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EIA Publications Directory 1993

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Energy Information Administration
National Energy Information Center
U.S. Department of Energy
Washington, DC 20585

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Preface

Enacted in 1977, the Department of Energy (DOE) Organization Act established the Energy Information Administration (EIA) as the Department's independent statistical and analytical agency, with a mandate to collect and publish data and prepare analyses on energy production, consumption, prices, resources, and projections of energy supply and demand. This edition of the *EIA Publications Directory* contains titles and abstracts of periodicals and one-time reports produced by EIA from January through December 1993.

The body of the *Directory* contains citations and abstracts arranged by broad subject categories, such as coal, petroleum, and natural gas and subcategories, such as reserves, products and byproducts, and marketing and economics. All reports are indexed alphabetically by subject and title and numerically by report number.

Questions concerning publications in the *Directory* should be directed to the National Energy Information Center (NEIC) at (202) 586-8800.

Comments on the *Directory* itself should be directed to Paula Altman of NEIC.

How to Use the *EIA Publications Directory*

Availability. This directory contains abstracts and ordering information for individual issues of semiannual, annual, biennial, and triennial Energy Information Administration (EIA) periodicals, analysis reports, service reports, and model documentations. (Service reports are prepared by EIA upon special request and may be based on assumptions specified by the requestor.) Most publications are available from the National Technical Information Service (NTIS), U.S. Department of Commerce. Order numbers, indicated by a "DE" prefix, and price codes are given. If there is no order number beginning with "DE," use the DOE/EIA number when placing your order. The price codes are interpreted on page 50. The NTIS telephone number and an order form are on page 53.

Most publications are available in paper copy. If, however, a paper copy code is not available, the publication is obtainable in microfiche only. All publications on microfiche listed as available from NTIS are available at the same price as the paper copy.

Periodicals produced more frequently than semiannually -- quarterlies, monthlies, and weeklies -- are listed as single titles. Individual issues are not listed, and no ordering information is given. If the periodical is current, it is available by subscription from the U.S. Government Printing Office (GPO). Some recent individual issues are also available from GPO. Most back issues of current and discontinued periodicals are available from NTIS. For ordering information regarding these periodicals, call NTIS directly. Annual and one-time reports which are available from GPO are indicated with a GPO stock number and price. A GPO order form can be found on page 51. Publications not available from NTIS are available from NEIC. An NEIC order form is on page 55.

Abstracts. Abstracts are arranged by abstract number within subject categories as listed in the table of contents. The principal elements of an abstract entry are illustrated below.

ABSTRACT

Abstract
number

Title

42 Annual Energy Review 1992

The *Annual Energy Review* presents historical energy data summaries (total U.S. consumption, imports, and exports) as well as complete data coverage of the principal energy commodities. Additionally, price, inventory, and resource reserve information are provided by fuel. Most of the data series are from 1949 forward. Key international data series for major energy sources and activities are also included. Publication began with the 1982 edition.

Report
number

Frequency

NTIS
ordering
information

(DOE/EIA-0384(92) (Annual) Jun 1993 374pp. NTIS Stock Number: DE93016832
NTIS Price Code: A16 GPO Stock Number: 061-003-00810-1 GPO Price: \$23.00

GPO
ordering
information

Indices. The directory has three indices: the subject index, the report number index, and the title index. Each index entry contains an abstract number which refers the reader to the abstract.

Subject Index. The subject index is arranged alphabetically by specific energy terminology. Each entry includes the document title, abstract number, and report number. First-level index terms used in the subject index are listed in the table of contents for easy reference.

Report Number Index. The report number index is arranged alpha-numerically by the DOE/EIA number. The index begins with the report number, followed by the title, date, number of pages, NTIS stock number, if available, and the abstract number.

Title Index. The title index provides an alphabetical title approach to the publications and includes the report number and the abstract number.

SUBJECT INDEX

Bituminous Coal

Weekly Coal Production, 10 (DOE/EIA-0218)

Exports

Quarterly Coal Report, 9 (DOE/EIA-0121)

REPORT NUMBER INDEX

(DOE/EIA-0436(93)) *World Nuclear Capacity and Fuel Cycle Requirements 1993* Nov 1993. 176pp. NTIS DE94003847 37

TITLE INDEX

State Energy Data Report 1991 Consumption Estimates (DOE/EIA-0214(91)) 40

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Abstracts

00 EIA Programs and Products

provided. News about EIA and other items of interest to users of EIA publications are also included. Publication began October 1979.

(DOE/EIA-0204) (Bimonthly) Available: NEIC

1 *EIA Publications Directory 1992*

This directory contains abstracts and ordering information for EIA publications released in the above time period. The abstracts are arranged by broad subject category such as coal, petroleum, natural gas, and electric power. A comprehensive subject index, a title index, and a report number index are included. Each entry gives the title, report number, publication frequency, date, number of pages, and ordering information. Publication began with the 1979 edition.

(DOE/EIA-0149(92)) (Annual) Jun 1993 60pp.
NTIS Stock Number: DE93016833 NTIS Price
Code: A04

2 *Annual Report to Congress 1992*

The *Annual Report to Congress* discusses accomplishments of EIA and describes the functions and responsibilities of EIA. Active models and data collection surveys are described in the appendices along with a listing of publications and periodicals published during the year. Publication began with the 1977 edition.

(DOE/EIA-0173(92)) (Annual) Mar 1993 72pp.
NTIS Stock Number: DE94008255 NTIS Price
Code: A04

3 *EIA New Releases*

The latest available EIA publications and upcoming reports are listed and described in this bimonthly publication. Availability and ordering information are

4 *Directory of Energy Data Collection Forms*

(DOE/EIA-0249(92)) (Annual) Jan 1993 72pp.
NTIS Stock Number: DE93005985 NTIS Price
Code: A04

4 *Directory of Energy Data Collection Forms*

This directory contains abstracts of forms used by EIA to collect energy data. Each entry contains an abstract of the form, the energy source(s) and function(s) covered by the form, identification of group(s) responding to the form, report requirements, the legislative mandate under which the data in these forms were collected, and the frequency with which they were collected. The names and numbers of previous publications, of current publications resulting from the forms, and of parent reporting systems are also indicated. Detailed appendices are included, and Appendix E lists Collection Authorities, i.e., Public Laws and Code of Federal Regulations citations. Publication began November 1980.

(DOE/EIA-0249(93)) (Annual) Dec 1993 72pp.
NTIS Stock Number: DE94008253 NTIS Price
Code: A04

5 *Directory of Energy Information Administration Models 1993*

Abstracts of EIA models are presented. The main body is an alphabetical listing of all basic and auxiliary models. Brief statements regarding each model's title, acronym, purpose, and status are

given, followed by more detailed information on characteristics, cases, and requirements. Sources for additional information are identified. Publication began with the 1985 edition.

(DOE/EIA-0293(93)) (Annual) Jul 1993 104pp.
NTIS Stock Number: DE93016987 NTIS Price
Code: A07

6 Energy Education Resources

A compilation of sources of free or low-cost energy-related educational materials geared for primary and secondary students and educators. It contains names, addresses, and telephone numbers of the publishers, and a brief description of the coverage.

(DOE/EIA-0546(92)) (Annual) Jan 1993 32pp.
NTIS Stock Number: DE94008248 NTIS Price
Code: A03

7 EIA Directory of Electronic Products

The *EIA Directory of Electronic Products* is a free, quarterly directory which lists and describes machine-readable data files and computer models. The data files and models are available on magnetic tapes. Selected data files/models are available on diskette for IBM compatible personal computers. For each product listed in this directory, a detailed abstract is provided which describes the data published.

(DOE/EIA-0569) (Quarterly) Available: NEIC

01 Coal and Coal Products

8 Coal Production 1992

Current annual U.S. coal production and related data are reported with similar data for the previous year given for comparison. The data were collected on Form EIA-7A, "Coal Production Report," from U.S. mines that produced, processed, or prepared 10,000 or more short tons of coal. Among the items covered are production, number of mines, prices,

employment, productivity, stocks, and recoverable reserves. Some data are reported by State, county, type of mining, and type of coal (anthracite, bituminous, subbituminous, and lignite). Also included are a glossary of coal terms used, and Form EIA-7A with instructions. Beginning with the 1981 issue, annual trends are presented in the appendix. Beginning with the 1982 issue, the demonstrated reserve base is provided in the appendix. The 1984 issue contains results of the 1983 supplemental survey on coal preparation and shipments. Data were initially published by EIA under the titles *Coal: Bituminous and Lignite in 1976* and *Coal: Pennsylvania Anthracite in 1976*.

(DOE/EIA-0118(92)) (Annual) Nov 1993 124pp.
NTIS Stock Number: DE94008254 NTIS Price
Code: A06 GPO Stock Number: 061-003-00828-3
GPO Price: \$7.50

9 Quarterly Coal Report

This report provides information about U.S. coal production, distribution, exports, imports, receipts, prices, consumption, and stocks. Coke production, consumption, distribution, imports, and exports data are also provided. Beginning with the first quarter (1992), the *Quarterly Coal Report* includes distribution data formerly published in the *Coal Distribution Report* and an expansion of the Receipts Section, which provides additional data on the quality of coal receipts at electric utility plants. Each issue presents detailed quarterly data for the most recent quarter and aggregated quarterly historical data. Appendix A displays, from 1980 on, detailed quarterly historical data of imported coal received at the electric utility plants. Appendix B gives selected quarterly tables converted to metric tons. Explanatory notes are presented in Appendix C. A glossary is also included. Publication began with 1982 data.

(DOE/EIA-0121) (Quarterly) GPO Subscription List
ID: QCR GPO Subscription Price: \$28.00

10 Weekly Coal Production

Information on U.S. production of bituminous coal and lignite and the production of Pennsylvania anthracite is provided for each of the two most recent weeks, for the corresponding week in the previous year, and for the prior 52-week period and the

corresponding period in the previous year, with percentage changes. Regional production data are reported for three regions (Appalachian, Interior, and Western); data for production east and west of the Mississippi River are given; and State production, total U.S. production, and the number of railroad cars loaded are also reported. Highlights are presented in the Summary. Publication began in May 1980.

(DOE/EIA-0218) (Weekly) GPO Subscription List ID: WCPBA GPO Subscription Price: \$77.00

0110 Reserves and Exploration

11 U.S. Coal Reserves: an Update by Heat and Sulfur Content

This report presents detailed estimates as well as descriptions of the data, methods, and assumptions used to develop such estimates of U.S. coal reserves, which are basic to the analysis and forecasting of future coal supply. The report is organized as follows: Chapter 2 begins with a discussion of the importance of, and the need for, a classification of coal reserves by coal type, mining method, and coal supply region. The official definition of the demonstrated reserve base (DRB) is reviewed for a better understanding of what the DRB really represents and what the reserve data requirements for analysis and forecasting are. The report then describes the data sources, methodology, and assumptions currently used to estimate: (1) the distribution of the DRB by coal type, and (2) the quantities of accessible and recoverable reserves. The limitations and shortcomings of data estimation procedures, and assumptions used are also described. Chapter 3 presents highlights of the estimates by coal type at aggregated levels. Detailed estimates of reserves by coal type, mining method, and coal supply region are presented in statistical tables in the appendix. (Previously titled: *Estimation of U.S. Coal Reserves by Coal Type: Heat and Sulfur Content*, Oct. 1989)

(DOE/EIA-0529(92)) (Annual) Feb 1993 96pp. NTIS Stock Number: DE93006744 NTIS Price Code: A05

0150 Marketing and Economics

12 The Changing Structure of the U.S. Coal Industry: an Update

The purpose of this report is to provide a comprehensive overview of changes in the structure of the U.S. coal industry between 1976 and 1991. The structural elements examined include the number of mines, average mine size, the size distribution of mines, and the size distribution of coal firms. The report measures changes in the market shares of the largest coal producers at the national level and in various regions. The Central Appalachian low-sulfur coal market is given special attention, and the market for coal reserves is examined. A history of mergers in the coal industry is presented, and changes in the proportions of U.S. coal output that are produced by various types of companies, including foreign-controlled firms, are described. Finally, the impact of post-1991 mergers on the structure of the industry is estimated. Appendices A, B, and C, report Major U.S. Coal Producers 1976, 1986, and 1991; Major Holders of U.S. Coal Reserves 1990; and Regional Coal Production of Top 20 Firms 1991.

(DOE/EIA-0513) (Annual) Jul 1993 56pp. NTIS Stock Number: DE93018402 NTIS Price Code: A03

02 Petroleum

13 Petroleum Supply Monthly

Contains summary data on the supply and disposition of crude oil and petroleum products in the United States and major U.S. geographic regions. The data series describe monthly production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes petroleum refiners, motor gasoline blenders, operators of natural gas processing plants and fractionators, inter-PAD transporters, importers, and major inventory holders of petroleum products and

crude oil. Data presented are divided into two sectors: (1) the "Summary Statistics" and (2) the "Detailed Statistics." The tables and figures in the "Summary Statistics" section present a time series of selected petroleum data on a U.S. level. Tables in the "Detailed Statistics" section present statistics for the most current month available as well as year-to-date. Publication began March 1982.

(DOE/EIA-0109) (Monthly) GPO Subscription List ID: PETS GPO Subscription Price: \$78.00

14 Weekly Petroleum Status Report

Information on the petroleum supply situation in the United States is given for the most recent week and month. Some monthly data go back 2 or 3 years. Shown are the U.S. petroleum balance sheet, refinery activity, stocks, imports, products supplied, and prices. Refinery data cover inputs, utilization, and production. Data on stocks are given for crude oil and major products (gasoline, distillate fuel oil, residual fuel oil, etc.) by Petroleum Administration for Defense (PAD) District. Data on prices are refiner acquisition cost of crude oil, retail selling prices for motor gasoline and residential heating oil, world crude oil prices, and spot market product prices. Strategic Petroleum Reserve data are shown when appropriate. Appendix A discusses survey design and estimation methods for weekly data, interpretation and derivation of average inventory levels, projections from the *Short-Term Energy Outlook*, (DOE/EIA-0202), calculation of world oil prices, and explanation and coverage of spot market product prices. Beginning with the March 20, 1992, issue, Appendix B discusses the results of the Form EIA-819, "Monthly Oxygenate Telephone Report." Information regarding this survey is provided in the "Explanatory Notes," which follow the detailed tables in Appendix B. A glossary and a list of data sources are also provided. Publication began April 1979.

(DOE/EIA-0208) (Weekly) GPO Subscription List ID: EWPSR GPO Subscription Price: \$61.00

15 Petroleum Supply Annual 1992, Volume 1

(DOE/EIA-0340(92)/1) (Annual) May 1993 200pp. NTIS Stock Number: DE93014712 NTIS Price Code: A09

15 Petroleum Supply Annual 1992, Volume 2

The *Petroleum Supply Annual* consists of two volumes. Volume 1 contains annual supply, disposition, and stock data beginning in 1973. Monthly data are given for the most recent 3 years. Supply and disposition are reported for crude oil, natural gas liquids and liquefied refinery gases (LRG's), individual finished petroleum products and other liquids. The movements of crude oil and petroleum products between Petroleum Administration for Defense (PAD) Districts are detailed as well as imports and exports of crude oil and petroleum products by country, and the production of heavy oils by sulfur content. Volume 2 contains supply and disposition data for each month of the current year. Supply and disposition are reported for crude oil, natural gas plant liquids/LRG's, other liquids, and individual finished petroleum products. Movements of crude oil and petroleum products between PAD Districts by pipeline, tanker, and barge are detailed, as well as imports and exports of crude oil and petroleum products by country, and the imports of residual fuel oil by sulfur content. Publication began with the 1981 edition.

(DOE/EIA-0340(92)/2) (Annual) May 1993 600pp. NTIS Stock Number: DE93014713 NTIS Price Code: A25

16 International Petroleum Statistics Report

This report presents data on international oil production, consumption, imports, exports, and stocks. This report which was traditionally organized in three parts, now offers four sections. Section 1 contains time series data on world oil production and oil consumption and stocks in the Organization for Economic and Cooperation and Development (OECD) and its member nations. This section contains annual and monthly data. Section 2 presents an oil supply/consumption balance for the market economies as well as China and the former

Soviet Union. This balance is presented in quarterly intervals for the most recent 2 years. Section 3 presents data on oil imports by OECD countries from selected members of the Organization of Petroleum Exporting Countries. This section contains annual data for the last calendar year, quarterly data for the last 2 quarters, and monthly data for the most recent 12 months. Section 4 contains historical oil statistics similar to those found in sections 1 through 3. Data in this section are presented annually back to 1982, and often back to 1970, on a country-by-country basis. Publication of this report began in 1989.

(DOE/EIA-0520) (Monthly) GPO Subscription List ID: IPSR GPO Subscription Price: \$47.00

0201 Reserves

17 U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves 1992 Annual Report

Proved reserves of crude oil, natural gas, and natural gas liquids in the United States are reported by State, with U.S. totals. A national summary is given, along with a discussion of areas of notable developments in the industry. Shown are world oil and natural gas reserves; crude oil proved reserves and production for each producing State and the United States; reserves in nonproducing reservoirs; indicated additional reserves of crude oil; natural gas proved reserves and production; reserves in nonproducing reservoirs, and commitment status.

Appendix A presents for the first time a series of tables which contain estimates of the proved reserves and production of the top 2,500 oil and gas operators by operator production size class. Operator field counts, the sum of the number of fields that each operator was active in, are presented. Appendix B contains a listing of the 100 largest oil and gas fields including their name, location, proved reserves, cumulative production, and ultimate recovery. Data in Appendix B is presented up to the year 1991. Publication of this report began with the 1977 edition.

(DOE/EIA-0216(92)) (Annual) Oct 1993 164pp.
NTIS Stock Number: DE94002516 NTIS Price
Code: A08 GPO Stock Number: 061-003-00822-4
GPO Price: \$11.00

18 Largest U.S. Oil and Gas Fields

This report is part of an EIA series presenting distributions of U.S. crude oil and natural gas resources, developed using field-level data collected by EIA's annual survey of oil and gas proved reserves. This report provides the top 100 proved reserves field listings (1991 rankings) in advance of the 1992 EIA reserves report, and additionally identifies the top 100 fields in three other categories: 1991 annual production, cumulative production, and estimated ultimate recovery. Also presented are similar listings based on the fields' total hydrocarbons, plus comparisons of the contribution of crude oil versus natural gas, and large fields versus small fields. Constrained by an obligation to avoid release of company-proprietary information, the volumetric data that are shown consist of concentration statistics for top 10, top 20, top 50, and top 100 field groups. Appendices show Large Oil and Gas Field Catalog and National Size Rankings for 1991 and a description of the Oil and Gas Integrated Field File (OGIFF).

(DOE/EIA-TR-0567) (One-time) Aug 1993 76pp.
NTIS Stock Number: DE93018993 NTIS Price
Code: A04

19 Oil and Gas Resources of the Fergana Basin (Uzbekistan, Tadzhikistan, and Kyrgyzstan) Advance Summary

This Advance Summary presents an assessment of oil and gas in the Fergana basin in the former Soviet Union. The basic approach was to combine historical drilling, discovery, and production data with the Energy Information Administration reserve estimates and U.S. Geological Survey undiscovered resource estimates.

(DOE/EIA-0575(94)) (One-time) Dec 1993 15pp.
NTIS Stock Number: DE94008249 NTIS Price
Code: A03

20 International Oil & Gas Exploration and Development 1991

This annual publication presents most of the same data series, through 1991 which was previously published in the now-discontinued *International Oil and Gas Exploration and Development Activities*

quarterly report. Country-level data on oil reserves, oil production, active drilling rigs, seismic crews, wells drilled, oil reserve additions, and oil reserve-to-production ratios (R/P ratios) are listed for 85 separate countries, usually covering the period 1970 through 1991. World regional summaries are given in both tabular and graphic form. The most popular table in the previous quarterly report, a listing of new oil and gas discoveries by company and field, continues as Appendix A in this annual report.

(DOE/EIA-0577(91)) (Annual) Dec 1993 104pp.
NTIS Stock Number: DE94004820 NTIS Price
Code: A05 GPO Stock Number: 061-003-00837-2
GPO Price: \$6.50

0203 Drilling and Production

21 Oil and Gas Field Code Master List 1993

The *Oil and Gas Field Code Master List 1993* provides standardized field name spellings and unique six-digit codes for all identified oil and/or gas fields in the United States. For each field, the master list displays the field code, field name, State postal abbreviation and State subdivision code, county code, county name, field discovery year, and field type. Also provided is a list of "alias" or alternate field names. The master list field name spellings and codes are to be used by respondents to Department of Energy forms. Publication began with the 1982 edition.

(DOE/EIA-0370(93)) (Annual) Dec 1993 452pp.
NTIS Stock Number: DE94004648 NTIS Price
Code: A19 GPO Stock Number: 061-003-00836-4
GPO Price: \$27.00

22 Drilling Sideways -- a Review of Horizontal Well Technology and Its Domestic Application

This report is the second Office of Oil and Gas review of a cutting-edge upstream oil and gas industry technology and its current and possible

future impacts. This report reviews the current state of technology development, its history, and its current status of domestic application. It also considers related technologies that will increasingly affect horizontal drilling's future. Where possible, the economics of technology application are explicitly addressed.

(DOE/EIA-TR-0565) (One-time) Apr 1993 36pp.
NTIS Stock Number: DE93011466 NTIS Price
Code: A03 GPO Stock Number: 061-003-00803-8
GPO Price: \$2.50

0207 Marketing and Economics

23 Petroleum Marketing Monthly

Petroleum product marketing data are reported for the United States, Petroleum Administration for Defense (PAD) Districts, and selected States, depending on the petroleum product, for the current month, the previous month, and the corresponding month of the previous year. Some data are also summarized for each year from 1978 forward and for each month from the previous 2 years through the current month. Shown for 16 individual petroleum products are sales prices, sales volumes, and first sales for consumption. Data are given by type of seller (major refiner, other refiner/gas plant operator, and reseller) and by type of sale (sales to end users and sales for resale). Crude oil price tables present data from 1978 through the current month on refiner acquisition cost; first purchase price by State; and free on board/landed cost of purchases for U.S. importation from selected countries, by API gravity, and for selected crude streams. Feature articles on current topics appear periodically. Standard errors and survey response percentages are also presented. Explanatory notes, a glossary, and a product guide to tables are also included. Publication began May 1983.

(DOE/EIA-0380) (Monthly) GPO Subscription List
ID: PMM GPO Subscription Price: \$87.00

24 Petroleum Marketing Annual 1992

Petroleum product marketing data are reported by State and Petroleum Administration for Defense (PAD) District. National-level statistics on crude oil

and petroleum products also are given. Five sections display summary statistics, crude oil prices, sales prices of products, sales volumes, and first sales of products for consumption. Sales price and volume data cover motor gasoline, distillate fuel oil, residual fuel oil, aviation fuels, kerosene, and propane. Marketing data are given by type of seller (major refiner, other refiner/gas plant operator, and reseller) and by type of sale (sales to end users and sales for resale). Data on crude oil present domestic first purchase price by State and free on board/landed cost of imported crude oil by country of origin, gravity, and crude stream. These data are compiled from six survey forms. Starting with the 1991 issue, there are three appendices presenting historical price data of petroleum products: refiner/reseller motor gasoline prices from 1984 to present, refiner/reseller aviation fuels, propane, and kerosene prices from 1983 to present, and refiner/reseller distillate and residual fuel oil from 1983 to present. Explanatory notes and a glossary are included. Publication began with 1985 edition.

(DOE/EIA-0487(92)) (Annual) Jul 1993 428pp.
NTIS Stock Number: DE93018813 NTIS Price
Code: A18

25 Fuel Oil and Kerosene Sales 1992

This report presents statistics on sales of fuel oil and kerosene. The majority of the tables in this report show sales data for the current reporting year while other tables present a historical time series with data shown for the most recent 5-year period. End-use data in this report are given for the total United States as well as by State, Petroleum Administration for Defense (PAD) District, residential, commercial, and industrial sectors, oil companies, farms, electric utilities, railroads, vessel bunkering, military, on-highway, and off-highway. Prior to the publication of this report, the statistics appeared in the *Petroleum Marketing Annual* for reference year 1988 and the *Petroleum Marketing Monthly* for reference years 1984 through 1987. The 1991 data is the eighth annual presentation of the results of the ongoing "Annual Fuel Oil and Kerosene Sales Report," (Form EIA-821 survey).

(DOE/EIA-0535(92)) (Annual) Oct 1993 64pp.
NTIS Stock Number: DE94002541 NTIS Price
Code: A04 GPO Stock Number: 061-003-00827-5
GPO Price: \$4.50

26 Winter Fuels Report

This weekly report contains monthly and weekly propane and fuel oil data, natural gas supply and disposition data, and selected price information. Distillate fuel oil net production, imports, and stocks for all Petroleum Administration for Defense (PAD) Districts, and product supplied on a U.S. level are given. Propane/propylene net production, imports, and stocks for PAD Districts I, II, and III are shown in addition to recent historical data. Natural gas supply and disposition and underground storage for the United States are provided, as well as consumption for all PAD Districts. For selected States, residential and wholesale pricing data for propane and heating oil are shown. United States crude oil, No. 2 distillate, and propane prices are listed. For a few selected cities, No. 2 distillate and propane prices are presented. Included is a brief weather summary with U.S. total heating degree-days by city. Appendices included PAD District descriptions and maps, explanatory notes, and a glossary. This report will only be published during the heating season, terminating the first week in April. Publication began in October 1990.

(DOE/EIA-0538) (Weekly, October - April)
Available: NEIC

27 The U.S. Petroleum Industry: Past as Prologue 1970-1992

This report focuses on the developments that shaped the domestic petroleum industry and U.S. supply and demand patterns between 1970 and 1992. It also highlights foreign demand and refinery trends. Patterns of change for each component of supply and demand are described. It presents a chronology of the major petroleum-related events and their consequences and briefly touches on the events that induced significant change or fluctuation.

(DOE/EIA-0572) (One-time) Oct 1993 78pp. NTIS
Stock Number: DE94001886 NTIS Price Code: A04
GPO Stock Number: 061-003-00820-8 GPO Price:
\$6.00

03 Natural Gas

28 Natural Gas Monthly

Current data on natural and supplemental gas production, supply, consumption, disposition, interstate pipeline activities, storage, imports, exports, and prices in the United States are presented. Production and storage data are given by State; consumption and price data are given by State and sector; company-specific data on interstate pipelines are also presented. Explanatory notes, a discussion of data sources, and a glossary are included. Feature articles on current topics are published periodically, and a report on imports/exports is published annually. Publication began November 1982.

(DOE/EIA-0130) (Monthly) GPO Subscription List ID: NSG GPO Subscription Price: \$85.00

29 Natural Gas Annual 1991 Supplement: Company Profiles

The purpose of this report is to show the movement of natural gas through the various States served by the 34 large companies profiled. The companies profiled are major interstate pipeline companies, large distribution companies, or combination companies with both pipeline and distribution operations. The company profiles are presented with pipeline system and service area maps. Company supply and distribution data for 1991 are presented for the States of operation as reported on the Form EIA-176.

(DOE/EIA-0131(91)S) (Annual) Jan 1993 180pp. NTIS Stock Number: DE93007320 NTIS Price Code: A09 GPO Stock Number: 061-003-00843-7 GPO Price: \$14.00

30 Natural Gas Annual 1992, Volume 1

(DOE/EIA-0131(92)/1) (Annual) Nov 1993 264pp. NTIS Stock Number: DE94004327 NTIS Price Code: A12 GPO Stock Number: 061-003-00831-3 GPO Price: \$17.00

30 Natural Gas Annual 1992, Volume 2

The *Natural Gas Annual* consists of two volumes. Volume 1 provides information on the supply and

disposition of natural gas. The 1992 data are presented in a sequence that follows natural gas (including supplemental supplies) from its production to its end use. Tables summarizing natural gas supply and disposition from 1988 to 1992 are given for each Census Division and each State. Volume 2 presents historical data for the Nation from 1930 to 1992, and by State from 1967 to 1992. Publication began with the 1976 edition.

(DOE/EIA-0131(92)/2) (Annual) Nov 1993 296pp. NTIS Stock Number: DE94004016 NTIS Price Code: A13 GPO Stock Number: 061-003-00832-1 GPO Price: \$18.00

0303 Drilling, Production, and Processing

31 U.S. Production of Natural Gas From Tight Reservoirs

EIA, responding to incentive gas prices provided under the Natural Gas Policy Act of 1978; the Section 29 tax credit provided under the Windfall Profits Tax Act of 1980; and the U.S. natural gas industry's increased exploration and development activities relative to domestic unconventional gas sources such as gas from low permeability (tight) reservoirs, published this technical report to focus on domestic oil and gas production from unconventional types of reservoirs. This is the fifth in a series of reports focused on domestic gas production from unconventional types of reservoirs.

Topics covered include the factors unique to tight gas development, calculation of production from tight reservoirs, and U.S. basins with tight gas production. Table 1 of this report provides a detailed listing of tight gas production from wells eligible for the Section 29 tax credit by basin, State, and major producing formations, for the years 1979 to 1991.

(DOE/EIA-TR-0574) (One-time) Oct 1993 40pp. NTIS Stock Number: DE94001840 NTIS Price Code: A03 GPO Stock Number: 061-003-00824-1 GPO Price: \$3.00

32 Natural Gas Productive Capacity for the Lower 48 States 1982-1993

The purpose of this report is to prepare a historical analysis of the monthly productive capacity of natural gas at the wellhead and estimates of this capacity for 1992 and 1993 in the lower 48 States. The impact of drilling, oil and gas price assumptions, and demand on gas productive capacity are examined. Both gas-well and oil-well gas are included in the report. Oil-well gas productive capacity was estimated separately and then combined with the gas-well gas productive capacity.

(DOE/EIA-0542(93)) (Annual) Mar 1993 100pp.
NTIS Stock Number: DE93009786 NTIS Price
Code: A05

0310 Legislation and Regulation

33 Natural Gas 1992: Issues and Trends

This report provides a summary of the latest data relating to natural gas production, consumption, and prices and puts these data within the context of the structural changes that have been taking place in the industry. The report also reviews significant developments in natural gas regulation and legislation in 1992 and analyzes the current capabilities of the interstate pipeline system. The report also summarizes the major provisions of the Federal Energy Regulatory Commission (FERC) Order 636, as well as those aspects of the Energy Policy Act of 1992 and the Clean Air Act Amendments of 1990 that will have an impact on the industry.

(DOE/EIA-0560(92)) (Annual) Apr 1993 128pp.
NTIS Stock Number: DE93010944 NTIS Price
Code: A06 GPO Stock Number: 061-003-00800-3
GPO Price: \$8.00

0320 Transport, Pipelines, and Handling

34 Statistics of Interstate Natural Gas Pipeline Companies 1991

Financial and operating information on the major

U.S. interstate natural gas pipeline companies is reported for the current year. Data are compiled from FERC Form 2, "Annual Report of Major Natural Gas Companies," and reported separately for each company and for all companies combined. Some of the composite data are summarized for previous years. Shown are balance sheets; income/retained earnings; changes in financial position; gas customers, sales, and operating revenues; gas operations and maintenance expenses; gas utility plant statistics; gas account statistics; and selected physical operating characteristics. A State index that lists the States in which each company furnishes service is included. Publication began with the 1976 edition. This 1991 report is the final EIA issue. Information for 1992 and subsequent years will be available from FERC.

(DOE/EIA-0145(91)) (Annual) Jan 1993 248pp.
NTIS Stock Number: DE93005967 NTIS Price
Code: A11

05 Nuclear Fuels

35 Spent Nuclear Fuel Discharges From U.S. Reactors 1991

The scope of this report covers discharged nuclear fuel assemblies, their shipments and storage, including storage site capacities and inventories as of December 31, 1991. This report reflects data collected and processed by September 9, 1992. Utility-projected dates for reactor retirement, license expiration, and anticipated loss of ability to operate absent additional spent fuel storage capacity are also included. This report presents information on two elements of the nuclear fuel cycle: (1) discharges of spent fuel, and (2) interim storage of spent fuel. The report also provides assembly characteristics of discharged commercial nuclear fuel. The appendices provide background and detail level information not included in the body of the report.

(DOE/EIA-SR/CNEAF/93-01) (Service Report) Mar 1993 220pp. NTIS Stock Number: DE93009097
NTIS Price Code: A10

0510 Marketing and Economics

36 Uranium Industry Annual 1992

Information on the U.S. uranium industry is presented. Uranium raw material activities described include exploration, resources, mine production, milling operations, and employment. Uranium marketing activities discussed include: utility purchases, uranium prices, domestic procurement, foreign purchases, enrichment, inventories, market requirements, and availability. This information is collected on Form EIA-858, "Uranium Industry Annual Survey." This report contains data previously reported in *Survey of United States Uranium Marketing Activity* (DOE/EIA-0403) and *Survey of U.S. Uranium Exploration Activity* (DOE/EIA-0402). Appendices describe the survey methodology, provide technical notes, list respondents to the survey, and present the survey form. A glossary is included. Publication began with the 1984 edition.

(DOE/EIA-0478(92)) (Annual) Nov 1993 152pp.
NTIS Stock Number: DE94002518 NTIS Price
Code: A07 GPO Stock Number: 061-003-00826-7
GPO Price: \$9.00

37 World Nuclear Capacity and Fuel Cycle Requirements 1993

This report presents the projected requirements for uranium concentrate and uranium enrichment services to fuel the nuclear power plants expected to be operating under two nuclear supply scenarios. These nuclear supply scenarios are reported in *Commercial Nuclear Power: Prospects for the United States and the World* (DOE/EIA-0438). The report contains an analysis of the sensitivities of the nuclear fuel cycle projections to different levels and types of projected nuclear capacity, different enrichment tails assays, higher and lower capacity factors, changes in nuclear fuel burnup levels, and other exogenous assumptions. The report also presents annual projections of spent nuclear fuel discharges and inventories of spent fuel. Publication began with the 1983 edition.

(DOE/EIA-0436(93)) (Annual) Nov 1993 176pp.
NTIS Stock Number: DE94003847 NTIS Price
Code: A08 GPO Stock Number: 061-003-00833-0
GPO Price: \$13.00

38 Uranium Purchases Report 1992

This report provides data on the amount of uranium purchased by utilities from domestic sources; and from foreign sources, by material type and by origin country. It also includes data on the amount of enrichment feed deliveries to U.S. and to non-U.S. enrichers, by origin country of the uranium. It contains a list of the sellers of uranium to U.S. utilities under new domestic and new imported uranium purchase contracts for 1992.

(DOE/EIA-0570) (Annual) Aug 1993 12pp. NTIS
Stock Number: DE94008252 NTIS Price Code: A03
GPO Stock Number: 061-003-00816-0 GPO Price:
\$1.50

08 Multifuel

39 Monthly Energy Review

The *Monthly Energy Review* presents current U.S. total energy summaries and key data series for production, consumption, stocks, imports, exports, and prices of the individual energy commodities. Most of the data series are from 1973 forward. Also included are data on the international production of crude oil, consumption of petroleum products, petroleum stocks, and production of electricity from nuclear power facilities. Publication began in October 1974 as a publication of the Federal Energy Administration.

(DOE/EIA-0035) (Monthly) GPO Subscription List
ID: MER GPO Subscription Price: \$77.00

40 State Energy Data Report 1991 Consumption Estimates

The *State Energy Data Report* presents estimates of annual energy consumption at the State and national levels by principal energy type (petroleum, natural gas, coal, and electricity) and by major economic sector (residential, commercial, industrial, transportation, and electric utility) from 1960 forward. Data are presented in both physical units and British thermal units for the current year. State rankings for total energy consumption, consumption per capita, and by individual energy commodity are presented. Included in the report are documentation

describing how the estimates are made for each energy source, sources of all input data, and a summary of changes from the previous report. Publication began with the 1978 edition with consumption estimates for the years 1960 to 1978.

(DOE/EIA-0214(91)) (Annual) May 1993 520pp.
NTIS Stock Number: DE93013921 NTIS Price
Code: A22

41 State Energy Price and Expenditure Report 1991

Estimated annual energy prices and expenditures are presented for each of the 50 States, the District of Columbia, and the total United States for selected years, from 1970 forward. Data for all years from 1970 forward are available on computer-readable diskettes. Estimates are shown by energy source (coal, natural gas, petroleum products, nuclear, biomass fuels at electric utilities, and electricity) and by sector (residential, commercial, industrial, transportation, and electric utility). Also given are various State rankings for total expenditures and expenditures estimates that include sources of data, methods of estimation, conversion factors, and a summary of changes since the previous report. Publication began under the title *Energy Price and Expenditure Report 1970-1980*.

(DOE/EIA-0376(91)) (Annual) Sep 1993 294pp.
NTIS Stock Number: DE93040772 NTIS Price
Code: A13 GPO Stock Number: 061-003-00818-6
GPO Price: \$18.00

42 Annual Energy Review 1992

The *Annual Energy Review* presents historical energy data summaries (total U.S. consumption, imports, and exports) as well as complete data coverage of the principal energy commodities. Additionally, price, inventory, and resource reserve information are provided by fuel. Most of the data series are from 1949 forward. Key international data series for major energy sources and activities are also included. Publication began with the 1982 edition.

(DOE/EIA-0384(92)) (Annual) Jun 1993 376pp.
NTIS Stock Number: DE93016832 NTIS Price
Code: A16 GPO Stock Number: 061-003-00810-1
GPO Price: \$23.00

43 Energy Facts 1992

A broad range of domestic and international energy data is provided for the current year, as well as historical data. This report is designed for quick reference to major facts about energy. Separate chapters present an overview for each energy source (petroleum, natural gas, coal, electric power, and nuclear power). A glossary is included. Source publications are listed. Publication began with the 1984 edition.

(DOE/EIA-0469(92)) (Annual) Oct 1993 140pp.
NTIS Stock Number: DE94002951 NTIS Price
Code: A07 GPO Stock Number: 061-003-00829-1
GPO Price: \$2.00

44 Emissions of Greenhouse Gases in the United States 1985-1990

Mandated by Congress through Section 1605(a) of the Energy Policy Act of 1992 (Title XVI), this report provides estimates of U.S. emissions of the principal greenhouse gases--carbon dioxide, methane, nitrous oxide, chlorofluorocarbons, carbon monoxide, nitrogen oxides, and nonmethane volatile organic compounds. Estimates are for the period 1985 to 1990. Preliminary estimates for 1991 have also been included, whenever data were available.

(DOE/EIA-0573) (One-time) Nov 1993 112pp.
NTIS Stock Number: DE94008247 NTIS Price
Code: A06 GPO Stock Number: 061-003-00821-6
GPO Price: \$7.00

45 Energy Information Sheets

This annual document, written for the general public, was developed to provide information on various aspects of fuel production, prices, consumption and capability. The information pertains to energy data as of December 1991. Additional information on related subject matter can be found in other EIA publications as referenced at the end of each sheet.

(DOE/EIA-0578(91)) (Annual) Dec 1993 48pp.
NTIS Stock Number: DE94008250 NTIS Price
Code: A03

14 Solar Energy

46 Solar Collector Manufacturing Activity 1992

This report presents a statistical profile of the solar thermal collector and photovoltaic cell/module manufacturing industry. The results of a continuing survey of private firms which manufacture and sell solar collectors in the United States are reported. Discussed in detail are producer shipments, import and export activity, production breakdown by type of collector, values of shipment, prices, end uses and market sector, and the number of applications for solar collectors. Six classes of solar collectors are surveyed: low temperature, medium temperature, high temperature, crystalline silicon, thin-film silicon, and concentrator silicon. Data are tabulated by type of collector, by end use and by market sector (residential, commercial, industrial, utility, etc.). Some comparative data for previous years are shown. The report includes the survey methodology, a sample of the survey forms used (CE-63A, CE-63B), an appendix listing the solar collector manufacturer respondents, photovoltaic cell/module manufacturer respondents, U.S. customary unit of measurements, and solar collector installed capacity and energy production. Publication began as a semi-annual with data for January to June 1977.

(DOE/EIA-0174(92)) (Annual) Nov 1993 80pp.
NTIS Stock Number: DE94003401 NTIS Price
Code: A04 GPO Stock Number: 061-003-00830-5
GPO Price: \$5.00

20 Electric Power

2001 Power Plants and Power Generation

47 Inventory of Power Plants in the United States 1992

This report presents year-end statistics about electric generating units operated by electric utilities in the United States. Summary data presented include

aggregate capacity statistics at the national and regional levels by prime mover and by energy source, planned capacity additions by year, planned retirements by year, and capacity additions and retirements during 1992. Detailed data include the name of the electric utility that operates the unit, the location of the unit, the type of unit (prime mover), the primary and alternate energy source, the installed generator nameplate capacity, the net summer capability, the net winter capability, and the initial year of operation. Also included are detailed information on units owned jointly by two or more utilities, and data about proposed changes (modifications and retirements) in existing (operable and previously retired) electric generating units. EIA began publishing the *Inventory* in 1979.

(DOE/EIA-0095(92)) (Annual) Oct 1993 420pp.
NTIS Stock Number: DE94002519 NTIS Price
Code: A18 GPO Stock Number: 061-003-00825-9
GPO Price: \$25.00

48 Cost and Quality of Fuels for Electric Utility Plants 1992

Annual information on the cost and quality of fossil fuel receipts at electric utility plants is presented, with some data presented in a historical series. Data on receipts, cost, and quality are reported by individual plant and utility company, and data on receipts and cost are also aggregated by State and Census division. Through 1983, data are reported for plants with a capacity of 25 megawatts or greater. Since 1984, the data are for plants with 50 megawatts or greater capacity. Publication began with the 1978 edition.

(DOE/EIA-0191(92)) (Annual) Aug 1993 160pp.
NTIS Stock Number: DE93040673 NTIS Price
Code: A08 GPO Stock Number: 061-003-00812-7
GPO Price: \$11.00

49 Electric Power Monthly

This report presents monthly summaries of electric utility statistics at the national, Census division, and State level for net generation, fuel consumption, fuel stocks, quantity and quality of fuel, cost of fuel, electricity sales, and average retail prices of electricity. Data on net generation are also displayed at the North American Electric Reliability Council

region level. Additionally, company and plant level information are published on the capability of new plants. Beginning with the February 1989 issue, plant level data are given for net generation, fuel consumption, fuel stocks and the quantity, cost, and quality of fuel receipts each month. Publication began June 1980.

(DOE/EIA-0226) (Monthly) GPO Subscription List ID: EPM GPO Subscription Price: \$87.00

50 Electric Power Annual 1991

This publication presents a summary of electric utility statistics at the national, regional, and State levels on the following subjects: generating capability and planned capability additions; net generation; fossil-fuel consumption, receipts, and average delivered cost; sales of electricity to ultimate consumers, revenue from associated sales, and average revenue per kilowatthour sold. Composite data on the financial results of operations of selected investor-owned and publicly owned utilities are presented; summary environmental statistics on gaseous emissions and environmental equipment are included; and information on electric power transactions are also presented. Publication began with 1981 edition.

(DOE/EIA-0348(91)) (Annual) Feb 1993 172pp.
NTIS Stock Number: DE93008905 NTIS Price Code: A08 GPO Stock Number: 061-003-00839-9
GPO Price: \$13.00

51 Financial Statistics of Major Investor-Owned Electric Utilities 1991

Presents summary and detailed financial accounting data on the investor-owned electric utilities. Includes data on financial performance; research, development, and demonstration expenditures; environmental protection investments and expenditures; number of consumers, sales, and operating revenues; and electric energy account. Data are based on the Federal Energy Regulatory Commission (FERC) Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others," for calendar year 1991 and prior years. The 1991 data are based on reports from 188 major investor-owned

electric utilities and five independent power producers under FERC jurisdiction.

(DOE/EIA-0437(91)/1) (Annual) Jan 1993 664pp.
NTIS Stock Number: DE93006920 NTIS Price Code: A99

52 Financial Statistics of Major Publicly Owned Electric Utilities 1991

Presents summary and detailed financial accounting data on 470 publicly owned electric utilities. Includes data on financial performance; number of consumers, sales, and operating revenues; and electric energy account. Data are based on the Form EIA-412, "Annual Report of Public Electric Utilities." Also included are data on Federal electric utilities, including the five Federal power marketing authorities, the Tennessee Valley Authority, the U.S. Army Corps of Engineers, and the U.S. Bureau of Indian Affairs. Summary tables of data on cooperative electric utilities, taken from the *Statistical Report, Rural Cooperative Borrowers*, published by the Rural Electrification Administration, U.S. Department of Agriculture, are provided in an appendix.

(DOE/EIA-0437(91)/2) (Annual) Mar 1993 440pp.
NTIS Stock Number: DE93011468 NTIS Price Code: A19

53 Financial Statistics of Major U.S. Investor-Owned Electric Utilities 1992

Presents summary and detailed financial accounting data on the investor-owned electric utilities. Includes data on financial performance; environmental protection investments and expenditures; number of consumers, sales, and operating revenues; and electric energy account. Data are based on the FERC Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others," for calendar year 1992 and prior years. The 1992 data are based on reports from 180 major investor-owned electric utilities and six independent power producers and two cooperatives under FERC jurisdiction.

(DOE/EIA-0437(92)/1) (Annual) Dec 1993 628pp.
NTIS Stock Number: DE94005255 NTIS Price Code: A99 GPO Stock Number: 061-003-00838-1
GPO Price: \$38.00

54 Electric Plant Cost and Power Production Expenses 1991

This report presents aggregate operation, maintenance, and fuel expense data about power plants owned and operated by the major investor-owned electric utilities in the United States. (Predecessor reports presented aggregate data about selected electric power plants owned and operated by both investor-owned and publicly owned electric utilities.) The power production expenses for the major investor-owned electric utilities are summarized. Plant-specific data are presented for a selection of both investor-owned and publicly owned plants. Included at the detailed plant level are data on net generation, capacity (including net capability), historical plant cost, production expenses, fuel consumption, and physical and operating plant characteristics. Publication began with the 1982 edition. This 1991 edition is the last issue of this publication. Aggregate data will be published annually in the publication, *Financial Statistics of Major Investor-Owned Electric Utilities*. Plant specific data will be available on the FERC Form 1.

(DOE/EIA-0455(91)) (Annual) May 1993 160pp.
NTIS Stock Number: DE93013929 NTIS Price Code: A08

55 Electric Sales and Revenue 1991

This report provides information on sales of electricity, its associated revenue, and the average revenue per kilowatthour sold to residential, commercial, industrial, and other consumers throughout the United States. Data are presented at the National, Census division, State, and utility level. Publication began under the title *Electric Sales, Revenue, and Bills 1988*, which, in addition to the sales and revenue data, contained information on typical monthly electricity bills for specified levels of demand and consumption. This information on bills had previously appeared in the publication *Typical Electric Bills*.

(DOE/EIA-0540(91)) (Annual) Apr 1993 244pp.
NTIS Stock Number: DE93011638 NTIS Price Code: A11

56 Renewable Resources in the U.S. Electricity Supply

The *Renewable Resources in the U.S. Electricity Supply* is designed as a primer on renewable energy resources used for electricity generation. It describes the use of water, wind, solar, geothermal, biomass (primarily wood), and waste resources for electricity generation. This report provides an introductory overview of current and long-term forecasted uses of renewable resources in the Nation's electricity marketplace, the largest domestic application of renewable resources today. It is intended for a general audience, but it should be of particular interest to public utility analysts, policy and financial analysts, investment firms, trade associations, Federal and State regulators, and legislators.

(DOE/EIA-0561) (One-time) Mar 1993 80pp. NTIS Stock Number: DE93009492 NTIS Price Code: A04
GPO Stock Number: 061-003-00797-0 GPO Price: \$5.00

57 The Changing Structure of the Electric Power Industry 1970 - 1991

The purpose of this report is to provide a comprehensive overview of the ownership of the U.S. electric power industry over the past two decades, with emphasis on the major changes that have occurred, their causes, and their effects. The report examines the immediate legislative and regulatory basis for change, and describes the underlying economic and technological causes for the recent rise in nonutility electric power generation in the United States. Future trends, issues, and uncertainties facing the electric power industry are discussed.

(DOE/EIA-0562) (One-time) Mar 1993 100pp. NTIS Stock Number: DE93009493 NTIS Price Code: A05
GPO Stock Number: 061-003-00798-8 GPO Price: \$6.50

58 The Public Utility Holding Company Act of 1935: 1935-1992

This report provides an economic and legislative history and analysis of the Public Utilities Holding Company Act (PUHCA) of 1935. This Act was substantially amended for the first time in 1992 by passage of the Energy Policy Act (EPACT). The

report also includes a discussion of the issues which led to the amendment of PUHCA and projections of the impact of these changes on the electric industry.

(DOE/EIA-0563) (One-time) Jan 1993 84pp. NTIS Stock Number: DE94008251 NTIS Price Code: A05

29 Economics, Analysis, and Forecasting

2901 Energy Modeling

59 *Short-Term Integrated Forecasting System 1993 Model Documentation Report*

The Short-Term Integrated Forecasting System (STIFS) is the integrated system for the development of supply and demand forecasts that are published quarterly in the *Short-Term Energy Outlook*. The demand and price forecasts for petroleum, electricity, coal, and natural gas are described in this report, followed by a description of the integrated model.

(DOE/EIA-M041(93)) (One-time) May 1993 204pp. NTIS Stock Number: DE93015479 NTIS Price Code: A10

60 *GASCAP Wellhead Gas Productive Capacity Model Documentation*

The Wellhead Gas Productive Capacity Model (GASCAP) has been developed by EIA to provide a historical analysis of the monthly productive capacity of natural gas at the wellhead and a projection of monthly capacity for 2 years into the future. This documentation report provides a general overview of the GASCAP Model, describes the underlying data base, provides technical descriptions of the component models, diagrams the system and subsystem flow, describes the equations, and provides definitions and sources of all variables used in the system. This documentation report is provided

to enable users of EIA projections generated by GASCAP to understand the underlying procedures used and to replicate the models and solutions. The model abstract, variable definition listing, location of variables, location of equations, listing of Job Control Language, listing of computer codes, and macros are supplied in the appendices.

(DOE/EIA-M052) (One-time) Jun 1993 354pp. NTIS Stock Number: DE93017833 NTIS Price Code: A15

61 *Model Documentation Report: Short-Term Hydroelectric Generation Model*

This report defines the objectives of the Short-Term Hydroelectric Generation Model (STHGM), describes its basic approach, and provides details on the model structure. The report is intended as a reference documentation for model analysts, users, and the general public. The scope of the report encompasses: the model purpose, model rational, model structure, properties of the mathematical solution, calibration and sensitivity analyses, and documentation of technical detail on the model data and equations.

(DOE/EIA-M053) (One-time) Aug 1993 28pp. NTIS Stock Number: DE93040456 NTIS Price Code: A03

62 *Motor Gasoline Market Model Documentation Report*

The *Motor Gasoline Market Model Documentation Report* is used for policy analysis and general forecasting purposes and was developed for use in the "Motor Gasoline Outlook" article published in the *Petroleum Marketing Monthly*. The model addresses very short-term monthly U.S. market responses at the national level. The model focuses on U.S. retail motor gasoline demand and price, and assesses market response to alternative scenarios and/or shocks by providing very short-term forecasts of gasoline demand and price.

(DOE/EIA-M054) (One-time) Sep 1993 20pp. NTIS Stock Number: DE93041128 NTIS Price Code: A03

63 NEMS Integrating Module Documentation Report

The National Energy Modeling System (NEMS) is a computer based, energy-economy modeling system of U.S. energy markets for the midterm period of 1990 to 2010. The NEMS Integrating Module is the central integrating component of this complex modeling system. As such, a thorough understanding of its role in the modeling process can only be achieved by placing it in the proper context with respect to the other modules. To that end, this document provides an overview of the complete NEMS model, and includes brief descriptions of the modules with which the Integrating Module interacts. The emphasis and focus, however, is on the structure and function of the Integrating Module of NEMS. It is intended to be read by analytical personnel having in-depth experience with modeling systems, who desire a comprehensive, detailed explanation of overall NEMS methodologies and approaches.

(DOE/EIA-M057) (One-time) Dec 1993 118pp.
NTIS Stock Number: DE94005135 NTIS Price
Code: A06

2902 Economics and Sociology

64 Proceedings of the National Energy Modeling System Conference

This document sets forth the Proceedings from the National Energy Modeling System (NEMS) Conference, February 1-2, 1993, sponsored by EIA's Office of Integrated Analysis and Forecasting. The purpose of the conference was two-fold: 1) to give potential users of NEMS a detailed look at the components of the new modeling system, and 2) to afford the opportunity for critical analysis of the system by recognized experts in the modeling field and input from potential users about how the system can best address their needs. These Proceedings are meant to stimulate discussion of the concepts and development efforts of the individual components of NEMS. That dialogue is critical to the development and maintenance of a modeling system that will be used in planning for our Nation's energy future.

(DOE/EIA-0566) (One-time) Jun 1993 1,038pp.
NTIS Stock Number: DE94008256 NTIS Price
Code: A99

65 Profiles of Foreign Direct Investment in U.S. Energy 1991

This report summarizes the activities in the United States by foreign-affiliated companies that own or control U.S. energy sources and supplies. This report presents the following profiles for the report year: foreign direct investment in U.S. petroleum, natural gas and coal mining; energy production, processing, distribution, and reserves of foreign-affiliated companies; financial performance and investment activity of foreign-affiliated energy companies; overseas oil and gas operations of U.S. companies; and comparisons of foreign-affiliated companies with U.S. energy companies. Publication began with the 1983 edition.

(DOE/EIA-0466(91)) (Annual) Apr 1993 52pp.
NTIS Stock Number: DE93011248 NTIS Price
Code: A03

66 U.S. Energy Industry Financial Developments

This report traces key financial trends in the U.S. energy industry by quarter. Financial data are presented for companies in two broad groups--fossil fuel producing companies and rate-regulated utilities. Companies included in each industry grouping include only the publicly traded companies whose financial data were available at the time of publication. Publication began March 1991.

(DOE/EIA-0543) (Quarterly) GPO Subscription List
ID: EIFD GPO Subscription Price: \$8.00

2920 Supply Demand and Forecasting

67 State Energy Price Projections for the Residential Sector 1993-1994

This report resulting from a request by the Administration for Children and Families of the U.S. Department of Health and Human Services, in support of the Low Income Home Energy Assistance Program, provides projections for 1993 and 1994

State-level residential prices for electricity, natural gas, heating oil, liquefied petroleum gas (LPG), kerosene, and coal. Actual 1992 prices in dollars per million Btu are provided for reference along with Btu conversion factors for each heating source.

(DOE/EIA-SR/EMEU/93-01) (Service Report) Nov 1993 16pp. NTIS Stock Number: DE94008699 NTIS Price Code: A03

68 Short-Term Energy Outlook, Quarterly Projections

The Energy Information Administration's (EIA) quarterly forecasts of energy supply, demand, stocks, and prices are presented for each quarter. The forecasts are produced using the Short-Term Integrated Forecasting System, which uses two principal driving variables, a macroeconomic forecast, and world oil price assumptions. The three projections for petroleum supply and demand are based on low, middle, and high economic growth scenarios that incorporate high, middle, and low crude oil price trajectories. The tables and discussion in this volume primarily refer to the middle, or base case, scenario and to the domestic situation. Other cases examining the sensitivity of total petroleum demand to varying assumptions about prices, weather, and economic activity are presented. The petroleum outlook includes detailed projections of domestic crude oil production, motor gasoline, distillate fuel oil, residual fuel oil, other products, and inventories. Other projections include natural gas, coal, and electric power. The international petroleum situation is also discussed. An *Annual Supplement* analyzes previous forecast errors. Publication began October 1979.

(DOE/EIA-0202) (Quarterly) GPO Subscription List ID: STEO GPO Subscription Price: \$16.00

69 Short-Term Energy Outlook Annual Supplement 1993

This supplement is published once a year as a complement to the quarterly *Short-Term Energy Outlook*. It reviews the accuracy of the forecasts published in the last six issues of the *Short-Term Energy Outlook*, compares EIA's base case energy projections as published in the *Short-Term Energy Outlook* (DOE/EIA-0202) with recent projections

made by other major forecasting groups, and examines in detail current energy topics that affect the forecasts. Publication began with the 1987 edition.

(DOE/EIA-0202(93)) (Annual) Aug 1993 80pp. NTIS Stock Number: DE93019395 NTIS Price Code: A04

70 International Energy Outlook 1993

This report presents the current EIA assessment of the long-term outlook for international energy markets. It emphasizes oil market developments, particularly future world oil prices and oil production potential. Also presented are projections of the consumption of oil, natural gas, coal, nuclear, and "other" energy sources for selected countries and country groups. The world oil price projections developed in this international setting are used as assumptions for analyses of the U.S. domestic energy markets. Since the U.S. energy market is affected by the international market, the methodology incorporates this interaction to the extent possible. Assessments are revised and published annually. Publication began with the 1985 edition.

(DOE/EIA-0484(93)) (Annual) April 1993 52pp. NTIS Stock Number: DE93012998 NTIS Price Code: A03

71 Assumptions for the Annual Energy Outlook 1993

This auxiliary document to the *Annual Energy Outlook 1993* (AEO) presents assumptions underlying the forecasts in the AEO. The energy modeling system is an economic equilibrium system, with component demand modules representing end-use energy consumption by major end-use sector. Another set of modules represents petroleum, natural gas, coal, and electricity supply patterns and pricing. A separate module generates annual forecasts of important macroeconomic and industrial output variables. Interactions among these components of energy markets generate projections of prices and quantities for which energy supply equals energy demand. This equilibrium modeling system is referred to as the Intermediate Future Forecasting System (IFFS). The supply models in IFFS for oil, coal, natural gas, and electricity determine supply

and price for each fuel depending upon consumption levels, while the demand models determine consumption depending upon end-use price. IFFS solves for market equilibrium for each fuel by balancing supply and demand to produce an energy balance in each forecast year. Publication began with the 1989 edition.

(DOE/EIA-0527(93)) (Annual) Jan 1993 112pp.
NTIS Stock Number: 93006304 NTIS Price Code: A06

72 Supplement to the Annual Energy Outlook 1993

The *Supplement to the Annual Energy Outlook 1993* is a companion document to the *Annual Energy Outlook 1993 (AEO)*. These tables provide the regional projections underlying the national data and projections in the *AEO*. 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* which provides a range of projections for energy markets through 2010.

(DOE/EIA-0554(93)) (Annual) Mar 1993 296pp.
NTIS Stock Number: 93008119 NTIS Price Code: A13
GPO Stock Number: 061-003-00793-7 GPO Price: \$17.00

73 Energy Policy Act Transportation Rate Study Availability of Data and Studies

This report presents the Secretary of Energy's review of data collected by the Federal Government on rates for rail and pipeline transportation of domestic coal, oil, and gas for the years 1988 through 1997, and proposals to develop an adequate data base for each of the fuels, based on the data availability review. This report also presents the Energy Information Administration's findings regarding the extent to which any Federal agency is studying the impacts of the Clean Air Act Amendments of 1990 and other Federal policies on the transportation rates and distribution patterns of domestic coal, oil, and gas.

Two appendices show a Coal Data Availability Review and Natural Gas Data Sources.

(DOE/EIA-0571) (One-time) Oct 1993 76pp. NTIS
Stock Number: DE94002309 NTIS Price Code: A04

2980 Consumption and Utilization

74 Household Energy Consumption and Expenditures 1990

(DOE/EIA-0321(90)) (Triennial) Feb 1993 384pp.
NTIS Stock Number: DE93010191 NTIS Price Code: A16
GPO Stock Number: 061-003-00795-3 GPO Price: \$22.00

74 Household Energy Consumption and Expenditures 1990 Supplement: Regional

This two-part report presents data from the Residential Energy Consumption Survey on the consumption and expenditures of energy in all types of housing units--single-family (including townhouses), apartments, and mobile homes. Part 1 (DOE/EIA-0321(90)) (published in 1993) contains national-level household energy consumption, expenditures, and the price households pay for electricity, natural gas, fuel oil and kerosene, and liquefied petroleum gas. Appendices include the survey methodology described in detail. Part 1 also includes estimates of end-use consumption and expenditures for space heating, water heating, air conditioning, and appliances. Part 2 (DOE/EIA-0321(90)/S) is the supplemental document that contains household energy consumption, expenditures, and price data for Census regions and nine Census divisions. Data are presented by household characteristics, such as type of housing structure, number of rooms, area, age of house, degree-day category, ownership, income and other demographic categories. The number of households and average amount of fuel consumed are shown for households using fuel as the main heating fuel along with the average price of each fuel.

(DOE/EIA-0321(90)S) (Triennial) Feb 1993 372pp.
NTIS Stock Number: DE93010192 NTIS Price Code: A16
GPO Stock Number: 061-003-00796-1 GPO Price: \$21.00

75 Household Vehicles Energy Consumption 1991

This report is based on data from the 1991 Residential Transportation Energy Consumption Survey (RTECS). Energy used in household vehicles is compared with energy used in the home. RTECS collects data on the number and type of vehicles per household and, for each vehicle, annual miles traveled, gallons of fuel consumed, type of fuel used, price paid for fuel used, and vehicle miles-per-gallon. A summary of findings is presented along with a glossary. Appendices discuss the survey methodology and quality of the data as well as geographic area. Data on energy use in personal-use vehicles in 1979 through 1981 were collected by the Residential Energy Consumption Survey (RECS) on a monthly basis. Data for 1983, 1985, and 1988 were collected on an annual basis. In 1988 the survey name was dropped from the title. The new title is *Household Vehicles Energy Consumption*.

(DOE/EIA-0464(91)) (Triennial) Dec 1993 232pp.
NTIS Stock Number: DE94004426 NTIS Price
Code: A10 GPO Stock Number: 061-003-00835-6
GPO Price: \$14.00

76 Assessment of Energy Use in Multibuilding Facilities

The 1989 Facility Survey, an adjunct to the 1989 Commercial Buildings Energy Consumption Survey (CBECS), was targeted at multibuilding facilities with central physical plants. The Facility Survey was intended to determine the best way to collect information on district heating and cooling for commercial buildings. The two main objectives of the Facility Survey were: 1) to improve CBECS estimates of district heat consumption for commercial buildings that lacked individual metering, and 2) to estimate primary fuel consumption by central physical plants that provide energy to commercial buildings. The Facility Survey successfully discovered the characteristics of the multibuilding facilities by demonstrating the importance of multibuilding facilities for the analysis of energy consumption in commercial buildings. In particular, commercial buildings located on multibuilding facilities with central physical plants tend to be considerably larger than commercial buildings in general, and tend to be either engaged in energy

intensive activities, such as health care, or associated with industrial activities.

(DOE/EIA-0555(93)/1) (One-time) Aug 1993 120pp.
NTIS Stock Number: DE93040294 NTIS Price
Code: A06 GPO Stock Number: 061-003-00817-8
GPO Price: \$7.50

77 User-Needs Study for the 1993 Residential Energy Consumption Survey

The user-needs study was an in-depth examination of what uses organizations have been making of the Residential Energy Consumption Survey (RECS) data and what future needs they have. In a sense, it was an evaluation of how well the RECS is meeting the needs for information on residential energy use. Some information, such as technical data on equipment and structure, can probably never be met by RECS. Other needs can be met if they are identified. This study was conducted during 1992 to identify those needs which can be incorporated into the planning for the 1993 RECS. Thus, the user-needs study provided vital input to the design of the 1993 RECS. At the time of the user-needs study in 1992, some results from the most recent RECS conducted in 1990 were available, but the more extensive report containing analysis of consumption patterns and energy end-use intensities (EUI's) for space heating, water heating, air conditioning, refrigerators, and other appliances was not available. Even though the 1990 RECS consumption data had not been published at the time of the user-needs study, the user-needs study made it possible for the 1993 RECS to identify the information requirements of many users, ensuring that the RECS will remain a valuable source of information for the energy community. The user-needs study was conducted before enactment of the Energy Policy Act of 1992 (EPACT), Public Law 102-486. However, some of the data needs of that legislation were captured in this process and in subsequent discussions.

(DOE/EIA-0555(93/2)) (One-time) Sep 1993 212pp.
NTIS Stock Number: DE94000627 NTIS Price
Code: A10 GPO Stock Number: 061-003-00819-4
GPO Price: \$13.00

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Delivery time for subscriptions varies according to the frequency that a particular subscription is issued. Customers will receive the next available subscription issue after their order is received.

Delivery of daily or weekly subscriptions takes approximately 4 weeks for the first issue, and all subsequent issues will be delivered according to the issue frequency (e.g., daily, weekly). Other subscriptions are issued either monthly, bi-monthly,

quarterly, semi-annually, or irregularly and can take 2-6 months for delivery of the first issue. An acknowledgement card is sent to all customers directly after their subscription order is processed simply to let them know that they will receive the next available issue released for their subscription order.

All subscriptions are for one year unless otherwise noted. Subscribers will be notified in ample time to renew. For orders being shipped outside of the United States, see International Orders, page 46.

Bookstore Orders in the Washington, DC, Area

Some recent issues of EIA publications may be ordered and picked up from Washington, DC, bookstores. Please call the McPherson Bookstore (202-653-2050) located at 1510 H Street, N.W. (9 a.m. to 4:30 p.m. eastern time) or the Main GPO Bookstore (202-512-0132) located at 710 North Capitol Street, N.W. (8 a.m. to 4 p.m. eastern time) to see if your selected book is available. Bookstores are open Monday through Friday and accept cash, check made out to the Superintendent of Documents, VISA, MasterCard, or a prepaid Superintendent of Documents Account.

Shipping

The Superintendent of Documents pays for normal shipping; however, arrangements can be made to bill you for special shipping needs, such as Federal Express, United Parcel Service (UPS), first class, and airmail services, which are available for an additional charge. Orders are mailed fourth class unless otherwise requested. Please contact GPO at (202)783-3238 for rate information. Please indicate on your order if you desire special postage.

Customer Service

Occasionally, errors may occur in the processing of orders. Should you find an error in your order, please write to the Superintendent of Documents. All claims must be submitted within 6 months.

PLEASE DO NOT RETURN PUBLICATIONS UNLESS SO NOTIFIED. Publications will not be accepted for return, for exchange, or for credit unless an error was made by this office in filling your order. All sales are final.

Inquiries

Please wait at least 6 weeks for publications and 6 weeks for subscriptions before inquiring about your order. For inquiries on subscriptions, write to Subscription Service Section, U.S. Government Printing Office, Stop: SSOM, Washington, DC 20402. Call (202)512-2303 or fax (202)512-2168 for subscription inquiries. For inquiries on publications write to Publication Service Section, U.S. Government Printing Office, Stop: SSOS, Washington, DC 20402. Call (202)512-2457 or fax (202)512-2164 for inquiries concerning publication orders.

Bookdealers

Designated bookdealers are authorized a 25-percent discount on the domestic price of any publication or subscription ordered when delivered to the dealer's normal place of business. This rule applies to single as well as multiple copies of a publication, except on items specifically designated "no discount allowed." No discounts will be allowed when the publication, pamphlet, periodical, or subscription service is mailed to a third party (unless in quantities of 100 or more), or on those periodicals or subscription services that fall into a special pricing category. The maximum discount allowed is 25 percent.

Orders for 100 or More Copies

Any customer ordering 100 or more copies of a single subscription or other publication for delivery to a single destination will be allowed a 25-percent discount on the domestic price of the item (except those items specifically designated "no discount allowed").

Deposit Accounts

A deposit account may be established by sending a minimum of \$50.00 and receiving a unique deposit account number, which can be used to charge future purchases. Blank order forms are provided and monthly statements are mailed to customers with active deposit accounts. Orders will be accepted on any deposit account if sufficient funds are available in the account. For more information, please write:

Superintendent of Documents
U.S. Government Printing Office
Deposit Accounts Section
Washington, DC 20402
(202)512-0822

International Orders

International orders require a special handling charge which amounts to an additional 25-percent of the current domestic price. This charge covers the special handling required by customs and international mailing regulations. All international orders are shipped via surface mail unless the customer specifically requests air mail shipping. If you desire air mail service for your shipment, please contact the Superintendent of Documents in advance by letter, telephone (202)783-3238, Telex TWX 710 822-9413) ANSWERBACK USGPO WSH, or fax (202)512-2250 for air mail postage rates. All back ordered items and supplemental issues of basic or supplement subscription services are sent by surface mail.

Note: GPO cannot accept checks drawn on Canadian banks for less than U.S. \$4.00. Orders sent directly to GPO must be in English. GPO cannot accept foreign currency, checks on foreign banks, or postage stamps. A minimum of 10 weeks for delivery should be allowed.

Government Printing Office Priority Announcement Service

In response to numerous requests on how to be informed when annual or one-time publications are available for sale, GPO provides a Priority Announcement Service for all EIA annual and one-time reports available from GPO. This is a FREE service.

All energy titles are included in Priority Announcement list N-562. Individuals may be added to the mailing list for this category and, when a new publication is available for sale, a notice will be sent with an order form. Please include the code number, N-562, when requesting this service. To be placed on the mailing list contact:

Superintendent of Documents
U.S. Government Printing Office
Mail List Branch (Stop: SSOM)
Washington, DC 20402

U.S. Government Depository Libraries

U.S. Government Depository Libraries are congressionally designated libraries throughout the United States which automatically receive some or all U.S. Government publications. Their Government documents collection is available free for use by the general public. Most States have one regional depository which carries all Government documents. The remaining 1,350 depository libraries carry selected Government documents. Most full-service public libraries will borrow EIA and other Government documents from depository libraries through interlibrary loan. To find your nearest depository library contact your local library.

How to Order from the National Technical Information Service

The National Technical Information Service (NTIS) maintains microfiche of most EIA publications; paper copies can be produced from the microfiche in most cases. Customers ordering from NTIS have a number of options from which to choose.

Reaching NTIS

Telephone orders may be placed by calling (703) 487-4650. The NTIS telephone sales desk is available between 8:30 a.m. and 5 p.m., eastern time. (TTY For the hearing impaired: (703) 487-4639).

Mail Orders

Send orders to: NTIS, Springfield, VA 22161. Do not mail rush orders.

Fax or Telex Orders

Fax: (703) 321-8547 or (703) 321-9038. For assistance, call (703) 487-4679.
Telex: 6-4617 (international).

Faxing your order? Get order forms designed to speed your order. Call (703) 487-4650 and ask for NTIS PROFA.

QuikSERVICE - Online Ordering

With QuikSERVICE, you place your order directly into the NTIS order system avoiding the mail order delay. QuikSERVICE lets you:

- Speed up your order
- Request rush processing
- Display any order you have placed with NTIS during the past 6 months
- Display your orders that are still being processed.

QuikSERVICE lets you know in advance the cost, availability restrictions, and the approximate time of shipment.

The \$3 handling fee is waived for all orders placed with QuikSERVICE.

For more information and to receive an application for NTIS QuikSERVICE, call (703) 487-4650 and ask for NTIS PR 846.

Ordering Through Online Services

DIALOG, OCLC, ORBIT, and STN allow you to order NTIS technical reports online. Inquiries should be directed to:

DIALOG, 1-(800)-334-2564
OCLC, 1-(800)-848-5800
(in Ohio) 1-(800)-848-8286
ORBIT, 1-(800)-456-7248
(in Virginia: (703) 442-0900
STN, 1-(800)-848-6533
(in Ohio) 1-(800)-848-6538

How to Pay

Credit Cards

American Express, MasterCard, or VISA are accepted.

Check or Money Order

Payable to NTIS in U.S. dollars drawn on a U.S. bank; or in U.S. dollars drawn on an international bank with a U.S. bank address on the check; or in U.S. dollars drawn on a Canadian bank.

NTIS Deposit Account

This convenient debit account service makes it easier to order from NTIS. The advantages include:

- Easy ordering by telephone, online or by mail
- An account number to simplify all ordering
- Use of NTIS QuikSERVICE for ordering
- Monthly statements with detailed transactions and routing information
- A subscription to NTIS *Newsline*, issued quarterly.

To open an account, call the NTIS Customer

Accounts Division at (703) 487-4064, or write to receive Form NTIS PR33.

Purchase Order

Add \$7.50 to the total order (United States, Canada, and Mexico only). A late payment charge is applied to all billings more than 30 days overdue.

Special Delivery Options

Rush Order Service

Technical report rush orders are generally shipped the next day by overnight courier in the United States or by Air Mail to Canada, Mexico, and other countries. Add \$15 per title. For customers outside the United States, Canada, and Mexico, add \$25. To order, call 1-(800)-553-NTIS. Outside the United States, call (703) 487-4650.

Computer Product Rush Service

Computer product rush orders are charged the same as technical report rush orders if the computer product is in stock.

If the diskettes or tapes need to be produced, they are processed by NTIS within 5 business days for the following rates:

- For diskettes, add \$25 per title. Rush fees for tapes range from \$50 to \$100,
- Outside the United States, Canada, and Mexico: for diskettes, add \$35 per title. Rush fees for tapes range from \$60 to \$130.

To order, call 1-(800)-553-NTIS. Outside the United States, call (703) 487-4650.

Pickup Service

Orders may be picked up at the NTIS Bookstore at 5285 Port Royal Road, Springfield, Virginia (I-495, Exit 5 West) between 8:30 a.m. and 5 p.m. The \$3 handling fee is waived. Customers may also use the Bookstore to research their information needs.

Air Mail

Orders are shipped surface mail to countries other than the United States, unless air mail is requested.

Shipping printed reports by air mail is \$4 per report to Canada and Mexico and \$8 per report to other countries.

Shipping microfiche is \$1 per report to Canada and Mexico and \$1.25 per report to other countries.

Additional Information

Order Numbers

All NTIS orders are processed using the NTIS order number. Always use it to speed your request. It is provided in each NTIS information citation.

If you do not have the order number, NTIS can provide it if you have the complete title of the report. Write or call the NTIS Research Services Branch at (703) 487-4780. A limit of three titles will be identified by telephone at one time. Help is available from 8:30 a.m. to 5 p.m., eastern time.

Prices

Prices are usually identified with a price code. To convert price codes to a dollar amount, see pg. . To get additional copies of the price schedule, call (703) 487-4650 and ask for NTIS PR-360-3 for the United States, Canada, and Mexico. For other countries, ask for NTIS PR-360-4.

Handling Fee

A \$3 handling fee per order applies to orders from the United States, Canada, and Mexico. For other countries, the handling fee is \$4 per order. The handling fee does NOT apply to rush orders, NTIS QuikSERVICE, pick-up orders, subscriptions, standing orders, or Selected Research in Microfiche (SRIM).

Postage and Shipping

Orders are sent first class or equivalent in the United States. Orders to other countries are shipped surface mail unless air mail or courier service is requested.

Tracing an Order

If you have questions about your order, write or call NTIS Customer Services at (703) 487-4660 between 8:30 a.m. and 5 p.m., eastern time.

Discounts for Technical Reports

A 25-percent discount is available for most documents if five or more copies of a single title are ordered at the same time and shipped to the same address. For discounts on more than 100 copies, call (703) 487-4650.

Library Discounts

Academic libraries can receive a 10-percent education credit on orders. For information call the NTIS Customer Accounts Division at (703) 487-4064.

Refund Policy

Although NTIS cannot accept returns for credit or refund, they will gladly replace any item you requested if they made an error in filling your order, if the item was defective, or if you received it in damaged condition. Just call NTIS Customer Services at (703) 487-4660.

Holiday Openings

The NTIS Sales Desk, Bookstore, and Customer Services are open from 8:30 a.m. to 5 p.m., eastern time, on four Federal holidays: Dr. Martin Luther King, Jr.'s Birthday, Presidents' Day, Columbus Day, and Veterans Day.

Original Stock

After the original stock of a technical report is exhausted, NTIS reprints directly from the master archival copy. These printed-to-order copies are the best possible reproductions.

NTIS Price Schedules 1994

NTIS generally uses price codes to indicate the cost of items sold. The following schedules convert these codes into actual 1994 prices for customers in the

United States, Canada, and Mexico only and are subject to change. For the most recent schedule, write or call (703) 487-4650 and request NTIS PR-360-3. Customers in other countries should ask for NTIS PR-360-4.

Price Codes for Microfiche and Printed Reports

Note: "A" codes apply to standard prices.

Price Code	Price-\$
A01	9.00
A02	12.50
A03	17.50
A04 through A05	19.50
A06 through A09	27.00
A10 through A13	36.50
A14 through A17	44.50
A18 through A21	52.00
A22 through A25	61.00
A99	Contact NTIS for price

How to Order from the National Energy Information Center

Subscriptions and current in-stock single issues are available free of charge from NEIC for the following users: Government, news media, public and academic libraries, and EIA's survey respondents.

Call (202) 586-8800 (or TTY: (202) 586-1181) for more information or use Order Form C. This form is also used for change of address, for deleting a name from the NEIC mailing list, or for ordering free publications.

How to Use Order Forms

To order EIA publications, first identify the distribution agency: the Government Printing Office (GPO), the National Technical Information Service (NTIS), or the National Energy Information Center (NEIC).

Please note separate order forms, marked A, B, and C. To ensure expedient processing of your order(s), it is imperative to use the appropriate order form. General instructions for the use of the order forms follow; more specific instructions are included on the form.

Use Order Form A for EIA publications available on a subscription basis from GPO. When placing your subscription order, always specify the publication title and include either payment in full, a charge card number, or deposit account information. Send the completed order form to GPO at the address on the order form. Or you may call (202) 783-3238 between 8 a.m. and 4 p.m., eastern time, Monday through Friday or fax (202) 512-2250, 24 hours a day, seven days a week.

Use Order Form B for ordering EIA publications available from NTIS. Send the completed form to NTIS at the address on the order form. Always include either payment in full, a charge card number, or deposit account information with your order. Or you may call (703) 487-4650 or fax either (703) 321-8547 or (703) 321-9038.

Use Order Form C for ordering free publications, free subscriptions, and for NEIC mail list changes/additions. Send the completed form to NEIC using the address on the order form.

NOTICE

Prices of EIA publications sold by the U.S. Government Printing Office (GPO) and the National Technical Information Service (NTIS) are subject to change without notice.

When EIA publications are discontinued and consolidated into other reports, the individuals who received copies of the terminated publication through the EIA mailing list are automatically placed on the mailing list for the new publication. Subscribers to discontinued, paid publications through GPO are generally sent refunds for any balances remaining on their subscription. For further information about paid subscriptions, please contact GPO at (202) 783-3238.

Figure 1. Order Form A: GPO Order Form

Superintendent of Documents Order Form

Order Processing Code:

★ **7331**

**Charge your order.
It's easy!**

To fax your orders (202) 512-2250

Publications

Qty.	Stock Number	Title	Price Each	Total Price
Total for Publications				

Subscriptions

Qty.	(List ID)	Title	Price Each	Total Price
			Total for Subscriptions	
International customers please add 25%. Prices subject to change.			Total Cost of Order	

International customers please add 25%. Prices subject to change.

The total cost of my order is * _____. Price includes regular shipping and handling and is subject to change.

Company or personal name (Please type or print)

Additional address/attention line

Street address

City, State, Zip code

Daytime phone including area code

Purchase order number (optional)

Check method of payment:

☐ Check payable to Superintendent of Documents☐ GPO Deposit Account

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☐ VISA ☐ MasterCard

[illegible]

				(expiration date)
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Thank you for your order!

Authorizing signature

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Mail To: Superintendent of Documents
P.O. Box 371954, Pittsburgh, PA 15250-7954

Figure 2. Order Form B: NTIS Order Form

NTIS® Order Form

U.S. DEPARTMENT OF COMMERCE
Technology Administration
National Technical Information Service
Springfield, VA 22161

To order subscriptions, call (703) 487-4630.
TDD (for hearing impaired only), call (703) 487-4639.

(703) 487-4650

or FAX this form (703) 321-8547*

For Rush Service—1-800-553-NTIS

Rush service is available for an additional fee by calling the number above. Rush orders are usually shipped next day by overnight courier in the U.S. or by Air Mail outside the U.S. Do not mail rush orders.

*To verify receipt of your FAX order, call (703) 487-4679.

Ship to address

Date _____ DTIC Users Code _____
Contract No. _____ Last six digits _____
Company _____
Last Name _____ First Initial _____
Title _____
Street Address _____
City/State/ZIP _____
Attention _____
Telephone number _____ FAX number _____
Signature: _____
(Required to validate all orders)

Payment

☐ Charge my NTIS Deposit Account _____
Charge my ☐ ☐ ☐
Account No. _____
Exp. _____ Cardholder's name _____
☐ Check/Money order enclosed for \$ _____
(Payable in U.S. dollars)
☐ Bill me \$—Add \$7.50 per order if full payment does not accompany order. Purchase orders only accepted from Government agencies, educational institutions, or corporations in the U.S., Canada & Mexico.
Purchase Order No. _____

For a copy of the latest NTIS price code conversion table, call (703) 487-4650 and ask for PR-360-3 for prices in the U.S., Canada, and Mexico. Ask for PR-360-4 for conversion table for foreign prices.

Order Selection

Enter NTIS order numbers (Ordering by title alone will delay your order)	Customer Routing ¹ (up to 8 digits)	Unit Price	Quantity			Specify density for tape orders			Internat'l Air Mail (see reverse)	TOTAL PRICE
			Paper Copy	Micro- fiche	Other	1600 bpi	6250 bpi	3480 cartridge		
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										

¹NTIS will label each item with up to eight characters of your organization's routing code. Unless microfiche is specified, paper copy will automatically be sent.

Please note:

Although NTIS cannot accept returns for credit or refund, we will gladly replace any item you requested if we made an error in filling your order, if the item is defective, or if it was received in damaged condition. Just call our Customer Service Department at (703) 487-4660.

Handling Fee	U.S., Canada & Mexico—\$3
per order	Other countries—\$4
* Billing Fee, add \$7.50	
GRAND TOTAL	

Prices are subject to change.

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All previous versions of this order form are obsolete

Please PRINT or TYPE.

Please PRINT or TYPE.

Figure 3. Order Form C: NEIC Order Form

NEIC Orders

NATIONAL ENERGY INFORMATION CENTER ORDER FORM

TO ORDER FREE PUBLICATIONS--TO NOTIFY NEIC OF CHANGE OF ADDRESS
--TO CANCEL A MAILING LIST PUBLICATION

Mail to: National Energy Information Center, EI-231
Energy Information Administration
Room 1F-048, Forrestal Building
Washington, DC 20585

Name

Business Affiliation

Address

City and State

Zip Code

()

Phone number with area code

Mail List I.D. Number
(Found in upper left
corner of your mailing
label.)

- ☐ Change of address.
- ☐ Add name to mailing list for free publication(s) as listed below.
- ☐ Take name off mailing list for publication(s) as listed below.
- ☐ Free publication(s) as listed below.

DOE/EIA Number	Title	Number of Copies

DATE

FILMED

8/25/94

END