	.074	.093	.086	.079	.109	.094	.080
Motor Gasoline ²	.701	.761	.750	.737	.799	.761	.724
Residual Fuel	.006	.007	.007	.007	.008	.008	.007
Other Petroleum ⁷	.008	.009	.009	.008	.010	.010	.009
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.002	.002	.002	.015	.016	.017
Alcohol Fuels	.000	.001	.001	.001	.011	.011	.011
Electricity	.004	.005	.005	.005	.010	.009	.009
Total	.926	1.040	1.013	.985	1.148	1.081	1.016
Electric Utilities ⁸							
Distillate Fuel	.007	.002	.002	.003	.007	.005	.005
Residual Fuel	.277	.298	.294	.271	.340	.328	.272
Natural Gas	.068	.067	.072	.072	.072	.070	.070
Steam Coal ⁹	.166	.164	.164	.163	.156	.156	.156
Nuclear Power	.401	.433	.433	.433	.450	.431	.431
Renewable Energy/Other ¹⁰	.193	.305	.279	.277	.458	.429	.423
Total	1.113	1.269	1.243	1.219	1.483	1.420	1.356

- See footnotes at end of table.

**Table 93. End-Use Energy Consumption by Economic Growth Case
New England Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Primary Energy Consumption							
Distillate Fuel	0.453	0.460	0.453	0.446	0.427	0.408	0.390
Kerosene	.009	.004	.004	.004	.001	.001	.001
Jet Fuel	.074	.093	.086	.079	.109	.094	.080
Liquefied Petroleum Gas	.029	.034	.034	.034	.035	.035	.034
Motor Gasoline	.708	.771	.759	.746	.810	.772	.734
Petrochemical Feedstocks	.017	.020	.019	.018	.024	.023	.021
Residual Fuel	.424	.425	.419	.394	.460	.444	.383
Other Petroleum ¹¹	.070	.076	.075	.073	.079	.077	.074
Natural Gas	.413	.465	.469	.466	.486	.479	.475
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.181	.181	.181	.181	.173	.173	.172
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Nuclear Power	.401	.433	.433	.433	.450	.431	.431
Renewable Energy/Other ¹²	.293	.460	.431	.406	.613	.573	.526
Alcohols	.000	.001	.001	.001	.011	.011	.011
Total	3.072	3.424	3.363	3.281	3.679	3.520	3.332
Electricity Consumption (all Sectors)	.353	.412	.403	.396	.477	.458	.439
Industrial Electricity							
Gross Consumption	.104	.141	.134	.127	.170	.156	.140
Self-generation - Own Use	.016	.035	.034	.032	.039	.037	.033
Purchased Electricity	.088	.106	.100	.094	.131	.119	.107

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

**Table 94. End-Use Energy Consumption by Economic Growth Case
New York/New Jersey Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential							
Distillate Fuel	0.253	0.214	0.215	0.217	0.148	0.147	0.145
Kerosene	.009	.003	.003	.003	.000	.000	.000
Liquefied Petroleum Gas	.020	.021	.021	.021	.021	.020	.020
Natural Gas	.527	.555	.556	.555	.504	.501	.499
Coal	.005	.005	.005	.005	.005	.005	.005
Renewable Energy ¹	.047	.106	.106	.106	.136	.136	.136
Electricity	.201	.239	.235	.233	.274	.265	.257
Total	1.061	1.142	1.140	1.140	1.087	1.074	1.062
Commercial							
Distillate Fuel	.125	.143	.143	.143	.127	.126	.124
Kerosene	.001	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.011	.013	.013	.012	.014	.014	.013
Residual Fuel	.127	.096	.096	.096	.070	.070	.070
Natural Gas	.305	.351	.351	.350	.362	.359	.355
Other ³	.008	.006	.006	.006	.005	.005	.005
Renewable Energy ¹	.011	.032	.030	.030	.050	.047	.047
Electricity	.286	.318	.318	.317	.346	.343	.341
Total	.875	.962	.957	.955	.975	.964	.956
Industrial ⁴							
Distillate Fuel	.037	.045	.044	.042	.049	.047	.044
Liquefied Petroleum Gas	.013	.022	.022	.021	.026	.025	.024
Motor Gasoline ²	.008	.011	.010	.010	.013	.012	.011
Petrochemical Feedstocks	.098	.114	.111	.107	.140	.132	.123
Residual Fuel	.040	.036	.035	.035	.038	.036	.034
Other Petroleum ⁵	.204	.218	.214	.209	.223	.217	.211
Natural Gas ⁶	.196	.231	.227	.221	.240	.229	.219
Metallurgical Coal	.047	.039	.039	.038	.033	.033	.032
Steam Coal	.054	.068	.067	.067	.067	.066	.066
Net Coal Coke Imports	.000	.002	.002	.001	.005	.005	.005
Renewable Energy ¹	.028	.068	.060	.051	.100	.086	.067
Purchased Electricity	.154	.182	.172	.162	.228	.208	.187
Total	.878	1.037	1.003	.966	1.162	1.096	1.023
Transportation							
Distillate Fuel	.206	.250	.239	.227	.290	.269	.248
Jet Fuel	.283	.350	.323	.295	.401	.348	.295
Motor Gasoline ²	1.169	1.261	1.241	1.220	1.318	1.255	1.195
Residual Fuel	.085	.100	.097	.094	.116	.110	.104
Other Petroleum ⁷	.013	.014	.014	.014	.017	.016	.015
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.004	.004	.004	.031	.032	.034
Alcohol Fuels	.000	.004	.005	.005	.034	.034	.035
Electricity	.009	.012	.011	.011	.029	.028	.027
Total	1.771	1.995	1.934	1.870	2.236	2.094	1.953
Electric Utilities ⁸							
Distillate Fuel	.015	.002	.002	.002	.008	.011	.007
Residual Fuel	.346	.244	.237	.212	.418	.434	.407
Natural Gas	.280	.340	.337	.325	.449	.477	.435
Steam Coal ⁹	.332	.272	.272	.268	.379	.300	.273
Nuclear Power	.509	.599	.599	.599	.511	.511	.511
Renewable Energy/Other ¹⁰	.297	.530	.496	.494	.607	.573	.566
Total	1.778	1.988	1.942	1.901	2.373	2.306	2.199

- See footnotes at end of table.

**Table 94. End-Use Energy Consumption by Economic Growth Case
New York/New Jersey Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Primary Energy Consumption							
Distillate Fuel	0.636	0.655	0.643	0.631	0.622	0.600	0.567
Kerosene	.010	.004	.004	.004	.001	.001	.001
Jet Fuel	.289	.350	.323	.295	.401	.348	.295
Liquefied Petroleum Gas	.037	.047	.047	.046	.050	.049	.047
Motor Gasoline	1.189	1.285	1.264	1.243	1.345	1.281	1.219
Petrochemical Feedstocks	.098	.114	.111	.107	.140	.132	.123
Residual Fuel	.598	.476	.465	.437	.642	.650	.615
Other Petroleum ¹¹	.216	.231	.227	.222	.239	.233	.225
Natural Gas	1.308	1.482	1.475	1.456	1.586	1.597	1.543
Metallurgical Coal	.047	.039	.039	.038	.033	.033	.032
Steam Coal	.395	.348	.347	.343	.453	.374	.347
Net Coal Coke Imports	.000	.002	.002	.001	.005	.005	.005
Nuclear Power	.509	.599	.599	.599	.511	.511	.511
Renewable Energy/Other ¹²	.379	.648	.603	.593	.803	.753	.726
Alcohols	.000	.004	.005	.005	.034	.034	.035
Total	5.711	6.284	6.152	6.020	6.866	6.600	6.291
Electricity Consumption (all Sectors)	.649	.751	.736	.724	.878	.844	.812
Industrial Electricity							
Gross Consumption	.165	.240	.229	.219	.292	.269	.246
Self-generation - Own Use	.011	.057	.056	.056	.064	.061	.060
Purchased Electricity	.154	.182	.172	.162	.228	.208	.187

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA093.D0916924.

Table 95. End-Use Energy Consumption by Economic Growth Case
Mid-Atlantic Region
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential							
Distillate Fuel	0.154	0.124	0.125	0.126	0.081	0.080	0.079
Kerosene	.018	.010	.010	.010	.003	.003	.003
Liquefied Petroleum Gas	.018	.019	.019	.019	.017	.017	.017
Natural Gas	.433	.470	.470	.469	.454	.448	.442
Coal	.020	.019	.019	.019	.019	.019	.019
Renewable Energy ¹	.109	.193	.193	.193	.252	.252	.252
Electricity	.332	.378	.372	.367	.435	.419	.402
Total	1.084	1.212	1.206	1.202	1.260	1.237	1.214
Commercial							
Distillate Fuel	.061	.067	.066	.066	.057	.056	.056
Kerosene	.002	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.008	.009	.009	.009	.010	.010	.009
Residual Fuel	.010	.008	.008	.008	.006	.006	.006
Natural Gas	.234	.279	.278	.277	.301	.297	.293
Other ³	.025	.020	.020	.020	.015	.015	.015
Renewable Energy ¹	.015	.040	.038	.037	.056	.054	.053
Electricity	.281	.332	.331	.329	.381	.376	.372
Total	.635	.755	.750	.747	.825	.814	.804
Industrial ⁴							
Distillate Fuel	.083	.096	.093	.089	.103	.097	.091
Liquefied Petroleum Gas	.027	.041	.040	.040	.048	.046	.044
Motor Gasoline ²	.014	.018	.017	.016	.021	.019	.017
Petrochemical Feedstocks	.119	.146	.141	.137	.181	.171	.160
Residual Fuel	.030	.028	.028	.027	.028	.027	.025
Other Petroleum ⁵	.314	.311	.307	.301	.311	.304	.297
Natural Gas ⁶	.461	.544	.537	.528	.559	.536	.517
Metallurgical Coal	.394	.346	.343	.338	.295	.292	.288
Steam Coal	.274	.306	.305	.302	.297	.297	.295
Net Coal Coke Imports	.002	.020	.018	.016	.051	.049	.046
Renewable Energy ¹	.079	.130	.128	.107	.153	.146	.109
Purchased Electricity	.343	.418	.395	.373	.511	.467	.421
Total	2.140	2.404	2.352	2.275	2.558	2.451	2.311
Transportation							
Distillate Fuel	.347	.432	.413	.393	.527	.490	.451
Jet Fuel	.211	.273	.252	.230	.354	.306	.260
Motor Gasoline ²	1.326	1.472	1.449	1.424	1.627	1.550	1.475
Residual Fuel	.053	.064	.062	.061	.078	.075	.070
Other Petroleum ⁷	.019	.021	.020	.019	.025	.023	.022
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.000	.000	.000
Alcohol Fuels	.000	.000	.000	.000	.000	.000	.000
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	1.956	2.262	2.196	2.127	2.611	2.444	2.278
Electric Utilities ⁸							
Distillate Fuel	.013	.031	.029	.028	.031	.035	.037
Residual Fuel	.107	.187	.157	.109	.120	.155	.165
Natural Gas	.039	.079	.057	.047	.204	.242	.114
Steam Coal ⁹	2.266	2.477	2.465	2.441	2.846	2.639	2.625
Nuclear Power	.889	.943	.943	.943	.939	.939	.939
Renewable Energy/Other ¹⁰	.085	.134	.107	.101	.197	.170	.156
Total	3.399	3.851	3.759	3.669	4.337	4.179	4.036

- See footnotes at end of table.

**Table 95. End-Use Energy Consumption by Economic Growth Case
Mid-Atlantic Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Primary Energy Consumption							
Distillate Fuel	0.658	0.750	0.726	0.702	0.799	0.759	0.714
Kerosene	.019	.011	.011	.011	.004	.004	.004
Jet Fuel	.211	.273	.252	.230	.354	.306	.260
Liquefied Petroleum Gas	.049	.064	.063	.062	.069	.066	.064
Motor Gasoline	1.348	1.499	1.475	1.449	1.657	1.578	1.501
Petrochemical Feedstocks	.119	.146	.141	.137	.181	.171	.160
Residual Fuel	.201	.287	.254	.204	.232	.263	.267
Other Petroleum ¹¹	.332	.331	.326	.319	.334	.326	.318
Natural Gas	1.167	1.372	1.342	1.320	1.517	1.522	1.366
Metallurgical Coal	.394	.346	.343	.338	.295	.292	.288
Steam Coal	2.582	2.819	2.806	2.780	3.174	2.967	2.952
Net Coal Coke Imports	.002	.020	.018	.016	.051	.049	.046
Nuclear Power	.889	.943	.943	.943	.939	.939	.939
Renewable Energy/Other ¹²	.288	.497	.465	.439	.658	.621	.570
Alcohols	.000	.000	.000	.000	.000	.000	.000
Total	8.258	9.360	9.170	8.951	10.260	9.860	9.450
Electricity Consumption (all Sectors)	.956	1.127	1.098	1.070	1.326	1.262	1.195
Industrial Electricity							
Gross Consumption	.372	.481	.457	.433	.580	.533	.483
Self-generation - Own Use	.029	.063	.062	.060	.069	.067	.062
Purchased Electricity	.343	.418	.395	.373	.511	.467	.421

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

Table 96. End-Use Energy Consumption by Economic Growth Case
South Atlantic Region
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential							
Distillate Fuel	0.037	0.027	0.028	0.028	0.016	0.016	0.016
Kerosene	.017	.015	.015	.015	.006	.006	.006
Liquefied Petroleum Gas	.077	.081	.081	.080	.068	.067	.066
Natural Gas	.337	.350	.348	.346	.330	.321	.314
Coal	.007	.007	.007	.007	.007	.007	.007
Renewable Energy ¹	.177	.313	.313	.313	.410	.410	.410
Electricity	.789	.897	.881	.868	1.030	.989	.944
Total	1.440	1.689	1.671	1.657	1.866	1.816	1.763
Commercial							
Distillate Fuel	.053	.055	.055	.055	.045	.045	.044
Kerosene	.001	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.023	.028	.028	.027	.031	.030	.029
Residual Fuel	.017	.013	.013	.013	.010	.010	.010
Natural Gas	.275	.318	.317	.315	.332	.325	.319
Other ³	.027	.023	.023	.023	.017	.017	.017
Renewable Energy ¹	.018	.059	.055	.055	.087	.083	.082
Electricity	.559	.691	.688	.684	.810	.799	.789
Total	.975	1.187	1.178	1.172	1.332	1.309	1.290
Industrial ⁴							
Distillate Fuel	.184	.212	.205	.197	.229	.217	.203
Liquefied Petroleum Gas	.064	.086	.085	.084	.098	.094	.090
Motor Gasoline ²	.031	.041	.038	.036	.047	.043	.039
Petrochemical Feedstocks	.096	.119	.115	.112	.149	.141	.131
Residual Fuel	.058	.059	.058	.058	.062	.059	.056
Other Petroleum ⁵	.451	.437	.433	.425	.433	.426	.418
Natural Gas ⁶	.735	.871	.870	.865	.914	.884	.865
Metallurgical Coal	.104	.104	.103	.101	.088	.087	.086
Steam Coal	.440	.457	.454	.450	.439	.440	.437
Net Coal Coke Imports	.000	.008	.007	.006	.018	.018	.017
Renewable Energy ¹	.650	.713	.704	.664	.739	.717	.654
Purchased Electricity	.684	.883	.838	.791	1.096	1.004	.907
Total	3.497	3.989	3.910	3.788	4.312	4.129	3.904
Transportation							
Distillate Fuel	.786	1.010	.965	.917	1.263	1.174	1.080
Jet Fuel	.506	.647	.597	.546	.873	.756	.642
Motor Gasoline ²	2.691	3.076	3.028	2.977	3.516	3.350	3.188
Residual Fuel	.068	.085	.083	.080	.107	.102	.096
Other Petroleum ⁷	.041	.049	.047	.046	.062	.058	.054
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.003	.003	.003
Alcohol Fuels	.000	.000	.000	.000	.003	.003	.003
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	4.093	4.868	4.721	4.567	5.828	5.446	5.066
Electric Utilities ⁸							
Distillate Fuel	.019	.019	.016	.010	.019	.019	.021
Residual Fuel	.249	.476	.380	.300	.330	.387	.456
Natural Gas	.280	.643	.581	.448	.917	.795	.753
Steam Coal ⁹	3.810	4.149	4.149	4.148	4.924	4.766	4.447
Nuclear Power	1.597	2.011	1.971	1.971	2.172	2.089	2.089
Renewable Energy/Other ¹⁰	.438	.470	.452	.451	.524	.499	.492
Total	6.392	7.768	7.549	7.329	8.887	8.555	8.258

- See footnotes at end of table.

**Table 96. End-Use Energy Consumption by Economic Growth Case
South Atlantic Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Primary Energy Consumption							
Distillate Fuel	1.079	1.323	1.268	1.206	1.572	1.470	1.364
Kerosene	.018	.016	.016	.016	.007	.007	.007
Jet Fuel	.506	.647	.597	.546	.873	.756	.642
Liquefied Petroleum Gas	.160	.186	.184	.182	.183	.178	.172
Motor Gasoline	2.746	3.145	3.094	3.040	3.594	3.423	3.256
Petrochemical Feedstocks	.096	.119	.115	.112	.149	.141	.131
Residual Fuel	.392	.634	.534	.451	.508	.557	.618
Other Petroleum ¹¹	.488	.479	.474	.465	.486	.476	.465
Natural Gas	1.625	2.181	2.117	1.974	2.496	2.329	2.253
Metallurgical Coal	.104	.104	.103	.101	.088	.087	.086
Steam Coal	4.270	4.622	4.619	4.614	5.378	5.219	4.898
Net Coal Coke Imports	.000	.008	.007	.006	.018	.018	.017
Nuclear Power	1.597	2.011	1.971	1.971	2.172	2.089	2.089
Renewable Energy/Other ¹²	1.283	1.555	1.524	1.483	1.760	1.709	1.639
Alcohols	.000	.000	.000	.000	.003	.003	.003
Total	14.360	17.030	16.620	16.170	19.290	18.460	17.640
Electricity Consumption (all Sectors)	2.032	2.471	2.406	2.344	2.937	2.792	2.640
Industrial Electricity							
Gross Consumption	.755	.984	.937	.887	1.209	1.112	1.010
Self-generation - Own Use	.071	.101	.099	.096	.113	.108	.103
Purchased Electricity	.684	.883	.838	.791	1.096	1.004	.907

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

**Table 97. End-Use Energy Consumption by Economic Growth Case
Midwest Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential							
Distillate Fuel	0.106	0.083	0.083	0.083	0.054	0.053	0.052
Kerosene	.007	.010	.010	.010	.006	.006	.006
Liquefied Petroleum Gas	.085	.106	.106	.106	.088	.088	.087
Natural Gas	1.483	1.654	1.653	1.652	1.637	1.613	1.591
Coal	.017	.017	.017	.017	.017	.017	.017
Renewable Energy ¹	.160	.311	.311	.311	.407	.407	.407
Electricity	.507	.578	.567	.560	.649	.623	.594
Total	2.365	2.758	2.746	2.738	2.857	2.807	2.754
Commercial							
Distillate Fuel	.050	.050	.050	.050	.038	.038	.038
Kerosene	.002	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.024	.026	.026	.025	.029	.028	.027
Residual Fuel	.006	.004	.004	.004	.003	.003	.003
Natural Gas	.783	.853	.852	.846	.825	.815	.805
Other ³	.047	.038	.038	.038	.028	.028	.028
Renewable Energy ¹	.015	.035	.033	.032	.058	.055	.055
Electricity	.460	.535	.532	.529	.585	.576	.566
Total	1.385	1.543	1.536	1.530	1.568	1.545	1.522
Industrial ⁴							
Distillate Fuel	.169	.235	.227	.217	.257	.242	.226
Liquefied Petroleum Gas	.139	.271	.264	.257	.315	.302	.286
Motor Gasoline ²	.031	.049	.046	.043	.057	.052	.048
Petrochemical Feedstocks	.111	.139	.136	.132	.176	.167	.157
Residual Fuel	.063	.108	.103	.102	.110	.101	.097
Other Petroleum ⁵	.677	.644	.637	.624	.652	.640	.625
Natural Gas ⁶	1.218	1.518	1.456	1.366	1.666	1.544	1.417
Metallurgical Coal	.456	.466	.461	.455	.397	.392	.387
Steam Coal	.462	.503	.497	.489	.624	.618	.609
Net Coal Coke Imports	.002	.034	.031	.028	.083	.078	.075
Renewable Energy ¹	.192	.232	.223	.200	.274	.257	.214
Purchased Electricity	.747	1.013	.972	.921	1.294	1.190	1.071
Total	4.267	5.210	5.052	4.834	5.904	5.583	5.211
Transportation							
Distillate Fuel	.643	.766	.733	.696	.884	.821	.755
Jet Fuel	.295	.355	.328	.300	.412	.357	.303
Motor Gasoline ²	2.412	2.581	2.541	2.498	2.714	2.586	2.461
Residual Fuel	.003	.003	.003	.003	.004	.003	.003
Other Petroleum ⁷	.049	.054	.052	.051	.063	.059	.056
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.005	.005	.005
Alcohol Fuels	.000	.001	.001	.001	.009	.009	.009
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	3.401	3.761	3.658	3.549	4.090	3.839	3.591
Electric Utilities ⁸							
Distillate Fuel	.003	.026	.027	.024	.014	.013	.018
Residual Fuel	.029	.031	.042	.030	.023	.007	.010
Natural Gas	.049	.656	.541	.436	.870	.877	.694
Steam Coal ⁹	4.097	4.410	4.388	4.394	5.143	4.887	4.773
Nuclear Power	1.368	1.482	1.482	1.482	1.427	1.407	1.407
Renewable Energy/Other ¹⁰	-.040	.178	.157	.155	.222	.200	.193
Total	5.504	6.783	6.637	6.521	7.698	7.391	7.095

- See footnotes at end of table.

**Table 97. End-Use Energy Consumption by Economic Growth Case
Midwest Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Primary Energy Consumption							
Distillate Fuel	0.970	1.159	1.119	1.070	1.247	1.166	1.089
Kerosene	.009	.011	.011	.011	.007	.007	.007
Jet Fuel	.295	.355	.328	.300	.412	.357	.303
Liquefied Petroleum Gas	.245	.398	.391	.384	.422	.408	.391
Motor Gasoline	2.467	2.656	2.613	2.567	2.800	2.666	2.535
Petrochemical Feedstocks	.111	.139	.136	.132	.176	.167	.157
Residual Fuel	.100	.146	.152	.139	.140	.116	.114
Other Petroleum ¹¹	.721	.690	.682	.668	.706	.691	.673
Natural Gas	3.532	4.680	4.502	4.303	5.002	4.854	4.512
Metallurgical Coal	.456	.466	.461	.455	.397	.392	.387
Steam Coal	4.608	4.955	4.926	4.925	5.802	5.540	5.417
Net Coal Coke Imports	.002	.034	.031	.028	.083	.078	.075
Nuclear Power	1.368	1.482	1.482	1.482	1.427	1.407	1.407
Renewable Energy/Other ¹²	.400	.735	.702	.676	.940	.898	.847
Alcohols	.000	.001	.001	.001	.009	.009	.009
Total	15.280	17.910	17.540	17.140	19.570	18.760	17.920
Electricity Consumption (all Sectors)	1.714	2.126	2.071	2.011	2.528	2.389	2.230
Industrial Electricity							
Gross Consumption	.798	1.135	1.052	.984	1.424	1.275	1.138
Self-generation - Own Use	.051	.122	.080	.063	.130	.086	.067
Purchased Electricity	.747	1.013	.972	.921	1.294	1.190	1.071

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMAC93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMAC93.D0916924.

Table 98. End-Use Energy Consumption by Economic Growth Case
Southwest Region
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential							
Distillate Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Kerosene	.005	.005	.005	.005	.003	.003	.003
Liquefied Petroleum Gas	.052	.048	.048	.048	.039	.039	.038
Natural Gas	.403	.422	.419	.417	.399	.389	.379
Coal	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.045	.113	.113	.113	.146	.146	.146
Electricity	.462	.514	.505	.498	.579	.556	.531
Total	.967	1.103	1.091	1.081	1.167	1.133	1.097
Commercial							
Distillate Fuel	.041	.044	.044	.044	.034	.034	.034
Kerosene	.003	.002	.002	.002	.002	.002	.002
Motor Gasoline ²	.017	.019	.019	.018	.020	.020	.019
Residual Fuel	.008	.006	.006	.006	.005	.005	.005
Natural Gas	.292	.333	.332	.330	.347	.340	.333
Other ³	.009	.008	.008	.008	.006	.006	.006
Renewable Energy ¹	.014	.035	.035	.035	.047	.047	.047
Electricity	.378	.453	.450	.448	.514	.507	.500
Total	.762	.900	.896	.891	.974	.959	.944
Industrial ⁴							
Distillate Fuel	.306	.348	.337	.324	.383	.362	.339
Liquefied Petroleum Gas	1.206	1.586	1.563	1.545	1.849	1.783	1.701
Motor Gasoline ²	.034	.044	.042	.039	.052	.047	.043
Petrochemical Feedstocks	.594	.738	.716	.694	.925	.874	.817
Residual Fuel	.083	.091	.088	.087	.094	.088	.084
Other Petroleum ⁵	1.168	1.109	1.099	1.078	1.122	1.104	1.084
Natural Gas ⁶	3.277	3.904	3.901	3.873	4.098	3.964	3.877
Metallurgical Coal	.002	.002	.002	.002	.002	.002	.002
Steam Coal	.109	.113	.113	.111	.109	.109	.108
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.726	.765	.755	.733	.801	.775	.731
Purchased Electricity	.492	.650	.616	.582	.817	.748	.676
Total	7.997	9.350	9.230	9.070	10.250	9.860	9.460
Transportation							
Distillate Fuel	.640	.816	.780	.741	1.011	.939	.864
Jet Fuel	.637	.905	.835	.763	1.161	1.005	.854
Motor Gasoline ²	1.755	2.027	1.995	1.962	2.268	2.161	2.056
Residual Fuel	.301	.373	.362	.352	.470	.448	.423
Other Petroleum ⁷	.037	.043	.042	.041	.054	.051	.047
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.000	.000	.000
Alcohol Fuels	.000	.000	.000	.000	.005	.005	.005
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	3.369	4.165	4.015	3.860	4.969	4.608	4.248
Electric Utilities ⁸							
Distillate Fuel	.001	.000	.000	.000	.000	.000	.000
Residual Fuel	.008	.041	.038	.035	.029	.032	.035
Natural Gas	1.553	2.080	1.935	1.793	1.784	1.849	1.888
Steam Coal ⁹	2.226	2.360	2.360	2.359	3.292	2.991	2.753
Nuclear Power	.444	.577	.577	.577	.580	.580	.580
Renewable Energy/Other ¹⁰	.130	.139	.136	.136	.142	.139	.139
Total	4.362	5.196	5.045	4.901	5.826	5.592	5.395

- See footnotes at end of table.

**Table 98. End-Use Energy Consumption by Economic Growth Case
Southwest Region (Continued)**
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Primary Energy Consumption							
Distillate Fuel	0.989	1.209	1.162	1.110	1.428	1.335	1.237
Kerosene	.008	.007	.007	.007	.005	.005	.005
Jet Fuel	.637	.905	.835	.763	1.161	1.005	.854
Liquefied Petroleum Gas	1.269	1.646	1.623	1.605	1.900	1.833	1.750
Motor Gasoline	1.806	2.090	2.056	2.019	2.340	2.228	2.118
Petrochemical Feedstocks	.594	.738	.716	.694	.925	.874	.817
Residual Fuel	.400	.511	.494	.480	.598	.573	.547
Other Petroleum ¹¹	1.202	1.147	1.136	1.115	1.170	1.149	1.126
Natural Gas	5.525	6.739	6.588	6.413	6.627	6.542	6.477
Metallurgical Coal	.002	.002	.002	.002	.002	.002	.002
Steam Coal	2.335	2.473	2.473	2.471	3.401	3.100	2.862
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Nuclear Power	.444	.577	.577	.577	.580	.580	.580
Renewable Energy/Other ¹²	.916	1.059	1.046	1.024	1.148	1.120	1.075
Alcohols	.000	.000	.000	.000	.005	.005	.005
Total	16.130	19.100	18.710	18.280	21.290	20.350	19.450
Electricity Consumption (all Sectors)	1.332	1.617	1.572	1.528	1.910	1.811	1.707
Industrial Electricity							
Gross Consumption	.643	.813	.779	.745	.984	.913	.841
Self-generation - Own Use	.151	.163	.163	.163	.167	.165	.165
Purchased Electricity	.492	.650	.616	.582	.817	.748	.676

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

**Table 99. End-Use Energy Consumption by Economic Growth Case
Central Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential							
Distillate Fuel	0.011	0.008	0.008	0.008	0.005	0.005	0.005
Kerosene	.001	.001	.001	.001	.000	.000	.000
Liquefied Petroleum Gas	.039	.049	.049	.049	.041	.041	.040
Natural Gas	.300	.336	.336	.335	.333	.329	.324
Coal	.002	.002	.002	.002	.002	.002	.002
Renewable Energy ¹	.052	.093	.093	.093	.123	.123	.123
Electricity	.166	.188	.184	.182	.209	.201	.192
Total	.571	.677	.673	.671	.715	.701	.687
Commercial							
Distillate Fuel	.012	.012	.012	.012	.009	.009	.009
Kerosene	.000	.000	.000	.000	.000	.000	.000
Motor Gasoline ²	.005	.005	.005	.005	.006	.006	.005
Residual Fuel	.000	.000	.000	.000	.000	.000	.000
Natural Gas	.213	.232	.232	.231	.225	.222	.219
Other ³	.012	.010	.010	.010	.007	.007	.007
Renewable Energy ¹	.000	.004	.004	.004	.008	.008	.008
Electricity	.145	.169	.168	.167	.184	.182	.178
Total	.387	.432	.431	.429	.440	.434	.428
Industrial ⁴							
Distillate Fuel	.088	.123	.119	.114	.134	.126	.118
Liquefied Petroleum Gas	.055	.109	.107	.104	.130	.124	.118
Motor Gasoline ²	.018	.029	.027	.026	.034	.031	.028
Petrochemical Feedstocks	.042	.052	.051	.049	.066	.062	.059
Residual Fuel	.006	.012	.011	.011	.012	.011	.011
Other Petroleum ⁵	.162	.159	.157	.154	.164	.161	.157
Natural Gas ⁶	.316	.412	.395	.370	.462	.428	.393
Metallurgical Coal	.001	.006	.006	.006	.005	.005	.005
Steam Coal	.084	.092	.091	.089	.111	.110	.108
Net Coal Coke Imports	.000	.000	.000	.000	.001	.001	.001
Renewable Energy ¹	.017	.024	.023	.021	.029	.027	.021
Purchased Electricity	.138	.189	.182	.172	.240	.221	.199
Total	.927	1.207	1.168	1.117	1.387	1.307	1.217
Transportation							
Distillate Fuel	.239	.287	.274	.261	.334	.310	.285
Jet Fuel	.098	.119	.110	.100	.138	.119	.101
Motor Gasoline ²	.719	.767	.755	.743	.803	.765	.728
Residual Fuel	.000	.000	.000	.000	.001	.000	.000
Other Petroleum ⁷	.018	.020	.019	.019	.023	.022	.020
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.004	.004	.004
Alcohol Fuels	.000	.000	.000	.000	.002	.002	.002
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	1.075	1.194	1.159	1.123	1.305	1.223	1.141
Electric Utilities ⁸							
Distillate Fuel	.002	.006	.007	.007	.004	.004	.005
Residual Fuel	.002	.013	.000	.000	.012	.010	.000
Natural Gas	.039	.233	.221	.190	.251	.220	.232
Steam Coal ⁹	1.187	1.350	1.340	1.323	1.556	1.510	1.424
Nuclear Power	.283	.273	.273	.273	.272	.272	.272
Renewable Energy/Other ¹⁰	.044	.040	.040	.040	.043	.043	.043
Total	1.558	1.915	1.882	1.834	2.138	2.059	1.976

- See footnotes at end of table.

Table 99. End-Use Energy Consumption by Economic Growth Case
Central Region (Continued)
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Primary Energy Consumption							
Distillate Fuel	0.352	0.436	0.421	0.402	0.486	0.455	0.422
Kerosene	.001	.001	.001	.001	.001	.001	.001
Jet Fuel	.098	.119	.110	.100	.138	.119	.101
Liquefied Petroleum Gas	.103	.167	.164	.161	.178	.172	.165
Motor Gasoline	.742	.801	.788	.773	.843	.802	.762
Petrochemical Feedstocks	.042	.052	.051	.049	.066	.062	.059
Residual Fuel	.009	.025	.012	.012	.025	.022	.011
Other Petroleum ¹¹	.178	.176	.174	.170	.185	.180	.175
Natural Gas	.868	1.212	1.184	1.127	1.275	1.203	1.172
Metallurgical Coal	.001	.006	.006	.006	.005	.005	.005
Steam Coal	1.278	1.448	1.437	1.419	1.672	1.625	1.537
Net Coal Coke Imports	.000	.000	.000	.000	.001	.001	.001
Nuclear Power	.283	.273	.273	.273	.272	.272	.272
Renewable Energy/Other ¹²	.113	.162	.161	.158	.203	.201	.195
Alcohols	.000	.000	.000	.000	.002	.002	.002
Total	4.068	4.879	4.781	4.652	5.350	5.121	4.881
Electricity Consumption (all Sectors)	.449	.546	.534	.521	.634	.603	.568
Industrial Electricity							
Gross Consumption	.142	.200	.192	.182	.252	.232	.209
Self-generation - Own Use	.004	.010	.010	.010	.012	.011	.011
Purchased Electricity	.138	.189	.182	.172	.240	.221	.199

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

Table 100. End-Use Energy Consumption by Economic Growth Case
North Central Region
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential							
Distillate Fuel	0.015	0.011	0.011	0.012	0.008	0.008	0.008
Kerosene	.000	.000	.000	.000	.000	.000	.000
Liquefied Petroleum Gas	.020	.016	.016	.016	.011	.011	.011
Natural Gas	.202	.205	.203	.201	.210	.202	.195
Coal	.004	.004	.004	.004	.004	.004	.004
Renewable Energy ¹	.023	.045	.045	.045	.059	.059	.059
Electricity	.087	.103	.101	.099	.121	.115	.110
Total	.351	.385	.381	.377	.413	.400	.387
Commercial							
Distillate Fuel	.013	.014	.014	.014	.011	.011	.011
Kerosene	.000	.000	.000	.000	.000	.000	.000
Motor Gasoline ²	.003	.004	.004	.004	.004	.004	.004
Residual Fuel	.008	.006	.006	.006	.004	.004	.004
Natural Gas	.136	.166	.165	.164	.187	.183	.178
Other ³	.012	.009	.009	.009	.007	.007	.007
Renewable Energy ¹	.003	.010	.010	.010	.014	.014	.014
Electricity	.100	.121	.120	.119	.139	.136	.134
Total	.274	.330	.328	.326	.367	.359	.352
Industrial ⁴							
Distillate Fuel	.094	.111	.107	.103	.122	.115	.107
Liquefied Petroleum Gas	.018	.025	.025	.024	.029	.028	.026
Motor Gasoline ²	.015	.021	.020	.019	.025	.023	.021
Petrochemical Feedstocks	.001	.002	.002	.002	.003	.002	.002
Residual Fuel	.005	.014	.012	.012	.014	.011	.011
Other Petroleum ⁵	.137	.137	.136	.133	.140	.137	.134
Natural Gas ⁶	.169	.260	.258	.250	.275	.266	.255
Metallurgical Coal	.033	.025	.024	.024	.021	.021	.020
Steam Coal	.167	.186	.182	.178	.204	.201	.195
Net Coal Coke Imports	.000	.002	.002	.002	.006	.005	.005
Renewable Energy ¹	.014	.026	.026	.025	.027	.027	.025
Purchased Electricity	.108	.134	.128	.120	.169	.154	.139
Total	.762	.943	.921	.891	1.034	.991	.940
Transportation							
Distillate Fuel	.152	.192	.184	.175	.233	.216	.199
Jet Fuel	.091	.123	.113	.104	.148	.128	.109
Motor Gasoline ²	.448	.508	.500	.491	.557	.531	.505
Residual Fuel	.000	.000	.000	.000	.000	.000	.000
Other Petroleum ⁷	.010	.012	.012	.011	.015	.014	.013
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.002	.002	.002	.016	.016	.017
Alcohol Fuels	.000	.000	.000	.000	.001	.001	.001
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	.702	.837	.811	.783	.969	.906	.843
Electric Utilities ⁸							
Distillate Fuel	.000	.021	.022	.018	.021	.036	.033
Residual Fuel	.002	.002	.002	.002	.002	.002	.002
Natural Gas	.007	.023	.023	.026	.244	.177	.137
Steam Coal ⁹	1.523	1.603	1.572	1.565	1.610	1.577	1.576
Nuclear Power	.000	.000	.000	.000	.000	.000	.000
Renewable Energy/Other ¹⁰	.212	.294	.294	.294	.317	.321	.317
Total	1.744	1.942	1.912	1.906	2.194	2.113	2.065

- See footnotes at end of table.

**Table 100. End-Use Energy Consumption by Economic Growth Case
North Central Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Primary Energy Consumption							
Distillate Fuel	0.274	0.349	0.338	0.321	0.394	0.386	0.357
Kerosene	.000	.000	.000	.000	.000	.000	.000
Jet Fuel	.091	.123	.113	.104	.148	.128	.109
Liquefied Petroleum Gas	.042	.045	.045	.044	.044	.043	.041
Motor Gasoline	.466	.533	.524	.514	.586	.558	.530
Petrochemical Feedstocks	.001	.002	.002	.002	.003	.002	.002
Residual Fuel	.015	.022	.020	.020	.020	.017	.017
Other Petroleum ¹¹	.147	.148	.147	.144	.153	.149	.146
Natural Gas	.514	.656	.651	.643	.932	.845	.781
Metallurgical Coal	.033	.025	.024	.024	.021	.021	.020
Steam Coal	1.703	1.799	1.765	1.754	1.823	1.786	1.781
Net Coal Coke Imports	.000	.002	.002	.002	.006	.005	.005
Nuclear Power	.000	.000	.000	.000	.000	.000	.000
Renewable Energy/Other ¹²	.247	.366	.366	.365	.389	.393	.386
Alcohols	.000	.000	.000	.000	.001	.001	.001
Total	3.534	4.071	3.997	3.936	4.520	4.335	4.176
Electricity Consumption (all Sectors)	.295	.357	.348	.338	.428	.405	.382
Industrial Electricity							
Gross Consumption	.111	.147	.141	.133	.183	.168	.152
Self-generation - Own Use	.003	.013	.013	.013	.014	.014	.014
Purchased Electricity	.108	.134	.128	.120	.169	.154	.139

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMAC93.D0916924.

**Table 101. End-Use Energy Consumption by Economic Growth Case
West Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential							
Distillate Fuel	0.003	0.003	0.003	0.003	0.003	0.002	0.002
Kerosene	.000	.000	.000	.000	.000	.000	.000
Liquefied Petroleum Gas	.028	.018	.018	.018	.012	.012	.012
Natural Gas	.576	.580	.573	.567	.596	.574	.550
Coal	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.060	.124	.124	.124	.167	.167	.167
Electricity	.303	.379	.371	.364	.461	.439	.417
Total	.969	1.104	1.089	1.076	1.238	1.194	1.149
Commercial							
Distillate Fuel	.035	.038	.038	.038	.031	.031	.031
Kerosene	.000	.000	.000	.000	.000	.000	.000
Motor Gasoline ²	.012	.014	.014	.013	.015	.015	.014
Residual Fuel	.006	.004	.004	.004	.003	.003	.003
Natural Gas	.308	.385	.382	.379	.442	.431	.419
Other ³	.005	.004	.004	.004	.003	.003	.003
Renewable Energy ¹	.008	.024	.024	.024	.031	.030	.030
Electricity	.375	.476	.471	.468	.564	.552	.544
Total	.748	.945	.937	.930	1.090	1.066	1.044
Industrial ⁴							
Distillate Fuel	.132	.146	.141	.135	.163	.154	.143
Liquefied Petroleum Gas	.065	.087	.086	.085	.101	.097	.094
Motor Gasoline ²	.018	.026	.024	.023	.031	.028	.026
Petrochemical Feedstocks	.026	.042	.041	.040	.054	.052	.048
Residual Fuel	.021	.063	.052	.052	.061	.049	.048
Other Petroleum ⁵	.484	.494	.489	.479	.501	.492	.482
Natural Gas ⁶	.506	.785	.779	.756	.827	.802	.769
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.093	.102	.099	.095	.107	.104	.098
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.111	.133	.130	.121	.145	.139	.124
Purchased Electricity	.277	.351	.334	.315	.457	.418	.375
Total	1.732	2.228	2.175	2.100	2.448	2.335	2.206
Transportation							
Distillate Fuel	.478	.636	.608	.577	.786	.730	.672
Jet Fuel	.705	.956	.882	.807	1.189	1.029	.874
Motor Gasoline ²	1.866	2.225	2.191	2.154	2.503	2.384	2.269
Residual Fuel	.386	.492	.477	.464	.609	.580	.547
Other Petroleum ⁷	.034	.041	.040	.039	.051	.048	.045
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.008	.008	.008	.061	.062	.064
Alcohol Fuels	.000	.013	.013	.013	.088	.088	.088
Electricity	.001	.005	.005	.005	.038	.037	.037
Total	3.469	4.377	4.224	4.067	5.325	4.959	4.595
Electric Utilities ⁸							
Distillate Fuel	.019	.002	.000	.000	.004	.004	.001
Residual Fuel	.120	.181	.152	.135	.166	.173	.160
Natural Gas	.522	.773	.713	.638	.858	.809	.729
Steam Coal ⁹	.494	.527	.527	.527	.914	.809	.704
Nuclear Power	.572	.544	.544	.544	.546	.546	.546
Renewable Energy/Other ¹⁰	.649	1.183	1.174	1.170	1.584	1.573	1.565
Total	2.375	3.209	3.111	3.014	4.072	3.914	3.705

- See footnotes at end of table.

**Table 101. End-Use Energy Consumption by Economic Growth Case
West Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Primary Energy Consumption							
Distillate Fuel	0.667	0.824	0.790	0.753	0.987	0.922	0.849
Kerosene	.000	.000	.000	.000	.000	.000	.000
Jet Fuel	.705	.956	.882	.807	1.189	1.029	.874
Liquefied Petroleum Gas	.102	.115	.113	.112	.123	.119	.114
Motor Gasoline	1.895	2.265	2.229	2.190	2.549	2.427	2.308
Petrochemical Feedstocks	.026	.042	.041	.040	.054	.052	.048
Residual Fuel	.532	.740	.686	.655	.839	.806	.758
Other Petroleum ¹¹	.515	.530	.524	.513	.545	.534	.521
Natural Gas	1.911	2.530	2.455	2.348	2.784	2.678	2.531
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.587	.629	.626	.622	1.021	.913	.802
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Nuclear Power	.572	.544	.544	.544	.546	.546	.546
Renewable Energy/Other ¹²	.796	1.427	1.414	1.402	1.881	1.863	1.840
Alcohols	.000	.013	.013	.013	.088	.088	.088
Total	8.307	10.610	10.320	10.000	12.610	11.970	11.280
Electricity Consumption (all Sectors)	.955	1.211	1.182	1.153	1.520	1.446	1.372
Industrial Electricity							
Gross Consumption	.311	.404	.386	.366	.515	.474	.430
Self-generation - Own Use	.035	.053	.052	.051	.058	.056	.055
Purchased Electricity	.277	.351	.334	.315	.457	.418	.375

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

**Table 102. End-Use Energy Consumption by Economic Growth Case
Northwest Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential							
Distillate Fuel	0.040	0.036	0.036	0.037	0.034	0.034	0.034
Kerosene	.000	.000	.000	.000	.000	.000	.000
Liquefied Petroleum Gas	.006	.004	.004	.004	.002	.002	.002
Natural Gas	.078	.078	.077	.076	.080	.077	.074
Coal	.004	.004	.004	.004	.004	.004	.004
Renewable Energy ¹	.095	.141	.141	.141	.190	.190	.190
Electricity	.180	.213	.209	.205	.250	.238	.227
Total	.403	.477	.471	.467	.562	.546	.531
Commercial							
Distillate Fuel	.026	.027	.027	.027	.022	.022	.022
Kerosene	.000	.000	.000	.000	.000	.000	.000
Motor Gasoline ²	.005	.006	.006	.006	.007	.006	.006
Residual Fuel	.011	.009	.009	.009	.006	.006	.006
Natural Gas	.108	.135	.134	.132	.155	.151	.146
Other ³	.009	.007	.007	.007	.005	.005	.005
Renewable Energy ¹	.007	.014	.014	.014	.022	.021	.021
Electricity	.146	.177	.175	.174	.197	.193	.190
Total	.312	.374	.371	.368	.414	.405	.397
Industrial ⁴							
Distillate Fuel	.064	.070	.067	.064	.077	.073	.068
Liquefied Petroleum Gas	.014	.018	.018	.017	.020	.020	.019
Motor Gasoline ²	.010	.014	.013	.012	.017	.015	.014
Petrochemical Feedstocks	.000	.000	.000	.000	.000	.000	.000
Residual Fuel	.016	.050	.041	.041	.048	.039	.037
Other Petroleum ⁵	.167	.173	.172	.168	.179	.176	.172
Natural Gas ⁶	.265	.411	.408	.396	.433	.420	.403
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.018	.020	.019	.019	.021	.020	.019
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.180	.206	.204	.188	.223	.216	.188
Purchased Electricity	.195	.243	.232	.218	.311	.284	.255
Total	.929	1.205	1.174	1.124	1.331	1.264	1.176
Transportation							
Distillate Fuel	.206	.265	.253	.240	.320	.298	.274
Jet Fuel	.224	.357	.329	.301	.498	.432	.366
Motor Gasoline ²	.490	.553	.544	.535	.598	.570	.542
Residual Fuel	.122	.155	.150	.146	.192	.183	.173
Other Petroleum ⁷	.015	.018	.017	.017	.022	.021	.020
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.002	.002	.002	.015	.015	.016
Alcohol Fuels	.000	.001	.001	.001	.005	.005	.005
Electricity	.000	.000	.000	.000	.002	.002	.002
Total	1.056	1.350	1.297	1.242	1.653	1.524	1.397
Electric Utilities ⁸							
Distillate Fuel	.007	.038	.063	.043	.046	.058	.035
Residual Fuel	.000	.000	.000	.000	.000	.000	.000
Natural Gas	.043	.161	.115	.107	.167	.117	.113
Steam Coal ⁹	.100	.116	.117	.116	.373	.321	.239
Nuclear Power	.127	.071	.075	.071	.161	.161	.161
Renewable Energy/Other ¹⁰	1.489	1.502	1.497	1.496	1.541	1.536	1.534
Total	1.766	1.887	1.867	1.833	2.288	2.194	2.083

- See footnotes at end of table.

**Table 102. End-Use Energy Consumption by Economic Growth Case
Northwest Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Primary Energy Consumption							
Distillate Fuel	0.343	0.435	0.446	0.411	0.500	0.485	0.432
Kerosene	.000	.000	.000	.000	.000	.000	.000
Jet Fuel	.224	.357	.329	.301	.498	.432	.366
Liquefied Petroleum Gas	.022	.025	.025	.024	.026	.026	.024
Motor Gasoline	.505	.573	.564	.553	.621	.591	.562
Petrochemical Feedstocks	.000	.000	.000	.000	.000	.000	.000
Residual Fuel	.149	.214	.200	.196	.247	.228	.216
Other Petroleum ¹¹	.180	.189	.187	.183	.199	.194	.189
Natural Gas	.494	.787	.737	.714	.850	.781	.753
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.130	.146	.147	.145	.403	.350	.267
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Nuclear Power	.127	.071	.075	.071	.161	.161	.161
Renewable Energy/Other ¹²	1.763	1.824	1.816	1.800	1.921	1.908	1.878
Alcohols	.000	.001	.001	.001	.005	.005	.005
Total	3.937	4.622	4.527	4.399	5.431	5.161	4.855
Electricity Consumption (all Sectors)	.521	.633	.615	.597	.761	.717	.674
Industrial Electricity							
Gross Consumption	.205	.268	.245	.229	.338	.299	.268
Self-generation - Own Use	.009	.025	.013	.011	.027	.015	.013
Purchased Electricity	.195	.243	.232	.218	.311	.284	.255

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA093.D0916924.

Table 103. End-Use Energy Consumption by Economic Growth Case
United States
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential							
Distillate Fuel	0.840	0.690	0.700	0.700	0.480	0.470	0.470
Kerosene	.060	.050	.050	.050	.020	.020	.020
Liquefied Petroleum Gas	.370	.380	.380	.380	.320	.320	.310
Natural Gas	4.520	4.850	4.830	4.820	4.730	4.640	4.550
Coal	.060	.060	.060	.060	.060	.060	.060
Renewable Energy ¹	.830	1.550	1.550	1.550	2.030	2.030	2.030
Electricity	3.150	3.640	3.570	3.530	4.180	4.010	3.840
Total	9.830	11.220	11.140	11.080	11.820	11.550	11.280
Commercial							
Distillate Fuel	.490	.530	.530	.530	.450	.440	.440
Kerosene	.010	.010	.010	.010	.010	.010	.010
Motor Gasoline ²	.110	.130	.130	.120	.140	.140	.130
Residual Fuel	.240	.180	.180	.180	.140	.140	.140
Natural Gas	2.760	3.180	3.170	3.150	3.310	3.250	3.200
Other ³	.160	.130	.130	.130	.100	.100	.100
Renewable Energy ¹	.100	.270	.250	.250	.390	.370	.370
Electricity	2.860	3.420	3.400	3.380	3.880	3.830	3.770
Total	6.720	7.840	7.800	7.760	8.400	8.270	8.150
Industrial ⁴							
Distillate Fuel	1.180	1.420	1.370	1.310	1.550	1.460	1.370
Liquefied Petroleum Gas	1.610	2.260	2.220	2.190	2.630	2.530	2.410
Motor Gasoline ²	.180	.260	.240	.230	.300	.280	.250
Petrochemical Feedstocks	1.100	1.370	1.330	1.290	1.720	1.620	1.520
Residual Fuel	.410	.540	.510	.500	.550	.500	.480
Other Petroleum ⁵	3.830	3.750	3.710	3.640	3.800	3.730	3.650
Natural Gas ⁶	8.470	10.340	10.210	9.960	10.950	10.500	10.080
Metallurgical Coal	1.040	.990	.980	.960	.840	.830	.820
Steam Coal	1.710	1.860	1.840	1.820	1.990	1.980	1.950
Net Coal Coke Imports	.000	.070	.060	.050	.170	.160	.150
Renewable Energy ¹	2.070	2.410	2.360	2.200	2.630	2.520	2.230
Purchased Electricity	3.230	4.170	3.970	3.750	5.250	4.810	4.330
Total	24.840	29.430	28.800	27.910	32.390	30.920	29.230
Transportation							
Distillate Fuel	3.830	4.820	4.600	4.370	5.830	5.420	4.990
Jet Fuel	3.130	4.180	3.850	3.530	5.280	4.570	3.880
Motor Gasoline ²	13.580	15.230	14.990	14.740	16.700	15.910	15.140
Residual Fuel	1.020	1.280	1.240	1.210	1.590	1.510	1.420
Other Petroleum ⁷	.240	.280	.270	.260	.340	.320	.300
Pipeline Fuel Natural Gas	.680	.730	.720	.690	.870	.810	.730
Compressed Natural Gas	.000	.020	.020	.020	.150	.150	.160
Alcohol Fuels	.000	.020	.020	.020	.160	.160	.160
Electricity	.010	.020	.020	.020	.080	.080	.070
Total	22.500	26.580	25.740	24.870	31.000	28.930	26.860
Electric Utilities ⁸							
Distillate Fuel	.090	.150	.170	.140	.150	.190	.160
Residual Fuel	1.140	1.470	1.300	1.090	1.440	1.530	1.510
Natural Gas	2.880	5.050	4.600	4.080	5.820	5.630	5.160
Steam Coal ⁹	16.200	17.430	17.350	17.310	21.190	19.960	18.970
Nuclear Power	6.190	6.930	6.900	6.890	7.060	6.940	6.940
Renewable Energy/Other ¹⁰	3.490	4.780	4.630	4.620	5.640	5.480	5.430
Total	29.990	35.810	34.950	34.120	41.300	39.720	38.170

- See footnotes at end of table.

**Table 103. End-Use Energy Consumption by Economic Growth Case
United States (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Primary Energy Consumption							
Distillate Fuel	6.420	7.600	7.370	7.050	8.460	7.990	7.420
Kerosene	.080	.050	.050	.050	.030	.030	.030
Jet Fuel	3.130	4.180	3.850	3.530	5.280	4.570	3.880
Liquefied Petroleum Gas	2.060	2.730	2.690	2.650	3.030	2.930	2.800
Motor Gasoline	13.870	15.620	15.360	15.090	17.150	16.330	15.520
Petrochemical Feedstocks	1.100	1.370	1.330	1.290	1.720	1.620	1.520
Residual Fuel	2.820	3.480	3.240	2.990	3.710	3.680	3.550
Other Petroleum ¹¹	4.050	4.000	3.950	3.870	4.100	4.010	3.910
Natural Gas	19.310	24.170	23.540	22.720	25.820	24.990	23.880
Metallurgical Coal	1.040	.990	.980	.960	.840	.830	.820
Steam Coal	18.070	19.420	19.330	19.250	23.300	22.050	21.030
Net Coal Coke Imports	.000	.070	.060	.050	.170	.160	.150
Nuclear Power	6.190	6.930	6.900	6.890	7.060	6.940	6.940
Renewable Energy/Other ¹²	6.490	9.000	8.800	8.620	10.690	10.410	10.060
Alcohols	.000	.020	.020	.020	.160	.160	.160
Total	84.630	99.600	97.470	95.050	111.500	106.700	101.700
Electricity Consumption (all Sectors)	9.260	11.250	10.970	10.680	13.400	12.730	12.020
Industrial Electricity							
Gross Consumption	3.580	4.810	4.550	4.300	5.950	5.430	4.920
Self-generation - Own Use	.390	.640	.580	.550	.690	.620	.580
Purchased Electricity	3.230	4.170	3.970	3.750	5.250	4.810	4.330

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-C035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0916921, Low Economic Growth -- LMA093.D0916924.

End-Use Energy Consumption by Oil and Gas Recovery Case

**Table 104. End-Use Energy Consumption by Oil and Gas Recovery Case
New England Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential							
Distillate Fuel	0.218	0.186	0.187	0.187	0.125	0.128	0.132
Kerosene	.008	.002	.002	.002	.000	.000	.000
Liquefied Petroleum Gas	.019	.020	.020	.020	.020	.020	.020
Natural Gas	.181	.199	.198	.196	.192	.186	.180
Coal	.002	.002	.002	.002	.002	.002	.002
Renewable Energy ¹	.064	.109	.109	.109	.141	.141	.141
Electricity	.127	.150	.150	.150	.167	.169	.170
Total	.619	.669	.668	.667	.647	.646	.644
Commercial							
Distillate Fuel	.071	.081	.081	.081	.071	.072	.073
Kerosene	.002	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.003	.004	.004	.004	.004	.004	.004
Residual Fuel	.048	.037	.037	.037	.028	.028	.028
Natural Gas	.106	.125	.125	.124	.134	.132	.130
Other ³	.005	.004	.004	.004	.003	.003	.003
Renewable Energy ¹	.003	.012	.012	.012	.015	.015	.015
Electricity	.133	.148	.148	.148	.161	.161	.161
Total	.371	.413	.412	.412	.417	.416	.415
Industrial ⁴							
Distillate Fuel	.024	.029	.029	.029	.031	.031	.031
Liquefied Petroleum Gas	.006	.010	.010	.011	.012	.012	.012
Motor Gasoline ²	.004	.006	.006	.006	.007	.007	.007
Petrochemical Feedstocks	.017	.019	.019	.019	.023	.023	.022
Residual Fuel	.092	.080	.081	.083	.077	.080	.085
Other Petroleum ⁵	.062	.067	.067	.067	.068	.068	.068
Natural Gas ⁶	.058	.073	.072	.071	.078	.075	.072
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.011	.014	.014	.014	.014	.014	.014
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.075	.112	.112	.112	.133	.133	.133
Purchased Electricity	.088	.100	.100	.100	.119	.119	.119
Total	.438	.510	.511	.512	.560	.560	.563
Transportation							
Distillate Fuel	.133	.154	.154	.154	.171	.173	.172
Jet Fuel	.074	.086	.086	.086	.095	.094	.094
Motor Gasoline ²	.701	.750	.750	.749	.756	.761	.760
Residual Fuel	.006	.007	.007	.007	.008	.008	.008
Other Petroleum ⁷	.008	.009	.009	.009	.010	.010	.010
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.003	.002	.002	.022	.016	.016
Alcohol Fuels	.000	.002	.001	.001	.016	.011	.011
Electricity	.004	.005	.005	.005	.010	.009	.009
Total	.926	1.014	1.013	1.013	1.086	1.081	1.080
Electric Utilities ⁸							
Distillate Fuel	.007	.002	.002	.002	.005	.005	.005
Residual Fuel	.277	.293	.294	.302	.325	.328	.338
Natural Gas	.068	.072	.072	.065	.070	.070	.064
Steam Coal ⁹	.166	.164	.164	.164	.156	.156	.157
Nuclear Power	.401	.433	.433	.433	.431	.431	.431
Renewable Energy/Other ¹⁰	.193	.279	.279	.279	.429	.429	.429
Total	1.113	1.243	1.243	1.244	1.416	1.420	1.423

- See footnotes at end of table.

**Table 104. End-Use Energy Consumption by Oil and Gas Recovery Case
New England Region (Continued)**
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Primary Energy Consumption							
Distillate Fuel	0.453	0.452	0.453	0.454	0.402	0.408	0.412
Kerosene	.009	.004	.004	.004	.001	.001	.001
Jet Fuel	.074	.086	.086	.086	.095	.094	.094
Liquefied Petroleum Gas	.029	.034	.034	.034	.034	.035	.035
Motor Gasoline	.708	.759	.759	.758	.766	.772	.771
Petrochemical Feedstocks	.017	.019	.019	.019	.023	.023	.022
Residual Fuel	.424	.417	.419	.429	.437	.444	.458
Other Petroleum ¹¹	.070	.075	.075	.075	.077	.077	.077
Natural Gas	.413	.472	.469	.458	.496	.479	.462
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.181	.181	.181	.181	.173	.173	.173
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Nuclear Power	.401	.433	.433	.433	.431	.431	.431
Renewable Energy/Other ¹²	.293	.431	.431	.431	.573	.573	.572
Alcohols	.000	.002	.001	.001	.016	.011	.011
Total	3.072	3.365	3.363	3.363	3.523	3.520	3.521
Electricity Consumption (all Sectors)	.353	.403	.403	.403	.457	.458	.459
Industrial Electricity							
Gross Consumption	.104	.134	.134	.134	.156	.156	.156
Self-generation - Own Use	.016	.034	.034	.034	.037	.037	.037
Purchased Electricity	.088	.100	.100	.100	.119	.119	.119

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 105. End-Use Energy Consumption by Oil and Gas Recovery Case
New York/New Jersey Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential							
Distillate Fuel	0.253	0.214	0.215	0.215	0.143	0.147	0.151
Kerosene	.009	.003	.003	.003	.000	.000	.000
Liquefied Petroleum Gas	.020	.021	.021	.021	.020	.020	.020
Natural Gas	.527	.559	.556	.551	.516	.501	.484
Coal	.005	.005	.005	.005	.005	.005	.005
Renewable Energy ¹	.047	.106	.106	.106	.136	.136	.136
Electricity	.201	.235	.235	.235	.263	.265	.266
Total	1.061	1.143	1.140	1.136	1.083	1.074	1.063
Commercial							
Distillate Fuel	.125	.143	.143	.143	.124	.126	.127
Kerosene	.001	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.011	.013	.013	.013	.014	.014	.014
Residual Fuel	.127	.096	.096	.096	.070	.070	.070
Natural Gas	.305	.352	.351	.349	.364	.359	.353
Other ³	.008	.006	.006	.006	.005	.005	.005
Renewable Energy ¹	.011	.030	.030	.030	.047	.047	.047
Electricity	.286	.318	.318	.318	.342	.343	.343
Total	.875	.958	.957	.956	.967	.964	.961
Industrial ⁴							
Distillate Fuel	.037	.044	.044	.044	.047	.047	.047
Liquefied Petroleum Gas	.013	.022	.022	.022	.025	.025	.026
Motor Gasoline ²	.008	.010	.010	.010	.012	.012	.012
Petrochemical Feedstocks	.098	.111	.111	.111	.132	.132	.132
Residual Fuel	.040	.035	.035	.036	.034	.036	.038
Other Petroleum ⁵	.204	.214	.214	.214	.217	.217	.217
Natural Gas ⁶	.196	.229	.227	.223	.237	.229	.220
Metallurgical Coal	.047	.039	.039	.039	.033	.033	.033
Steam Coal	.054	.067	.067	.068	.066	.066	.066
Net Coal Coke Imports	.000	.002	.002	.002	.005	.005	.005
Renewable Energy ¹	.028	.060	.060	.060	.086	.086	.086
Purchased Electricity	.154	.172	.172	.172	.208	.208	.207
Total	.878	1.005	1.003	1.000	1.103	1.096	1.089
Transportation							
Distillate Fuel	.206	.239	.239	.239	.266	.269	.269
Jet Fuel	.289	.323	.323	.322	.348	.348	.347
Motor Gasoline ²	1.169	1.241	1.241	1.241	1.246	1.255	1.254
Residual Fuel	.085	.097	.097	.097	.111	.110	.110
Other Petroleum ⁷	.013	.014	.014	.014	.016	.016	.016
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.005	.004	.004	.046	.032	.032
Alcohol Fuels	.000	.006	.005	.005	.051	.034	.034
Electricity	.009	.012	.011	.011	.031	.028	.028
Total	1.771	1.936	1.934	1.932	2.115	2.094	2.091
Electric Utilities ⁸							
Distillate Fuel	.015	.002	.002	.002	.011	.011	.015
Residual Fuel	.346	.237	.237	.237	.434	.434	.449
Natural Gas	.280	.337	.337	.337	.477	.477	.509
Steam Coal ⁹	.332	.272	.272	.272	.300	.300	.274
Nuclear Power	.509	.599	.599	.599	.511	.511	.511
Renewable Energy/Other ¹⁰	.297	.496	.496	.496	.573	.573	.573
Total	1.778	1.942	1.942	1.943	2.307	2.306	2.332

- See footnotes at end of table.

**Table 105. End-Use Energy Consumption by Oil and Gas Recovery Case
New York/New Jersey Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Primary Energy Consumption							
Distillate Fuel	0.636	0.642	0.643	0.644	0.591	0.600	0.609
Kerosene	.010	.004	.004	.004	.001	.001	.001
Jet Fuel	.289	.323	.323	.322	.348	.348	.347
Liquefied Petroleum Gas	.037	.046	.047	.047	.048	.049	.049
Motor Gasoline	1.189	1.265	1.264	1.264	1.272	1.281	1.280
Petrochemical Feedstocks	.098	.111	.111	.111	.132	.132	.132
Residual Fuel	.598	.464	.465	.466	.649	.650	.668
Other Petroleum ¹¹	.216	.227	.227	.227	.233	.233	.232
Natural Gas	1.308	1.483	1.475	1.465	1.639	1.597	1.600
Metallurgical Coal	.047	.039	.039	.039	.033	.033	.033
Steam Coal	.395	.347	.347	.347	.374	.374	.348
Net Coal Coke Imports	.000	.002	.002	.002	.005	.005	.005
Nuclear Power	.509	.599	.599	.599	.511	.511	.511
Renewable Energy/Other ¹²	.379	.603	.603	.603	.753	.753	.753
Alcohols	.000	.006	.005	.005	.051	.034	.034
Total	5.711	6.161	6.152	6.144	6.641	6.600	6.600
Electricity Consumption (all Sectors)	.649	.736	.736	.737	.844	.844	.845
Industrial Electricity							
Gross Consumption	.165	.229	.229	.229	.269	.269	.268
Self-generation - Own Use	.011	.056	.056	.056	.061	.061	.061
Purchased Electricity	.154	.172	.172	.172	.208	.208	.207

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

Table 106. End-Use Energy Consumption by Oil and Gas Recovery Case
Mid-Atlantic Region
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential							
Distillate Fuel	0.154	0.124	0.125	0.125	0.079	0.080	0.082
Kerosene	.018	.010	.010	.010	.003	.003	.003
Liquefied Petroleum Gas	.018	.019	.019	.019	.017	.017	.017
Natural Gas	.433	.473	.470	.466	.461	.448	.434
Coal	.020	.019	.019	.019	.019	.019	.019
Renewable Energy ¹	.109	.193	.193	.193	.252	.252	.252
Electricity	.332	.371	.372	.372	.416	.419	.420
Total	1.084	1.209	1.206	1.203	1.247	1.237	1.226
Commercial							
Distillate Fuel	.061	.066	.066	.067	.056	.056	.057
Kerosene	.002	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.008	.009	.009	.009	.010	.010	.010
Residual Fuel	.010	.008	.008	.008	.006	.006	.006
Natural Gas	.234	.279	.278	.276	.302	.297	.292
Other ³	.025	.020	.020	.020	.015	.015	.015
Renewable Energy ¹	.015	.038	.038	.038	.054	.054	.054
Electricity	.281	.331	.331	.330	.376	.376	.376
Total	.635	.752	.750	.749	.817	.814	.809
Industrial ⁴							
Distillate Fuel	.083	.093	.093	.093	.097	.097	.097
Liquefied Petroleum Gas	.027	.040	.040	.041	.045	.046	.047
Motor Gasoline ²	.014	.017	.017	.017	.019	.019	.019
Petrochemical Feedstocks	.119	.141	.141	.141	.172	.171	.171
Residual Fuel	.030	.027	.028	.028	.026	.027	.028
Other Petroleum ⁵	.314	.307	.307	.307	.305	.304	.304
Natural Gas ⁶	.461	.546	.537	.526	.560	.536	.511
Metallurgical Coal	.394	.342	.343	.342	.291	.292	.291
Steam Coal	.274	.305	.305	.305	.297	.297	.297
Net Coal Coke Imports	.002	.019	.018	.018	.050	.049	.048
Renewable Energy ¹	.079	.128	.128	.128	.146	.146	.146
Purchased Electricity	.343	.395	.395	.396	.467	.467	.466
Total	2.140	2.360	2.352	2.343	2.476	2.451	2.427
Transportation							
Distillate Fuel	.347	.412	.413	.413	.484	.490	.489
Jet Fuel	.211	.252	.252	.252	.307	.306	.305
Motor Gasoline ²	1.326	1.449	1.449	1.448	1.538	1.550	1.548
Residual Fuel	.053	.062	.062	.062	.075	.075	.075
Other Petroleum ⁷	.019	.020	.020	.020	.023	.023	.023
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.000	.000	.000
Alcohol Fuels	.000	.000	.000	.000	.000	.000	.000
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	1.956	2.196	2.196	2.195	2.428	2.444	2.440
Electric Utilities ⁸							
Distillate Fuel	.013	.029	.029	.029	.035	.035	.035
Residual Fuel	.107	.156	.157	.158	.158	.155	.147
Natural Gas	.039	.057	.057	.057	.236	.242	.116
Steam Coal ⁹	2.266	2.465	2.465	2.466	2.638	2.639	2.816
Nuclear Power	.889	.943	.943	.943	.939	.939	.939
Renewable Energy/Other ¹⁰	.085	.107	.107	.107	.169	.170	.169
Total	3.399	3.757	3.759	3.760	4.175	4.179	4.221

- See footnotes at end of table.

**Table 106. End-Use Energy Consumption by Oil and Gas Recovery Case
Mid-Atlantic Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Primary Energy Consumption							
Distillate Fuel	0.658	0.725	0.726	0.726	0.751	0.759	0.760
Kerosene	.019	.011	.011	.011	.004	.004	.004
Jet Fuel	.211	.252	.252	.252	.307	.306	.305
Liquefied Petroleum Gas	.049	.063	.063	.064	.066	.066	.068
Motor Gasoline	1.348	1.475	1.475	1.474	1.567	1.578	1.577
Petrochemical Feedstocks	.119	.141	.141	.141	.172	.171	.171
Residual Fuel	.201	.253	.254	.256	.265	.263	.255
Other Petroleum ¹¹	.332	.326	.326	.326	.326	.326	.326
Natural Gas	1.167	1.355	1.342	1.325	1.558	1.522	1.352
Metallurgical Coal	.394	.342	.343	.342	.291	.292	.291
Steam Coal	2.582	2.806	2.806	2.807	2.966	2.967	3.144
Net Coal Coke Imports	.002	.019	.018	.018	.050	.049	.048
Nuclear Power	.889	.943	.943	.943	.939	.939	.939
Renewable Energy/Other ¹²	.288	.465	.465	.465	.621	.621	.621
Alcohols	.000	.000	.000	.000	.000	.000	.000
Total	8.258	9.180	9.170	9.150	9.880	9.860	9.860
Electricity Consumption (all Sectors)	.956	1.097	1.098	1.098	1.259	1.262	1.262
Industrial Electricity							
Gross Consumption	.372	.457	.457	.458	.534	.533	.533
Self-generation - Own Use	.029	.062	.062	.062	.067	.067	.067
Purchased Electricity	.343	.395	.395	.396	.467	.467	.466

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGE093.D0918923.

**Table 107. End-Use Energy Consumption by Oil and Gas Recovery Case
South Atlantic Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential							
Distillate Fuel	0.037	0.027	0.028	0.028	0.016	0.016	0.016
Kerosene	.017	.015	.015	.015	.006	.006	.006
Liquefied Petroleum Gas	.077	.081	.081	.081	.067	.067	.067
Natural Gas	.337	.351	.348	.345	.331	.321	.312
Coal	.007	.007	.007	.007	.007	.007	.007
Renewable Energy ¹	.177	.313	.313	.313	.410	.410	.410
Electricity	.789	.881	.881	.880	.987	.989	.989
Total	1.440	1.674	1.671	1.668	1.823	1.816	1.806
Commercial							
Distillate Fuel	.053	.055	.055	.055	.045	.045	.045
Kerosene	.001	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.023	.028	.028	.028	.030	.030	.030
Residual Fuel	.017	.013	.013	.013	.010	.010	.010
Natural Gas	.275	.318	.317	.315	.331	.325	.319
Other ³	.027	.023	.023	.023	.017	.017	.017
Renewable Energy ¹	.018	.055	.055	.055	.083	.083	.083
Electricity	.559	.688	.688	.687	.798	.799	.798
Total	.975	1.180	1.178	1.176	1.314	1.309	1.302
Industrial ⁴							
Distillate Fuel	.184	.205	.205	.205	.217	.217	.217
Liquefied Petroleum Gas	.064	.084	.085	.086	.092	.094	.097
Motor Gasoline ²	.031	.038	.038	.038	.043	.043	.043
Petrochemical Feedstocks	.096	.115	.115	.115	.141	.141	.140
Residual Fuel	.058	.058	.058	.060	.057	.059	.062
Other Petroleum ⁵	.451	.433	.433	.433	.426	.426	.426
Natural Gas ⁶	.735	.890	.870	.845	.938	.884	.831
Metallurgical Coal	.104	.103	.103	.103	.087	.087	.087
Steam Coal	.440	.454	.454	.455	.440	.440	.440
Net Coal Coke Imports	.000	.007	.007	.007	.018	.018	.017
Renewable Energy ¹	.650	.704	.704	.704	.717	.717	.717
Purchased Electricity	.684	.837	.838	.840	1.003	1.004	1.004
Total	3.497	3.927	3.910	3.889	4.179	4.129	4.081
Transportation							
Distillate Fuel	.786	.963	.965	.964	1.160	1.174	1.172
Jet Fuel	.506	.598	.597	.597	.758	.756	.754
Motor Gasoline ²	2.691	3.028	3.028	3.027	3.326	3.350	3.347
Residual Fuel	.068	.083	.083	.082	.102	.102	.102
Other Petroleum ⁷	.041	.047	.047	.047	.058	.058	.058
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.003	.003	.003
Alcohol Fuels	.000	.000	.000	.000	.004	.003	.003
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	4.093	4.719	4.721	4.718	5.412	5.446	5.438
Electric Utilities ⁸							
Distillate Fuel	.019	.016	.016	.016	.019	.019	.016
Residual Fuel	.249	.378	.380	.381	.379	.387	.382
Natural Gas	.280	.580	.581	.582	.789	.795	.648
Steam Coal ⁹	3.810	4.148	4.149	4.149	4.766	4.766	4.969
Nuclear Power	1.597	1.971	1.971	1.971	2.089	2.089	2.089
Renewable Energy/Other ¹⁰	.438	.452	.452	.452	.498	.499	.497
Total	6.392	7.545	7.549	7.551	8.541	8.555	8.602

- See footnotes at end of table.

Table 107. End-Use Energy Consumption by Oil and Gas Recovery Case
South Atlantic Region (Continued)
(Quadrillion Btu per Year)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Primary Energy Consumption							
Distillate Fuel	1.079	1.266	1.268	1.267	1.456	1.470	1.465
Kerosene	.018	.016	.016	.016	.007	.007	.007
Jet Fuel	.506	.598	.597	.597	.758	.756	.754
Liquefied Petroleum Gas	.160	.183	.184	.185	.175	.178	.181
Motor Gasoline	2.746	3.094	3.094	3.092	3.399	3.423	3.420
Petrochemical Feedstocks	.096	.115	.115	.115	.141	.141	.140
Residual Fuel	.392	.532	.534	.536	.547	.557	.555
Other Petroleum ¹¹	.488	.474	.474	.474	.477	.476	.476
Natural Gas	1.625	2.139	2.117	2.087	2.392	2.329	2.112
Metallurgical Coal	.104	.103	.103	.103	.087	.087	.087
Steam Coal	4.270	4.619	4.619	4.620	5.220	5.219	5.423
Net Coal Coke Imports	.000	.007	.007	.007	.018	.018	.017
Nuclear Power	1.597	1.971	1.971	1.971	2.089	2.089	2.089
Renewable Energy/Other ¹²	1.283	1.524	1.524	1.524	1.709	1.709	1.707
Alcohols	.000	.000	.000	.000	.004	.003	.003
Total	14.360	16.640	16.620	16.590	18.480	18.460	18.440
Electricity Consumption (all Sectors)	2.032	2.405	2.406	2.407	2.788	2.792	2.791
Industrial Electricity							
Gross Consumption	.755	.935	.937	.938	1.112	1.112	1.112
Self-generation - Own Use	.071	.099	.099	.099	.109	.108	.108
Purchased Electricity	.684	.837	.838	.840	1.003	1.004	1.004

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 108. End-Use Energy Consumption by Oil and Gas Recovery Case
Midwest Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential							
Distillate Fuel	0.106	0.083	0.083	0.083	0.052	0.053	0.054
Kerosene	.007	.010	.010	.010	.006	.006	.006
Liquefied Petroleum Gas	.085	.106	.106	.106	.088	.088	.088
Natural Gas	1.483	1.663	1.653	1.639	1.646	1.613	1.573
Coal	.017	.017	.017	.017	.017	.017	.017
Renewable Energy ¹	.160	.311	.311	.311	.407	.407	.407
Electricity	.507	.567	.567	.567	.618	.623	.626
Total	2.365	2.756	2.746	2.732	2.834	2.807	2.771
Commercial							
Distillate Fuel	.050	.050	.050	.050	.038	.038	.038
Kerosene	.002	.001	.001	.001	.001	.001	.001
Motor Gasoline ²	.024	.026	.026	.026	.028	.028	.028
Residual Fuel	.006	.004	.004	.004	.003	.003	.003
Natural Gas	.783	.857	.852	.846	.832	.815	.797
Other ³	.047	.038	.038	.038	.028	.028	.028
Renewable Energy ¹	.015	.033	.033	.033	.055	.055	.055
Electricity	.460	.531	.532	.532	.571	.576	.580
Total	1.385	1.541	1.536	1.529	1.556	1.545	1.530
Industrial ⁴							
Distillate Fuel	.169	.227	.227	.226	.242	.242	.241
Liquefied Petroleum Gas	.139	.262	.264	.267	.297	.302	.309
Motor Gasoline ²	.031	.046	.046	.046	.052	.052	.052
Petrochemical Feedstocks	.111	.136	.136	.136	.167	.167	.167
Residual Fuel	.063	.101	.103	.106	.097	.101	.108
Other Petroleum ⁵	.677	.637	.637	.636	.640	.640	.639
Natural Gas ⁶	1.218	1.487	1.456	1.437	1.619	1.544	1.482
Metallurgical Coal	.456	.461	.461	.461	.392	.392	.392
Steam Coal	.462	.496	.497	.498	.617	.618	.620
Net Coal Coke Imports	.002	.032	.031	.032	.080	.078	.077
Renewable Energy ¹	.192	.223	.223	.223	.257	.257	.257
Purchased Electricity	.747	.970	.972	.972	1.190	1.190	1.187
Total	4.267	5.077	5.052	5.039	5.651	5.583	5.531
Transportation							
Distillate Fuel	.643	.731	.733	.732	.812	.821	.819
Jet Fuel	.295	.328	.328	.328	.357	.357	.356
Motor Gasoline ²	2.412	2.541	2.541	2.540	2.567	2.586	2.583
Residual Fuel	.003	.003	.003	.003	.003	.003	.003
Other Petroleum ⁷	.049	.053	.052	.052	.059	.059	.059
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.006	.005	.005
Alcohol Fuels	.000	.001	.001	.001	.012	.009	.009
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	3.401	3.657	3.658	3.656	3.817	3.839	3.834
Electric Utilities ⁸							
Distillate Fuel	.003	.026	.027	.022	.015	.013	.014
Residual Fuel	.029	.032	.042	.021	.028	.007	.007
Natural Gas	.049	.521	.541	.478	.921	.877	.491
Steam Coal ⁹	4.097	4.381	4.388	4.434	4.749	4.887	5.312
Nuclear Power	1.368	1.482	1.482	1.482	1.407	1.407	1.407
Renewable Energy/Other ¹⁰	-.040	.157	.157	.157	.200	.200	.199
Total	5.504	6.600	6.637	6.594	7.319	7.391	7.430

- See footnotes at end of table.

**Table 108. End-Use Energy Consumption by Oil and Gas Recovery Case
Midwest Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Primary Energy Consumption							
Distillate Fuel	0.970	1.116	1.119	1.113	1.159	1.166	1.167
Kerosene	.009	.011	.011	.011	.007	.007	.007
Jet Fuel	.295	.328	.328	.328	.357	.357	.356
Liquefied Petroleum Gas	.245	.389	.391	.393	.403	.408	.415
Motor Gasoline	2.467	2.613	2.613	2.612	2.648	2.666	2.664
Petrochemical Feedstocks	.111	.136	.136	.136	.167	.167	.167
Residual Fuel	.100	.141	.152	.134	.132	.116	.121
Other Petroleum ¹¹	.721	.682	.682	.682	.691	.691	.690
Natural Gas	3.532	4.529	4.502	4.399	5.024	4.854	4.348
Metallurgical Coal	.456	.461	.461	.461	.392	.392	.392
Steam Coal	4.608	4.918	4.926	4.973	5.401	5.540	5.967
Net Coal Coke Imports	.002	.032	.031	.032	.080	.078	.077
Nuclear Power	1.368	1.482	1.482	1.482	1.407	1.407	1.407
Renewable Energy/Other ¹²	.400	.702	.702	.702	.898	.898	.898
Alcohols	.000	.001	.001	.001	.012	.009	.009
Total	15.280	17.540	17.540	17.460	18.780	18.760	18.680
Electricity Consumption (all Sectors)	1.714	2.068	2.071	2.071	2.379	2.389	2.393
Industrial Electricity							
Gross Consumption	.798	1.055	1.052	1.052	1.281	1.275	1.272
Self-generation - Own Use	.051	.085	.080	.079	.092	.086	.085
Purchased Electricity	.747	.970	.972	.972	1.190	1.190	1.187

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGE093.D0918923.

**Table 109. End-Use Energy Consumption by Oil and Gas Recovery Case
Southwest Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential							
Distillate Fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Kerosene	.005	.005	.005	.005	.003	.003	.003
Liquefied Petroleum Gas	.052	.048	.048	.048	.039	.039	.039
Natural Gas	.403	.422	.419	.416	.400	.389	.377
Coal	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.045	.113	.113	.113	.146	.146	.146
Electricity	.462	.505	.505	.505	.555	.556	.556
Total	.967	1.094	1.091	1.087	1.142	1.133	1.121
Commercial							
Distillate Fuel	.041	.044	.044	.044	.034	.034	.034
Kerosene	.003	.002	.002	.002	.002	.002	.002
Motor Gasoline ²	.017	.019	.019	.019	.020	.020	.020
Residual Fuel	.008	.006	.006	.006	.005	.005	.005
Natural Gas	.292	.334	.332	.330	.346	.340	.333
Other ³	.009	.008	.008	.008	.006	.006	.006
Renewable Energy ¹	.014	.035	.035	.035	.047	.047	.047
Electricity	.378	.451	.450	.450	.506	.507	.506
Total	.762	.897	.896	.893	.964	.959	.952
Industrial ⁴							
Distillate Fuel	.306	.337	.337	.337	.363	.362	.362
Liquefied Petroleum Gas	1.206	1.546	1.563	1.588	1.737	1.783	1.844
Motor Gasoline ²	.034	.042	.042	.042	.047	.047	.047
Petrochemical Feedstocks	.594	.717	.716	.715	.876	.874	.872
Residual Fuel	.083	.087	.088	.091	.086	.088	.093
Other Petroleum ⁵	1.168	1.099	1.099	1.098	1.105	1.104	1.103
Natural Gas ⁶	3.277	3.987	3.901	3.788	4.201	3.964	3.727
Metallurgical Coal	.002	.002	.002	.002	.002	.002	.002
Steam Coal	.109	.113	.113	.113	.109	.109	.109
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.726	.755	.755	.755	.775	.775	.775
Purchased Electricity	.492	.615	.616	.617	.748	.748	.748
Total	7.997	9.300	9.230	9.150	10.050	9.860	9.680
Transportation							
Distillate Fuel	.640	.778	.780	.780	.928	.939	.937
Jet Fuel	.637	.835	.835	.834	1.008	1.005	1.002
Motor Gasoline ²	1.755	1.995	1.995	1.994	2.145	2.161	2.159
Residual Fuel	.301	.362	.362	.362	.448	.448	.447
Other Petroleum ⁷	.037	.042	.042	.042	.051	.051	.051
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.000	.000	.000
Alcohol Fuels	.000	.000	.000	.000	.006	.005	.005
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	3.369	4.014	4.015	4.012	4.586	4.608	4.601
Electric Utilities ⁸							
Distillate Fuel	.001	.000	.000	.000	.000	.000	.000
Residual Fuel	.008	.038	.038	.038	.034	.032	.032
Natural Gas	1.553	1.933	1.935	1.936	2.188	1.849	1.715
Steam Coal ⁹	2.226	2.360	2.360	2.360	2.646	2.991	3.125
Nuclear Power	.444	.577	.577	.577	.580	.580	.580
Renewable Energy/Other ¹⁰	.130	.136	.136	.136	.139	.139	.139
Total	4.362	5.043	5.045	5.047	5.586	5.592	5.591

- See footnotes at end of table.

**Table 109. End-Use Energy Consumption by Oil and Gas Recovery Case
Southwest Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Primary Energy Consumption							
Distillate Fuel	0.989	1.160	1.162	1.161	1.325	1.335	1.334
Kerosene	.008	.007	.007	.007	.005	.005	.005
Jet Fuel	.637	.835	.835	.834	1.008	1.005	1.002
Liquefied Petroleum Gas	1.269	1.606	1.623	1.648	1.787	1.833	1.894
Motor Gasoline	1.806	2.056	2.056	2.055	2.212	2.228	2.226
Petrochemical Feedstocks	.594	.717	.716	.715	.876	.874	.872
Residual Fuel	.400	.494	.494	.497	.573	.573	.577
Other Petroleum ¹¹	1.202	1.137	1.136	1.136	1.150	1.149	1.148
Natural Gas	5.525	6.675	6.588	6.470	7.135	6.542	6.152
Metallurgical Coal	.002	.002	.002	.002	.002	.002	.002
Steam Coal	2.335	2.473	2.473	2.473	2.755	3.100	3.235
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Nuclear Power	.444	.577	.577	.577	.580	.580	.580
Renewable Energy/Other ¹²	.916	1.046	1.046	1.046	1.119	1.120	1.119
Alcohols	.000	.000	.000	.000	.006	.005	.005
Total	16.130	18.780	18.710	18.620	20.530	20.350	20.150
Electricity Consumption (all Sectors)	1.332	1.571	1.572	1.572	1.808	1.811	1.810
Industrial Electricity							
Gross Consumption	.643	.779	.779	.781	.913	.913	.915
Self-generation - Own Use	.151	.163	.163	.163	.166	.165	.167
Purchased Electricity	.492	.615	.616	.617	.748	.748	.748

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 110. End-Use Energy Consumption by Oil and Gas Recovery Case
Central Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential							
Distillate Fuel	0.011	0.008	0.008	0.008	0.005	0.005	0.005
Kerosene	.001	.001	.001	.001	.000	.000	.000
Liquefied Petroleum Gas	.039	.049	.049	.049	.041	.041	.041
Natural Gas	.300	.338	.336	.333	.335	.329	.321
Coal	.002	.002	.002	.002	.002	.002	.002
Renewable Energy ¹	.052	.093	.093	.093	.123	.123	.123
Electricity	.166	.184	.184	.184	.199	.201	.202
Total	.571	.675	.673	.670	.706	.701	.694
Commercial							
Distillate Fuel	.012	.012	.012	.012	.009	.009	.009
Kerosene	.000	.000	.000	.000	.000	.000	.000
Motor Gasoline ²	.005	.005	.005	.005	.006	.006	.006
Residual Fuel	.000	.000	.000	.000	.000	.000	.000
Natural Gas	.213	.233	.232	.230	.227	.222	.217
Other ³	.012	.010	.010	.010	.007	.007	.007
Renewable Energy ¹	.000	.004	.004	.004	.008	.008	.008
Electricity	.145	.168	.168	.168	.180	.182	.183
Total	.387	.432	.431	.429	.437	.434	.430
Industrial ⁴							
Distillate Fuel	.088	.119	.119	.119	.126	.126	.126
Liquefied Petroleum Gas	.055	.106	.107	.108	.122	.124	.127
Motor Gasoline ²	.018	.027	.027	.027	.031	.031	.031
Petrochemical Feedstocks	.042	.051	.051	.051	.062	.062	.062
Residual Fuel	.006	.011	.011	.011	.011	.011	.012
Other Petroleum ⁵	.162	.157	.157	.157	.161	.161	.161
Natural Gas ⁶	.316	.403	.395	.390	.449	.428	.411
Metallurgical Coal	.001	.006	.006	.006	.005	.005	.005
Steam Coal	.084	.091	.091	.091	.110	.110	.110
Net Coal Coke Imports	.000	.000	.000	.000	.001	.001	.001
Renewable Energy ¹	.017	.023	.023	.023	.027	.027	.027
Purchased Electricity	.138	.181	.182	.182	.221	.221	.220
Total	.927	1.175	1.168	1.164	1.326	1.307	1.293
Transportation							
Distillate Fuel	.239	.274	.274	.274	.307	.310	.310
Jet Fuel	.098	.110	.110	.109	.120	.119	.119
Motor Gasoline ²	.719	.755	.755	.755	.760	.765	.765
Residual Fuel	.000	.000	.000	.000	.000	.000	.000
Other Petroleum ⁷	.018	.019	.019	.019	.022	.022	.022
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.000	.000	.000	.005	.004	.004
Alcohol Fuels	.000	.000	.000	.000	.002	.002	.002
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	1.075	1.159	1.159	1.159	1.216	1.223	1.221
Electric Utilities ⁸							
Distillate Fuel	.002	.007	.007	.005	.005	.004	.005
Residual Fuel	.002	.000	.000	.023	.000	.010	.012
Natural Gas	.039	.220	.221	.194	.262	.220	.204
Steam Coal ⁹	1.187	1.340	1.340	1.340	1.473	1.510	1.536
Nuclear Power	.283	.273	.273	.273	.272	.272	.272
Renewable Energy/Other ¹⁰	.044	.040	.040	.040	.043	.043	.043
Total	1.558	1.880	1.882	1.877	2.055	2.059	2.072

- See footnotes at end of table.

**Table 110. End-Use Energy Consumption by Oil and Gas Recovery Case
Central Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Primary Energy Consumption							
Distillate Fuel	0.352	0.420	0.421	0.419	0.452	0.455	0.455
Kerosene	.001	.001	.001	.001	.001	.001	.001
Jet Fuel	.098	.110	.110	.109	.120	.119	.119
Liquefied Petroleum Gas	.103	.163	.164	.165	.170	.172	.175
Motor Gasoline	.742	.788	.788	.788	.797	.802	.801
Petrochemical Feedstocks	.042	.051	.051	.051	.062	.062	.062
Residual Fuel	.009	.012	.012	.035	.011	.022	.025
Other Petroleum ¹¹	.178	.174	.174	.174	.180	.180	.180
Natural Gas	.868	1.194	1.184	1.147	1.278	1.203	1.157
Metallurgical Coal	.001	.006	.006	.006	.005	.005	.005
Steam Coal	1.278	1.436	1.437	1.437	1.588	1.625	1.651
Net Coal Coke Imports	.000	.000	.000	.000	.001	.001	.001
Nuclear Power	.283	.273	.273	.273	.272	.272	.272
Renewable Energy/Other ¹²	.113	.161	.161	.161	.201	.201	.201
Alcohols	.000	.000	.000	.000	.002	.002	.002
Total	4.068	4.789	4.781	4.765	5.139	5.121	5.106
Electricity Consumption (all Sectors)	.449	.533	.534	.534	.600	.603	.605
Industrial Electricity							
Gross Consumption	.142	.191	.192	.192	.232	.232	.231
Self-generation - Own Use	.004	.010	.010	.010	.011	.011	.011
Purchased Electricity	.138	.181	.182	.182	.221	.221	.220

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 111. End-Use Energy Consumption by Oil and Gas Recovery Case
North Central Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential							
Distillate Fuel	0.015	0.011	0.011	0.011	0.008	0.008	0.008
Kerosene	.000	.000	.000	.000	.000	.000	.000
Liquefied Petroleum Gas	.020	.016	.016	.016	.011	.011	.011
Natural Gas	.202	.204	.203	.201	.207	.202	.197
Coal	.004	.004	.004	.004	.004	.004	.004
Renewable Energy ¹	.023	.045	.045	.045	.059	.059	.059
Electricity	.087	.101	.101	.101	.115	.115	.116
Total	.351	.382	.381	.379	.404	.400	.395
Commercial							
Distillate Fuel	.013	.014	.014	.014	.011	.011	.011
Kerosene	.000	.000	.000	.000	.000	.000	.000
Motor Gasoline ²	.003	.004	.004	.004	.004	.004	.004
Residual Fuel	.008	.006	.006	.006	.004	.004	.004
Natural Gas	.136	.166	.165	.164	.186	.183	.179
Other ³	.012	.009	.009	.009	.007	.007	.007
Renewable Energy ¹	.003	.010	.010	.010	.014	.014	.014
Electricity	.100	.120	.120	.119	.135	.136	.136
Total	.274	.329	.328	.327	.362	.359	.356
Industrial ⁴							
Distillate Fuel	.094	.107	.107	.107	.115	.115	.115
Liquefied Petroleum Gas	.018	.024	.025	.025	.027	.028	.028
Motor Gasoline ²	.015	.020	.020	.020	.023	.023	.023
Petrochemical Feedstocks	.001	.002	.002	.002	.002	.002	.002
Residual Fuel	.005	.012	.012	.013	.011	.011	.013
Other Petroleum ⁵	.137	.136	.136	.136	.137	.137	.137
Natural Gas ⁶	.169	.260	.258	.255	.274	.266	.258
Metallurgical Coal	.033	.024	.024	.024	.021	.021	.021
Steam Coal	.167	.182	.182	.183	.200	.201	.202
Net Coal Coke Imports	.000	.002	.002	.002	.005	.005	.005
Renewable Energy ¹	.014	.026	.026	.026	.027	.027	.027
Purchased Electricity	.108	.128	.128	.127	.155	.154	.153
Total	.762	.924	.921	.920	.999	.991	.984
Transportation							
Distillate Fuel	.152	.183	.184	.184	.214	.216	.216
Jet Fuel	.091	.113	.113	.113	.129	.128	.128
Motor Gasoline ²	.448	.500	.500	.499	.527	.531	.530
Residual Fuel	.000	.000	.000	.000	.000	.000	.000
Other Petroleum ⁷	.010	.012	.012	.012	.014	.014	.014
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.003	.002	.002	.024	.016	.016
Alcohol Fuels	.000	.000	.000	.000	.001	.001	.001
Electricity	.000	.000	.000	.000	.000	.000	.000
Total	.702	.812	.811	.811	.908	.906	.905
Electric Utilities ⁸							
Distillate Fuel	.000	.022	.022	.021	.036	.036	.034
Residual Fuel	.002	.002	.002	.002	.002	.002	.002
Natural Gas	.007	.023	.023	.023	.176	.177	.190
Steam Coal ⁹	1.523	1.572	1.572	1.571	1.577	1.577	1.577
Nuclear Power	.000	.000	.000	.000	.000	.000	.000
Renewable Energy/Other ¹⁰	.212	.294	.294	.294	.320	.321	.318
Total	1.744	1.912	1.912	1.911	2.111	2.113	2.121

- See footnotes at end of table.

**Table 111. End-Use Energy Consumption by Oil and Gas Recovery Case
North Central Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Primary Energy Consumption							
Distillate Fuel	0.274	0.338	0.338	0.338	0.383	0.386	0.383
Kerosene	.000	.000	.000	.000	.000	.000	.000
Jet Fuel	.091	.113	.113	.113	.129	.128	.128
Liquefied Petroleum Gas	.042	.044	.045	.045	.042	.043	.043
Motor Gasoline	.466	.524	.524	.523	.554	.558	.557
Petrochemical Feedstocks	.001	.002	.002	.002	.002	.002	.002
Residual Fuel	.015	.020	.020	.021	.017	.017	.019
Other Petroleum ¹¹	.147	.147	.147	.147	.150	.149	.149
Natural Gas	.514	.657	.651	.645	.868	.845	.841
Metallurgical Coal	.033	.024	.024	.024	.021	.021	.021
Steam Coal	1.703	1.765	1.765	1.765	1.786	1.786	1.787
Net Coal Coke Imports	.000	.002	.002	.002	.005	.005	.005
Nuclear Power	.000	.000	.000	.000	.000	.000	.000
Renewable Energy/Other ¹²	.247	.366	.366	.366	.392	.393	.390
Alcohols	.000	.000	.000	.000	.001	.001	.001
Total	3.534	4.002	3.997	3.991	4.350	4.335	4.327
Electricity Consumption (all Sectors)	.295	.348	.348	.347	.405	.405	.405
Industrial Electricity							
Gross Consumption	.111	.141	.141	.141	.169	.168	.167
Self-generation - Own Use	.003	.013	.013	.013	.014	.014	.014
Purchased Electricity	.108	.128	.128	.127	.155	.154	.153

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGE093.D0918923.

**Table 112. End-Use Energy Consumption by Oil and Gas Recovery Case
West Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential							
Distillate Fuel	0.003	0.003	0.003	0.003	0.002	0.002	0.003
Kerosene	.000	.000	.000	.000	.000	.000	.000
Liquefied Petroleum Gas	.028	.018	.018	.018	.012	.012	.012
Natural Gas	.576	.577	.573	.568	.587	.574	.558
Coal	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.060	.124	.124	.124	.167	.167	.167
Electricity	.303	.371	.371	.371	.437	.439	.440
Total	.969	1.093	1.089	1.084	1.206	1.194	1.179
Commercial							
Distillate Fuel	.035	.038	.038	.038	.031	.031	.031
Kerosene	.000	.000	.000	.000	.000	.000	.000
Motor Gasoline ²	.012	.014	.014	.014	.015	.015	.015
Residual Fuel	.006	.004	.004	.004	.003	.003	.003
Natural Gas	.308	.384	.382	.380	.437	.431	.423
Other ³	.005	.004	.004	.004	.003	.003	.003
Renewable Energy ¹	.008	.024	.024	.024	.030	.030	.030
Electricity	.375	.472	.471	.471	.551	.552	.553
Total	.748	.939	.937	.935	1.071	1.066	1.058
Industrial ⁴							
Distillate Fuel	.132	.141	.141	.141	.154	.154	.153
Liquefied Petroleum Gas	.065	.086	.086	.086	.097	.097	.099
Motor Gasoline ²	.018	.024	.024	.024	.028	.028	.028
Petrochemical Feedstocks	.026	.041	.041	.041	.052	.052	.051
Residual Fuel	.021	.053	.052	.059	.049	.049	.057
Other Petroleum ⁵	.484	.489	.489	.488	.492	.492	.492
Natural Gas ⁶	.506	.787	.779	.770	.826	.802	.778
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.093	.098	.099	.099	.103	.104	.104
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.111	.130	.130	.130	.139	.139	.139
Purchased Electricity	.277	.334	.334	.333	.419	.418	.415
Total	1.732	2.183	2.175	2.172	2.359	2.335	2.317
Transportation							
Distillate Fuel	.478	.606	.608	.607	.722	.730	.729
Jet Fuel	.705	.883	.882	.881	1.032	1.029	1.026
Motor Gasoline ²	1.866	2.191	2.191	2.190	2.367	2.384	2.382
Residual Fuel	.386	.477	.477	.477	.581	.580	.579
Other Petroleum ⁷	.034	.040	.040	.040	.048	.048	.048
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.011	.008	.008	.092	.062	.062
Alcohol Fuels	.000	.021	.013	.013	.143	.088	.088
Electricity	.001	.006	.005	.005	.043	.037	.037
Total	3.469	4.234	4.224	4.221	5.028	4.959	4.951
Electric Utilities ⁸							
Distillate Fuel	.019	.000	.000	.002	.003	.004	.023
Residual Fuel	.120	.153	.152	.150	.169	.173	.189
Natural Gas	.522	.714	.713	.708	.824	.809	.773
Steam Coal ⁹	.494	.527	.527	.527	.809	.809	.809
Nuclear Power	.572	.544	.544	.544	.546	.546	.546
Renewable Energy/Other ¹⁰	.649	1.174	1.174	1.174	1.573	1.573	1.572
Total	2.375	3.113	3.111	3.105	3.923	3.914	3.911

- See footnotes at end of table.

**Table 112. End-Use Energy Consumption by Oil and Gas Recovery Case
West Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Primary Energy Consumption							
Distillate Fuel	0.667	0.788	0.790	0.790	0.912	0.922	0.939
Kerosene	.000	.000	.000	.000	.000	.000	.000
Jet Fuel	.705	.883	.882	.881	1.032	1.029	1.026
Liquefied Petroleum Gas	.102	.113	.113	.114	.118	.119	.120
Motor Gasoline	1.895	2.229	2.229	2.227	2.410	2.427	2.425
Petrochemical Feedstocks	.026	.041	.041	.041	.052	.052	.051
Residual Fuel	.532	.688	.686	.690	.802	.806	.829
Other Petroleum ¹¹	.515	.524	.524	.523	.534	.534	.533
Natural Gas	1.311	2.472	2.455	2.434	2.767	2.678	2.593
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.587	.625	.626	.626	.912	.913	.913
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Nuclear Power	.572	.544	.544	.544	.546	.546	.546
Renewable Energy/Other ¹²	.796	1.414	1.414	1.414	1.863	1.863	1.862
Alcohols	.000	.021	.013	.013	.143	.088	.088
Total	8.307	10.340	10.320	10.300	12.090	11.970	11.930
Electricity Consumption (all Sectors)	.955	1.182	1.182	1.180	1.450	1.446	1.445
Industrial Electricity							
Gross Consumption	.311	.386	.386	.385	.476	.474	.471
Self-generation - Own Use	.035	.052	.052	.052	.057	.056	.056
Purchased Electricity	.277	.334	.334	.333	.419	.418	.415

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 113. End-Use Energy Consumption by Oil and Gas Recovery Case
Northwest Region
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential							
Distillate Fuel	0.040	0.036	0.036	0.037	0.034	0.034	0.034
Kerosene	.000	.000	.000	.000	.000	.000	.000
Liquefied Petroleum Gas	.006	.004	.004	.004	.002	.002	.002
Natural Gas	.078	.078	.077	.077	.079	.077	.075
Coal	.004	.004	.004	.004	.004	.004	.004
Renewable Energy ¹	.095	.141	.141	.141	.190	.190	.190
Electricity	.180	.209	.209	.208	.238	.238	.239
Total	.403	.472	.471	.470	.547	.546	.545
Commercial							
Distillate Fuel	.026	.027	.027	.027	.022	.022	.022
Kerosene	.000	.000	.000	.000	.000	.000	.000
Motor Gasoline ²	.005	.006	.006	.006	.006	.006	.006
Residual Fuel	.011	.009	.009	.009	.006	.006	.006
Natural Gas	.108	.134	.134	.133	.153	.151	.148
Other ³	.009	.007	.007	.007	.005	.005	.005
Renewable Energy ¹	.007	.014	.014	.014	.021	.021	.021
Electricity	.146	.175	.175	.175	.192	.193	.193
Total	.312	.372	.371	.370	.406	.405	.402
Industrial ⁴							
Distillate Fuel	.064	.067	.067	.067	.073	.073	.073
Liquefied Petroleum Gas	.014	.018	.018	.018	.019	.020	.020
Motor Gasoline ²	.010	.013	.013	.013	.015	.015	.015
Petrochemical Feedstocks	.000	.000	.000	.000	.000	.000	.000
Residual Fuel	.016	.042	.041	.046	.039	.039	.045
Other Petroleum ⁵	.167	.172	.172	.172	.176	.176	.176
Natural Gas ⁶	.265	.412	.408	.404	.433	.420	.408
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.018	.019	.019	.019	.020	.020	.021
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Renewable Energy ¹	.180	.204	.204	.204	.216	.216	.216
Purchased Electricity	.195	.232	.232	.231	.285	.284	.283
Total	.929	1.179	1.174	1.174	1.277	1.264	1.256
Transportation							
Distillate Fuel	.206	.252	.253	.253	.294	.298	.297
Jet Fuel	.224	.329	.329	.329	.433	.432	.430
Motor Gasoline ²	.490	.544	.544	.544	.585	.570	.569
Residual Fuel	.122	.151	.150	.150	.183	.183	.183
Other Petroleum ⁷	.015	.017	.017	.017	.021	.021	.021
Pipeline Fuel Natural Gas	.000	.000	.000	.000	.000	.000	.000
Compressed Natural Gas	.000	.003	.002	.002	.023	.015	.015
Alcohol Fuels	.000	.001	.001	.001	.008	.005	.005
Electricity	.000	.000	.000	.000	.002	.002	.002
Total	1.056	1.298	1.297	1.296	1.529	1.524	1.522
Electric Utilities ⁸							
Distillate Fuel	.007	.063	.063	.056	.045	.058	.055
Residual Fuel	.000	.000	.000	.000	.000	.000	.000
Natural Gas	.043	.112	.115	.107	.120	.117	.123
Steam Coal ⁹	.100	.116	.117	.116	.320	.321	.296
Nuclear Power	.127	.075	.075	.070	.161	.161	.161
Renewable Energy/Other ¹⁰	1.489	1.497	1.497	1.496	1.536	1.536	1.536
Total	1.766	1.862	1.867	1.845	2.182	2.194	2.171

- See footnotes at end of table.

**Table 113. End-Use Energy Consumption by Oil and Gas Recovery Case
Northwest Region (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Primary Energy Consumption							
Distillate Fuel	0.343	0.445	0.446	0.439	0.468	0.485	0.481
Kerosene	.000	.000	.000	.000	.000	.000	.000
Jet Fuel	.224	.329	.329	.329	.433	.432	.430
Liquefied Petroleum Gas	.022	.025	.025	.025	.025	.026	.026
Motor Gasoline	.505	.564	.564	.563	.587	.591	.591
Petrochemical Feedstocks	.000	.000	.000	.000	.000	.000	.000
Residual Fuel	.149	.201	.200	.205	.228	.228	.234
Other Petroleum ¹¹	.180	.187	.187	.187	.194	.194	.194
Natural Gas	.494	.739	.737	.722	.808	.781	.768
Metallurgical Coal	.000	.000	.000	.000	.000	.000	.000
Steam Coal	.130	.146	.147	.146	.349	.350	.326
Net Coal Coke Imports	.000	.000	.000	.000	.000	.000	.000
Nuclear Power	.127	.075	.075	.070	.161	.161	.161
Renewable Energy/Other ¹²	1.763	1.816	1.816	1.816	1.908	1.908	1.908
Alcohols	.000	.001	.001	.001	.008	.005	.005
Total	3.937	4.528	4.527	4.503	5.170	5.161	5.124
Electricity Consumption (all Sectors)	.521	.615	.615	.614	.717	.717	.717
Industrial Electricity							
Gross Consumption	.205	.245	.245	.247	.301	.299	.301
Self-generation - Own Use	.009	.013	.013	.016	.015	.015	.018
Purchased Electricity	.195	.232	.232	.231	.285	.284	.283

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGE093.D0918923.

**Table 114. End-Use Energy Consumption by Oil and Gas Recovery Case
United States
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential							
Distillate Fuel	0.840	0.690	0.700	0.700	0.460	0.470	0.480
Kerosene	.060	.050	.050	.050	.020	.020	.020
Liquefied Petroleum Gas	.370	.380	.380	.380	.320	.320	.320
Natural Gas	4.520	4.860	4.830	4.790	4.750	4.640	4.510
Coal	.060	.060	.060	.060	.060	.060	.060
Renewable Energy ¹	.830	1.550	1.550	1.550	2.030	2.030	2.030
Electricity	3.150	3.570	3.570	3.570	3.990	4.010	4.020
Total	9.830	11.170	11.140	11.100	11.640	11.550	11.440
Commercial							
Distillate Fuel	.490	.530	.530	.530	.440	.440	.450
Kerosene	.010	.010	.010	.010	.010	.010	.010
Motor Gasoline ²	.110	.130	.130	.130	.140	.140	.140
Residual Fuel	.240	.180	.180	.180	.140	.140	.140
Natural Gas	2.760	3.180	3.170	3.150	3.310	3.250	3.190
Other ³	.160	.130	.130	.130	.100	.100	.100
Renewable Energy ¹	.100	.250	.250	.250	.370	.370	.370
Electricity	2.860	3.400	3.400	3.400	3.810	3.830	3.830
Total	6.720	7.810	7.800	7.780	8.310	8.270	8.220
Industrial ⁴							
Distillate Fuel	1.180	1.370	1.370	1.370	1.460	1.460	1.460
Liquefied Petroleum Gas	1.610	2.200	2.220	2.250	2.470	2.530	2.610
Motor Gasoline ²	.180	.240	.240	.240	.280	.280	.280
Petrochemical Feedstocks	1.100	1.330	1.330	1.330	1.630	1.620	1.620
Residual Fuel	.410	.510	.510	.530	.490	.500	.540
Other Petroleum ⁵	3.830	3.710	3.710	3.710	3.730	3.730	3.720
Natural Gas ⁶	8.470	10.400	10.210	9.980	11.040	10.500	9.970
Metallurgical Coal	1.040	.980	.980	.980	.830	.830	.830
Steam Coal	1.710	1.840	1.840	1.840	1.980	1.980	1.980
Net Coal Coke Imports	.000	.060	.060	.060	.160	.160	.150
Renewable Energy ¹	2.070	2.360	2.360	2.360	2.520	2.520	2.520
Purchased Electricity	3.230	3.960	3.970	3.970	4.810	4.810	4.800
Total	24.840	28.970	28.800	28.640	31.400	30.920	30.490
Transportation							
Distillate Fuel	3.830	4.590	4.600	4.600	5.360	5.420	5.410
Jet Fuel	3.130	3.860	3.850	3.850	4.590	4.570	4.560
Motor Gasoline ²	13.580	14.990	14.990	14.990	15.800	15.910	15.900
Residual Fuel	1.020	1.240	1.240	1.240	1.510	1.510	1.510
Other Petroleum ⁷	.240	.270	.270	.270	.320	.320	.320
Pipeline Fuel Natural Gas	.680	.720	.720	.710	.800	.810	.810
Compressed Natural Gas	.000	.020	.020	.020	.220	.150	.150
Alcohol Fuels	.000	.030	.020	.020	.240	.160	.160
Electricity	.010	.020	.020	.020	.090	.080	.080
Total	22.500	25.760	25.740	25.720	28.930	28.930	28.900
Electric Utilities ⁸							
Distillate Fuel	.090	.170	.170	.160	.170	.190	.200
Residual Fuel	1.140	1.290	1.300	1.310	1.530	1.530	1.560
Natural Gas	2.880	4.570	4.600	4.490	6.060	5.630	4.830
Steam Coal ⁹	16.200	17.340	17.350	17.400	19.430	19.960	20.870
Nuclear Power	6.190	6.900	6.900	6.890	6.940	6.940	6.940
Renewable Energy/Other ¹⁰	3.490	4.630	4.630	4.630	5.480	5.480	5.480
Total	29.990	34.900	34.950	34.880	39.610	39.720	39.870

- See footnotes at end of table.

**Table 114. End-Use Energy Consumption by Oil and Gas Recovery Case
United States (Continued)
(Quadrillion Btu per Year)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Primary Energy Consumption							
Distillate Fuel	6.420	7.350	7.370	7.350	7.900	7.990	8.010
Kerosene	.080	.050	.050	.050	.030	.030	.030
Jet Fuel	3.130	3.860	3.850	3.850	4.590	4.570	4.560
Liquefied Petroleum Gas	2.060	2.670	2.690	2.720	2.870	2.930	3.010
Motor Gasoline	13.870	15.370	15.360	15.360	16.210	16.330	16.310
Petrochemical Feedstocks	1.100	1.330	1.330	1.330	1.630	1.620	1.620
Residual Fuel	2.820	3.220	3.240	3.270	3.660	3.680	3.740
Other Petroleum ¹¹	4.050	3.950	3.950	3.950	4.010	4.010	4.010
Natural Gas	19.310	23.770	23.540	23.130	26.190	24.990	23.470
Metallurgical Coal	1.040	.980	.980	.980	.830	.830	.830
Steam Coal	18.070	19.320	19.330	19.370	21.520	22.050	22.970
Net Coal Coke Imports	.000	.060	.060	.060	.160	.160	.150
Nuclear Power	6.190	6.900	6.900	6.890	6.940	6.940	6.940
Renewable Energy/Other ¹²	6.490	8.800	8.800	8.800	10.410	10.410	10.400
Alcohols	.000	.030	.020	.020	.240	.160	.160
Total	84.630	97.650	97.470	97.140	107.200	106.700	106.200
Electricity Consumption (all Sectors)	9.260	10.960	10.970	10.960	12.710	12.730	12.730
Industrial Electricity							
Gross Consumption	3.580	4.550	4.550	4.560	5.440	5.430	5.430
Self-generation - Own Use	.390	.590	.580	.580	.630	.620	.620
Purchased Electricity	3.230	3.960	3.970	3.970	4.810	4.810	4.800

¹ Includes electricity generated by the sector for self-use from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, and non-electric energy from renewable sources such as active and passive solar systems, groundwater heat pumps, and wood.

² Includes ethanol and ethers blended into gasoline.

³ Includes liquefied petroleum gas and coal.

⁴ Includes consumption by cogenerators.

⁵ Includes petroleum coke, asphalt, road oil, lubricants, and miscellaneous petroleum products.

⁶ Includes lease and plant fuel in national tables only. Federal Region tables do not include consumption of natural gas for lease and plant fuel purposes.

⁷ Includes aviation gas, liquefied petroleum gas, lubricants, and miscellaneous petroleum products.

⁸ Includes consumption of energy by electric utilities, independent power producers, and small power producers that sell power to the grid.

⁹ Includes consumption by independent power producers.

¹⁰ Includes electricity generated to serve the grid from hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources, plus waste heat, and net electricity imports.

¹¹ Includes unfinished oils, natural gasoline, motor gasoline blending components, aviation gasoline, lubricants, asphalt, road oil, and miscellaneous petroleum products.

¹² Includes electricity generated to serve the grid and for self use from renewable sources, non-electric energy from renewable sources, excluding alcohol fuels, electricity generated from waste heat, and net electricity imports.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1990: Derived from the Energy Information Administration, *Monthly Energy Review*, DOE/EIA-0035(92/07) (Washington, DC, July 1992), using regional values from the AEO 1993 Forecasting System. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

End-Use Energy Prices by World Oil Price Case

**Table 115. End-Use Energy Prices by World Oil Price Case
New England Region
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential	12.01	14.57	13.99	12.75	16.97	15.92	14.22
Primary Energy	8.31	8.83	8.40	7.43	10.42	9.68	8.57
Petroleum Products	8.64	9.15	8.30	6.75	11.24	9.72	7.66
Distillate Fuel	8.15	8.62	7.80	6.30	10.41	9.02	7.12
Kerosene	9.44	10.20	9.38	8.08	11.61	10.32	8.67
Liquefied Petroleum Gas	13.96	13.68	12.77	11.07	16.01	14.34	12.11
Natural Gas	7.92	8.57	8.56	8.28	9.93	9.72	9.55
Steam Coal	2.45	2.94	3.05	2.89	3.53	3.59	3.53
Electricity	24.43	30.03	29.27	27.65	29.74	28.34	26.19
Commercial	12.74	15.31	14.72	13.56	16.35	15.28	13.66
Primary Energy	5.88	6.89	6.44	5.52	8.52	7.76	6.72
Petroleum Products	5.53	6.62	5.75	4.23	8.51	7.06	5.15
Distillate Fuel	6.50	7.04	6.10	4.51	8.83	7.32	5.33
Residual Fuel	3.23	4.57	3.79	2.44	6.25	4.92	3.21
Kerosene	7.41	7.96	7.14	5.85	9.37	8.08	6.44
Other Petroleum ¹	11.56	12.94	12.05	10.35	15.14	13.54	11.33
Natural Gas	6.36	7.20	7.18	6.90	8.56	8.35	8.18
Steam Coal	2.45	2.94	3.05	2.89	3.53	3.59	3.53
Electricity	24.88	29.59	28.83	27.37	27.79	26.48	24.50
Industrial	8.08	10.05	9.30	7.64	11.84	10.61	8.61
Primary Energy	4.92	6.15	5.53	4.26	7.76	6.71	5.16
Petroleum Products	5.22	6.76	5.85	4.18	8.54	7.07	4.99
Distillate Fuel	6.57	6.90	5.98	4.40	8.69	7.20	5.22
Liquefied Petroleum Gas	12.58	13.56	12.88	11.39	15.90	14.45	12.43
Motor Gasoline ²	10.40	12.43	11.33	9.46	14.70	13.00	10.69
Residual Fuel	3.19	4.55	3.75	2.39	6.23	4.88	3.15
Other Petroleum ³	6.31	7.33	6.56	5.27	8.80	7.53	5.85
Natural Gas ⁴	4.45	5.27	5.26	4.98	6.64	6.42	6.25
Metallurgical Coal	.00	.00	.00	.00	.00	.00	.00
Steam Coal	1.81	2.18	2.18	2.13	2.60	2.63	2.57
Electricity	17.93	21.20	20.50	19.07	21.98	20.73	18.78
Transportation	10.01	11.73	10.71	8.91	13.80	12.20	10.00
Primary Energy	9.97	11.67	10.65	8.85	13.72	12.13	9.92
Petroleum Products	9.97	11.68	10.65	8.86	13.76	12.16	9.96
Distillate Fuel ⁵	9.76	11.16	10.27	8.72	12.95	11.49	9.54
Jet Fuel ⁶	6.25	6.52	5.58	3.97	8.35	6.84	4.81
Motor Gasoline ²	10.38	12.40	11.32	9.43	14.68	12.99	10.66
Residual Fuel	2.44	3.69	3.08	2.01	5.03	3.98	2.60
Other Petroleum ⁷	17.10	16.94	16.28	15.12	18.39	17.25	15.72
Natural Gas	3.89	9.40	8.32	6.43	11.68	9.99	7.66
Electricity	18.49	23.23	22.46	20.91	22.72	21.34	19.22
Total End-Use Energy	10.65	12.75	11.92	10.32	14.57	13.22	11.18
Primary Energy	8.32	9.64	8.86	7.39	11.56	10.31	8.50
Electricity	22.91	27.61	26.85	25.31	26.92	25.57	23.48

- See footnotes at end of table.

Table 115 End-Use Energy Prices by World Oil Price Case
New England Region (Continued)
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Electric Utilities							
Fossil Fuel Average	2.59	3.61	3.17	2.25	5.22	4.38	3.15
Petroleum Products	3.08	4.47	3.64	2.31	6.55	5.09	3.30
Distillate Fuel	5.83	6.01	5.19	3.69	7.80	6.41	4.51
Residual Fuel	3.02	4.45	3.63	2.30	6.51	5.07	3.27
Natural Gas	2.53	3.55	3.53	3.22	4.91	4.70	4.57
Steam Coal	1.76	2.12	2.14	2.09	2.66	2.71	2.68
Average Price to All Users ⁸							
Petroleum Products	7.83	9.34	8.38	6.53	11.36	9.80	7.55
Distillate Fuel ⁵	8.24	9.09	8.20	6.63	11.05	9.60	7.50
Jet Fuel ⁶	6.25	6.52	5.58	3.97	8.35	6.84	4.81
Kerosene	9.02	9.39	8.57	7.28	9.37	8.08	6.44
Liquefied Petroleum Gas	13.49	13.63	12.81	11.21	15.96	14.39	12.25
Motor Gasoline ²	10.38	12.40	11.32	9.43	14.68	12.99	10.66
Residual Fuel	3.07	4.47	3.66	2.33	6.42	5.01	3.23
Other Petroleum Products ³	7.28	8.19	7.42	6.11	9.70	8.42	6.73
Natural Gas	6.14	6.94	6.91	7.20	8.42	8.10	8.33
Coal	1.78	2.14	2.16	2.11	2.67	2.72	2.68
Electricity	22.91	27.61	26.85	25.31	26.92	25.57	23.48

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 116. End-Use Energy Prices by World Oil Price Case
New York/New Jersey Region
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential	12.38	13.11	12.82	11.97	15.71	14.97	13.84
Primary Energy	7.70	8.40	8.17	7.53	9.80	9.34	8.68
Petroleum Products	8.80	9.38	8.60	7.15	11.41	9.97	8.04
Distillate Fuel	8.49	8.97	8.21	6.82	10.76	9.43	7.63
Kerosene	10.06	10.88	10.06	8.76	12.29	11.00	9.35
Liquefied Petroleum Gas	12.03	13.16	12.31	10.65	15.50	13.88	11.69
Natural Gas	7.16	8.05	8.04	7.76	9.41	9.20	9.02
Steam Coal	2.16	2.22	2.22	2.19	2.39	2.39	2.35
Electricity	31.34	29.11	28.62	27.18	30.79	29.30	27.15
Commercial	13.45	14.20	13.77	12.76	16.14	15.13	13.72
Primary Energy	5.42	6.49	6.12	5.31	8.06	7.40	6.52
Petroleum Products	5.42	6.48	5.60	4.10	8.41	6.97	5.07
Distillate Fuel	6.36	6.89	5.99	4.43	8.68	7.21	5.25
Residual Fuel	3.93	4.96	4.10	2.69	6.64	5.23	3.45
Kerosene	7.12	7.37	6.55	5.25	8.78	7.49	5.84
Other Petroleum ¹	10.24	12.12	11.15	9.39	14.35	12.71	10.46
Natural Gas	5.47	6.54	6.53	6.25	7.90	7.69	7.52
Steam Coal	2.16	2.22	2.22	2.19	2.39	2.39	2.35
Electricity	29.68	28.95	28.47	27.16	29.50	28.06	26.18
Industrial	6.92	7.81	7.38	6.43	9.82	8.94	7.66
Primary Energy	5.31	6.14	5.72	4.85	7.61	6.82	5.70
Petroleum Products	6.61	7.59	6.81	5.36	9.24	7.91	6.05
Distillate Fuel	6.38	6.66	5.78	4.25	8.45	7.00	5.07
Liquefied Petroleum Gas	10.74	13.02	12.24	10.65	15.36	13.81	11.69
Motor Gasoline ²	9.77	11.90	10.78	8.86	14.18	12.45	10.09
Residual Fuel	3.82	4.90	4.04	2.64	6.58	5.17	3.40
Other Petroleum ³	6.75	7.47	6.75	5.48	8.97	7.72	6.04
Natural Gas ⁴	4.45	5.41	5.40	5.12	6.77	6.56	6.39
Metallurgical Coal	-	2.35	2.37	2.34	2.72	2.79	2.74
Steam Coal	-	1.70	1.71	1.70	1.98	2.01	1.98
Electricity	14.20	15.22	14.82	13.69	18.28	17.11	15.34
Transportation	8.95	10.57	9.54	7.78	12.67	11.07	8.93
Primary Energy	8.85	10.47	9.44	7.68	12.43	10.85	8.70
Petroleum Products	8.85	10.47	9.44	7.68	12.45	10.87	8.72
Distillate Fuel ⁵	9.54	10.94	10.09	8.58	12.73	11.31	9.40
Jet Fuel ⁶	5.94	6.28	5.29	3.63	8.12	6.55	4.47
Motor Gasoline ²	9.77	11.90	10.78	8.86	14.18	12.45	10.09
Residual Fuel	3.07	4.17	3.45	2.27	5.52	4.36	2.86
Other Petroleum ⁷	18.20	17.62	17.13	16.15	19.07	18.10	16.74
Natural Gas	4.72	9.18	8.05	6.14	11.46	9.73	7.37
Electricity	27.61	26.95	26.44	25.07	28.70	27.20	25.15
Total End-Use Energy	10.20	11.29	10.63	9.33	13.34	12.14	10.43
Primary Energy	7.45	8.65	8.00	6.76	10.41	9.32	7.80
Electricity	26.50	25.80	25.29	23.94	27.17	25.73	23.70

- See footnotes at end of table.

**Table 116. End-Use Energy Prices by World Oil Price Case
New York/New Jersey Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Electric Utilities							
Fossil Fuel Average	2.70	3.38	3.16	2.52	4.99	4.33	3.49
Petroleum Products	3.89	4.96	4.13	2.74	6.87	5.45	3.77
Distillate Fuel	6.05	6.36	5.45	3.89	8.15	6.67	4.71
Residual Fuel	3.80	4.94	4.11	2.73	6.83	5.42	3.62
Natural Gas	2.43	3.53	3.52	2.90	4.86	4.65	4.53
Steam Coal	1.63	1.85	1.86	1.84	2.11	2.16	2.13
Average Price to All Users ^a							
Petroleum Products	7.67	9.22	8.27	6.62	10.89	9.42	7.04
Distillate Fuel ⁵	8.23	9.09	8.24	6.72	11.02	9.57	7.17
Jet Fuel ⁶	5.94	6.28	5.29	3.63	8.12	6.55	4.47
Kerosene	9.67	10.00	9.18	7.89	8.78	7.49	5.84
Liquefied Petroleum Gas	11.54	13.08	12.31	10.73	15.41	13.87	11.75
Motor Gasoline ²	9.77	11.90	10.78	8.86	14.18	12.45	10.09
Residual Fuel	3.72	4.78	3.97	2.62	6.58	5.20	3.51
Other Petroleum Products ³	7.20	7.89	7.17	5.89	9.41	8.17	6.48
Natural Gas	5.35	6.27	6.24	5.86	7.41	7.13	7.60
Coal	1.68	1.88	1.89	1.88	2.15	2.19	2.16
Electricity	26.50	25.80	25.29	23.94	27.17	25.73	23.70

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 117. End-Use Energy Prices by World Oil Price Case
Mid-Atlantic Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential	12.86	14.35	14.19	13.64	15.83	15.47	14.91
Primary Energy	7.08	7.60	7.41	6.85	8.90	8.51	8.01
Petroleum Products	8.65	9.17	8.34	6.83	11.29	9.78	7.75
Distillate Fuel	8.02	8.44	7.67	6.25	10.23	8.89	7.07
Kerosene	9.26	9.88	9.06	7.77	11.29	10.00	8.35
Liquefied Petroleum Gas	13.31	13.47	12.43	10.61	15.80	14.01	11.65
Natural Gas	6.63	7.33	7.32	7.04	8.68	8.47	8.30
Steam Coal	2.05	2.34	2.43	2.33	2.71	2.75	2.74
Electricity	24.07	25.98	25.89	25.46	25.25	24.89	24.35
Commercial	13.26	13.99	13.83	13.34	14.37	13.97	13.31
Primary Energy	5.60	6.36	6.14	5.56	7.83	7.38	6.81
Petroleum Products	6.20	7.04	6.08	4.46	9.06	7.49	5.39
Distillate Fuel	5.86	6.46	5.51	3.90	8.25	6.73	4.72
Residual Fuel	3.53	4.73	3.94	2.61	6.41	5.07	3.37
Kerosene	6.48	7.35	6.53	5.24	8.76	7.47	5.83
Other Petroleum ¹	10.37	11.66	10.60	8.75	13.96	12.26	9.93
Natural Gas	5.72	6.40	6.39	6.11	7.75	7.54	7.37
Steam Coal	2.05	2.34	2.43	2.33	2.71	2.75	2.74
Electricity	22.52	22.79	22.72	22.37	21.01	20.71	20.04
Industrial	5.90	6.76	6.58	6.08	8.03	7.62	7.01
Primary Energy	3.93	4.65	4.43	3.89	5.90	5.43	4.74
Petroleum Products	6.58	7.51	6.74	5.32	9.16	7.84	5.99
Distillate Fuel	5.86	6.64	5.66	4.03	8.43	6.88	4.84
Liquefied Petroleum Gas	11.38	11.47	10.52	8.77	13.80	12.09	9.80
Motor Gasoline ²	10.08	11.66	10.55	8.64	13.94	12.23	9.87
Residual Fuel	3.47	4.64	3.80	2.41	6.32	4.93	3.18
Other Petroleum ³	6.52	7.33	6.66	5.41	8.82	7.62	5.96
Natural Gas ⁴	3.90	4.80	4.79	4.51	6.15	5.94	5.77
Metallurgical Coal	1.72	2.00	2.04	2.01	2.33	2.40	2.39
Steam Coal	-	1.72	1.73	1.72	2.04	2.07	2.05
Electricity	15.69	16.47	16.44	16.14	16.23	16.04	15.70
Transportation	9.32	10.65	9.61	7.82	12.63	11.03	8.85
Primary Energy	9.32	10.65	9.61	7.82	12.63	11.03	8.85
Petroleum Products	9.32	10.65	9.61	7.82	12.63	11.03	8.85
Distillate Fuel ⁵	9.13	10.52	9.59	7.98	12.31	10.81	8.80
Jet Fuel ⁶	5.86	6.24	5.28	3.65	8.08	6.53	4.49
Motor Gasoline ²	10.06	11.66	10.54	8.62	13.94	12.21	9.86
Residual Fuel	2.85	3.88	3.23	2.09	5.23	4.14	2.68
Other Petroleum ⁷	17.94	17.43	16.93	15.94	18.88	17.89	16.53
Natural Gas	4.90	8.91	7.79	5.88	11.19	9.46	7.11
Electricity	20.40	21.41	21.33	20.95	20.47	20.17	19.62
Total End-Use Energy	9.12	10.26	9.77	8.77	11.72	10.86	9.61
Primary Energy	6.76	7.75	7.20	6.13	9.49	8.55	7.21
Electricity	20.60	21.61	21.53	21.15	20.67	20.37	19.82

- See footnotes at end of table.

**Table 117. End-Use Energy Prices by World Oil Price Case
Mid-Atlantic Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Electric Utilities							
Fossil Fuel Average	1.54	1.90	1.90	1.78	2.42	2.41	2.41
Petroleum Products	3.60	4.97	4.07	2.69	6.75	5.31	3.58
Distillate Fuel	5.19	5.93	4.97	3.33	7.72	6.18	4.15
Residual Fuel	3.42	4.78	3.91	2.49	6.57	5.11	3.29
Natural Gas	2.67	4.03	3.99	3.53	5.47	5.29	5.06
Steam Coal	1.41	1.63	1.69	1.67	1.88	1.93	1.95
Average Price to All Users ⁸							
Petroleum Products	8.41	9.57	8.58	6.81	11.50	9.99	7.69
Distillate Fuel ⁵	8.08	9.13	8.20	6.43	11.12	9.59	7.14
Jet Fuel ⁶	5.86	6.24	5.28	3.65	8.08	6.53	4.49
Kerosene	9.00	9.58	8.76	7.46	10.63	9.34	7.70
Liquefied Petroleum Gas	12.07	12.08	11.09	9.28	14.34	12.58	10.24
Motor Gasoline ²	10.06	11.66	10.54	8.63	13.94	12.21	9.86
Residual Fuel	3.28	4.53	3.73	2.40	6.17	4.82	3.16
Other Petroleum Products ³	6.99	7.76	7.09	5.84	9.29	8.08	6.41
Natural Gas	5.24	5.99	5.97	5.79	7.16	6.89	6.68
Coal	-	1.69	1.74	1.72	1.94	2.00	2.01
Electricity	20.60	21.61	21.53	21.15	20.67	20.37	19.82

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 118. End-Use Energy Prices by World Oil Price Case
South Atlantic Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential	16.66	16.17	16.02	15.48	17.61	17.21	16.59
Primary Energy	7.25	7.95	7.74	7.14	9.31	8.83	8.25
Petroleum Products	10.35	11.05	10.24	8.67	13.56	12.01	9.88
Distillate Fuel	7.86	8.21	7.48	6.08	9.99	8.70	6.90
Kerosene	8.88	9.57	8.75	7.46	10.99	9.69	8.05
Liquefied Petroleum Gas	11.85	12.26	11.45	9.82	14.59	13.02	10.86
Natural Gas	6.16	6.97	6.96	6.69	8.29	8.08	7.92
Steam Coal	1.83	2.05	2.09	2.07	2.44	2.50	2.49
Electricity	22.31	20.63	20.52	20.02	21.10	20.75	20.16
Commercial	14.53	14.48	14.30	13.75	15.45	15.04	14.43
Primary Energy	5.42	6.40	6.14	5.51	7.89	7.37	6.74
Petroleum Products	6.66	7.77	6.74	5.00	10.05	8.39	6.15
Distillate Fuel	5.52	6.15	5.13	3.46	7.94	6.35	4.28
Residual Fuel	3.18	4.32	3.50	2.11	6.00	4.63	2.87
Kerosene	7.19	7.44	6.61	5.32	8.85	7.55	5.91
Other Petroleum ¹	9.85	11.10	9.98	8.06	13.41	11.64	9.26
Natural Gas	5.09	6.07	6.06	5.79	7.38	7.18	7.01
Steam Coal	1.83	2.05	2.09	2.07	2.44	2.50	2.49
Electricity	21.00	19.59	19.48	19.01	19.46	19.13	18.60
Industrial	6.55	7.34	7.11	6.50	8.82	8.34	7.62
Primary Energy	3.99	4.75	4.46	3.82	6.07	5.50	4.70
Petroleum Products	6.00	7.05	6.21	4.73	8.77	7.37	5.48
Distillate Fuel	5.89	6.47	5.48	3.83	8.26	6.70	4.65
Liquefied Petroleum Gas	9.20	10.07	9.28	7.70	12.40	10.86	8.74
Motor Gasoline ²	9.70	11.16	10.01	8.08	13.44	11.68	9.31
Residual Fuel	3.30	4.46	3.61	2.19	6.14	4.74	2.96
Other Petroleum ³	5.73	6.78	6.02	4.75	8.26	7.00	5.34
Natural Gas ⁴	3.35	4.23	4.22	3.94	5.54	5.33	5.17
Metallurgical Coal	-	1.93	1.96	1.94	2.29	2.34	2.34
Steam Coal	-	1.89	1.91	1.88	2.24	2.27	2.26
Electricity	14.64	14.66	14.56	14.13	15.38	15.11	14.64
Transportation	8.99	10.15	9.09	7.30	12.13	10.50	8.32
Primary Energy	8.99	10.15	9.09	7.30	12.13	10.50	8.32
Petroleum Products	8.99	10.15	9.09	7.30	12.13	10.50	8.32
Distillate Fuel ⁵	8.70	9.65	8.74	7.18	11.44	9.96	8.00
Jet Fuel ⁶	5.90	6.23	5.25	3.61	8.06	6.50	4.45
Motor Gasoline ²	9.72	11.18	10.03	8.10	13.45	11.70	9.33
Residual Fuel	2.44	3.65	3.08	2.05	4.99	3.98	2.64
Other Petroleum ⁷	15.88	15.87	15.16	13.95	17.37	16.14	14.55
Natural Gas	2.86	8.82	7.67	5.74	11.09	9.34	6.97
Electricity	17.24	16.14	16.02	15.54	16.47	16.13	15.57
Total End-Use Energy	9.87	10.55	9.95	8.78	12.19	11.17	9.72
Primary Energy	7.16	8.19	7.48	6.18	10.07	8.89	7.26
Electricity	19.37	18.27	18.14	17.67	18.59	18.26	17.70

- See footnotes at end of table.

**Table 118. End-Use Energy Prices by World Oil Price Case
South Atlantic Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Electric Utilities							
Fossil Fuel Average	1.69	2.14	2.10	1.91	2.71	2.62	2.42
Petroleum Products	3.28	4.49	3.68	2.37	6.45	5.03	3.36
Distillate Fuel	5.66	6.22	5.23	3.58	8.01	6.45	4.40
Residual Fuel	3.10	4.42	3.61	2.28	6.37	4.96	3.18
Natural Gas	2.38	3.21	3.19	2.66	4.66	4.48	4.01
Steam Coal	1.53	1.78	1.80	1.78	2.06	2.11	2.08
Average Price to All Users ^a							
Petroleum Products	8.21	9.31	8.30	6.30	11.31	9.74	7.34
Distillate Fuel ⁵	7.98	8.93	7.99	6.28	10.81	9.31	7.04
Jet Fuel ⁶	5.90	6.23	5.25	3.61	8.06	6.50	4.45
Kerosene	8.75	9.43	8.61	7.31	10.75	9.46	7.81
Liquefied Petroleum Gas	10.59	11.15	10.29	8.59	13.35	11.73	9.49
Motor Gasoline ²	9.72	11.18	10.03	8.10	13.45	11.70	9.33
Residual Fuel	3.02	4.30	3.53	2.25	6.09	4.75	3.10
Other Petroleum Products ³	6.41	7.48	6.71	5.42	9.08	7.80	6.12
Natural Gas	4.06	4.69	4.66	4.74	5.87	5.69	5.67
Coal	1.54	1.80	1.81	1.79	2.08	2.13	2.10
Electricity	19.37	18.27	18.14	17.67	18.59	18.26	17.70

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 119. End-Use Energy Prices by World Oil Price Case
Midwest Region
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential	10.15	11.49	11.45	11.03	13.11	12.83	12.49
Primary Energy	5.59	6.53	6.42	5.99	7.85	7.52	7.18
Petroleum Products	8.97	9.72	8.68	6.90	12.01	10.25	7.93
Distillate Fuel	7.48	8.08	7.14	5.54	9.87	8.36	6.36
Kerosene	8.99	9.76	8.93	7.64	11.17	9.87	8.23
Liquefied Petroleum Gas	10.83	10.94	9.85	7.97	13.27	11.43	9.01
Natural Gas	5.17	6.20	6.19	5.91	7.53	7.32	7.16
Steam Coal	2.03	2.29	2.32	2.30	2.68	2.75	2.76
Electricity	25.43	27.73	28.03	27.80	27.96	27.96	27.88
Commercial	10.58	11.43	11.42	11.07	12.55	12.33	12.03
Primary Energy	4.80	5.80	5.69	5.28	7.20	6.87	6.52
Petroleum Products	7.24	8.26	7.21	5.46	10.64	8.95	6.67
Distillate Fuel	5.48	6.28	5.27	3.62	8.07	6.49	4.44
Residual Fuel	2.62	4.23	3.55	2.30	5.91	4.68	3.07
Kerosene	6.76	7.35	6.53	5.24	8.76	7.47	5.83
Other Petroleum ¹	10.17	11.24	10.10	8.16	13.61	11.82	9.41
Natural Gas	4.61	5.63	5.62	5.35	6.97	6.76	6.59
Steam Coal	2.03	2.29	2.32	2.30	2.68	2.75	2.76
Electricity	22.04	21.64	21.90	21.72	20.91	20.98	20.95
Industrial	6.33	7.26	7.12	6.56	8.56	8.19	7.58
Primary Energy	4.35	5.23	4.97	4.36	6.45	5.93	5.20
Petroleum Products	6.93	8.04	7.22	5.71	9.83	8.43	6.46
Distillate Fuel	5.91	6.64	5.66	4.01	8.43	6.88	4.83
Liquefied Petroleum Gas	10.49	10.61	9.48	7.56	12.94	11.05	8.60
Motor Gasoline ²	10.02	11.55	10.40	8.46	13.83	12.07	9.69
Residual Fuel	2.75	4.30	3.60	2.33	5.98	4.73	3.09
Other Petroleum ³	6.72	7.81	7.21	6.10	9.24	8.14	6.63
Natural Gas ⁴	3.84	4.81	4.80	4.53	6.14	5.94	5.77
Metallurgical Coal	1.92	2.18	2.21	2.19	2.55	2.63	2.61
Steam Coal	1.47	1.63	1.63	1.63	1.92	1.92	1.92
Electricity	15.16	15.35	15.59	15.42	15.81	15.91	15.90
Transportation	9.56	10.89	9.80	7.97	12.96	11.30	9.06
Primary Energy	9.56	10.89	9.80	7.97	12.96	11.30	9.06
Petroleum Products	9.56	10.89	9.80	7.97	12.96	11.30	9.06
Distillate Fuel ⁵	9.01	10.32	9.39	7.82	12.10	10.61	8.63
Jet Fuel ⁶	6.01	6.31	5.33	3.68	8.15	6.59	4.51
Motor Gasoline ²	9.99	11.54	10.37	8.43	13.81	12.05	9.66
Residual Fuel	2.72	3.95	3.48	2.52	5.30	4.39	3.11
Other Petroleum ⁷	17.15	16.59	16.01	14.93	18.09	16.99	15.52
Natural Gas	3.10	8.73	7.57	5.63	11.01	9.24	6.86
Electricity	21.03	21.39	21.59	21.38	21.25	21.25	21.16
Total End-Use Energy	8.62	9.67	9.29	8.38	11.15	10.44	9.40
Primary Energy	6.52	7.50	7.01	6.03	9.06	8.22	7.06
Electricity	20.05	20.41	20.61	20.40	20.27	20.27	20.18

- See footnotes at end of table.

**Table 119. End-Use Energy Prices by World Oil Price Case
Midwest Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Electric Utilities							
Fossil Fuel Average	1.51	1.80	1.90	1.83	2.29	2.34	2.39
Petroleum Products	3.66	5.70	4.68	3.30	7.55	6.10	3.80
Distillate Fuel	5.41	6.26	5.27	3.64	8.05	6.49	4.46
Residual Fuel	3.48	5.06	4.30	2.98	6.69	5.43	3.74
Natural Gas	1.55	3.12	3.07	2.77	4.80	4.56	4.39
Steam Coal	1.49	1.62	1.71	1.69	1.82	1.93	1.94
Average Price to All Users ¹							
Petroleum Products	8.81	10.02	8.98	7.22	12.04	10.44	8.07
Distillate Fuel ⁵	8.11	9.17	8.19	6.50	11.10	9.56	7.39
Jet Fuel ⁶	6.01	6.31	5.33	3.68	8.15	6.59	4.51
Kerosene	8.53	9.45	8.63	7.34	10.83	9.5	7.89
Liquefied Petroleum Gas	10.60	10.70	9.58	7.67	13.02	11.1	8.68
Motor Gasoline ²	9.99	11.54	10.37	8.43	13.82	12.05	9.66
Residual Fuel	2.95	4.41	3.78	2.44	6.01	4.76	3.48
Other Petroleum Products ³	7.31	8.35	7.75	6.63	9.83	8.72	7.20
Natural Gas	4.54	5.29	5.26	4.98	6.51	6.29	6.12
Coal	1.53	1.67	1.75	1.73	1.88	1.98	1.98
Electricity	20.05	20.41	20.61	20.40	20.27	20.27	20.18

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 120. End-Use Energy Prices by World Oil Price Case
Southwest Region
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential	14.63	16.40	16.45	16.02	18.94	18.60	18.21
Primary Energy	6.20	7.01	6.90	6.47	8.35	8.00	7.64
Petroleum Products	10.36	10.37	9.46	7.76	12.67	11.02	8.79
Distillate Fuel	6.07	6.90	6.10	4.65	8.69	7.32	5.47
Kerosene	7.20	9.05	8.22	6.93	10.46	9.16	7.52
Liquefied Petroleum Gas	10.69	10.54	9.62	7.88	12.87	11.19	8.92
Natural Gas	5.62	6.58	6.57	6.31	7.88	7.68	7.51
Steam Coal	2.15	2.33	2.33	2.30	2.74	2.75	2.76
Electricity	23.03	25.20	25.40	24.99	27.15	26.81	26.48
Commercial	12.63	13.83	13.83	13.36	15.47	15.11	14.74
Primary Energy	4.68	5.66	5.47	4.93	7.06	6.64	6.15
Petroleum Products	6.22	7.26	6.27	4.58	9.59	7.97	5.78
Distillate Fuel	5.52	6.04	5.06	3.43	7.83	6.28	4.25
Residual Fuel	2.65	4.00	3.22	1.89	5.68	4.35	2.65
Kerosene	6.95	7.28	6.46	5.17	8.69	7.40	5.76
Other Petroleum ¹	8.47	10.10	9.03	7.17	12.68	10.95	8.61
Natural Gas	4.28	5.29	5.28	5.02	6.59	6.39	6.22
Steam Coal	2.15	2.33	2.33	2.30	2.74	2.75	2.76
Electricity	20.39	21.25	21.45	21.09	22.16	21.88	21.71
Industrial	4.57	5.27	4.97	4.18	7.03	6.32	5.32
Primary Energy	3.92	4.55	4.22	3.40	6.20	5.45	4.40
Petroleum Products	5.71	6.34	5.56	4.05	8.24	6.82	4.84
Distillate Fuel	5.87	6.29	5.33	3.72	8.08	6.55	4.54
Liquefied Petroleum Gas	4.79	5.72	4.86	3.17	8.06	6.43	4.21
Motor Gasoline ²	9.70	11.32	10.16	8.22	13.59	11.84	9.45
Residual Fuel	2.71	4.05	3.25	1.90	5.73	4.38	2.66
Other Petroleum ³	6.37	6.85	6.21	4.99	8.39	7.21	5.57
Natural Gas ⁴	2.14	2.98	2.97	2.70	4.27	4.07	3.91
Metallurgical Coal	.00	.00	.00	.00	.00	.00	.00
Steam Coal	1.73	1.87	1.84	1.79	2.12	2.07	2.06
Electricity	13.56	14.41	14.62	14.29	16.19	15.99	15.85
Transportation	8.23	9.34	8.33	6.61	11.18	9.63	7.53
Primary Energy	8.23	9.34	8.33	6.61	11.18	9.63	7.53
Petroleum Products	8.23	9.34	8.33	6.61	11.18	9.63	7.53
Distillate Fuel ⁵	8.59	9.98	9.00	7.37	11.77	10.22	8.19
Jet Fuel ⁶	5.83	6.13	5.08	3.37	7.97	6.34	4.21
Motor Gasoline ²	9.69	11.30	10.16	8.22	13.58	11.84	9.45
Residual Fuel	3.10	3.98	3.45	2.45	5.32	4.36	3.05
Other Petroleum ⁷	16.31	15.62	15.20	14.30	17.07	16.15	14.86
Natural Gas	3.22	8.68	7.54	5.60	10.96	9.21	6.83
Electricity	18.79	19.86	20.04	19.65	21.26	20.96	20.70
Total End-Use Energy	6.82	7.69	7.23	6.18	9.51	8.59	7.30
Primary Energy	5.36	6.18	5.65	4.57	7.94	6.96	5.60
Electricity	18.78	19.86	20.04	19.65	21.26	20.96	20.70

- See footnotes at end of table.

**Table 120. End-Use Energy Prices by World Oil Price Case
Southwest Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Electric Utilities							
Fossil Fuel Average	1.86	2.21	2.29	2.17	2.93	2.83	2.75
Petroleum Products	4.08	4.64	4.07	3.52	6.24	5.14	4.32
Distillate Fuel	5.68	6.04	5.20	3.71	7.83	6.42	4.53
Residual Fuel	3.83	4.64	4.07	3.18	6.24	5.14	3.68
Natural Gas	2.20	2.99	2.98	2.68	4.41	4.17	3.83
Steam Coal	1.61	1.54	1.69	1.71	1.87	1.97	2.14
Average Price to All Users ^a							
Petroleum Products	6.98	7.89	6.97	5.30	9.78	8.28	6.18
Distillate Fuel ⁵	7.62	8.78	7.79	5.97	10.69	9.12	6.81
Jet Fuel ⁶	5.83	6.13	5.08	3.37	7.97	6.34	4.21
Kerosene	7.11	8.54	7.72	6.43	9.86	8.57	6.93
Liquefied Petroleum Gas	5.04	5.88	5.01	3.30	8.17	6.54	4.30
Motor Gasoline ²	9.69	11.30	10.16	8.22	13.58	11.84	9.45
Residual Fuel	3.02	4.04	3.46	2.36	5.44	4.41	2.99
Other Petroleum Products ³	6.58	7.05	6.41	5.20	8.61	7.43	5.79
Natural Gas	2.52	3.32	3.32	3.05	4.64	4.43	4.25
Coal	1.61	1.55	1.70	1.71	1.88	1.98	2.13
Electricity	18.78	19.86	20.04	19.65	21.26	20.96	20.70

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 121. End-Use Energy Prices by World Oil Price Case
Central Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential	11.04	12.04	12.04	11.59	14.70	14.46	13.88
Primary Energy	5.42	6.00	5.88	5.42	7.37	7.00	6.60
Petroleum Products	8.57	8.14	7.34	5.78	10.43	8.89	6.79
Distillate Fuel	7.29	7.54	6.67	5.17	9.33	7.89	5.98
Kerosene	8.98	9.33	8.50	7.21	10.74	9.44	7.80
Liquefied Petroleum Gas	8.91	8.22	7.44	5.86	10.55	9.01	6.90
Natural Gas	4.92	5.66	5.65	5.38	6.98	6.78	6.61
Steam Coal	1.74	1.83	1.87	1.87	2.07	2.09	2.10
Electricity	23.00	24.97	25.28	24.94	28.34	28.47	27.72
Commercial	10.43	10.93	10.96	10.61	12.67	12.51	12.02
Primary Energy	4.19	5.03	4.93	4.53	6.40	6.08	5.75
Petroleum Products	6.52	7.92	6.90	5.16	10.28	8.60	6.34
Distillate Fuel	5.58	6.10	5.10	3.47	7.88	6.32	4.29
Residual Fuel	2.53	4.04	3.33	2.07	5.72	4.46	2.83
Kerosene	6.63	7.12	6.30	5.00	8.53	7.24	5.59
Other Petroleum ¹	7.65	9.97	8.92	7.08	12.48	10.73	8.39
Natural Gas	3.98	4.79	4.78	4.51	6.11	5.90	5.74
Steam Coal	1.74	1.83	1.87	1.87	2.07	2.09	2.10
Electricity	20.81	19.99	20.29	20.09	20.99	21.17	20.64
Industrial	5.74	6.70	6.44	5.67	8.17	7.58	6.66
Primary Energy	4.24	5.31	4.93	4.10	6.72	5.99	5.00
Petroleum Products	5.83	7.29	6.42	4.87	9.15	7.68	5.68
Distillate Fuel	6.07	6.43	5.48	3.87	8.22	6.70	4.69
Liquefied Petroleum Gas	4.75	8.17	7.38	5.79	10.50	8.95	6.83
Motor Gasoline ²	9.59	11.11	9.98	8.08	13.38	11.66	9.31
Residual Fuel	2.54	3.97	3.28	2.02	5.65	4.41	2.79
Other Petroleum ³	5.79	6.96	6.16	4.80	8.47	7.14	5.40
Natural Gas ⁴	3.15	4.03	4.02	3.75	5.35	5.15	4.98
Metallurgical Coal	-	.00	.00	.00	.00	.00	.00
Steam Coal	-	1.44	1.43	1.41	1.62	1.59	1.57
Electricity	14.16	14.14	14.43	14.25	15.11	15.21	14.96
Transportation	9.15	10.42	9.36	7.55	12.46	10.83	8.61
Primary Energy	9.15	10.42	9.36	7.55	12.46	10.83	8.61
Petroleum Products	9.15	10.42	9.36	7.55	12.47	10.83	8.62
Distillate Fuel ⁵	8.67	9.84	8.89	7.29	11.63	10.11	8.11
Jet Fuel ⁶	6.02	6.34	5.35	3.68	8.17	6.60	4.51
Motor Gasoline ²	9.55	11.07	9.94	8.03	13.34	11.62	9.26
Residual Fuel	1.54	2.91	2.57	1.73	4.25	3.47	2.32
Other Petroleum ⁷	16.71	16.74	15.97	14.70	18.21	16.93	15.28
Natural Gas	.00	8.65	7.53	5.61	10.93	9.20	6.84
Electricity	19.57	19.76	20.02	19.76	21.35	21.42	20.86
Total End-Use Energy	8.59	9.49	9.02	7.97	11.29	10.45	9.12
Primary Energy	6.57	7.49	6.91	5.77	9.15	8.16	6.80
Electricity	19.57	19.76	20.02	19.76	21.35	21.42	20.86

- See footnotes at end of table.

Table 121. End-Use Energy Prices by World Oil Price Case
Central Region (Continued)
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Electric Utilities							
Fossil Fuel Average	1.39	1.62	1.72	1.67	1.98	2.00	2.00
Petroleum Products	4.43	6.12	5.14	2.97	7.95	5.45	3.89
Distillate Fuel	5.66	6.19	5.20	3.57	7.98	6.42	4.39
Residual Fuel	2.67	4.70	3.95	2.65	6.37	5.07	3.44
Natural Gas	1.89	2.99	2.98	2.69	4.42	4.20	4.02
Steam Coal	1.36	1.38	1.50	1.49	1.57	1.65	1.64
Average Price to All Users ⁸							
Petroleum Products	8.27	9.44	8.43	6.62	11.43	9.82	7.63
Distillate Fuel ⁵	7.85	8.70	7.71	5.98	10.59	9.03	6.83
Jet Fuel ⁶	6.02	6.34	5.35	3.68	8.17	6.60	4.51
Kerosene	8.54	9.08	8.26	6.97	10.46	9.17	7.53
Liquefied Petroleum Gas	6.46	8.23	7.43	5.83	10.55	8.99	6.86
Motor Gasoline ²	9.55	11.07	9.94	8.03	13.34	11.62	9.26
Residual Fuel	2.52	3.95	3.27	2.38	5.59	4.69	3.05
Other Petroleum Products ³	6.68	7.81	6.98	5.61	9.33	7.99	6.22
Natural Gas	3.91	4.45	4.44	4.20	5.76	5.57	5.38
Coal	1.36	1.38	1.49	1.48	1.57	1.64	1.64
Electricity	19.57	19.76	20.02	19.76	21.35	21.42	20.86

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 122. End-Use Energy Prices by World Oil Price Case
North Central Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential	10.14	11.61	11.54	11.07	13.75	13.40	13.04
Primary Energy	5.21	5.95	5.84	5.41	7.22	6.90	6.57
Petroleum Products	7.96	8.25	7.34	5.69	10.39	8.79	6.64
Distillate Fuel	7.18	7.59	6.69	5.14	9.38	7.91	5.95
Kerosene	11.08	9.98	9.15	7.86	11.39	10.09	8.45
Liquefied Petroleum Gas	8.51	8.67	7.77	6.07	11.00	9.34	7.11
Natural Gas	4.82	5.74	5.73	5.46	7.04	6.83	6.67
Steam Coal	1.42	1.56	1.52	1.50	1.81	1.74	1.76
Electricity	23.82	24.75	24.82	24.37	26.45	26.16	25.88
Commercial	10.47	10.50	10.44	10.07	11.54	11.24	10.98
Primary Energy	4.30	5.22	5.09	4.65	6.58	6.24	5.89
Petroleum Products	5.71	6.77	5.86	4.27	8.96	7.43	5.39
Distillate Fuel	5.84	6.29	5.33	3.71	8.08	6.55	4.53
Residual Fuel	2.83	3.72	3.07	1.84	5.40	4.20	2.61
Kerosene	7.37	7.33	6.50	5.21	8.74	7.44	5.80
Other Petroleum ¹	8.69	10.28	9.25	7.41	12.84	11.14	8.81
Natural Gas	4.18	5.12	5.11	4.84	6.42	6.21	6.05
Steam Coal	1.42	1.56	1.52	1.50	1.81	1.74	1.76
Electricity	21.12	19.24	19.33	19.08	19.13	18.95	18.90
Industrial	5.00	5.39	5.20	4.67	6.63	6.21	5.63
Primary Energy	3.48	4.13	3.89	3.33	5.26	4.75	4.09
Petroleum Products	5.39	6.34	5.66	4.37	8.12	6.89	5.19
Distillate Fuel	6.33	6.64	5.70	4.12	8.43	6.92	4.94
Liquefied Petroleum Gas	7.55	8.78	7.90	6.23	11.11	9.47	7.26
Motor Gasoline ²	10.26	11.66	10.57	8.68	13.94	12.24	9.91
Residual Fuel	3.58	3.87	3.35	2.27	5.55	4.48	3.04
Other Petroleum ³	4.03	5.11	4.72	3.86	6.53	5.67	4.45
Natural Gas ⁴	3.21	4.01	4.00	3.73	5.31	5.11	4.95
Metallurgical Coal	1.93	2.08	2.07	2.06	2.21	2.21	2.19
Steam Coal	-	1.07	1.05	1.03	1.19	1.17	1.16
Electricity	13.96	12.95	13.06	12.88	13.91	13.79	13.78
Transportation	9.36	10.52	9.47	7.69	12.52	10.91	8.72
Primary Energy	9.36	10.52	9.47	7.69	12.52	10.91	8.72
Petroleum Products	9.36	10.52	9.48	7.69	12.56	10.94	8.75
Distillate Fuel ⁵	9.17	10.23	9.32	7.77	12.02	10.54	8.59
Jet Fuel ⁶	6.02	6.40	5.43	3.77	8.23	6.69	4.61
Motor Gasoline ²	9.94	11.45	10.32	8.39	13.73	11.99	9.62
Residual Fuel	3.73	3.88	3.34	2.32	5.23	4.25	2.91
Other Petroleum ⁷	16.05	15.69	15.25	14.31	17.15	16.21	14.89
Natural Gas	3.78	8.80	7.67	5.74	11.08	9.34	6.97
Electricity	19.28	18.56	18.62	18.32	19.28	19.03	18.88
Total End-Use Energy	8.04	8.73	8.28	7.33	10.33	9.52	8.41
Primary Energy	6.15	7.01	6.49	5.47	8.61	7.72	6.50
Electricity	19.28	18.56	18.62	18.32	19.28	19.03	18.88

- See footnotes at end of table.

Table 122. End-Use Energy Prices by World Oil Price Case
North Central Region (Continued)
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Electric Utilities							
Fossil Fuel Average	0.94	0.98	1.04	1.01	1.52	1.53	1.53
Petroleum Products	4.74	6.18	5.23	3.63	7.93	6.49	4.48
Distillate Fuel	5.69	6.33	5.34	3.71	8.12	6.56	4.53
Residual Fuel	4.54	4.52	4.01	2.93	6.21	5.12	3.68
Natural Gas	2.53	3.39	3.32	3.03	4.82	4.74	4.51
Steam Coal	.93	.88	.95	.93	1.00	1.05	1.08
Average Price to All Users ⁸							
Petroleum Products	8.17	9.25	8.30	6.62	11.24	9.72	7.64
Distillate Fuel ⁵	7.92	8.62	7.67	6.02	10.48	8.92	6.86
Jet Fuel ⁶	6.02	6.40	5.43	3.77	8.23	6.69	4.61
Kerosene	10.90	9.92	9.10	7.81	11.34	10.05	8.40
Liquefied Petroleum Gas	7.99	8.73	7.84	6.15	11.08	9.43	7.21
Motor Gasoline ²	9.95	11.46	10.33	8.40	13.74	12.00	9.63
Residual Fuel	3.31	3.89	3.33	2.23	5.64	4.48	3.01
Other Petroleum Products ³	4.86	5.93	5.54	4.65	7.47	6.60	5.36
Natural Gas	4.09	4.83	4.81	4.53	6.00	5.76	5.52
Coal	-	.92	.97	.96	1.04	1.08	1.11
Electricity	19.28	18.56	18.62	18.32	19.28	19.03	18.88

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

**Table 123. End-Use Energy Prices by World Oil Price Case
West Region
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential	11.35	12.47	12.43	12.02	13.85	13.58	13.10
Primary Energy	6.18	7.07	7.02	6.69	8.37	8.12	7.90
Petroleum Products	11.88	13.12	12.17	10.41	15.12	13.43	11.13
Distillate Fuel	7.84	8.29	7.38	5.80	10.08	8.60	6.62
Kerosene	17.31	15.95	15.12	13.83	17.36	16.06	14.42
Liquefied Petroleum Gas	12.27	13.75	12.81	11.06	16.08	14.38	12.09
Natural Gas	5.87	6.85	6.84	6.56	8.20	7.99	7.82
Steam Coal	1.41	1.56	1.52	1.49	1.79	1.72	1.73
Electricity	21.73	21.12	21.11	20.59	21.13	20.90	20.12
Commercial	13.77	13.89	13.80	13.33	14.62	14.33	13.78
Primary Energy	5.38	6.17	6.04	5.58	7.57	7.22	6.84
Petroleum Products	6.69	7.68	6.76	5.17	9.91	8.38	6.33
Distillate Fuel	5.59	6.10	5.19	3.64	7.88	6.41	4.46
Residual Fuel	3.82	4.61	3.80	2.44	6.29	4.93	3.21
Kerosene	6.88	7.33	6.50	5.21	8.74	7.44	5.80
Other Petroleum ¹	10.01	11.67	10.71	8.97	13.97	12.39	10.19
Natural Gas	5.13	5.93	5.92	5.64	7.28	7.07	6.90
Steam Coal	1.41	1.56	1.52	1.49	1.79	1.72	1.73
Electricity	21.94	21.12	21.09	20.62	20.75	20.55	19.89
Industrial	7.30	8.01	7.73	6.97	9.53	8.97	8.06
Primary Energy	4.97	5.97	5.64	4.88	7.42	6.74	5.83
Petroleum Products	6.10	7.62	6.89	5.53	9.31	8.04	6.27
Distillate Fuel	5.82	6.43	5.51	3.92	8.22	6.73	4.73
Liquefied Petroleum Gas	10.26	11.30	10.38	8.65	13.64	11.95	9.69
Motor Gasoline ²	9.85	11.76	10.82	9.07	14.04	12.49	10.30
Residual Fuel	3.58	4.37	3.54	2.14	6.05	4.67	2.90
Other Petroleum ³	5.61	7.43	6.85	5.77	8.86	7.79	6.33
Natural Gas ⁴	3.93	4.80	4.79	4.51	6.15	5.94	5.77
Metallurgical Coal	.00	.00	.00	.00	.00	.00	.00
Steam Coal	-	1.75	1.71	1.68	2.09	2.00	2.04
Electricity	18.63	18.47	18.44	17.98	18.71	18.47	17.77
Transportation	8.39	9.63	8.77	7.19	11.49	10.10	8.16
Primary Energy	8.39	9.63	8.76	7.18	11.48	10.08	8.13
Petroleum Products	8.39	9.63	8.76	7.18	11.49	10.08	8.14
Distillate Fuel ⁵	9.34	10.80	9.93	8.41	12.59	11.15	9.23
Jet Fuel ⁶	6.16	6.41	5.45	3.80	8.24	6.70	4.64
Motor Gasoline ²	9.83	11.73	10.79	9.04	14.01	12.46	10.27
Residual Fuel	3.73	4.12	3.58	2.58	5.46	4.48	3.17
Other Petroleum ⁷	15.49	15.49	14.89	13.79	16.99	15.89	14.40
Natural Gas	4.86	8.93	7.99	6.24	11.21	9.66	7.47
Electricity	13.01	12.48	12.45	11.96	12.55	12.30	11.57
Total End-Use Energy	9.12	10.05	9.51	8.37	11.65	10.70	9.28
Primary Energy	7.17	8.28	7.67	6.47	10.03	8.98	7.50
Electricity	20.91	20.34	20.31	19.82	20.06	19.84	19.10

- See footnotes at end of table.

**Table 123. End-Use Energy Prices by World Oil Price Case
West Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Electric Utilities							
Fossil Fuel Average	2.62	3.02	3.03	2.78	3.84	3.59	3.11
Petroleum Products	4.48	5.42	4.69	3.45	7.15	5.86	4.29
Distillate Fuel	5.54	6.44	5.53	3.99	8.23	6.75	4.80
Residual Fuel	4.31	5.42	4.68	3.41	7.12	5.84	4.18
Natural Gas	3.05	3.69	3.66	3.37	5.03	4.81	4.24
Steam Coal	1.64	1.57	1.70	1.68	1.75	1.88	1.92
Average Price to All Users ^a							
Petroleum Products	7.89	9.20	8.34	6.77	11.04	9.65	7.72
Distillate Fuel ⁵	8.33	9.81	8.91	7.26	11.70	10.23	8.08
Jet Fuel ⁶	6.16	6.41	5.45	3.80	8.24	6.70	4.64
Kerosene	16.82	15.80	14.98	13.69	17.24	15.94	14.30
Liquefied Petroleum Gas	10.82	11.70	10.76	9.01	13.89	12.19	9.91
Motor Gasoline ²	9.83	11.73	10.79	9.04	14.01	12.46	10.27
Residual Fuel	3.86	4.40	3.82	2.74	5.83	4.79	3.35
Other Petroleum Products ³	6.20	7.98	7.39	6.29	9.49	8.41	6.94
Natural Gas	4.47	5.18	5.13	4.82	6.60	6.31	6.00
Coal	-	1.60	1.70	1.68	1.79	1.89	1.93
Electricity	20.91	20.34	20.31	19.82	20.06	19.84	19.10

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 124. End-Use Energy Prices by World Oil Price Case
Northwest Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential	11.06	14.29	14.24	13.74	15.53	15.36	14.86
Primary Energy	6.28	6.79	6.52	5.89	7.71	7.21	6.55
Petroleum Products	8.50	8.76	7.89	6.34	10.45	8.99	7.03
Distillate Fuel	7.79	8.29	7.44	5.93	10.08	8.66	6.75
Kerosene	10.74	11.32	10.50	9.21	12.73	11.44	9.80
Liquefied Petroleum Gas	13.32	13.36	12.42	10.67	15.69	13.99	11.71
Natural Gas	5.18	6.03	6.03	5.83	6.75	6.63	6.53
Steam Coal	2.11	2.33	2.30	2.27	2.38	2.36	2.39
Electricity	14.48	18.63	18.75	18.41	19.32	19.39	19.10
Commercial	8.99	10.51	10.47	10.07	11.52	11.41	11.04
Primary Energy	4.34	5.30	5.10	4.60	6.39	6.01	5.56
Petroleum Products	5.70	6.76	5.91	4.42	8.89	7.46	5.54
Distillate Fuel	5.77	6.32	5.45	3.94	8.11	6.67	4.76
Residual Fuel	3.11	4.22	3.51	2.23	5.90	4.64	3.00
Kerosene	6.44	7.94	7.11	5.82	9.35	8.05	6.41
Other Petroleum ¹	10.28	11.62	10.70	8.99	13.90	12.37	10.23
Natural Gas	3.96	4.98	4.97	4.77	5.93	5.78	5.66
Steam Coal	2.11	2.33	2.30	2.27	2.38	2.36	2.39
Electricity	14.04	15.92	16.06	15.77	16.55	16.75	16.50
Industrial	5.00	5.91	5.74	5.14	7.23	6.87	6.24
Primary Energy	3.58	4.47	4.20	3.55	5.71	5.15	4.38
Petroleum Products	4.92	6.00	5.31	4.00	7.70	6.48	4.78
Distillate Fuel	5.65	6.48	5.56	3.99	8.27	6.78	4.80
Liquefied Petroleum Gas	10.33	11.47	10.38	8.50	13.80	11.95	9.54
Motor Gasoline ²	10.09	11.64	10.71	8.99	13.91	12.38	10.22
Residual Fuel	3.03	4.23	3.44	2.09	5.91	4.57	2.86
Other Petroleum ³	4.07	5.20	4.71	3.75	6.61	5.65	4.34
Natural Gas ⁴	2.38	3.50	3.48	3.27	4.47	4.30	4.17
Metallurgical Coal	.00	.00	.00	.00	.00	.00	.00
Steam Coal	-	1.43	1.42	1.39	1.60	1.57	1.58
Electricity	9.02	10.54	10.66	10.39	11.41	11.49	11.33
Transportation	8.31	9.18	8.27	6.67	10.88	9.43	7.46
Primary Energy	8.31	9.18	8.27	6.67	10.88	9.42	7.45
Petroleum Products	8.31	9.18	8.27	6.67	10.87	9.42	7.46
Distillate Fuel ⁵	9.20	10.51	9.62	8.08	12.30	10.83	8.90
Jet Fuel ⁶	6.26	6.51	5.53	3.87	8.34	6.78	4.71
Motor Gasoline ²	10.08	11.54	10.50	8.68	13.81	12.17	9.91
Residual Fuel	2.62	3.73	3.19	2.18	5.07	4.10	2.77
Other Petroleum ⁷	15.17	15.24	14.66	13.57	16.76	15.67	14.19
Natural Gas	4.07	8.72	7.68	5.86	11.00	9.35	7.09
Electricity	12.31	14.84	14.94	14.63	15.50	15.56	15.29
Total End-Use Energy	7.72	8.85	8.37	7.34	10.30	9.49	8.25
Primary Energy	6.46	7.25	6.64	5.48	8.85	7.81	6.37
Electricity	12.31	14.84	14.94	14.63	15.48	15.54	15.27

- See footnotes at end of table.

**Table 124. End-Use Energy Prices by World Oil Price Case
Northwest Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Electric Utilities							
Fossil Fuel Average	1.57	2.57	2.67	2.20	2.87	2.68	2.50
Petroleum Products	4.81	5.80	5.10	3.74	7.59	6.32	4.55
Distillate Fuel	4.82	5.80	5.10	3.74	7.59	6.32	4.55
Residual Fuel	4.54	4.24	3.48	2.21	5.75	4.50	2.89
Natural Gas	1.41	2.59	2.60	2.50	4.15	3.80	3.79
Steam Coal	1.40	1.23	1.43	1.41	1.43	1.61	1.64
Average Price to All Users ^a							
Petroleum Products	7.57	8.46	7.56	6.04	10.23	8.80	6.88
Distillate Fuel ⁵	8.03	8.92	7.94	6.57	10.88	9.34	7.41
Jet Fuel ⁶	6.26	6.51	5.53	3.87	8.34	6.78	4.71
Kerosene	7.17	9.21	8.38	7.09	10.76	9.47	7.83
Liquefied Petroleum Gas	11.15	11.77	10.69	8.80	13.99	12.14	9.72
Motor Gasoline ²	10.08	11.54	10.50	8.69	13.82	12.18	9.92
Residual Fuel	2.71	3.84	3.26	2.16	5.22	4.19	2.79
Other Petroleum Products ³	4.92	6.07	5.57	4.59	7.61	6.64	5.30
Natural Gas	3.08	3.91	3.90	3.67	5.08	4.84	4.68
Coal	-	1.34	1.49	1.47	1.47	1.62	1.65
Electricity	12.31	14.84	14.94	14.63	15.48	15.54	15.27

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

Table 125. End-Use Energy Prices by World Oil Price Case
United States
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Residential	12.39	13.54	13.43	12.87	15.41	15.02	14.42
Primary Energy	6.48	7.20	7.04	6.52	8.49	8.11	7.65
Petroleum Products	9.04	9.56	8.69	7.10	11.74	10.16	8.04
Distillate Fuel	8.08	8.56	7.76	6.30	10.35	8.98	7.13
Kerosene	9.14	9.80	8.98	7.69	11.14	9.85	8.21
Liquefied Petroleum Gas	11.20	11.27	10.34	8.61	13.64	11.95	9.69
Natural Gas	5.82	6.73	6.71	6.44	8.04	7.83	7.64
Steam Coal	1.99	2.23	2.27	2.22	2.56	2.60	2.59
Electricity	23.34	24.18	24.18	23.66	24.85	24.50	23.86
Commercial	12.40	13.13	12.99	12.44	14.30	13.88	13.25
Primary Energy	5.06	6.01	5.80	5.24	7.44	6.99	6.46
Petroleum Products	6.04	7.11	6.17	4.56	9.23	7.68	5.61
Distillate Fuel	5.94	6.53	5.59	4.00	8.33	6.83	4.85
Residual Fuel	3.57	4.69	3.87	2.50	6.37	5.00	3.27
Kerosene	6.96	7.46	6.64	5.35	8.88	7.58	5.94
Other Petroleum ¹	9.69	11.15	10.09	8.24	13.53	11.82	9.49
Natural Gas	4.84	5.79	5.78	5.51	7.12	6.91	6.74
Steam Coal	1.96	2.20	2.23	2.19	2.52	2.56	2.56
Electricity	22.04	21.78	21.76	21.27	21.54	21.21	20.62
Industrial	5.73	6.54	6.29	5.59	8.07	7.51	6.67
Primary Energy	4.14	4.91	4.61	3.88	6.35	5.70	4.80
Petroleum Products	6.01	6.97	6.17	4.69	8.76	7.37	5.45
Distillate Fuel	5.94	6.49	5.53	3.92	8.27	6.75	4.73
Liquefied Petroleum Gas	5.95	7.12	6.20	4.44	9.45	7.77	5.49
Motor Gasoline ²	9.87	11.48	10.37	8.48	13.76	12.05	9.71
Residual Fuel	3.13	4.36	3.57	2.23	6.04	4.70	2.99
Other Petroleum ³	6.14	7.04	6.40	5.21	8.53	7.37	5.77
Natural Gas ⁴	2.95	3.85	3.84	3.58	5.15	4.95	4.80
Metallurgical Coal	1.82	2.08	2.11	2.08	2.42	2.49	2.48
Steam Coal	1.48	1.67	1.67	1.65	1.94	1.94	1.93
Electricity	14.74	15.16	15.21	14.85	15.98	15.80	15.44
Transportation	8.92	10.15	9.14	7.41	12.08	10.52	8.40
Primary Energy	8.91	10.14	9.13	7.40	12.06	10.50	8.38
Petroleum Products	8.91	10.14	9.13	7.40	12.06	10.50	8.38
Distillate Fuel ⁵	8.98	10.24	9.32	7.75	12.02	10.54	8.56
Jet Fuel ⁶	6.00	6.30	5.31	3.65	8.13	6.56	4.49
Motor Gasoline ²	9.86	11.52	10.41	8.52	13.79	12.08	9.74
Residual Fuel	3.22	3.99	3.43	2.41	5.33	4.34	3.00
Other Petroleum ⁷	16.49	16.16	15.59	14.51	17.63	16.54	15.08
Natural Gas	4.50	8.98	7.96	6.13	11.25	9.61	7.34
Electricity	23.74	22.41	22.02	20.73	19.70	18.95	17.46
Total End-Use Energy	8.68	9.63	9.12	8.04	11.28	10.36	9.03
Primary Energy	6.58	7.55	6.97	5.83	9.26	8.26	6.86
Electricity	19.94	20.20	20.18	19.70	20.50	20.19	19.62

- See footnotes at end of table.

**Table 125. End-Use Energy Prices by World Oil Price Case
United States (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil Price	Reference Case	Low Oil Price	High Oil Price	Reference Case	Low Oil Price
Electric Utilities							
Fossil Fuel Average	1.71	2.07	2.10	1.94	2.73	2.64	2.50
Petroleum Products	3.61	4.84	4.05	2.66	6.76	5.36	3.65
Distillate Fuel	5.57	6.04	5.16	3.61	7.87	6.40	4.47
Residual Fuel	3.46	4.69	3.91	2.51	6.63	5.24	3.45
Natural Gas	2.38	3.19	3.18	2.83	4.68	4.47	4.15
Steam Coal	1.45	1.57	1.64	1.63	1.81	1.89	1.92
Average Price to All Users ^a							
Petroleum Products	7.93	9.08	8.12	6.37	10.97	9.46	7.25
Distillate Fuel ⁵	8.03	9.05	8.11	6.43	10.97	9.45	7.21
Jet Fuel ⁶	6.00	6.30	5.31	3.65	8.13	6.56	4.49
Kerosene	8.80	9.44	8.61	7.32	10.59	9.30	7.65
Liquefied Petroleum Gas	7.02	7.25	6.89	5.07	10.03	8.31	5.96
Motor Gasoline ²	9.86	11.52	10.41	8.52	13.79	12.08	9.74
Residual Fuel	3.33	4.36	3.67	2.43	6.00	4.79	3.24
Other Petroleum Products ³	6.62	7.50	6.85	5.66	9.04	7.87	6.26
Natural Gas	3.90	4.65	4.63	4.40	5.95	5.73	5.58
Coal	1.48	1.61	1.67	1.66	1.85	1.92	1.94
Electricity	19.94	20.20	20.18	19.70	20.50	20.19	19.62

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on distillate fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil Price -- HWOP93.D0920923, Reference Case -- AEO93B.D0918921, Low Oil Price -- LWOP93.D0920923.

End-Use Energy Prices by Economic Growth Case

**Table 126. End-Use Energy Prices by Economic Growth Case
New England Region
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential	12.01	14.34	13.99	13.52	16.43	15.92	15.26
Primary Energy	8.31	8.68	8.40	8.11	10.02	9.68	9.35
Petroleum Products	8.64	8.55	8.30	8.03	9.98	9.72	9.46
Distillate Fuel	8.15	8.03	7.80	7.55	9.25	9.02	8.77
Kerosene	9.44	9.38	9.38	9.38	10.32	10.32	10.32
Liquefied Petroleum Gas	13.96	13.21	12.77	12.34	14.76	14.34	13.94
Natural Gas	7.92	8.87	8.56	8.26	10.12	9.72	9.33
Steam Coal	2.45	3.04	3.05	2.87	3.81	3.59	3.39
Electricity	24.43	29.54	29.27	28.46	28.85	28.34	27.30
Commercial	12.74	14.97	14.72	14.33	15.79	15.28	14.70
Primary Energy	5.88	6.68	6.44	6.21	8.05	7.76	7.46
Petroleum Products	5.53	5.91	5.75	5.58	7.22	7.06	6.89
Distillate Fuel	6.50	6.24	6.10	5.97	7.45	7.32	7.18
Residual Fuel	3.23	3.97	3.79	3.60	5.07	4.92	4.75
Kerosene	7.41	7.14	7.14	7.14	8.08	8.08	8.08
Other Petroleum ¹	11.56	12.41	12.05	11.69	13.82	13.54	13.25
Natural Gas	6.36	7.50	7.18	6.89	8.75	8.35	7.95
Steam Coal	2.45	3.04	3.05	2.87	3.81	3.59	3.39
Electricity	24.88	29.10	28.83	28.14	27.29	26.48	25.42
Industrial	8.08	9.61	9.30	8.94	11.07	10.61	10.06
Primary Energy	4.92	5.74	5.53	5.33	6.93	6.71	6.49
Petroleum Products	5.22	6.02	5.85	5.67	7.22	7.07	6.71
Distillate Fuel	6.57	6.13	5.98	5.83	7.34	7.20	7.05
Liquefied Petroleum Gas	12.58	13.53	12.88	12.25	15.08	14.45	13.83
Motor Gasoline ²	10.40	11.45	11.33	11.2	13.12	13.00	12.90
Residual Fuel	3.19	3.91	3.75	3.55	5.02	4.88	4.73
Other Petroleum ³	6.31	6.68	6.56	6.44	7.64	7.53	7.42
Natural Gas ⁴	4.45	5.57	5.26	4.96	6.82	6.42	6.03
Metallurgical Coal	.00	.00	.00	.00	.00	.00	.00
Steam Coal	1.81	2.26	2.18	2.13	2.75	2.63	2.47
Electricity	17.93	20.73	20.50	20.05	21.28	20.73	19.92
Transportation	10.01	10.80	10.71	10.60	12.28	12.20	12.12
Primary Energy	9.97	10.74	10.65	10.54	12.20	12.13	12.04
Petroleum Products	9.97	10.75	10.65	10.55	12.23	12.16	12.08
Distillate Fuel ⁵	9.76	10.44	10.27	10.09	11.66	11.49	11.31
Jet Fuel ⁶	6.25	5.75	5.58	5.42	7.00	6.84	6.67
Motor Gasoline ²	10.38	11.43	11.32	11.19	13.09	12.99	12.87
Residual Fuel	2.44	3.29	3.08	2.88	4.19	3.98	3.79
Other Petroleum ⁷	17.10	16.46	16.28	16.09	17.42	17.25	17.06
Natural Gas	3.89	8.43	8.32	8.19	10.10	9.99	9.87
Electricity	18.49	22.65	22.46	21.86	21.88	21.34	20.44
Total End-Use Energy	10.65	12.12	11.92	11.67	13.48	13.22	12.88
Primary Energy	8.32	9.05	8.86	8.68	10.51	10.31	10.10
Electricity	22.91	27.03	26.85	26.25	26.11	25.57	24.69

- See footnotes at end of table.

Table 126. End-Use Energy Prices by Economic Growth Case
New England Region (Continued)
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Electric Utilities							
Fossil Fuel Average	2.59	3.25	3.17	3.04	4.51	4.38	4.16
Petroleum Products	3.08	3.73	3.64	3.57	5.17	5.09	5.03
Distillate Fuel	5.83	5.42	5.19	4.94	6.64	6.41	6.16
Residual Fuel	3.02	3.72	3.63	3.55	5.14	5.07	5.01
Natural Gas	2.53	3.62	3.53	3.24	5.05	4.70	4.30
Steam Coal	1.76	2.23	2.14	2.08	2.78	2.71	2.54
Average Price to All Users ^a							
Petroleum Products	7.83	8.52	8.38	8.28	9.93	9.80	9.77
Distillate Fuel ^b	8.24	8.42	8.20	7.97	9.81	9.60	9.35
Jet Fuel ^c	6.25	5.75	5.58	5.42	7.00	6.84	6.67
Kerosene	9.02	8.57	8.57	8.57	8.08	8.08	8.08
Liquefied Petroleum Gas	13.49	13.35	12.81	12.30	14.90	14.39	13.89
Motor Gasoline ^d	10.38	11.43	11.32	11.19	13.09	12.99	12.87
Residual Fuel	3.07	3.77	3.66	3.55	5.10	5.01	4.91
Other Petroleum Products ^e	7.28	7.54	7.42	7.29	8.56	8.42	8.29
Natural Gas	6.14	7.22	6.91	6.62	8.46	8.10	7.73
Coal	1.78	2.24	2.16	2.09	2.79	2.72	2.55
Electricity	22.91	27.03	26.85	26.25	26.11	25.57	24.69

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA093.D0916924.

Table 127. End-Use Energy Prices by Economic Growth Case
New York/New Jersey Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential	12.38	13.22	12.82	12.39	15.43	14.97	14.35
Primary Energy	7.70	8.49	8.17	7.86	9.72	9.34	8.96
Petroleum Products	8.80	8.94	8.60	8.26	10.32	9.97	9.64
Distillate Fuel	8.49	8.54	8.21	7.89	9.76	9.43	9.11
Kerosene	10.06	10.06	10.06	10.06	11.00	11.00	11.00
Liquefied Petroleum Gas	12.03	12.80	12.31	11.83	14.34	13.88	13.42
Natural Gas	7.16	8.35	8.04	7.74	9.59	9.20	8.80
Steam Coal	2.16	2.22	2.22	2.21	2.41	2.39	2.34
Electricity	31.34	29.03	28.62	27.92	29.58	29.30	28.39
Commercial	13.45	14.09	13.77	13.40	15.47	15.13	14.56
Primary Energy	5.42	6.36	6.12	5.88	7.70	7.40	7.09
Petroleum Products	5.42	5.76	5.60	5.44	7.13	6.97	6.80
Distillate Fuel	6.36	6.15	5.99	5.81	7.37	7.21	7.03
Residual Fuel	3.93	4.22	4.10	3.99	5.32	5.23	5.13
Kerosene	7.12	6.55	6.55	6.55	7.49	7.49	7.49
Other Petroleum ¹	10.24	11.41	11.15	10.89	12.91	12.71	12.51
Natural Gas	5.47	6.84	6.53	6.23	8.09	7.69	7.29
Steam Coal	2.16	2.22	2.22	2.21	2.41	2.39	2.34
Electricity	29.68	28.93	28.47	27.81	28.44	28.06	27.03
Industrial	6.92	7.69	7.38	7.10	9.30	8.94	8.51
Primary Energy	5.31	5.95	5.72	5.50	7.08	6.82	6.55
Petroleum Products	6.61	7.02	6.81	6.59	8.10	7.91	7.71
Distillate Fuel	6.38	5.97	5.78	5.59	7.19	7.00	6.81
Liquefied Petroleum Gas	10.74	12.80	12.24	11.69	14.34	13.81	13.28
Motor Gasoline ²	9.77	10.86	10.78	10.69	12.52	12.45	12.37
Residual Fuel	3.82	4.16	4.04	3.93	5.27	5.17	5.08
Other Petroleum ³	6.75	6.96	6.75	6.55	7.91	7.72	7.54
Natural Gas ⁴	4.45	5.71	5.40	5.10	6.95	6.56	6.16
Metallurgical Coal	-	2.42	2.37	2.33	2.88	2.79	2.62
Steam Coal	-	1.73	1.71	1.70	2.06	2.01	1.93
Electricity	14.20	15.16	14.82	14.48	17.39	17.11	16.53
Transportation	8.95	9.60	9.54	9.48	11.11	11.07	11.05
Primary Energy	8.85	9.50	9.44	9.38	10.89	10.85	10.82
Petroleum Products	8.85	9.50	9.44	9.38	10.90	10.87	10.84
Distillate Fuel ⁵	9.54	10.30	10.09	9.87	11.52	11.31	11.09
Jet Fuel ⁶	5.94	5.41	5.29	5.18	6.67	6.55	6.43
Motor Gasoline ²	9.77	10.86	10.78	10.69	12.52	12.45	12.37
Residual Fuel	3.07	3.56	3.45	3.36	4.45	4.36	4.28
Other Petroleum ⁷	18.20	17.48	17.13	16.78	18.44	18.10	17.74
Natural Gas	4.72	8.14	8.05	7.97	9.80	9.73	9.65
Electricity	27.61	26.74	26.44	25.97	27.36	27.20	26.48
Total End-Use Energy	10.20	10.83	10.63	10.42	12.32	12.14	11.86
Primary Energy	7.45	8.18	8.00	7.82	9.53	9.32	9.12
Electricity	26.50	25.59	25.29	24.83	25.89	25.73	25.03

- See footnotes at end of table.

**Table 127. End-Use Energy Prices by Economic Growth Case
New York/New Jersey Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Electric Utilities							
Fossil Fuel Average	2.70	3.33	3.16	2.97	4.37	4.33	4.13
Petroleum Products	3.89	4.22	4.13	4.02	5.52	5.45	5.35
Distillate Fuel	6.05	5.61	5.45	5.29	6.83	6.67	6.50
Residual Fuel	3.80	4.20	4.11	4.01	5.49	5.42	5.33
Natural Gas	2.43	3.83	3.52	3.23	5.05	4.65	4.26
Steam Coal	1.63	1.89	1.86	1.82	2.28	2.16	2.06
Average Price to All Users ⁸							
Petroleum Products	7.67	8.39	8.27	8.18	9.57	9.42	9.32
Distillate Fuel ⁵	8.23	8.50	8.24	7.97	9.85	9.57	9.31
Jet Fuel ⁶	5.94	5.41	5.29	5.18	6.67	6.55	6.43
Kerosene	9.67	9.18	9.18	9.18	7.49	7.49	7.49
Liquefied Petroleum Gas	11.54	12.87	12.31	11.75	14.40	13.87	13.34
Motor Gasoline ²	9.77	10.86	10.78	10.69	12.52	12.45	12.37
Residual Fuel	3.72	4.07	3.97	3.86	5.27	5.20	5.11
Other Petroleum Products ³	7.20	7.38	7.17	6.96	8.36	8.17	7.97
Natural Gas	5.35	6.54	6.24	5.97	7.57	7.13	6.82
Coal	1.68	1.92	1.89	1.86	2.29	2.19	2.09
Electricity	26.50	25.59	25.29	24.83	25.89	25.73	25.03

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

Table 128. End-Use Energy Prices by Economic Growth Case
Mid-Atlantic Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential	12.86	14.53	14.19	13.78	15.94	15.47	14.88
Primary Energy	7.08	7.71	7.41	7.13	8.88	8.51	8.15
Petroleum Products	8.65	8.63	8.34	8.05	10.08	9.78	9.50
Distillate Fuel	8.02	7.97	7.67	7.37	9.19	8.89	8.59
Kerosene	9.26	9.06	9.06	9.06	10.00	10.00	10.00
Liquefied Petroleum Gas	13.31	12.75	12.43	12.14	14.30	14.01	13.73
Natural Gas	6.63	7.63	7.32	7.02	8.87	8.47	8.08
Steam Coal	2.05	2.42	2.43	2.31	2.92	2.75	2.66
Electricity	24.07	26.11	25.89	25.41	25.26	24.89	24.25
Commercial	13.26	14.07	13.83	13.53	14.32	13.97	13.42
Primary Energy	5.60	6.40	6.14	5.89	7.72	7.38	7.04
Petroleum Products	6.20	6.22	6.08	5.94	7.63	7.49	7.34
Distillate Fuel	5.86	5.63	5.51	5.38	6.84	6.73	6.60
Residual Fuel	3.53	4.13	3.94	3.76	5.24	5.07	4.91
Kerosene	6.48	6.53	6.53	6.53	7.47	7.47	7.47
Other Petroleum ¹	10.37	10.78	10.60	10.42	12.40	12.26	12.10
Natural Gas	5.72	6.70	6.39	6.09	7.94	7.54	7.15
Steam Coal	2.05	2.42	2.43	2.31	2.92	2.75	2.66
Electricity	22.52	22.93	22.72	22.36	21.06	20.71	19.92
Industrial	5.90	6.85	6.58	6.31	8.01	7.62	7.17
Primary Energy	3.93	4.62	4.43	4.24	5.69	5.43	5.16
Petroleum Products	6.58	6.95	6.74	6.52	8.03	7.84	7.64
Distillate Fuel	5.86	5.75	5.66	5.56	6.97	6.88	6.78
Liquefied Petroleum Gas	11.38	10.91	10.52	10.14	12.45	12.09	11.73
Motor Gasoline ²	10.08	10.64	10.55	10.46	12.30	12.23	12.14
Residual Fuel	3.47	3.94	3.80	3.67	5.05	4.93	4.82
Other Petroleum ³	6.52	6.88	6.66	6.42	7.81	7.62	7.40
Natural Gas ⁴	3.90	5.10	4.79	4.49	6.33	5.94	5.55
Metallurgical Coal	1.72	2.07	2.04	1.97	2.53	2.40	2.27
Steam Coal	-	1.76	1.73	1.71	2.17	2.07	1.98
Electricity	15.69	16.65	16.44	16.20	16.37	16.04	15.46
Transportation	9.32	9.67	9.61	9.54	11.07	11.03	10.99
Primary Energy	9.32	9.67	9.61	9.54	11.07	11.03	10.99
Petroleum Products	9.32	9.67	9.61	9.54	11.07	11.03	10.99
Distillate Fuel ⁵	9.13	9.71	9.59	9.45	10.92	10.81	10.67
Jet Fuel ⁶	5.86	5.43	5.28	5.14	6.68	6.53	6.39
Motor Gasoline ²	10.06	10.62	10.54	10.46	12.29	12.21	12.14
Residual Fuel	2.85	3.38	3.23	3.07	4.27	4.14	3.98
Other Petroleum ⁷	17.94	17.27	16.93	16.58	18.23	17.89	17.55
Natural Gas	4.90	7.87	7.79	7.71	9.54	9.46	9.39
Electricity	20.40	21.47	21.33	21.06	20.43	20.17	19.60
Total End-Use Energy	9.12	9.95	9.77	9.57	11.10	10.86	10.56
Primary Energy	6.76	7.37	7.20	7.03	8.77	8.55	8.32
Electricity	20.60	21.67	21.53	21.26	20.63	20.37	19.81

- See footnotes at end of table.

**Table 128. End-Use Energy Prices by Economic Growth Case
Mid-Atlantic Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Electric Utilities							
Fossil Fuel Average	1.54	1.96	1.90	1.84	2.39	2.41	2.22
Petroleum Products	3.60	4.14	4.07	4.04	5.39	5.31	5.25
Distillate Fuel	5.19	5.06	4.97	4.86	6.28	6.18	6.07
Residual Fuel	3.42	3.98	3.91	3.83	5.16	5.11	5.06
Natural Gas	2.67	4.21	3.99	3.72	5.66	5.29	4.79
Steam Coal	1.41	1.70	1.69	1.68	2.00	1.93	1.87
Average Price to All Users ⁸							
Petroleum Products	8.41	8.66	8.58	8.53	10.15	9.99	9.86
Distillate Fuel ⁵	8.08	8.36	8.20	8.02	9.77	9.59	9.38
Jet Fuel ⁶	5.86	5.43	5.28	5.14	6.68	6.53	6.39
Kerosene	9.00	8.76	8.76	8.76	9.34	9.34	9.34
Liquefied Petroleum Gas	12.07	11.45	11.09	10.74	12.92	12.58	12.26
Motor Gasoline ²	10.06	10.62	10.54	10.46	12.29	12.21	12.14
Residual Fuel	3.28	3.85	3.73	3.58	4.85	4.82	4.75
Other Petroleum Products ³	6.99	7.32	7.09	6.84	8.30	8.08	7.85
Natural Gas	5.24	6.24	5.97	5.70	7.32	6.89	6.65
Coal	-	1.76	1.74	1.72	2.07	2.00	1.93
Electricity	20.60	21.67	21.53	21.26	20.63	20.37	19.81

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA093.D0916924.

Table 129. End-Use Energy Prices by Economic Growth Case
South Atlantic Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential	16.66	16.35	16.02	15.64	17.60	17.21	16.90
Primary Energy	7.25	8.06	7.74	7.42	9.21	8.83	8.45
Petroleum Products	10.35	10.65	10.24	9.81	12.44	12.01	11.57
Distillate Fuel	7.86	7.81	7.48	7.13	9.02	8.70	8.35
Kerosene	8.88	8.75	8.75	8.75	9.69	9.69	9.69
Liquefied Petroleum Gas	11.85	11.96	11.45	10.93	13.51	13.02	12.52
Natural Gas	6.16	7.26	6.96	6.67	8.46	8.08	7.70
Steam Coal	1.83	2.13	2.09	2.02	2.61	2.50	2.34
Electricity	22.31	20.78	20.52	20.14	21.07	20.75	20.56
Commercial	14.53	14.60	14.30	14.00	15.42	15.04	14.69
Primary Energy	5.42	6.39	6.14	5.90	7.69	7.37	7.05
Petroleum Products	6.66	6.84	6.74	6.62	8.50	8.39	8.26
Distillate Fuel	5.52	5.18	5.13	5.08	6.40	6.35	6.30
Residual Fuel	3.18	3.63	3.50	3.35	4.74	4.63	4.50
Kerosene	7.19	6.61	6.61	6.61	7.55	7.55	7.55
Other Petroleum ¹	9.85	10.11	9.98	9.85	11.74	11.64	11.54
Natural Gas	5.09	6.36	6.06	5.77	7.56	7.18	6.80
Steam Coal	1.83	2.13	2.09	2.02	2.61	2.50	2.34
Electricity	21.00	19.80	19.48	19.12	19.57	19.13	18.75
Industrial	6.55	7.41	7.11	6.81	8.76	8.34	7.91
Primary Energy	3.99	4.65	4.46	4.28	5.76	5.50	5.24
Petroleum Products	6.00	6.37	6.21	6.06	7.53	7.37	7.22
Distillate Fuel	5.89	5.56	5.48	5.40	6.77	6.70	6.62
Liquefied Petroleum Gas	9.20	9.84	9.28	8.73	11.38	10.86	10.33
Motor Gasoline ²	9.70	10.08	10.01	9.96	11.75	11.68	11.64
Residual Fuel	3.30	3.72	3.61	3.49	4.82	4.74	4.63
Other Petroleum ³	5.73	6.15	6.02	5.90	7.12	7.00	6.89
Natural Gas ⁴	3.35	4.52	4.22	3.93	5.72	5.33	4.95
Metallurgical Coal	-	2.00	1.96	1.91	2.56	2.34	2.19
Steam Coal	-	1.94	1.91	1.88	2.39	2.27	2.16
Electricity	14.64	14.86	14.56	14.26	15.49	15.11	14.77
Transportation	8.99	9.16	9.09	9.04	10.55	10.50	10.48
Primary Energy	8.99	9.15	9.09	9.04	10.55	10.50	10.48
Petroleum Products	8.99	9.15	9.09	9.04	10.55	10.50	10.48
Distillate Fuel ⁵	8.70	8.90	8.74	8.58	10.12	9.96	9.79
Jet Fuel ⁶	5.90	5.39	5.25	5.13	6.64	6.50	6.38
Motor Gasoline ²	9.72	10.09	10.03	9.97	11.76	11.70	11.65
Residual Fuel	2.44	3.34	3.08	2.84	4.23	3.98	3.75
Other Petroleum ⁷	15.88	15.33	15.16	15.00	16.31	16.14	16.00
Natural Gas	2.86	7.73	7.67	7.61	9.40	9.34	9.29
Electricity	17.24	16.26	16.02	15.73	16.45	16.13	15.90
Total End-Use Energy	9.87	10.13	9.95	9.77	11.37	11.17	10.98
Primary Energy	7.16	7.63	7.48	7.34	9.06	8.89	8.72
Electricity	19.37	18.39	18.14	17.86	18.57	18.26	18.03

- See footnotes at end of table.

Table 129. End-Use Energy Prices by Economic Growth Case
South Atlantic Region (Continued)
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Electric Utilities							
Fossil Fuel Average	1.69	2.21	2.10	1.99	2.78	2.62	2.51
Petroleum Products	3.28	3.78	3.68	3.56	5.13	5.03	4.93
Distillate Fuel	5.66	5.31	5.23	5.15	6.53	6.45	6.37
Residual Fuel	3.10	3.72	3.61	3.51	5.05	4.96	4.87
Natural Gas	2.38	3.46	3.19	2.99	5.01	4.48	3.91
Steam Coal	1.53	1.83	1.80	1.76	2.19	2.11	2.01
Average Price to All Users ⁸							
Petroleum Products	8.21	8.33	8.30	8.28	9.87	9.74	9.61
Distillate Fuel ⁵	7.98	8.14	7.99	7.84	9.47	9.31	9.14
Jet Fuel ⁶	5.90	5.39	5.25	5.13	6.64	6.50	6.38
Kerosene	8.75	8.61	8.61	8.61	9.46	9.46	9.46
Liquefied Petroleum Gas	10.59	10.80	10.29	9.78	12.20	11.73	11.25
Motor Gasoline ²	9.72	10.09	10.03	9.97	11.76	11.70	11.65
Residual Fuel	3.02	3.67	3.53	3.38	4.84	4.75	4.67
Other Petroleum Products ³	6.41	6.86	6.71	6.59	7.95	7.80	7.67
Natural Gas	4.06	4.91	4.66	4.49	6.07	5.69	5.25
Coal	1.54	1.84	1.81	1.78	2.22	2.13	2.03
Electricity	19.37	18.39	18.14	17.86	18.57	18.26	18.03

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA093.D0916924.

**Table 130. End-Use Energy Prices by Economic Growth Case
Midwest Region
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential	10.15	11.79	11.45	11.05	13.33	12.83	12.37
Primary Energy	5.59	6.71	6.42	6.14	7.89	7.52	7.16
Petroleum Products	8.97	8.87	8.68	8.49	10.43	10.25	10.08
Distillate Fuel	7.48	7.26	7.14	7.01	8.48	8.36	8.23
Kerosene	8.99	8.93	8.93	8.93	9.87	9.87	9.87
Liquefied Petroleum Gas	10.83	10.12	9.85	9.61	11.66	11.43	11.20
Natural Gas	5.17	6.49	6.19	5.90	7.71	7.32	6.94
Steam Coal	2.03	2.39	2.32	2.29	2.87	2.75	2.60
Electricity	25.43	28.23	28.03	27.43	28.44	27.96	27.75
Commercial	10.58	11.72	11.42	11.08	12.81	12.33	11.92
Primary Energy	4.80	5.98	5.69	5.43	7.23	6.87	6.51
Petroleum Products	7.24	7.33	7.21	7.10	9.06	8.95	8.82
Distillate Fuel	5.48	5.35	5.27	5.20	6.57	6.49	6.42
Residual Fuel	2.62	3.83	3.55	3.26	4.93	4.68	4.41
Kerosene	6.76	6.53	6.53	6.53	7.47	7.47	7.47
Other Petroleum ¹	10.17	10.21	10.10	9.99	11.90	11.82	11.73
Natural Gas	4.61	5.93	5.62	5.33	7.15	6.76	6.37
Steam Coal	2.03	2.39	2.32	2.29	2.87	2.75	2.60
Electricity	22.04	22.16	21.90	21.43	21.63	20.98	20.53
Industrial	6.33	7.37	7.12	6.86	8.58	8.19	7.77
Primary Energy	4.35	5.19	4.97	4.77	6.20	5.93	5.65
Petroleum Products	6.93	7.45	7.22	7.00	8.63	8.43	8.21
Distillate Fuel	5.91	5.74	5.66	5.56	6.96	6.88	6.78
Liquefied Petroleum Gas	10.49	9.70	9.48	9.28	11.25	11.05	10.87
Motor Gasoline ²	10.02	10.46	10.40	10.35	12.12	12.07	12.02
Residual Fuel	2.75	3.86	3.60	3.33	4.96	4.73	4.48
Other Petroleum ³	6.72	7.49	7.21	6.93	8.40	8.14	7.88
Natural Gas ⁴	3.84	5.11	4.80	4.51	6.33	5.94	5.55
Metallurgical Coal	1.92	2.27	2.21	2.18	2.72	2.63	2.45
Steam Coal	1.47	1.65	1.63	1.63	1.98	1.92	1.86
Electricity	15.16	15.86	15.59	15.23	16.39	15.91	15.40
Transportation	9.56	9.86	9.80	9.76	11.33	11.30	11.28
Primary Energy	9.56	9.86	9.80	9.76	11.33	11.30	11.23
Petroleum Products	9.56	9.86	9.80	9.76	11.34	11.30	11.28
Distillate Fuel ⁵	9.01	9.54	9.39	9.24	10.76	10.61	10.46
Jet Fuel ⁶	6.01	5.45	5.33	5.21	6.71	6.59	6.46
Motor Gasoline ²	9.99	10.43	10.37	10.33	12.09	12.05	12.01
Residual Fuel	2.72	3.81	3.48	3.14	4.70	4.39	4.05
Other Petroleum ⁷	17.15	16.31	16.01	15.72	17.28	16.99	16.71
Natural Gas	3.10	7.62	7.57	7.53	9.29	9.24	9.21
Electricity	21.03	21.79	21.59	21.24	21.68	21.25	20.97
Total End-Use Energy	8.62	9.48	9.29	9.08	10.73	10.44	10.16
Primary Energy	6.52	7.20	7.01	6.84	8.46	8.22	7.99
Electricity	20.05	20.81	20.61	20.26	20.70	20.27	19.99

- See footnotes at end of table.

**Table 130. End-Use Energy Prices by Economic Growth Case
Midwest Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Electric Utilities							
Fossil Fuel Average	1.51	1.99	1.90	1.81	2.46	2.34	2.14
Petroleum Products	3.66	4.90	4.68	4.59	5.97	6.10	5.98
Distillate Fuel	5.41	5.36	5.27	5.19	6.58	6.49	6.41
Residual Fuel	3.48	4.50	4.30	4.09	5.57	5.43	5.25
Natural Gas	1.55	3.48	3.07	2.74	5.08	4.56	3.99
Steam Coal	1.49	1.73	1.71	1.68	1.99	1.93	1.84
Average Price to All Users ⁸							
Petroleum Products	8.81	9.10	8.98	8.89	10.53	10.44	10.34
Distillate Fuel ⁵	8.11	8.34	8.19	8.04	9.70	9.56	9.38
Jet Fuel ⁶	6.01	5.45	5.33	5.21	6.71	6.59	6.46
Kerosene	8.53	8.63	8.63	8.63	9.54	9.54	9.54
Liquefied Petroleum Gas	10.60	9.82	9.58	9.37	11.34	11.13	10.95
Motor Gasoline ²	9.99	10.43	10.37	10.33	12.10	12.05	12.01
Residual Fuel	2.95	3.99	3.78	3.49	5.05	4.76	4.54
Other Petroleum Products ³	7.31	8.05	7.75	7.47	9.01	8.72	8.44
Natural Gas	4.54	5.52	5.26	5.03	6.70	6.29	5.95
Coal	1.53	1.77	1.75	1.72	2.04	1.98	1.89
Electricity	20.05	20.81	20.61	20.26	20.70	20.27	19.99

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA093.D0916924.

Table 131. End-Use Energy Prices by Economic Growth Case
Southwest Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential	14.63	16.88	16.45	15.95	19.51	18.60	17.98
Primary Energy	6.20	7.20	6.90	6.61	8.37	8.00	7.63
Petroleum Products	10.36	9.82	9.46	9.09	11.37	11.02	10.66
Distillate Fuel	6.07	6.38	6.10	5.83	7.59	7.32	7.05
Kerosene	7.20	8.22	8.22	8.22	9.16	9.16	9.16
Liquefied Petroleum Gas	10.69	10.02	9.62	9.21	11.56	11.19	10.80
Natural Gas	5.62	6.87	6.57	6.29	8.06	7.68	7.30
Steam Coal	2.15	2.36	2.33	2.32	2.91	2.75	2.57
Electricity	23.03	25.81	25.40	24.79	27.99	26.81	26.19
Commercial	12.63	14.18	13.83	13.44	15.91	15.11	14.59
Primary Energy	4.68	5.74	5.47	5.21	6.98	6.64	6.30
Petroleum Products	6.22	6.41	6.27	6.12	8.12	7.97	7.80
Distillate Fuel	5.52	5.15	5.06	4.97	6.37	6.28	6.19
Residual Fuel	2.65	3.41	3.22	3.03	4.52	4.35	4.18
Kerosene	6.95	6.46	6.46	6.46	7.40	7.40	7.40
Other Petroleum ¹	8.47	9.22	9.03	8.84	11.11	10.95	10.78
Natural Gas	4.28	5.58	5.28	5.00	6.76	6.39	6.01
Steam Coal	2.15	2.36	2.33	2.32	2.91	2.75	2.57
Electricity	20.39	21.86	21.45	20.93	23.09	21.88	21.17
Industrial	4.57	5.34	4.97	4.62	6.75	6.32	5.89
Primary Energy	3.92	4.54	4.22	3.90	5.79	5.45	5.09
Petroleum Products	5.71	5.89	5.56	5.21	7.13	6.82	6.50
Distillate Fuel	5.87	5.45	5.33	5.22	6.66	6.55	6.44
Liquefied Petroleum Gas	4.79	5.31	4.86	4.39	6.86	6.43	5.98
Motor Gasoline ²	9.70	10.22	10.16	10.11	11.89	11.84	11.79
Residual Fuel	2.71	3.43	3.25	3.08	4.53	4.38	4.23
Other Petroleum ³	6.37	6.49	6.21	5.92	7.46	7.21	6.95
Natural Gas ⁴	2.14	3.26	2.97	2.68	4.45	4.07	3.69
Metallurgical Coal	.00	.00	.00	.00	.00	.00	.00
Steam Coal	1.73	1.84	1.84	1.83	2.17	2.07	2.02
Electricity	13.56	15.05	14.62	14.23	16.85	15.99	15.42
Transportation	8.23	8.37	8.33	8.28	9.65	9.63	9.61
Primary Energy	8.23	8.37	8.33	8.28	9.65	9.63	9.61
Petroleum Products	8.23	8.37	8.33	8.28	9.65	9.63	9.61
Distillate Fuel ⁵	8.59	9.10	9.00	8.91	10.31	10.22	10.13
Jet Fuel ⁶	5.83	5.15	5.08	5.03	6.40	6.34	6.28
Motor Gasoline ²	9.69	10.22	10.16	10.10	11.89	11.84	11.77
Residual Fuel	3.10	3.74	3.45	3.17	4.63	4.36	4.08
Other Petroleum ⁷	16.31	15.66	15.20	14.77	16.59	16.15	15.72
Natural Gas	3.22	7.60	7.54	7.47	9.26	9.21	9.15
Electricity	18.79	20.38	20.04	19.64	21.91	20.96	20.45
Total End-Use Energy	6.82	7.51	7.23	6.95	8.94	8.59	8.26
Primary Energy	5.36	5.91	5.65	5.40	7.23	6.96	6.67
Electricity	18.78	20.38	20.04	19.64	21.91	20.96	20.45

- See footnotes at end of table.

**Table 131. End-Use Energy Prices by Economic Growth Case
Southwest Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Electric Utilities							
Fossil Fuel Average	1.86	2.46	2.29	2.16	3.06	2.83	2.69
Petroleum Products	4.08	4.42	4.07	3.71	5.47	5.14	4.80
Distillate Fuel	5.68	5.43	5.20	4.97	6.65	6.42	6.19
Residual Fuel	3.83	4.42	4.07	3.71	5.47	5.14	4.80
Natural Gas	2.20	3.28	2.98	2.70	4.60	4.17	3.74
Steam Coal	1.61	1.71	1.69	1.72	2.20	1.97	1.95
Average Price to All Users ^a							
Petroleum Products	6.98	7.17	6.97	6.76	8.46	8.28	8.08
Distillate Fuel ⁵	7.62	7.90	7.79	7.67	9.24	9.12	9.01
Jet Fuel ⁶	5.83	5.15	5.08	5.03	6.40	6.34	6.28
Kerosene	7.11	7.72	7.72	7.72	8.57	8.57	8.57
Liquefied Petroleum Gas	5.04	5.46	5.01	4.54	6.96	6.54	6.10
Motor Gasoline ²	9.69	10.22	10.16	10.10	11.89	11.84	11.77
Residual Fuel	3.02	3.73	3.46	3.19	4.66	4.41	4.15
Other Petroleum Products ³	6.58	6.71	6.41	6.12	7.70	7.43	7.16
Natural Gas	2.52	3.61	3.32	3.04	4.83	4.43	4.04
Coal	1.61	1.71	1.70	1.73	2.20	1.98	1.95
Electricity	18.78	20.38	20.04	19.64	21.91	20.96	20.45

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA93.D0916924.

Table 132. End-Use Energy Prices by Economic Growth Case
Central Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential	11.04	12.38	12.04	11.69	14.85	14.46	14.13
Primary Energy	5.42	6.21	5.88	5.56	7.40	7.00	6.61
Petroleum Products	8.57	7.85	7.34	6.85	9.39	8.89	8.40
Distillate Fuel	7.29	6.89	6.67	6.47	8.11	7.89	7.68
Kerosene	8.98	8.50	8.50	8.50	9.44	9.44	9.44
Liquefied Petroleum Gas	8.91	8.01	7.44	6.89	9.55	9.01	8.48
Natural Gas	4.92	5.96	5.65	5.36	7.16	6.78	6.39
Steam Coal	1.74	1.91	1.87	1.82	2.19	2.09	2.03
Electricity	23.00	25.40	25.28	25.02	28.45	28.47	28.75
Commercial	10.43	11.26	10.96	10.69	12.89	12.51	12.13
Primary Energy	4.19	5.22	4.93	4.66	6.44	6.08	5.71
Petroleum Products	6.52	7.07	6.90	6.73	8.77	8.60	8.43
Distillate Fuel	5.58	5.20	5.10	5.02	6.41	6.32	6.24
Residual Fuel	2.53	3.59	3.33	3.07	4.70	4.46	4.22
Kerosene	6.63	6.30	6.30	6.30	7.24	7.24	7.24
Other Petroleum ¹	7.65	9.16	8.92	8.69	10.94	10.73	10.53
Natural Gas	3.98	5.08	4.78	4.49	6.29	5.90	5.52
Steam Coal	1.74	1.91	1.87	1.82	2.19	2.09	2.03
Electricity	20.81	20.54	20.29	20.03	21.54	21.17	20.82
Industrial	5.74	6.68	6.44	6.21	7.91	7.58	7.28
Primary Energy	4.24	5.15	4.93	4.72	6.25	5.99	5.73
Petroleum Products	5.83	6.62	6.42	6.22	7.88	7.68	7.48
Distillate Fuel	6.07	5.60	5.48	5.35	6.82	6.70	6.57
Liquefied Petroleum Gas	4.75	7.94	7.38	6.83	9.48	8.95	8.43
Motor Gasoline ²	9.59	10.08	9.98	9.90	11.75	11.66	11.58
Residual Fuel	2.54	3.55	3.28	3.00	4.66	4.41	4.15
Other Petroleum ³	5.79	6.22	6.16	6.09	7.20	7.14	7.08
Natural Gas ⁴	3.15	4.33	4.02	3.73	5.53	5.15	4.76
Metallurgical Coal	-	.00	.00	.00	.00	.00	.00
Steam Coal	-	1.43	1.43	1.42	1.63	1.59	1.55
Electricity	14.16	14.70	14.43	14.21	15.61	15.21	15.08
Transportation	9.15	9.42	9.36	9.29	10.87	10.83	10.78
Primary Energy	9.15	9.42	9.36	9.29	10.87	10.83	10.78
Petroleum Products	9.15	9.42	9.36	9.29	10.88	10.83	10.79
Distillate Fuel ⁵	8.67	9.01	8.89	8.77	10.23	10.11	9.99
Jet Fuel ⁶	6.02	5.45	5.35	5.24	6.71	6.60	6.49
Motor Gasoline ²	9.55	10.02	9.94	9.86	11.69	11.62	11.54
Residual Fuel	1.54	3.02	2.57	2.11	3.91	3.47	3.01
Other Petroleum ⁷	16.71	16.06	15.97	15.81	17.01	16.93	16.86
Natural Gas	.00	7.61	7.53	7.44	9.28	9.20	9.12
Electricity	19.57	20.18	20.02	19.85	21.58	21.42	21.49
Total End-Use Energy	8.59	9.21	9.02	8.86	10.66	10.45	10.26
Primary Energy	6.57	7.10	6.91	6.74	8.39	8.16	7.94
Electricity	19.57	20.18	20.02	19.85	21.58	21.42	21.49

- See footnotes at end of table.

**Table 132. End-Use Energy Prices by Economic Growth Case
Central Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Electric Utilities							
Fossil Fuel Average	1.39	1.81	1.72	1.65	2.16	2.00	2.03
Petroleum Products	4.43	4.53	5.14	5.05	5.55	5.45	6.29
Distillate Fuel	5.66	5.29	5.20	5.12	6.51	6.42	6.34
Residual Fuel	2.67	4.17	3.95	3.73	5.27	5.07	4.87
Natural Gas	1.89	3.33	2.98	2.69	4.68	4.20	3.81
Steam Coal	1.36	1.51	1.50	1.48	1.72	1.65	1.72
Average Price to All Users ⁸							
Petroleum Products	8.27	8.53	8.43	8.31	9.93	9.82	9.73
Distillate Fuel ⁵	7.85	7.85	7.71	7.58	9.17	9.03	8.88
Jet Fuel ⁶	6.02	5.45	5.35	5.24	6.71	6.60	6.49
Kerosene	8.54	8.26	8.26	8.26	9.17	9.17	9.17
Liquefied Petroleum Gas	6.46	7.98	7.43	6.89	9.51	8.99	8.47
Motor Gasoline ²	9.55	10.03	9.94	9.86	11.69	11.62	11.54
Residual Fuel	2.52	3.85	3.27	2.99	4.94	4.69	4.11
Other Petroleum Products ³	6.68	7.05	6.98	6.91	8.07	7.99	7.91
Natural Gas	3.91	4.73	4.44	4.20	5.94	5.57	5.18
Coal	1.36	1.50	1.49	1.47	1.71	1.64	1.71
Electricity	19.57	20.18	20.02	19.85	21.58	21.42	21.49

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA093.D0916924.

Table 133. End-Use Energy Prices by Economic Growth Case
North Central Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential	10.14	11.83	11.54	11.28	13.83	13.40	12.94
Primary Energy	5.21	6.13	5.84	5.56	7.27	6.90	6.54
Petroleum Products	7.96	7.67	7.34	7.02	9.10	8.79	8.48
Distillate Fuel	7.18	6.86	6.69	6.52	8.08	7.81	7.74
Kerosene	11.08	9.15	9.15	9.15	10.09	10.09	10.09
Liquefied Petroleum Gas	8.51	8.22	7.77	7.33	9.76	9.34	8.93
Natural Gas	4.82	6.02	5.73	5.44	7.21	6.83	6.46
Steam Coal	1.42	1.53	1.52	1.52	1.83	1.74	1.70
Electricity	23.82	24.95	24.82	24.72	26.53	26.16	25.67
Commercial	10.47	10.70	10.44	10.31	11.69	11.24	10.78
Primary Energy	4.30	5.37	5.09	4.83	6.60	6.24	5.89
Petroleum Products	5.71	6.05	5.86	5.65	7.63	7.43	7.22
Distillate Fuel	5.84	5.43	5.33	5.22	6.65	6.55	6.44
Residual Fuel	2.83	3.37	3.07	2.75	4.48	4.20	3.90
Kerosene	7.37	6.50	6.50	6.50	7.44	7.44	7.44
Other Petroleum ¹	8.69	9.48	9.25	9.00	11.34	11.14	10.91
Natural Gas	4.18	5.40	5.11	4.82	6.59	6.21	5.84
Steam Coal	1.42	1.53	1.52	1.52	1.83	1.74	1.70
Electricity	21.12	19.52	19.33	19.40	19.57	18.95	18.25
Industrial	5.00	5.47	5.20	4.98	6.62	6.21	5.81
Primary Energy	3.48	4.12	3.89	3.66	5.04	4.75	4.47
Petroleum Products	5.39	5.98	5.66	5.33	7.21	6.89	6.55
Distillate Fuel	6.33	5.85	5.70	5.56	7.07	6.92	6.78
Liquefied Petroleum Gas	7.55	8.37	7.90	7.44	9.91	9.47	9.04
Motor Gasoline ²	10.26	10.68	10.57	10.46	12.34	12.24	12.14
Residual Fuel	3.58	3.80	3.35	2.90	4.91	4.48	4.05
Other Petroleum ³	4.03	5.16	4.72	4.28	6.11	5.67	5.23
Natural Gas ⁴	3.21	4.30	4.00	3.72	5.49	5.11	4.73
Metallurgical Coal	1.93	2.07	2.07	2.07	2.21	2.21	2.20
Steam Coal	-	1.06	1.05	1.05	1.19	1.17	1.16
Electricity	13.96	13.32	13.06	13.19	14.44	13.79	13.26
Transportation	9.36	9.54	9.47	9.41	10.96	10.91	10.87
Primary Energy	9.36	9.54	9.47	9.41	10.96	10.91	10.87
Petroleum Products	9.36	9.55	9.48	9.41	10.98	10.94	10.90
Distillate Fuel ⁵	9.17	9.50	9.32	9.16	10.72	10.54	10.38
Jet Fuel ⁶	6.02	5.55	5.43	5.29	6.81	6.69	6.54
Motor Gasoline ²	9.94	10.39	10.32	10.25	12.05	11.99	11.93
Residual Fuel	3.73	3.60	3.34	3.07	4.49	4.25	3.98
Other Petroleum ⁷	16.05	15.67	15.25	14.84	16.62	16.21	15.81
Natural Gas	3.78	7.73	7.67	7.60	9.40	9.34	9.28
Electricity	19.28	18.76	18.62	18.75	19.51	19.03	18.57
Total End-Use Energy	8.04	8.43	8.28	8.14	9.81	9.52	9.23
Primary Energy	6.15	6.69	6.49	6.30	7.97	7.72	7.48
Electricity	19.28	18.76	18.62	18.75	19.51	19.03	18.57

- See footnotes at end of table.

**Table 133. End-Use Energy Prices by Economic Growth Case
North Central Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Electric Utilities							
Fossil Fuel Average	0.94	1.04	1.04	1.03	1.67	1.53	1.39
Petroleum Products	4.74	5.35	5.23	5.06	6.56	6.49	6.38
Distillate Fuel	5.69	5.43	5.34	5.26	6.65	6.56	6.48
Residual Fuel	4.54	4.44	4.01	3.56	5.54	5.12	4.70
Natural Gas	2.53	3.62	3.32	3.05	5.00	4.74	4.06
Steam Coal	.93	.95	.95	.94	1.10	1.05	1.05
Average Price to All Users ^a							
Petroleum Products	8.17	8.45	8.30	8.15	9.90	9.72	9.58
Distillate Fuel ⁵	7.92	7.85	7.67	7.53	9.21	8.92	8.77
Jet Fuel ⁶	6.02	5.55	5.43	5.29	6.81	6.69	6.54
Kerosene	10.90	9.10	9.10	9.10	10.05	10.05	10.05
Liquefied Petroleum Gas	7.99	8.29	7.84	7.40	9.85	9.43	9.01
Motor Gasoline ²	9.95	10.40	10.33	10.26	12.07	12.00	11.94
Residual Fuel	3.31	3.74	3.33	2.93	4.87	4.48	4.08
Other Petroleum Products ³	4.86	5.99	5.54	5.09	7.07	6.60	6.13
Natural Gas	4.09	5.11	4.81	4.52	6.04	5.76	5.39
Coal	-	.98	.97	.97	1.13	1.08	1.08
Electricity	19.28	18.76	18.62	18.75	19.51	19.03	18.57

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HM93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LM93.D0916924.

**Table 134. End-Use Energy Prices by Economic Growth Case
West Region
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential	11.35	12.81	12.43	12.03	14.01	13.58	13.07
Primary Energy	6.18	7.33	7.02	6.73	8.51	8.12	7.74
Petroleum Products	11.88	12.52	12.17	11.81	13.74	13.43	13.11
Distillate Fuel	7.84	7.53	7.38	7.21	8.75	8.60	8.43
Kerosene	17.31	15.12	15.12	15.12	16.06	16.06	16.06
Liquefied Petroleum Gas	12.27	13.20	12.81	12.41	14.74	14.38	14.01
Natural Gas	5.87	7.15	6.84	6.54	8.38	7.99	7.60
Steam Coal	1.41	1.52	1.52	1.51	1.81	1.72	1.66
Electricity	21.73	21.50	21.11	20.59	21.30	20.90	20.29
Commercial	13.77	14.17	13.80	13.42	14.75	14.33	13.81
Primary Energy	5.38	6.33	6.04	5.75	7.59	7.22	6.84
Petroleum Products	6.69	6.99	6.76	6.54	8.63	8.38	8.13
Distillate Fuel	5.59	5.36	5.19	5.02	6.58	6.41	6.24
Residual Fuel	3.82	3.97	3.80	3.64	5.07	4.93	4.79
Kerosene	6.88	6.50	6.50	6.50	7.44	7.44	7.44
Other Petroleum ¹	10.01	11.00	10.71	10.43	12.66	12.39	12.12
Natural Gas	5.13	6.23	5.92	5.63	7.47	7.07	6.68
Steam Coal	1.41	1.52	1.52	1.51	1.81	1.72	1.66
Electricity	21.94	21.51	21.09	20.59	21.04	20.55	19.83
Industrial	7.30	8.06	7.73	7.39	9.40	8.97	8.50
Primary Energy	4.97	5.88	5.64	5.38	7.03	6.74	6.45
Petroleum Products	6.10	7.09	6.89	6.64	8.24	8.04	7.80
Distillate Fuel	5.82	5.64	5.51	5.35	6.86	6.73	6.57
Liquefied Petroleum Gas	10.26	10.80	10.38	9.97	12.34	11.95	11.56
Motor Gasoline ²	9.85	11.07	10.82	10.55	12.73	12.49	12.23
Residual Fuel	3.58	3.66	3.54	3.40	4.77	4.67	4.55
Other Petroleum ³	5.61	7.10	6.85	6.59	8.03	7.79	7.54
Natural Gas ⁴	3.93	5.10	4.79	4.49	6.34	5.94	5.55
Metallurgical Coal	.00	.00	.00	.00	.00	.00	.00
Steam Coal	-	1.71	1.71	1.69	2.15	2.00	1.91
Electricity	18.63	18.87	18.44	17.99	18.94	18.47	17.84
Transportation	8.39	8.94	8.77	8.58	10.25	10.10	9.94
Primary Energy	8.39	8.93	8.76	8.58	10.23	10.08	9.93
Petroleum Products	8.39	8.94	8.76	8.58	10.23	10.08	9.94
Distillate Fuel ⁵	9.34	10.14	9.93	9.73	11.36	11.15	10.95
Jet Fuel ⁶	6.16	5.58	5.45	5.31	6.83	6.70	6.56
Motor Gasoline ²	9.83	11.04	10.79	10.53	12.71	12.46	12.20
Residual Fuel	3.73	3.86	3.58	3.31	4.76	4.48	4.22
Other Petroleum ⁷	15.49	15.18	14.89	14.61	16.17	15.89	15.61
Natural Gas	4.86	8.23	7.99	7.72	9.90	9.66	9.40
Electricity	13.01	12.85	12.45	11.98	12.73	12.30	11.66
Total End-Use Energy	9.12	9.75	9.51	9.26	10.96	10.70	10.41
Primary Energy	7.17	7.89	7.67	7.44	9.22	8.98	8.73
Electricity	20.91	20.70	20.31	19.84	20.28	19.84	19.21

- See footnotes at end of table.

**Table 134. End-Use Energy Prices by Economic Growth Case
West Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Electric Utilities							
Fossil Fuel Average	2.62	3.28	3.03	2.80	3.79	3.59	3.39
Petroleum Products	4.48	4.95	4.69	4.45	6.06	5.86	5.63
Distillate Fuel	5.54	5.71	5.53	5.37	6.93	6.75	6.59
Residual Fuel	4.31	4.94	4.68	4.45	6.04	5.84	5.62
Natural Gas	3.05	3.97	3.66	3.36	5.24	4.81	4.43
Steam Coal	1.64	1.71	1.70	1.69	2.00	1.88	1.79
Average Price to All Users ⁸							
Petroleum Products	7.89	8.51	8.34	8.15	9.83	9.65	9.47
Distillate Fuel ⁵	8.33	9.10	8.91	8.70	10.44	10.23	10.03
Jet Fuel ⁶	6.16	5.58	5.45	5.31	6.83	6.70	6.56
Kerosene	16.82	14.98	14.98	14.98	15.94	15.94	15.94
Liquefied Petroleum Gas	10.82	11.17	10.76	10.36	12.57	12.19	11.81
Motor Gasoline ²	9.83	11.04	10.79	10.53	12.71	12.46	12.20
Residual Fuel	3.86	4.11	3.82	3.55	5.01	4.79	4.54
Other Petroleum Products ³	6.20	7.65	7.39	7.13	8.68	8.41	8.13
Natural Gas	4.47	5.41	5.13	4.87	6.70	6.31	5.96
Coal	-	1.71	1.70	1.69	2.02	1.89	1.81
Electricity	20.91	20.70	20.31	19.84	20.28	19.84	19.21

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HM93.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LM93.D0916924.

Table 135. End-Use Energy Prices by Economic Growth Case
Northwest Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential	11.06	14.53	14.24	13.71	16.04	15.36	14.46
Primary Energy	6.28	6.74	6.52	6.30	7.48	7.21	6.95
Petroleum Products	8.50	8.13	7.89	7.65	9.21	8.99	8.76
Distillate Fuel	7.79	7.65	7.44	7.21	8.87	8.66	8.43
Kerosene	10.74	10.50	10.50	10.50	11.44	11.44	11.44
Liquefied Petroleum Gas	13.32	12.81	12.42	12.02	14.35	13.99	13.62
Natural Gas	5.18	6.26	6.03	5.81	6.94	6.63	6.32
Steam Coal	2.11	2.29	2.30	2.30	2.53	2.36	2.27
Electricity	14.48	19.01	18.75	18.08	20.19	19.39	18.26
Commercial	8.99	10.73	10.47	10.04	12.02	11.41	10.59
Primary Energy	4.34	5.33	5.10	4.88	6.31	6.01	5.71
Petroleum Products	5.70	6.16	5.91	5.66	7.73	7.46	7.19
Distillate Fuel	5.77	5.67	5.45	5.24	6.89	6.67	6.46
Residual Fuel	3.11	3.76	3.51	3.25	4.86	4.64	4.40
Kerosene	6.44	7.11	7.11	7.11	8.05	8.05	8.05
Other Petroleum ¹	10.28	11.01	10.70	10.40	12.68	12.37	12.07
Natural Gas	3.96	5.21	4.97	4.75	6.09	5.78	5.46
Steam Coal	2.11	2.29	2.30	2.30	2.53	2.36	2.27
Electricity	14.04	16.33	16.06	15.41	17.66	16.75	15.36
Industrial	5.00	6.05	5.74	5.37	7.35	6.87	6.31
Primary Energy	3.58	4.44	4.20	3.95	5.44	5.15	4.85
Petroleum Products	4.92	5.54	5.31	5.03	6.71	6.48	6.19
Distillate Fuel	5.65	5.71	5.56	5.41	6.93	6.78	6.63
Liquefied Petroleum Gas	10.33	10.64	10.38	10.14	12.19	11.95	11.73
Motor Gasoline ²	10.09	10.98	10.71	10.43	12.65	12.38	12.11
Residual Fuel	3.03	3.62	3.44	3.26	4.73	4.57	4.41
Other Petroleum ³	4.07	5.05	4.71	4.38	5.99	5.65	5.32
Natural Gas ⁴	2.38	3.73	3.48	3.24	4.63	4.30	3.97
Metallurgical Coal	.00	.00	.00	.00	.00	.00	.00
Steam Coal	-	1.43	1.42	1.41	1.62	1.57	1.53
Electricity	9.02	11.05	10.66	10.06	12.23	11.49	10.50
Transportation	8.31	8.40	8.27	8.14	9.54	9.43	9.34
Primary Energy	8.31	8.40	8.27	8.14	9.53	9.42	9.33
Petroleum Products	8.31	8.40	8.27	8.14	9.53	9.42	9.33
Distillate Fuel ⁵	9.20	9.80	9.62	9.44	11.02	10.83	10.65
Jet Fuel ⁶	6.26	5.65	5.53	5.40	6.90	6.78	6.66
Motor Gasoline ²	10.08	10.68	10.50	10.33	12.34	12.17	12.01
Residual Fuel	2.62	3.46	3.19	2.92	4.36	4.10	3.83
Other Petroleum ⁷	15.17	14.97	14.66	14.36	15.97	15.67	15.37
Natural Gas	4.07	7.86	7.68	7.51	9.53	9.35	9.19
Electricity	12.31	15.21	14.94	14.38	16.29	15.56	14.51
Total End-Use Energy	7.72	8.58	8.37	8.10	9.81	9.49	9.09
Primary Energy	6.46	6.84	6.64	6.45	8.03	7.81	7.59
Electricity	12.31	15.20	14.94	14.37	16.27	15.54	14.49

- See footnotes at end of table.

**Table 135. End-Use Energy Prices by Economic Growth Case
Northwest Region (Continued)**
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Electric Utilities							
Fossil Fuel Average	1.57	2.82	2.67	2.29	2.82	2.68	2.52
Petroleum Products	4.81	5.46	5.10	4.73	6.68	6.32	5.95
Distillate Fuel	4.82	5.46	5.10	4.73	6.68	6.32	5.95
Residual Fuel	4.54	3.62	3.48	3.35	4.62	4.50	4.38
Natural Gas	1.41	3.20	2.60	2.23	4.49	3.80	3.43
Steam Coal	1.40	1.43	1.43	1.43	1.60	1.61	1.58
Average Price to All Users ^a							
Petroleum Products	7.57	7.76	7.56	7.41	8.97	8.80	8.67
Distillate Fuel ⁵	8.03	8.34	7.94	7.84	9.66	9.34	9.26
Jet Fuel ⁶	6.26	5.65	5.53	5.40	6.90	6.78	6.66
Kerosene	7.17	8.38	8.38	8.38	9.47	9.47	9.47
Liquefied Petroleum Gas	11.15	10.96	10.69	10.43	12.38	12.14	11.91
Motor Gasoline ²	10.08	10.69	10.50	10.33	12.36	12.18	12.01
Residual Fuel	2.71	3.51	3.26	3.01	4.44	4.19	3.95
Other Petroleum Products ³	4.92	5.92	5.57	5.23	7.01	6.64	6.27
Natural Gas	3.08	4.13	3.90	3.66	5.17	4.84	4.52
Coal	-	1.49	1.49	1.49	1.62	1.62	1.60
Electricity	12.31	15.20	14.94	14.37	16.27	15.54	14.49

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA093.D0916924.

Table 136. End-Use Energy Prices by Economic Growth Case
United States
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Residential	12.39	13.79	13.43	13.01	15.53	15.02	14.50
Primary Energy	6.48	7.34	7.04	6.75	8.48	8.11	7.75
Petroleum Products	9.04	8.99	8.69	8.38	10.46	10.16	9.86
Distillate Fuel	8.08	8.02	7.76	7.49	9.24	8.98	8.71
Kerosene	9.14	8.98	8.98	8.98	9.85	9.85	9.85
Liquefied Petroleum Gas	11.20	10.75	10.34	9.94	12.34	11.95	11.57
Natural Gas	5.82	7.02	6.71	6.42	8.21	7.83	7.44
Steam Coal	1.99	2.29	2.27	2.21	2.73	2.60	2.48
Electricity	23.34	24.46	24.18	23.68	24.99	24.50	24.04
Commercial	12.40	13.30	12.99	12.65	14.35	13.88	13.40
Primary Energy	5.06	6.07	5.80	5.54	7.33	6.99	6.66
Petroleum Products	6.04	6.32	6.17	6.00	7.83	7.68	7.51
Distillate Fuel	5.94	5.72	5.59	5.46	6.96	6.83	6.69
Residual Fuel	3.57	4.03	3.87	3.72	5.13	5.00	4.87
Kerosene	6.96	6.64	6.64	6.64	7.58	7.58	7.58
Other Petroleum ¹	9.69	10.28	10.09	9.90	11.98	11.82	11.65
Natural Gas	4.84	6.08	5.78	5.49	7.29	6.91	6.53
Steam Coal	1.96	2.26	2.23	2.17	2.69	2.56	2.44
Electricity	22.04	22.09	21.76	21.31	21.82	21.21	20.55
Industrial	5.73	6.60	6.29	5.97	7.92	7.51	7.07
Primary Energy	4.14	4.87	4.61	4.35	6.00	5.70	5.39
Petroleum Products	6.01	6.43	6.17	5.90	7.62	7.37	7.12
Distillate Fuel	5.94	5.64	5.53	5.41	6.86	6.75	6.63
Liquefied Petroleum Gas	5.95	6.64	6.20	5.75	8.18	7.77	7.35
Motor Gasoline ²	9.87	10.48	10.37	10.27	12.15	12.05	11.95
Residual Fuel	3.13	3.75	3.57	3.39	4.86	4.70	4.54
Other Petroleum ³	6.14	6.64	6.40	6.15	7.60	7.37	7.14
Natural Gas ⁴	2.95	4.15	3.84	3.54	5.34	4.95	4.56
Metallurgical Coal	1.82	2.15	2.11	2.07	2.61	2.49	2.34
Steam Coal	1.48	1.69	1.67	1.66	2.02	1.94	1.87
Electricity	14.74	15.53	15.21	14.87	16.32	15.80	15.28
Transportation	8.92	9.23	9.14	9.07	10.58	10.52	10.47
Primary Energy	8.91	9.21	9.13	9.05	10.55	10.50	10.45
Petroleum Products	8.91	9.22	9.13	9.06	10.56	10.50	10.45
Distillate Fuel ⁵	8.98	9.48	9.32	9.17	10.69	10.54	10.38
Jet Fuel ⁶	6.00	5.43	5.31	5.20	6.68	6.56	6.45
Motor Gasoline ²	9.86	10.51	10.41	10.31	12.18	12.08	11.99
Residual Fuel	3.22	3.69	3.43	3.18	4.59	4.34	4.09
Other Petroleum ⁷	16.49	15.88	15.59	15.30	16.83	16.54	16.27
Natural Gas	4.50	8.12	7.96	7.79	9.76	9.61	9.45
Electricity	23.74	22.36	22.02	21.47	19.35	18.95	18.19
Total End-Use Energy	8.68	9.34	9.12	8.90	10.63	10.36	10.08
Primary Energy	6.58	7.17	6.97	6.77	8.49	8.26	8.02
Electricity	19.94	20.43	20.18	19.83	20.63	20.19	19.75

- See footnotes at end of table.

**Table 136. End-Use Energy Prices by Economic Growth Case
United States (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Economic Growth	Reference Case	Low Economic Growth	High Economic Growth	Reference Case	Low Economic Growth
Electric Utilities							
Fossil Fuel Average	1.71	2.21	2.10	1.98	2.78	2.64	2.48
Petroleum Products	3.61	4.14	4.05	3.92	5.46	5.36	5.23
Distillate Fuel	5.57	5.33	5.16	4.97	6.57	6.40	6.23
Residual Fuel	3.46	4.02	3.91	3.79	5.34	5.24	5.12
Natural Gas	2.38	3.49	3.18	2.89	4.93	4.47	3.98
Steam Coal	1.45	1.66	1.64	1.63	1.99	1.89	1.83
Average Price to All Users ^a							
Petroleum Products	7.93	8.25	8.12	8.00	9.61	9.46	9.32
Distillate Fuel ⁵	8.03	8.29	8.11	7.94	9.63	9.45	9.28
Jet Fuel ⁶	6.00	5.43	5.31	5.20	6.68	6.56	6.45
Kerosene	8.80	8.61	8.61	8.61	9.30	9.30	9.30
Liquefied Petroleum Gas	7.02	7.32	6.89	6.46	8.70	8.31	7.91
Motor Gasoline ²	9.86	10.51	10.41	10.31	12.18	12.08	11.99
Residual Fuel	3.33	3.86	3.67	3.47	4.94	4.79	4.62
Other Petroleum Products ³	6.62	7.11	6.85	6.60	8.11	7.87	7.62
Natural Gas	3.90	4.91	4.63	4.38	6.12	5.73	5.35
Coal	1.48	1.69	1.67	1.66	2.02	1.92	1.86
Electricity	19.94	20.43	20.18	19.83	20.63	20.19	19.75

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Economic Growth -- HMA093.D091692C, Reference Case -- AEO93B.D0918921, Low Economic Growth -- LMA093.D0916924.

End-Use Energy Prices by Oil and Gas Recovery Case

Table 137. End-Use Energy Prices by Oil and Gas Recovery Case
New England Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential	12.01	13.91	13.99	14.08	15.62	15.92	16.28
Primary Energy	8.31	8.32	8.40	8.52	9.40	9.68	10.11
Petroleum Products	8.64	8.30	8.30	8.30	9.74	9.72	9.71
Distillate Fuel	8.15	7.80	7.80	7.80	9.02	9.02	9.02
Kerosene	9.44	9.38	9.38	9.38	10.32	10.32	10.32
Liquefied Petroleum Gas	13.96	12.76	12.77	12.78	14.32	14.34	14.38
Natural Gas	7.92	8.39	8.56	8.82	9.21	9.72	10.51
Steam Coal	2.45	2.97	3.05	2.99	3.62	3.59	3.63
Electricity	24.43	29.23	29.27	29.20	28.21	28.34	28.38
Commercial	12.74	14.65	14.72	14.83	15.02	15.28	15.61
Primary Energy	5.88	6.36	6.44	6.57	7.48	7.76	8.18
Petroleum Products	5.53	5.74	5.75	5.75	7.06	7.06	7.07
Distillate Fuel	6.50	6.10	6.10	6.10	7.32	7.32	7.32
Residual Fuel	3.23	3.79	3.79	3.79	4.92	4.92	4.93
Kerosene	7.41	7.14	7.14	7.14	8.08	8.08	8.08
Other Petroleum ¹	11.56	12.05	12.05	12.06	13.53	13.54	13.56
Natural Gas	6.36	7.02	7.18	7.45	7.84	8.35	9.14
Steam Coal	2.45	2.97	3.05	2.99	3.62	3.59	3.63
Electricity	24.88	28.78	28.83	28.89	26.31	26.48	26.61
Industrial	8.08	9.26	9.30	9.34	10.49	10.61	10.74
Primary Energy	4.92	5.50	5.53	5.59	6.59	6.71	6.88
Petroleum Products	5.22	5.86	5.85	5.83	7.09	7.07	7.03
Distillate Fuel	6.57	5.98	5.98	5.98	7.20	7.20	7.20
Liquefied Petroleum Gas	12.58	12.87	12.88	12.89	14.43	14.45	14.49
Motor Gasoline ²	10.40	11.33	11.33	11.33	13.00	13.00	13.01
Residual Fuel	3.19	3.75	3.75	3.75	4.88	4.88	4.89
Other Petroleum ³	6.31	6.56	6.56	6.56	7.53	7.53	7.53
Natural Gas ⁴	4.45	5.09	5.26	5.52	5.91	6.42	7.21
Metallurgical Coal	.00	.00	.00	.00	.00	.00	.00
Steam Coal	1.81	2.18	2.18	2.17	2.63	2.63	2.65
Electricity	17.93	20.45	20.50	20.54	20.57	20.73	20.85
Transportation	10.01	10.70	10.71	10.71	12.19	12.20	12.21
Primary Energy	9.97	10.65	10.65	10.65	12.11	12.13	12.13
Petroleum Products	9.97	10.65	10.65	10.65	12.15	12.16	12.16
Distillate Fuel ⁵	9.76	10.27	10.27	10.27	11.49	11.49	11.49
Jet Fuel ⁶	6.25	5.58	5.58	5.58	6.84	6.84	6.84
Motor Gasoline ²	10.38	11.32	11.32	11.32	12.99	12.99	12.99
Residual Fuel	2.44	3.08	3.08	3.08	3.99	3.98	3.98
Other Petroleum ⁷	17.10	16.28	16.28	16.28	17.25	17.25	17.25
Natural Gas	3.89	8.32	8.32	8.32	9.99	9.99	9.99
Electricity	18.49	22.41	22.46	22.46	21.19	21.34	21.44
Total End-Use Energy	10.65	11.89	11.92	11.97	13.08	13.22	13.36
Primary Energy	8.32	8.83	8.86	8.91	10.19	10.31	10.46
Electricity	22.91	26.80	26.85	26.85	25.40	25.57	25.67

- See footnotes at end of table.

**Table 137. End-Use Energy Prices by Oil and Gas Recovery Case
New England Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Electric Utilities							
Fossil Fuel Average	2.59	3.14	3.17	3.17	4.31	4.38	4.42
Petroleum Products	3.08	3.64	3.64	3.65	5.09	5.09	5.10
Distillate Fuel	5.83	5.19	5.19	5.19	6.41	6.41	6.41
Residual Fuel	3.02	3.63	3.63	3.64	5.07	5.07	5.08
Natural Gas	2.53	3.37	3.53	3.52	4.19	4.70	4.94
Steam Coal	1.76	2.12	2.14	2.13	2.71	2.71	2.73
Average Price to All Users ^a							
Petroleum Products	7.83	8.38	8.38	8.35	9.80	9.80	9.76
Distillate Fuel ⁵	8.24	8.20	8.20	8.20	9.60	9.60	9.59
Jet Fuel ⁶	6.25	5.58	5.58	5.58	6.84	6.84	6.84
Kerosene	9.02	8.57	8.57	8.57	8.08	8.08	8.08
Liquefied Petroleum Gas	13.49	12.81	12.81	12.83	14.37	14.39	14.43
Motor Gasoline ²	10.38	11.32	11.32	11.32	12.99	12.99	12.99
Residual Fuel	3.07	3.66	3.66	3.66	5.01	5.01	5.02
Other Petroleum Products ³	7.28	7.42	7.42	7.42	8.42	8.42	8.42
Natural Gas	6.14	6.75	6.91	7.18	7.65	8.10	8.82
Coal	1.78	2.14	2.16	2.15	2.72	2.72	2.74
Electricity	22.91	26.80	26.85	26.85	25.40	25.57	25.67

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGE093.D0918923.

Table 138. End-Use Energy Prices by Oil and Gas Recovery Case
New York/New Jersey Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential	12.38	12.68	12.82	13.01	14.46	14.97	15.74
Primary Energy	7.70	8.05	8.17	8.35	8.95	9.34	9.92
Petroleum Products	8.80	8.60	8.60	8.60	9.98	9.97	9.97
Distillate Fuel	8.49	8.21	8.21	8.21	9.43	9.43	9.43
Kerosene	10.06	10.06	10.06	10.06	11.00	11.00	11.00
Liquefied Petroleum Gas	12.03	12.30	12.31	12.32	13.86	13.88	13.92
Natural Gas	7.16	7.87	8.04	8.30	8.69	9.20	9.98
Steam Coal	2.16	2.20	2.22	2.20	2.42	2.39	2.39
Electricity	31.34	28.48	28.62	28.74	28.83	29.30	30.15
Commercial	13.45	13.65	13.77	13.96	14.70	15.13	15.82
Primary Energy	5.42	6.02	6.12	6.27	7.08	7.40	7.88
Petroleum Products	5.42	5.60	5.60	5.60	6.97	6.97	6.98
Distillate Fuel	6.36	5.99	5.99	5.99	7.21	7.21	7.21
Residual Fuel	3.93	4.09	4.10	4.10	5.22	5.23	5.23
Kerosene	7.12	6.55	6.55	6.55	7.49	7.49	7.49
Other Petroleum ¹	10.24	11.15	11.15	11.16	12.71	12.71	12.72
Natural Gas	5.47	6.36	6.53	6.79	7.18	7.69	8.47
Steam Coal	2.16	2.20	2.22	2.20	2.42	2.39	2.39
Electricity	29.68	28.33	28.47	28.70	27.56	28.06	29.01
Industrial	6.92	7.32	7.38	7.48	8.71	8.94	9.29
Primary Energy	5.31	5.67	5.72	5.80	6.66	6.82	7.04
Petroleum Products	6.61	6.81	6.81	6.80	7.91	7.91	7.91
Distillate Fuel	6.38	5.78	5.78	5.78	7.00	7.00	7.01
Liquefied Petroleum Gas	10.74	12.23	12.24	12.25	13.79	13.81	13.85
Motor Gasoline ²	9.77	10.77	10.78	10.78	12.45	12.45	12.45
Residual Fuel	3.82	4.04	4.04	4.04	5.17	5.17	5.18
Other Petroleum ³	6.75	6.75	6.75	6.75	7.72	7.72	7.72
Natural Gas ⁴	4.45	5.23	5.40	5.66	6.05	6.56	7.34
Metallurgical Coal	-	2.36	2.37	2.36	2.75	2.79	2.81
Steam Coal	-	1.71	1.71	1.71	1.98	2.01	2.02
Electricity	14.20	14.70	14.82	14.99	16.64	17.11	17.86
Transportation	8.95	9.54	9.54	9.54	11.07	11.07	11.09
Primary Energy	8.85	9.44	9.44	9.44	10.83	10.85	10.85
Petroleum Products	8.85	9.44	9.44	9.44	10.86	10.87	10.87
Distillate Fuel ⁵	9.54	10.09	10.09	10.09	11.31	11.31	11.31
Jet Fuel ⁶	5.94	5.29	5.29	5.29	6.55	6.55	6.55
Motor Gasoline ²	9.77	10.77	10.78	10.78	12.45	12.45	12.45
Residual Fuel	3.07	3.45	3.45	3.46	4.36	4.36	4.36
Other Petroleum ⁷	18.20	17.13	17.13	17.14	18.09	18.10	18.10
Natural Gas	4.72	8.05	8.05	8.06	9.73	9.73	9.73
Electricity	27.61	26.31	26.44	26.63	26.74	27.20	28.10
Total End-Use Energy	10.20	10.57	10.63	10.73	11.91	12.14	12.48
Primary Energy	7.45	7.95	8.00	8.07	9.17	9.32	9.54
Electricity	26.50	25.16	25.29	25.48	25.23	25.73	26.61

- See footnotes at end of table.

**Table 138. End-Use Energy Prices by Oil and Gas Recovery Case
New York/New Jersey Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Electric Utilities							
Fossil Fuel Average	2.70	3.09	3.16	3.26	4.12	4.33	4.70
Petroleum Products	3.89	4.13	4.13	4.13	5.45	5.45	5.47
Distillate Fuel	6.05	5.45	5.45	5.45	6.67	6.67	6.67
Residual Fuel	3.80	4.11	4.11	4.12	5.42	5.42	5.43
Natural Gas	2.43	3.36	3.52	3.78	4.14	4.65	5.37
Steam Coal	1.63	1.85	1.86	1.85	2.13	2.16	2.17
Average Price to All Users ^a							
Petroleum Products	7.67	8.27	8.27	8.27	9.41	9.42	9.39
Distillate Fuel ⁵	8.23	8.24	8.24	8.24	9.56	9.57	9.54
Jet Fuel ⁶	5.94	5.29	5.29	5.29	6.55	6.55	6.55
Kerosene	9.67	9.18	9.18	9.18	7.49	7.49	7.49
Liquefied Petroleum Gas	11.54	12.30	12.31	12.32	13.85	13.87	13.91
Motor Gasoline ²	9.77	10.77	10.78	10.78	12.45	12.45	12.45
Residual Fuel	3.72	3.97	3.97	3.97	5.20	5.20	5.22
Other Petroleum Products ³	7.20	7.17	7.17	7.17	8.17	8.17	8.17
Natural Gas	5.35	6.08	6.24	6.50	6.68	7.13	7.81
Coal	1.68	1.88	1.89	1.88	2.16	2.19	2.20
Electricity	26.50	25.16	25.29	25.48	25.23	25.73	26.61

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

Table 139. End-Use Energy Prices by Oil and Gas Recovery Case
Mid-Atlantic Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential	12.86	14.08	14.19	14.32	15.10	15.47	15.97
Primary Energy	7.08	7.29	7.41	7.60	8.11	8.51	9.13
Petroleum Products	8.65	8.34	8.34	8.34	9.80	9.78	9.78
Distillate Fuel	8.02	7.67	7.67	7.67	8.89	8.89	8.89
Kerosene	9.26	9.06	9.06	9.06	10.00	10.00	10.00
Liquefied Petroleum Gas	13.31	12.43	12.43	12.45	13.99	14.01	14.05
Natural Gas	6.63	7.15	7.32	7.58	7.96	8.47	9.25
Steam Coal	2.05	2.35	2.43	2.36	2.78	2.75	2.78
Electricity	24.07	25.86	25.89	25.87	24.80	24.89	25.02
Commercial	13.26	13.74	13.83	13.95	13.67	13.97	14.43
Primary Energy	5.60	6.02	6.14	6.33	6.99	7.38	7.98
Petroleum Products	6.20	6.08	6.08	6.08	7.49	7.49	7.49
Distillate Fuel	5.86	5.51	5.51	5.51	6.73	6.73	6.73
Residual Fuel	3.53	3.94	3.94	3.95	5.07	5.07	5.08
Kerosene	6.48	6.53	6.53	6.53	7.47	7.47	7.47
Other Petroleum ¹	10.37	10.60	10.60	10.61	12.25	12.26	12.26
Natural Gas	5.72	6.22	6.39	6.65	7.04	7.54	8.32
Steam Coal	2.05	2.35	2.43	2.36	2.78	2.75	2.78
Electricity	22.52	22.68	22.72	22.74	20.57	20.71	20.95
Industrial	5.90	6.52	6.58	6.65	7.44	7.62	7.86
Primary Energy	3.93	4.38	4.43	4.50	5.27	5.43	5.66
Petroleum Products	6.58	6.74	6.74	6.74	7.84	7.84	7.84
Distillate Fuel	5.86	5.66	5.66	5.66	6.88	6.88	6.88
Liquefied Petroleum Gas	11.38	10.51	10.52	10.53	12.07	12.09	12.13
Motor Gasoline ²	10.08	10.55	10.55	10.55	12.23	12.23	12.23
Residual Fuel	3.47	3.80	3.80	3.81	4.93	4.93	4.94
Other Petroleum ³	6.52	6.66	6.66	6.66	7.62	7.62	7.62
Natural Gas ⁴	3.90	4.62	4.79	5.05	5.43	5.94	6.72
Metallurgical Coal	1.72	2.02	2.04	2.03	2.37	2.40	2.42
Steam Coal	-	1.73	1.73	1.73	2.05	2.07	2.08
Electricity	15.69	16.39	16.44	16.43	15.88	16.04	16.20
Transportation	9.32	9.61	9.61	9.61	11.02	11.03	11.03
Primary Energy	9.32	9.61	9.61	9.61	11.02	11.03	11.03
Petroleum Products	9.32	9.61	9.61	9.61	11.02	11.03	11.03
Distillate Fuel ⁵	9.13	9.59	9.59	9.59	10.81	10.81	10.81
Jet Fuel ⁶	5.86	5.28	5.28	5.28	6.53	6.53	6.53
Motor Gasoline ²	10.06	10.54	10.54	10.54	12.21	12.21	12.21
Residual Fuel	2.85	3.23	3.23	3.23	4.14	4.14	4.14
Other Petroleum ⁷	17.94	16.92	16.93	16.93	17.89	17.89	17.89
Natural Gas	4.90	7.79	7.79	7.79	9.46	9.46	9.47
Electricity	20.40	21.29	21.33	21.32	20.03	20.17	20.34
Total End-Use Energy	9.12	9.71	9.77	9.83	10.70	10.86	11.08
Primary Energy	6.76	7.15	7.20	7.27	8.39	8.55	8.75
Electricity	20.60	21.49	21.53	21.52	20.23	20.37	20.55

- See footnotes at end of table.

Table 139. End-Use Energy Prices by Oil and Gas Recovery Case
Mid-Atlantic Region (Continued)
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Electric Utilities							
Fossil Fuel Average	1.54	1.87	1.90	1.89	2.33	2.41	2.29
Petroleum Products	3.60	4.07	4.07	4.07	5.31	5.31	5.33
Distillate Fuel	5.19	4.96	4.97	4.97	6.18	6.18	6.19
Residual Fuel	3.42	3.91	3.91	3.91	5.11	5.11	5.12
Natural Gas	2.67	3.85	3.99	4.12	4.79	5.29	5.88
Steam Coal	1.41	1.66	1.69	1.67	1.89	1.93	1.94
Average Price to All Users ⁸							
Petroleum Products	8.41	8.58	8.58	8.58	9.98	9.99	10.00
Distillate Fuel ⁵	8.08	8.20	8.20	8.20	9.58	9.59	9.58
Jet Fuel ⁶	5.86	5.28	5.28	5.28	6.53	6.53	6.53
Kerosene	9.00	8.76	8.76	8.76	9.34	9.34	9.34
Liquefied Petroleum Gas	12.07	11.08	11.09	11.10	12.57	12.58	12.61
Motor Gasoline ²	10.06	10.54	10.54	10.54	12.21	12.21	12.22
Residual Fuel	3.28	3.73	3.73	3.74	4.82	4.82	4.81
Other Petroleum Products ³	6.99	7.09	7.09	7.09	8.08	8.08	8.08
Natural Gas	5.24	5.80	5.97	6.23	6.39	6.89	7.81
Coal	-	1.72	1.74	1.72	1.96	2.00	2.00
Electricity	20.60	21.49	21.53	21.52	20.23	20.37	20.55

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

Table 140. End-Use Energy Prices by Oil and Gas Recovery Case
South Atlantic Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential	16.66	15.94	16.02	16.14	16.89	17.21	17.64
Primary Energy	7.25	7.61	7.74	7.93	8.43	8.83	9.44
Petroleum Products	10.35	10.23	10.24	10.24	12.01	12.01	12.04
Distillate Fuel	7.86	7.48	7.48	7.48	8.70	8.70	8.70
Kerosene	8.88	8.75	8.75	8.75	9.69	9.69	9.69
Liquefied Petroleum Gas	11.85	11.44	11.45	11.46	13.00	13.02	13.06
Natural Gas	6.16	6.80	6.96	7.21	7.59	8.08	8.84
Steam Coal	1.83	2.08	2.09	2.08	2.49	2.50	2.54
Electricity	22.31	20.47	20.52	20.58	20.54	20.75	21.02
Commercial	14.53	14.22	14.30	14.43	14.73	15.04	15.47
Primary Energy	5.42	6.02	6.14	6.32	6.99	7.37	7.95
Petroleum Products	6.66	6.73	6.74	6.74	8.39	8.39	8.39
Distillate Fuel	5.52	5.13	5.13	5.13	6.35	6.35	6.35
Residual Fuel	3.18	3.50	3.50	3.50	4.63	4.63	4.64
Kerosene	7.19	6.61	6.61	6.61	7.55	7.55	7.55
Other Petroleum ¹	9.85	9.98	9.98	9.99	11.64	11.64	11.66
Natural Gas	5.09	5.90	6.06	6.31	6.69	7.18	7.94
Steam Coal	1.83	2.08	2.09	2.08	2.49	2.50	2.54
Electricity	21.00	19.43	19.48	19.55	18.93	19.13	19.44
Industrial	6.55	7.03	7.11	7.22	8.10	8.34	8.66
Primary Energy	3.99	4.40	4.46	4.56	5.29	5.50	5.78
Petroleum Products	6.00	6.21	6.21	6.21	7.37	7.37	7.38
Distillate Fuel	5.89	5.48	5.48	5.48	6.70	6.70	6.70
Liquefied Petroleum Gas	9.20	9.28	9.28	9.30	10.84	10.86	10.90
Motor Gasoline ²	9.70	10.01	10.01	10.01	11.68	11.68	11.69
Residual Fuel	3.30	3.61	3.61	3.61	4.74	4.74	4.75
Other Petroleum ³	5.73	6.02	6.02	6.02	7.00	7.00	7.00
Natural Gas ⁴	3.35	4.05	4.22	4.47	4.84	5.33	6.09
Metallurgical Coal	-	1.95	1.96	1.95	2.32	2.34	2.37
Steam Coal	-	1.90	1.91	1.90	2.25	2.27	2.30
Electricity	14.64	14.51	14.56	14.63	14.92	15.11	15.36
Transportation	8.99	9.09	9.09	9.09	10.50	10.50	10.51
Primary Energy	8.99	9.09	9.09	9.09	10.50	10.50	10.51
Petroleum Products	8.99	9.09	9.09	9.09	10.50	10.50	10.51
Distillate Fuel ⁵	8.70	8.74	8.74	8.74	9.96	9.96	9.96
Jet Fuel ⁶	5.90	5.25	5.25	5.25	6.51	6.50	6.51
Motor Gasoline ²	9.72	10.02	10.03	10.03	11.70	11.70	11.70
Residual Fuel	2.44	3.08	3.08	3.08	3.99	3.98	3.98
Other Petroleum ⁷	15.88	15.16	15.16	15.16	16.14	16.14	16.15
Natural Gas	2.86	7.67	7.67	7.67	9.34	9.34	9.34
Electricity	17.24	15.97	16.02	16.08	15.93	16.13	16.40
Total End-Use Energy	9.87	9.90	9.95	10.01	11.02	11.17	11.37
Primary Energy	7.16	7.44	7.48	7.54	8.76	8.89	9.05
Electricity	19.37	18.10	18.14	18.21	18.06	18.26	18.53

- See footnotes at end of table.

**Table 140. End-Use Energy Prices by Oil and Gas Recovery Case
South Atlantic Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Electric Utilities							
Fossil Fuel Average	1.69	2.08	2.10	2.12	2.54	2.62	2.64
Petroleum Products	3.28	3.68	3.68	3.68	5.03	5.03	5.03
Distillate Fuel	5.66	5.23	5.23	5.23	6.45	6.45	6.45
Residual Fuel	3.10	3.61	3.61	3.62	4.96	4.96	4.97
Natural Gas	2.38	3.03	3.19	3.44	4.00	4.48	5.10
Steam Coal	1.53	1.79	1.80	1.79	2.09	2.11	2.13
Average Price to All Users ^a							
Petroleum Products	8.21	8.30	8.30	8.30	9.74	9.74	9.75
Distillate Fuel ⁵	7.98	7.99	7.99	7.99	9.30	9.31	9.32
Jet Fuel ⁶	5.90	5.25	5.25	5.25	6.51	6.50	6.51
Kerosene	8.75	8.61	8.61	8.61	9.46	9.46	9.46
Liquefied Petroleum Gas	10.59	10.29	10.29	10.30	11.72	11.73	11.75
Motor Gasoline ²	9.72	10.02	10.03	10.03	11.70	11.70	11.70
Residual Fuel	3.02	3.53	3.53	3.53	4.75	4.75	4.76
Other Petroleum Products ³	6.41	6.71	6.71	6.71	7.81	7.80	7.80
Natural Gas	4.06	4.50	4.66	4.91	5.20	5.69	6.48
Coal	1.54	1.81	1.81	1.81	2.11	2.13	2.15
Electricity	19.37	18.10	18.14	18.21	18.06	18.26	18.53

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 141. End-Use Energy Prices by Oil and Gas Recovery Case
Midwest Region
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential	10.15	11.29	11.45	11.70	12.40	12.83	13.48
Primary Energy	5.59	6.27	6.42	6.65	7.06	7.52	8.23
Petroleum Products	8.97	8.68	8.68	8.69	10.25	10.25	10.27
Distillate Fuel	7.48	7.14	7.14	7.15	8.36	8.36	8.37
Kerosene	8.99	8.93	8.93	8.93	9.87	9.87	9.87
Liquefied Petroleum Gas	10.83	9.85	9.85	9.87	11.41	11.43	11.46
Natural Gas	5.17	6.03	6.19	6.44	6.82	7.32	8.09
Steam Coal	2.03	2.32	2.32	2.33	2.73	2.75	2.79
Electricity	25.43	27.90	28.03	28.21	28.01	27.96	28.07
Commercial	10.58	11.27	11.42	11.66	11.92	12.33	12.95
Primary Energy	4.80	5.55	5.69	5.92	6.42	6.87	7.56
Petroleum Products	7.24	7.21	7.21	7.22	8.95	8.95	8.95
Distillate Fuel	5.48	5.27	5.27	5.27	6.49	6.49	6.49
Residual Fuel	2.62	3.55	3.55	3.56	4.68	4.68	4.69
Kerosene	6.76	6.53	6.53	6.53	7.47	7.47	7.47
Other Petroleum ¹	10.17	10.10	10.10	10.11	11.82	11.82	11.83
Natural Gas	4.61	5.46	5.62	5.88	6.26	6.76	7.53
Steam Coal	2.03	2.32	2.32	2.33	2.73	2.75	2.79
Electricity	22.04	21.77	21.90	22.08	20.89	20.98	21.28
Industrial	6.33	7.03	7.12	7.24	7.96	8.19	8.51
Primary Energy	4.35	4.91	4.97	5.07	5.72	5.93	6.23
Petroleum Products	6.93	7.23	7.22	7.22	8.42	8.43	8.43
Distillate Fuel	5.91	5.66	5.66	5.66	6.88	6.88	6.88
Liquefied Petroleum Gas	10.49	9.47	9.48	9.49	11.03	11.05	11.09
Motor Gasoline ²	10.02	10.40	10.40	10.40	12.07	12.07	12.08
Residual Fuel	2.75	3.59	3.60	3.60	4.72	4.73	4.73
Other Petroleum ³	6.72	7.21	7.21	7.21	8.14	8.14	8.14
Natural Gas ⁴	3.84	4.64	4.80	5.06	5.44	5.94	6.71
Metallurgical Coal	1.92	2.20	2.21	2.20	2.58	2.63	2.66
Steam Coal	1.47	1.63	1.63	1.63	1.91	1.92	1.94
Electricity	15.16	15.47	15.59	15.74	15.74	15.91	16.21
Transportation	9.56	9.80	9.80	9.80	11.29	11.30	11.30
Primary Energy	9.56	9.80	9.80	9.80	11.29	11.30	11.30
Petroleum Products	9.56	9.80	9.80	9.80	11.30	11.30	11.30
Distillate Fuel ⁵	9.01	9.39	9.39	9.39	10.61	10.61	10.61
Jet Fuel ⁶	6.01	5.33	5.33	5.33	6.59	6.59	6.59
Motor Gasoline ²	9.99	10.37	10.37	10.37	12.04	12.05	12.05
Residual Fuel	2.72	3.48	3.48	3.48	4.39	4.39	4.39
Other Petroleum ⁷	17.15	16.01	16.01	16.01	16.99	16.99	17.00
Natural Gas	3.10	7.57	7.57	7.57	9.24	9.24	9.24
Electricity	21.03	21.48	21.59	21.76	21.14	21.25	21.52
Total End-Use Energy	8.62	9.20	9.29	9.41	10.22	10.44	10.76
Primary Energy	6.52	6.94	7.01	7.12	8.00	8.22	8.53
Electricity	20.05	20.50	20.61	20.78	20.16	20.27	20.54

- See footnotes at end of table.

**Table 141. End-Use Energy Prices by Oil and Gas Recovery Case
Midwest Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Electric Utilities							
Fossil Fuel Average	1.51	1.87	1.90	1.88	2.33	2.34	2.22
Petroleum Products	3.66	4.73	4.68	4.79	5.77	6.10	6.16
Distillate Fuel	5.41	5.27	5.27	5.27	6.49	6.49	6.49
Residual Fuel	3.48	4.30	4.30	4.30	5.39	5.43	5.44
Natural Gas	1.55	2.91	3.07	3.27	4.19	4.56	4.99
Steam Coal	1.49	1.71	1.71	1.71	1.93	1.93	1.95
Average Price to All Users ^a							
Petroleum Products	8.81	8.99	8.98	9.00	10.42	10.44	10.44
Distillate Fuel ⁵	8.11	8.19	8.19	8.20	9.54	9.56	9.55
Jet Fuel ⁶	6.01	5.33	5.33	5.33	6.59	6.59	6.59
Kerosene	8.53	8.63	8.63	8.63	9.54	9.54	9.54
Liquefied Petroleum Gas	10.60	9.58	9.58	9.60	11.12	11.13	11.17
Motor Gasoline ²	9.99	10.37	10.37	10.38	12.05	12.05	12.05
Residual Fuel	2.95	3.75	3.78	3.71	4.86	4.76	4.76
Other Petroleum Products ³	7.31	7.75	7.75	7.75	8.72	8.72	8.72
Natural Gas	4.54	5.11	5.26	5.54	5.80	6.29	7.17
Coal	1.53	1.75	1.75	1.75	1.98	1.98	2.00
Electricity	20.05	20.50	20.61	20.78	20.16	20.27	20.54

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 142. End-Use Energy Prices by Oil and Gas Recovery Case
Southwest Region
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential	14.63	16.26	16.45	16.75	18.11	18.60	19.55
Primary Energy	6.20	6.76	6.90	7.12	7.55	8.00	8.69
Petroleum Products	10.36	9.45	9.46	9.47	11.00	11.02	11.05
Distillate Fuel	6.07	6.10	6.10	6.10	7.32	7.32	7.32
Kerosene	7.20	8.22	8.22	8.22	9.16	9.16	9.16
Liquefied Petroleum Gas	10.69	9.61	9.62	9.63	11.17	11.19	11.23
Natural Gas	5.62	6.42	6.57	6.82	7.19	7.68	8.42
Steam Coal	2.15	2.33	2.33	2.33	2.74	2.75	2.82
Electricity	23.03	25.22	25.40	25.72	26.51	26.81	27.75
Commercial	12.63	13.66	13.83	14.12	14.67	15.11	15.96
Primary Energy	4.68	5.34	5.47	5.67	6.23	6.64	7.27
Petroleum Products	6.22	6.27	6.27	6.27	7.97	7.97	7.97
Distillate Fuel	5.52	5.06	5.06	5.06	6.28	6.28	6.28
Residual Fuel	2.65	3.22	3.22	3.22	4.35	4.35	4.36
Kerosene	6.95	6.46	6.46	6.46	7.40	7.40	7.40
Other Petroleum ¹	8.47	9.03	9.03	9.03	10.95	10.95	10.96
Natural Gas	4.28	5.12	5.28	5.53	5.90	6.39	7.13
Steam Coal	2.15	2.33	2.33	2.33	2.74	2.75	2.82
Electricity	20.39	21.27	21.45	21.78	21.53	21.88	22.80
Industrial	4.57	4.87	4.97	5.14	6.01	6.32	6.76
Primary Energy	3.92	4.12	4.22	4.36	5.16	5.45	5.84
Petroleum Products	5.71	5.56	5.56	5.56	6.82	6.82	6.83
Distillate Fuel	5.87	5.33	5.33	5.33	6.55	6.55	6.55
Liquefied Petroleum Gas	4.79	4.85	4.86	4.87	6.41	6.43	6.47
Motor Gasoline ²	9.70	10.16	10.16	10.17	11.84	11.84	11.84
Residual Fuel	2.71	3.25	3.25	3.25	4.38	4.38	4.39
Other Petroleum ³	6.37	6.21	6.21	6.21	7.21	7.21	7.21
Natural Gas ⁴	2.14	2.81	2.97	3.21	3.58	4.07	4.82
Metallurgical Coal	.00	.00	.00	.00	.00	.00	.00
Steam Coal	1.73	1.83	1.84	1.84	2.05	2.07	2.09
Electricity	13.56	14.46	14.62	14.94	15.63	15.99	16.82
Transportation	8.23	8.33	8.33	8.33	9.62	9.63	9.63
Primary Energy	8.23	8.33	8.33	8.33	9.62	9.63	9.63
Petroleum Products	8.23	8.33	8.33	8.33	9.62	9.63	9.63
Distillate Fuel ⁵	8.59	9.00	9.00	9.00	10.22	10.22	10.23
Jet Fuel ⁶	5.83	5.08	5.08	5.08	6.34	6.34	6.34
Motor Gasoline ²	9.69	10.16	10.16	10.17	11.84	11.84	11.84
Residual Fuel	3.10	3.45	3.45	3.46	4.36	4.36	4.36
Other Petroleum ⁷	16.31	15.20	15.20	15.21	16.15	16.15	16.16
Natural Gas	3.22	7.54	7.54	7.54	9.21	9.21	9.22
Electricity	18.79	19.87	20.04	20.36	20.62	20.96	21.85
Total End-Use Energy	6.82	7.13	7.23	7.37	8.32	8.59	8.97
Primary Energy	5.36	5.57	5.65	5.76	6.73	6.96	7.26
Electricity	18.78	19.87	20.04	20.36	20.62	20.96	21.85

- See footnotes at end of table.

**Table 142. End-Use Energy Prices by Oil and Gas Recovery Case
Southwest Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Electric Utilities							
Fossil Fuel Average	1.86	2.23	2.29	2.40	2.82	2.83	3.06
Petroleum Products	4.08	4.07	4.07	4.07	5.14	5.14	5.46
Distillate Fuel	5.68	5.20	5.20	5.20	6.42	6.42	6.42
Residual Fuel	3.83	4.07	4.07	4.07	5.14	5.14	5.46
Natural Gas	2.20	2.82	2.98	3.23	3.78	4.17	4.87
Steam Coal	1.61	1.72	1.69	1.69	1.99	1.97	2.05
Average Price to All Users ^a							
Petroleum Products	6.98	6.97	6.97	6.96	8.27	8.28	8.27
Distillate Fuel ⁵	7.62	7.78	7.79	7.79	9.12	9.12	9.13
Jet Fuel ⁶	5.83	5.08	5.08	5.08	6.34	6.34	6.34
Kerosene	7.11	7.72	7.72	7.72	8.57	8.57	8.57
Liquefied Petroleum Gas	5.04	5.00	5.01	5.02	6.52	6.54	6.57
Motor Gasoline ²	9.69	10.16	10.16	10.17	11.84	11.84	11.84
Residual Fuel	3.02	3.46	3.46	3.46	4.41	4.41	4.42
Other Petroleum Products ³	6.58	6.41	6.41	6.41	7.43	7.43	7.43
Natural Gas	2.52	3.16	3.32	3.57	3.96	4.43	5.18
Coal	1.61	1.73	1.70	1.70	1.99	1.98	2.05
Electricity	18.78	19.87	20.04	20.36	20.62	20.96	21.85

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

Table 143. End-Use Energy Prices by Oil and Gas Recovery Case
Central Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential	11.04	11.90	12.04	12.23	13.92	14.46	15.15
Primary Energy	5.42	5.74	5.88	6.09	6.57	7.00	7.68
Petroleum Products	8.57	7.34	7.34	7.35	8.87	8.89	8.92
Distillate Fuel	7.29	6.67	6.67	6.67	7.89	7.89	7.89
Kerosene	8.98	8.50	8.50	8.50	9.44	9.44	9.44
Liquefied Petroleum Gas	8.91	7.43	7.44	7.45	8.99	9.01	9.05
Natural Gas	4.92	5.49	5.65	5.91	6.28	6.78	7.54
Steam Coal	1.74	1.86	1.87	1.86	2.08	2.09	2.11
Electricity	23.00	25.20	25.28	25.33	28.08	28.47	28.80
Commercial	10.43	10.83	10.96	11.18	11.92	12.51	13.22
Primary Energy	4.19	4.79	4.93	5.16	5.62	6.08	6.77
Petroleum Products	6.52	6.90	6.90	6.90	8.60	8.60	8.61
Distillate Fuel	5.58	5.10	5.10	5.10	6.32	6.32	6.33
Residual Fuel	2.53	3.33	3.33	3.34	4.46	4.46	4.47
Kerosene	6.63	6.30	6.30	6.30	7.24	7.24	7.24
Other Petroleum ¹	7.65	8.91	8.92	8.92	10.72	10.73	10.75
Natural Gas	3.98	4.62	4.78	5.03	5.41	5.90	6.66
Steam Coal	1.74	1.86	1.87	1.86	2.08	2.09	2.11
Electricity	20.81	20.22	20.29	20.42	20.64	21.17	21.68
Industrial	5.74	6.35	6.44	6.55	7.32	7.58	7.93
Primary Energy	4.24	4.85	4.93	5.04	5.76	5.99	6.31
Petroleum Products	5.83	6.42	6.42	6.42	7.68	7.68	7.70
Distillate Fuel	6.07	5.48	5.48	5.48	6.70	6.70	6.70
Liquefied Petroleum Gas	4.75	7.37	7.38	7.40	8.94	8.95	8.99
Motor Gasoline ²	9.59	9.98	9.98	9.99	11.66	11.66	11.66
Residual Fuel	2.54	3.27	3.28	3.28	4.41	4.41	4.42
Other Petroleum ³	5.79	6.16	6.16	6.16	7.14	7.14	7.14
Natural Gas ⁴	3.15	3.86	4.02	4.28	4.65	5.15	5.91
Metallurgical Coal	-	.00	.00	.00	.00	.00	.00
Steam Coal	-	1.42	1.43	1.43	1.57	1.59	1.60
Electricity	14.16	14.36	14.43	14.55	14.91	15.21	15.63
Transportation	9.15	9.36	9.36	9.36	10.82	10.83	10.83
Primary Energy	9.15	9.36	9.36	9.36	10.82	10.83	10.83
Petroleum Products	9.15	9.36	9.36	9.36	10.83	10.83	10.83
Distillate Fuel ⁵	8.67	8.89	8.89	8.89	10.11	10.11	10.11
Jet Fuel ⁶	6.02	5.35	5.35	5.35	6.60	6.60	6.60
Motor Gasoline ²	9.55	9.94	9.94	9.94	11.61	11.62	11.62
Residual Fuel	1.54	2.57	2.57	2.57	3.47	3.47	3.47
Other Petroleum ⁷	16.71	15.97	15.97	15.97	16.93	16.93	16.94
Natural Gas	.00	7.53	7.53	7.53	9.20	9.20	9.20
Electricity	19.57	19.95	20.02	20.12	21.01	21.42	21.85
Total End-Use Energy	8.59	8.95	9.02	9.13	10.18	10.45	10.78
Primary Energy	6.57	6.84	6.91	7.01	7.96	8.16	8.44
Electricity	19.57	19.95	20.02	20.12	21.01	21.42	21.85

- See footnotes at end of table.

**Table 143. End-Use Energy Prices by Oil and Gas Recovery Case
Central Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Electric Utilities							
Fossil Fuel Average	1.39	1.70	1.72	1.76	1.96	2.00	2.09
Petroleum Products	4.43	5.14	5.14	4.18	6.40	5.45	5.49
Distillate Fuel	5.66	5.20	5.20	5.20	6.42	6.42	6.42
Residual Fuel	2.67	3.94	3.95	3.95	5.07	5.07	5.08
Natural Gas	1.89	2.82	2.98	3.23	3.75	4.20	4.92
Steam Coal	1.36	1.49	1.50	1.50	1.63	1.65	1.68
Average Price to All Users ⁸							
Petroleum Products	8.27	8.43	8.43	8.38	9.84	9.82	9.81
Distillate Fuel ⁵	7.85	7.71	7.71	7.72	9.02	9.03	9.02
Jet Fuel ⁶	6.02	5.35	5.35	5.35	6.60	6.60	6.60
Kerosene	8.54	8.26	8.26	8.26	9.17	9.17	9.17
Liquefied Petroleum Gas	6.46	7.42	7.43	7.44	8.97	8.99	9.03
Motor Gasoline ²	9.55	9.94	9.94	9.95	11.62	11.62	11.62
Residual Fuel	2.52	3.27	3.27	3.71	4.37	4.69	4.72
Other Petroleum Products ³	6.68	6.98	6.98	6.98	7.99	7.99	7.99
Natural Gas	3.91	4.28	4.44	4.72	5.05	5.57	6.34
Coal	1.36	1.49	1.49	1.49	1.62	1.64	1.67
Electricity	19.57	19.95	20.02	20.12	21.01	21.42	21.85

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

Table 144. End-Use Energy Prices by Oil and Gas Recovery Case
North Central Region
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential	10.14	11.41	11.54	11.70	12.92	13.40	14.04
Primary Energy	5.21	5.70	5.84	6.06	6.46	6.90	7.58
Petroleum Products	7.96	7.34	7.34	7.35	8.78	8.79	8.81
Distillate Fuel	7.18	6.69	6.69	6.69	7.91	7.91	7.91
Kerosene	11.08	9.15	9.15	9.15	10.09	10.09	10.09
Liquefied Petroleum Gas	8.51	7.76	7.77	7.78	9.32	9.34	9.38
Natural Gas	4.82	5.57	5.73	5.97	6.35	6.83	7.58
Steam Coal	1.42	1.52	1.52	1.52	1.74	1.74	1.76
Electricity	23.82	24.81	24.82	24.75	25.91	26.16	26.38
Commercial	10.47	10.35	10.44	10.61	10.83	11.24	11.83
Primary Energy	4.30	4.96	5.09	5.30	5.81	6.24	6.90
Petroleum Products	5.71	5.85	5.86	5.86	7.43	7.43	7.44
Distillate Fuel	5.84	5.33	5.33	5.33	6.55	6.55	6.55
Residual Fuel	2.83	3.07	3.07	3.07	4.20	4.20	4.21
Kerosene	7.37	6.50	6.50	6.50	7.44	7.44	7.44
Other Petroleum ¹	8.69	9.24	9.25	9.25	11.13	11.14	11.15
Natural Gas	4.18	4.95	5.11	5.36	5.73	6.21	6.97
Steam Coal	1.42	1.52	1.52	1.52	1.74	1.74	1.76
Electricity	21.12	19.32	19.33	19.39	18.69	18.95	19.29
Industrial	5.00	5.15	5.20	5.28	6.02	6.21	6.47
Primary Energy	3.48	3.84	3.89	3.97	4.59	4.75	4.99
Petroleum Products	5.39	5.66	5.66	5.65	6.89	6.89	6.89
Distillate Fuel	6.33	5.70	5.70	5.70	6.92	6.92	6.92
Liquefied Petroleum Gas	7.55	7.89	7.90	7.91	9.45	9.47	9.51
Motor Gasoline ²	10.26	10.57	10.57	10.57	12.24	12.24	12.24
Residual Fuel	3.58	3.34	3.35	3.35	4.47	4.48	4.48
Other Petroleum ³	4.03	4.72	4.72	4.72	5.67	5.67	5.67
Natural Gas ⁴	3.21	3.84	4.00	4.25	4.62	5.11	5.86
Metallurgical Coal	1.93	2.07	2.07	2.07	2.21	2.21	2.21
Steam Coal	-	1.05	1.05	1.05	1.17	1.17	1.18
Electricity	13.96	13.05	13.06	13.10	13.52	13.79	14.16
Transportation	9.36	9.47	9.47	9.48	10.89	10.91	10.91
Primary Energy	9.36	9.47	9.47	9.48	10.89	10.91	10.91
Petroleum Products	9.36	9.48	9.48	9.48	10.93	10.94	10.94
Distillate Fuel ⁵	9.17	9.32	9.32	9.32	10.54	10.54	10.55
Jet Fuel ⁶	6.02	5.43	5.43	5.43	6.69	6.69	6.69
Motor Gasoline ²	9.94	10.32	10.32	10.32	11.99	11.99	11.99
Residual Fuel	3.73	3.34	3.34	3.34	4.25	4.25	4.25
Other Petroleum ⁷	16.05	15.25	15.25	15.25	16.21	16.21	16.21
Natural Gas	3.78	7.67	7.67	7.67	9.34	9.34	9.34
Electricity	19.28	18.61	18.62	18.64	18.76	19.03	19.37
Total End-Use Energy	8.04	8.23	8.28	8.35	9.32	9.52	9.78
Primary Energy	6.15	6.44	6.49	6.57	7.56	7.72	7.96
Electricity	19.28	18.61	18.62	18.64	18.76	19.03	19.37

- See footnotes at end of table.

Table 144. End-Use Energy Prices by Oil and Gas Recovery Case
North Central Region (Continued)
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Electric Utilities							
Fossil Fuel Average	0.94	1.04	1.04	1.04	1.47	1.53	1.63
Petroleum Products	4.74	5.23	5.23	5.23	6.49	6.49	6.49
Distillate Fuel	5.69	5.34	5.34	5.34	6.56	6.56	6.56
Residual Fuel	4.54	4.01	4.01	4.00	5.14	5.12	5.13
Natural Gas	2.53	3.16	3.32	3.57	4.25	4.74	5.41
Steam Coal	.93	.95	.95	.95	1.04	1.05	1.06
Average Price to All Users ⁸							
Petroleum Products	8.17	8.29	8.30	8.29	9.71	9.72	9.72
Distillate Fuel ⁵	7.92	7.66	7.67	7.67	8.92	8.92	8.94
Jet Fuel ⁶	6.02	5.43	5.43	5.43	6.69	6.69	6.69
Kerosene	10.90	9.10	9.10	9.10	10.05	10.05	10.05
Liquefied Petroleum Gas	7.99	7.83	7.84	7.85	9.41	9.43	9.47
Motor Gasoline ²	9.95	10.33	10.33	10.33	12.00	12.00	12.00
Residual Fuel	3.31	3.32	3.33	3.33	4.48	4.48	4.48
Other Petroleum Products ³	4.86	5.54	5.54	5.54	6.60	6.60	6.60
Natural Gas	4.09	4.65	4.81	5.06	5.33	5.76	6.46
Coal	-	.98	.97	.98	1.07	1.08	1.09
Electricity	19.28	18.61	18.62	18.64	18.76	19.03	19.37

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGE093.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 145. End-Use Energy Prices by Oil and Gas Recovery Case
West Region
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential	11.35	12.26	12.43	12.68	13.04	13.58	14.35
Primary Energy	6.18	6.86	7.02	7.28	7.62	8.12	8.89
Petroleum Products	11.88	12.16	12.17	12.18	13.42	13.43	13.46
Distillate Fuel	7.84	7.38	7.38	7.38	8.60	8.60	8.60
Kerosene	17.31	15.12	15.12	15.12	16.06	16.06	16.06
Liquefied Petroleum Gas	12.27	12.80	12.81	12.82	14.36	14.38	14.42
Natural Gas	5.87	6.67	6.84	7.10	7.48	7.99	8.77
Steam Coal	1.41	1.52	1.52	1.61	1.71	1.72	1.75
Electricity	21.73	20.96	21.11	21.28	20.51	20.90	21.46
Commercial	13.77	13.65	13.80	14.04	13.86	14.33	15.03
Primary Energy	5.38	5.89	6.04	6.26	6.76	7.22	7.91
Petroleum Products	6.69	6.76	6.76	6.77	8.38	8.38	8.39
Distillate Fuel	5.59	5.19	5.19	5.19	6.41	6.41	6.41
Residual Fuel	3.82	3.80	3.80	3.81	4.93	4.93	4.94
Kerosene	6.88	6.50	6.50	6.50	7.44	7.44	7.44
Other Petroleum ¹	10.01	10.71	10.71	10.72	12.39	12.39	12.40
Natural Gas	5.13	5.76	5.92	6.18	6.57	7.07	7.86
Steam Coal	1.41	1.52	1.52	1.61	1.71	1.72	1.75
Electricity	21.94	20.94	21.09	21.31	20.17	20.55	21.15
Industrial	7.30	7.63	7.73	7.86	8.68	8.97	9.38
Primary Energy	4.97	5.55	5.64	5.75	6.50	6.74	7.10
Petroleum Products	6.10	6.88	6.89	6.87	8.04	8.04	8.02
Distillate Fuel	5.82	5.51	5.51	5.51	6.73	6.73	6.73
Liquefied Petroleum Gas	10.26	10.37	10.38	10.39	11.93	11.95	11.99
Motor Gasoline ²	9.85	10.82	10.82	10.82	12.49	12.49	12.49
Residual Fuel	3.58	3.54	3.54	3.54	4.67	4.67	4.68
Other Petroleum ³	5.61	6.85	6.85	6.85	7.79	7.79	7.79
Natural Gas ⁴	3.93	4.63	4.79	5.05	5.44	5.94	6.72
Metallurgical Coal	.00	.00	.00	.00	.00	.00	.00
Steam Coal	-	1.71	1.71	1.71	1.99	2.00	2.03
Electricity	18.63	18.30	18.44	18.66	18.08	18.47	19.06
Transportation	8.39	8.76	8.77	8.77	10.08	10.10	10.10
Primary Energy	8.39	8.76	8.76	8.76	10.06	10.08	10.08
Petroleum Products	8.39	8.76	8.76	8.76	10.07	10.08	10.09
Distillate Fuel ⁵	9.34	9.93	9.93	9.93	11.15	11.15	11.16
Jet Fuel ⁶	6.16	5.44	5.45	5.45	6.70	6.70	6.70
Motor Gasoline ²	9.83	10.79	10.79	10.79	12.46	12.46	12.46
Residual Fuel	3.73	3.58	3.58	3.58	4.49	4.48	4.48
Other Petroleum ⁷	15.49	14.89	14.89	14.90	15.88	15.89	15.89
Natural Gas	4.86	7.98	7.99	7.99	9.66	9.66	9.66
Electricity	13.01	12.31	12.45	12.66	11.92	12.30	12.90
Total End-Use Energy	9.12	9.44	9.51	9.59	10.51	10.70	10.96
Primary Energy	7.17	7.62	7.67	7.74	8.83	8.98	9.17
Electricity	20.91	20.16	20.31	20.51	19.42	19.84	20.43

- See footnotes at end of table.

**Table 145. End-Use Energy Prices by Oil and Gas Recovery Case
West Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Electric Utilities							
Fossil Fuel Average	2.62	2.94	3.03	3.16	3.36	3.59	3.96
Petroleum Products	4.48	4.68	4.69	4.70	5.85	5.86	5.94
Distillate Fuel	5.54	5.53	5.53	5.53	6.75	6.75	6.76
Residual Fuel	4.31	4.68	4.68	4.69	5.84	5.84	5.85
Natural Gas	3.05	3.49	3.66	3.92	4.32	4.81	5.58
Steam Coal	1.64	1.69	1.70	1.69	1.85	1.88	1.90
Average Price to All Users ^a							
Petroleum Products	7.89	8.34	8.34	8.34	9.64	9.65	9.62
Distillate Fuel ⁵	8.33	8.90	8.91	8.90	10.23	10.23	10.16
Jet Fuel ⁶	6.16	5.44	5.45	5.45	6.70	6.70	6.70
Kerosene	16.82	14.98	14.98	14.98	15.94	15.94	15.94
Liquefied Petroleum Gas	10.82	10.76	10.76	10.78	12.17	12.19	12.23
Motor Gasoline ²	9.83	10.79	10.79	10.79	12.46	12.46	12.46
Residual Fuel	3.86	3.82	3.82	3.82	4.78	4.79	4.81
Other Petroleum Products ³	6.20	7.39	7.39	7.39	8.41	8.41	8.41
Natural Gas	4.47	4.97	5.13	5.38	5.86	6.31	7.08
Coal	-	1.69	1.70	1.69	1.86	1.89	1.91
Electricity	20.91	20.16	20.31	20.51	19.42	19.84	20.43

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

**Table 146. End-Use Energy Prices by Oil and Gas Recovery Case
Northwest Region
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential	11.06	14.17	14.24	14.41	15.10	15.36	15.67
Primary Energy	6.28	6.44	6.52	6.63	6.99	7.21	7.53
Petroleum Products	8.50	7.89	7.89	7.89	8.99	8.99	8.99
Distillate Fuel	7.79	7.44	7.44	7.44	8.66	8.66	8.66
Kerosene	10.74	10.50	10.50	10.50	11.44	11.44	11.44
Liquefied Petroleum Gas	13.32	12.41	12.42	12.43	13.97	13.99	14.03
Natural Gas	5.18	5.91	6.03	6.21	6.31	6.63	7.11
Steam Coal	2.11	2.30	2.30	2.30	2.36	2.36	2.40
Electricity	14.48	18.69	18.75	18.92	19.18	19.39	19.61
Commercial	8.99	10.38	10.47	10.63	11.12	11.41	11.77
Primary Energy	4.34	5.01	5.10	5.24	5.72	6.01	6.45
Petroleum Products	5.70	5.91	5.91	5.92	7.46	7.46	7.47
Distillate Fuel	5.77	5.45	5.45	5.45	6.67	6.67	6.67
Residual Fuel	3.11	3.51	3.51	3.52	4.64	4.64	4.65
Kerosene	6.44	7.11	7.11	7.11	8.05	8.05	8.05
Other Petroleum ¹	10.28	10.70	10.70	10.71	12.37	12.37	12.38
Natural Gas	3.96	4.85	4.97	5.17	5.42	5.78	6.33
Steam Coal	2.11	2.30	2.30	2.30	2.36	2.36	2.40
Electricity	14.04	15.99	16.06	16.23	16.53	16.75	16.94
Industrial	5.00	5.66	5.74	5.86	6.64	6.87	7.17
Primary Energy	3.53	4.12	4.20	4.30	4.93	5.15	5.46
Petroleum Products	4.82	5.30	5.31	5.28	6.47	6.48	6.45
Distillate Fuel	5.65	5.56	5.56	5.56	6.78	6.78	6.78
Liquefied Petroleum Gas	10.33	10.37	10.38	10.39	11.93	11.95	11.99
Motor Gasoline ²	10.09	10.71	10.71	10.71	12.38	12.38	12.38
Residual Fuel	3.03	3.44	3.44	3.45	4.57	4.57	4.58
Other Petroleum ³	4.07	4.71	4.71	4.71	5.65	5.65	5.65
Natural Gas ⁴	2.38	3.36	3.48	3.67	3.94	4.30	4.85
Metallurgical Coal	.00	.00	.00	.00	.00	.00	.00
Steam Coal	-	1.42	1.42	1.42	1.56	1.57	1.57
Electricity	9.02	10.60	10.66	10.84	11.28	11.49	11.76
Transportation	8.31	8.27	8.27	8.27	9.42	9.43	9.43
Primary Energy	8.31	8.27	8.27	8.27	9.41	9.42	9.43
Petroleum Products	6.31	8.27	8.27	8.27	9.41	9.42	9.43
Distillate Fuel ⁵	9.20	9.61	9.62	9.62	10.83	10.83	10.84
Jet Fuel ⁶	6.26	5.53	5.53	5.53	6.78	6.78	6.78
Motor Gasoline ²	10.08	10.50	10.50	10.50	12.17	12.17	12.17
Residual Fuel	2.62	3.19	3.19	3.19	4.10	4.10	4.10
Other Petroleum ⁷	15.17	14.66	14.66	14.66	15.66	15.67	15.67
Natural Gas	4.07	7.68	7.68	7.68	9.35	9.35	9.36
Electricity	12.31	14.88	14.94	15.12	15.34	15.56	15.81
Total End-Use Energy	7.72	8.32	8.37	8.45	9.34	9.49	9.66
Primary Energy	6.46	6.60	6.64	6.69	7.69	7.81	7.96
Electricity	12.31	14.88	14.94	15.12	15.32	15.54	15.79

- See footnotes at end of table.

**Table 146. End-Use Energy Prices by Oil and Gas Recovery Case
Northwest Region (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Electric Utilities							
Fossil Fuel Average	1.57	2.60	2.67	2.68	2.48	2.68	2.94
Petroleum Products	4.81	5.10	5.10	5.10	6.32	6.32	6.33
Distillate Fuel	4.82	5.10	5.10	5.10	6.32	6.32	6.33
Residual Fuel	4.54	3.48	3.48	3.49	4.50	4.50	4.51
Natural Gas	1.41	2.42	2.60	2.77	3.37	3.80	4.60
Steam Coal	1.40	1.43	1.43	1.43	1.61	1.61	1.62
Average Price to All Users ^a							
Petroleum Products	7.57	7.56	7.56	7.56	8.81	8.80	8.80
Distillate Fuel ⁵	8.03	7.94	7.94	7.98	9.42	9.34	9.36
Jet Fuel ⁶	6.26	5.53	5.53	5.53	6.78	6.78	6.78
Kerosene	7.17	8.38	8.38	8.38	9.47	9.47	9.47
Liquefied Petroleum Gas	11.15	10.68	10.69	10.70	12.12	12.14	12.18
Motor Gasoline ²	10.08	10.50	10.50	10.51	12.18	12.18	12.18
Residual Fuel	2.71	3.26	3.26	3.26	4.19	4.19	4.20
Other Petroleum Products ³	4.92	5.57	5.57	5.57	6.64	6.64	6.64
Natural Gas	3.08	3.77	3.90	4.10	4.52	4.84	5.41
Coal	-	1.49	1.49	1.49	1.62	1.62	1.64
Electricity	12.31	14.88	14.94	15.12	15.32	15.54	15.79

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

^a Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGO93.D0918923.

Table 147. End-Use Energy Prices by Oil and Gas Recovery Case
United States
(1991 Dollars per Million Btu)

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Residential	12.39	13.29	13.43	13.63	14.58	15.02	15.65
Primary Energy	6.48	6.90	7.04	7.25	7.68	8.11	8.76
Petroleum Products	9.04	8.68	8.69	8.69	10.17	10.16	10.16
Distillate Fuel	8.08	7.76	7.76	7.76	8.98	8.98	8.99
Kerosene	9.14	8.98	8.98	8.98	9.85	9.85	9.85
Liquefied Petroleum Gas	11.20	10.33	10.34	10.35	11.93	11.95	11.99
Natural Gas	5.82	6.55	6.71	6.97	7.33	7.83	8.59
Steam Coal	1.99	2.24	2.27	2.24	2.60	2.60	2.63
Electricity	23.34	24.09	24.18	24.30	24.28	24.50	24.89
Commercial	12.40	12.87	12.99	13.19	13.49	13.88	14.48
Primary Energy	5.06	5.68	5.80	6.00	6.60	6.99	7.60
Petroleum Products	6.04	6.16	6.17	6.17	7.68	7.68	7.68
Distillate Fuel	5.94	5.59	5.59	5.59	6.83	6.83	6.83
Residual Fuel	3.57	3.87	3.87	3.88	5.00	5.00	5.01
Kerosene	6.96	6.64	6.64	6.64	7.58	7.58	7.58
Other Petroleum ¹	9.69	10.09	10.09	10.10	11.81	11.82	11.83
Natural Gas	4.84	5.62	5.78	6.03	6.41	6.91	7.67
Steam Coal	1.96	2.21	2.23	2.21	2.56	2.56	2.59
Electricity	22.04	21.66	21.76	21.92	20.95	21.21	21.69
Industrial	5.73	6.20	6.29	6.42	7.25	7.51	7.87
Primary Energy	4.14	4.53	4.61	4.72	5.47	5.70	6.03
Petroleum Products	6.01	6.17	6.17	6.17	7.37	7.37	7.38
Distillate Fuel	5.94	5.53	5.53	5.53	6.75	6.75	6.75
Liquefied Petroleum Gas	5.95	6.20	6.20	6.21	7.76	7.77	7.80
Motor Gasoline ²	9.87	10.37	10.37	10.38	12.05	12.05	12.05
Residual Fuel	3.13	3.57	3.57	3.57	4.70	4.70	4.71
Other Petroleum ³	6.14	6.40	6.40	6.40	7.37	7.37	7.37
Natural Gas ⁴	2.95	3.68	3.84	4.09	4.46	4.95	5.71
Metallurgical Coal	1.82	2.10	2.11	2.10	2.46	2.49	2.52
Steam Coal	1.48	1.67	1.67	1.67	1.93	1.94	1.96
Electricity	14.74	15.12	15.21	15.36	15.55	15.80	16.20
Transportation	8.92	9.14	9.14	9.15	10.51	10.52	10.52
Primary Energy	8.91	9.13	9.13	9.13	10.48	10.50	10.50
Petroleum Products	8.91	9.13	9.13	9.14	10.49	10.50	10.50
Distillate Fuel ⁵	8.98	9.32	9.32	9.32	10.54	10.54	10.54
Jet Fuel ⁶	6.00	5.31	5.31	5.31	6.57	6.56	6.56
Motor Gasoline ²	9.86	10.41	10.41	10.41	12.08	12.08	12.08
Residual Fuel	3.22	3.43	3.43	3.43	4.34	4.34	4.34
Other Petroleum ⁷	16.49	15.58	15.59	15.59	16.54	16.54	16.55
Natural Gas	4.50	7.95	7.96	7.96	9.61	9.61	9.61
Electricity	23.74	21.77	22.02	22.17	18.41	18.95	19.59
Total End-Use Energy	8.68	9.05	9.12	9.22	10.15	10.36	10.65
Primary Energy	6.58	6.91	6.97	7.05	8.08	8.26	8.50
Electricity	19.94	20.09	20.18	20.32	19.93	20.19	20.62

- See footnotes at end of table.

**Table 147. End-Use Energy Prices by Oil and Gas Recovery Case
United States (Continued)
(1991 Dollars per Million Btu)**

Sector and Source	1990	Projections					
		2000			2010		
		High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery	High Oil and Gas Recovery	Reference Case	Low Oil and Gas Recovery
Electric Utilities							
Fossil Fuel Average	1.71	2.06	2.10	2.13	2.57	2.64	2.71
Petroleum Products	3.61	4.05	4.05	4.03	5.36	5.36	5.40
Distillate Fuel	5.57	5.16	5.16	5.16	6.41	6.40	6.44
Residual Fuel	3.46	3.90	3.91	3.90	5.24	5.24	5.26
Natural Gas	2.38	3.02	3.18	3.42	4.02	4.47	5.12
Steam Coal	1.45	1.64	1.64	1.64	1.88	1.89	1.92
Average Price to All Users ⁸							
Petroleum Products	7.93	8.12	8.12	8.11	9.45	9.46	9.45
Distillate Fuel ⁵	8.03	8.11	8.11	8.11	9.45	9.45	9.44
Jet Fuel ⁶	6.00	5.31	5.31	5.31	6.57	6.56	6.56
Kerosene	8.80	8.61	8.61	8.61	9.30	9.30	9.30
Liquefied Petroleum Gas	7.02	6.89	6.89	6.89	8.31	8.31	8.32
Motor Gasoline ²	9.86	10.41	10.41	10.41	12.08	12.08	12.08
Residual Fuel	3.33	3.67	3.67	3.67	4.79	4.79	4.80
Other Petroleum Products ³	6.62	6.85	6.85	6.85	7.87	7.87	7.87
Natural Gas	3.90	4.47	4.63	4.89	5.24	5.73	6.50
Coal	1.48	1.67	1.67	1.67	1.91	1.92	1.95
Electricity	19.94	20.09	20.18	20.32	19.93	20.19	20.62

¹ Average price for liquefied petroleum gas, motor gasoline, and miscellaneous petroleum products.

² Average price for all grades. Includes Federal and State taxes and excludes county and local taxes.

³ Average price for petrochemical feedstocks and miscellaneous petroleum products.

⁴ Excludes uses for lease and plant fuel.

⁵ Includes Federal and State taxes on diesel fuel and excludes county and local taxes.

⁶ Kerosene-type jet fuel.

⁷ Average price for liquefied petroleum gas and miscellaneous petroleum products.

⁸ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption. For each sector, electricity and natural gas prices are derived by dividing total revenues by sales.

Sources: 1990 prices for gasoline, distillate, jet fuel, residual fuel, liquefied petroleum gas, and kerosene are based on data from the Energy Information Administration, *Petroleum Marketing Monthly*, DOE/EIA-0380 (Washington, DC, January 1990 through December 1990). 1990 prices for all other petroleum products are derived from the Energy Information Administration, *State Energy Price and Expenditures Report: 1989*, DOE/EIA-0376(89) (Washington, DC, September 1991), applying the growth rate of the world oil price. 1990 prices for natural gas, coal, and electricity come from the model, and may differ from tables that use other sources for 1990 data. Projections: Energy Information Administration, AEO 1993 Forecasting System Runs: High Oil and Gas Recovery -- HGEO93.D0916924, Reference Case -- AEO93B.D0918921, Low Oil and Gas Recovery -- LGEO93.D0918923.

Appendix Regional Maps

Figure 1. Federal Regions

Region 1
New England

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

Region 2
**New York/
New Jersey**

New Jersey
New York

Region 3
Mid-Atlantic

Delaware
District of Columbia
Maryland
Pennsylvania
Virginia
West Virginia

Region 4
South Atlantic

Alabama
Florida
Georgia
Kentucky
Mississippi
North Carolina
South Carolina
Tennessee

Region 5
Midwest

Illinois
Indiana
Michigan
Minnesota
Ohio
Wisconsin

Region 6
Southwest

Arkansas
Louisiana
New Mexico
Oklahoma
Texas

Region 7
Central

Iowa
Kansas
Missouri
Nebraska

Region 8
North Central

Colorado
Montana
North Dakota
South Dakota
Utah
Wyoming

Region 9
West

Arizona
California
Hawaii
Nevada

Region 10
Northwest

Alaska
Idaho
Oregon
Washington

Figure 2. U.S. Coal-Producing Regions

Supply Region Definitions

Northern Appalachia

Pennsylvania
 Ohio
 Maryland
 West Virginia, north

Illinois Basin

Illinois
 Indiana
 Kentucky, west

Northern Great Plains

North Dakota
 South Dakota
 Montana
 Wyoming
 Colorado, south

Central Appalachia

West Virginia, south
 Virginia
 Kentucky, east
 Tennessee

West Interior

Iowa
 Missouri
 Kansas
 Arkansas
 Oklahoma
 Texas
 Louisiana

Rocky Mountains and Southwest

Colorado, south
 Utah
 Arizona
 New Mexico

Southern Appalachia

Alabama

Northwest

Washington
 Alaska

Figure 3. Nuclear Plant Sites in the U.S. as of December 31, 1992

Figure 4. Lower 48 States Oil and Gas Supply Regions

END

**DATE
FILMED**

6 / 2 / 93