U.S. Hydropower Resource Assessment
for
Oklahoma

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MASTER

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ABSTRACT

The Department of Energy is developing an estimate of the hydropower development potential in this country. The Hydropower Evaluation Software (HES) is a computer model that was developed by the Idaho National Engineering Laboratory for this purpose. The HES measures the potential hydropower resources available in the United States, using uniform criteria for measurement. The software was developed and tested using hydropower information and data provided by the Southwestern Power Administration. It is a dBASE menu-driven software application that allows the personal computer user to assign environmental attributes to potential hydropower sites, calculate development suitability factors for each site based on the environmental attributes present, and generate reports based on these suitability factors. This report details the resource assessment results for the state of Oklahoma.

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U.S. Hydropower Resource Assessment for Oklahoma

INTRODUCTION

In June 1989, the U.S. Department of Energy initiated the development of a National Energy Strategy to identify the energy resources available to support the expanding demand for energy in the United States. Public hearings conducted as part of the strategy development process indicated that potential hydropower resources were not well defined. As a result, the Department of Energy established an interagency Hydropower Resource Assessment Team to ascertain the hydropower potential. In connection with these efforts by the Department of Energy, the Idaho National Engineering Laboratory designed the Hydropower Evaluation Software (HES), which has been used to perform a resource assessment of the undeveloped hydropower potential in Oklahoma (as well as several other states). This report presents the results of the hydropower resource assessment for the state of Oklahoma. Pumped storage hydropower potential is not included.

The HES was developed as a tool to measure hydropower potential by regional power marketing administrations and state energy agencies, because they were the most likely to have and need accurate hydropower information. The HES was not intended to provide precise development factors for individual sites, but to provide regional or state capacity totals. Because the software was developed as a generic measurement tool encompassing national issues, regional and state totals must be considered judiciously; various local issues may skew hydropower potential totals. The information for the resource assessment was compiled from the Federal Energy Regulatory Commission's Hydropower Resource Assessment database and several other sources. Refer to DOE/ID-10338, the User's Manual (Francfort, Matthews, Rinehart, 1991) for the specifics of the software and to DOE/ID-10430,

the Status Report (Francfort, Moore, Rinehart, 1993) for an overview of all resource assessment activities to date.

Model Development

Hydropower Evaluation Software, both a probability-factor computer model and a data base, is a dBASE, menu-driven software application that is intended to be user-friendly. Computer screens and report generation capabilities were developed to meet the needs of users nationwide. The software uses environmental attribute data to generate an overall project environmental suitability factor (PESF) between 0.1 and 0.9, where 0.9 indicates the highest likelihood of development and 0.1 indicates the lowest likelihood of development. Suitability factors depend on environmental attributes of a potential site. They reflect the considerations that (a) environmental concerns can make a potential site unacceptable, prohibiting its development (for a suitability factor of 0.1), or (b) absence of environmental concern can have little or no effect on the likelihood of site development (for a suitability factor of 0.9). A combination of attributes results in a lower suitability factor because multiple environmental considerations reduce the likelihood that a site may be developed to its physical potential.

Model Goal

The goal of the HES is to assemble an accurate resource database of all potential hydropower sites in the United States for use as a planning tool to determine the viable national hydropower potential. Potential hydropower is not limited to the development of new sites; it also includes the development of additional hydropower at sites that currently have hydropower but are not developed to their full potential. This hydropower potential is a source of nonpolluting, renewable energy available to meet the growing power needs of the United States. The HES should make

this goal attainable and help assure a set of uniform criteria for national assessment.

Dam Status

The effects of environmental attributes vary by dam status. The dam status classifications follow the Federal Energy Regulatory Commission (FERC) standard, which is

- W = Developed hydropower site with power. The total hydropower capacity has not been fully developed. Only the undeveloped capacity is discussed in this report.
- W/O = Developed site without power generation. The site has some type of developed impoundment or diversion structure but no hydropower generating capacity.
- U = Undeveloped site. The site does not have power generation capability nor a developed impoundment or diversion structure.

ASSESSMENT RESULTS

Summary Results

A total of 33 sites have been identified and assessed for their hydropower potential. Information as to the potential megawatts of capacity for 8 of the sites was not available; however, these sites have been identified as having hydropower potential and are included in the group of 33. The Hydropower Evaluation Software results for site capacities range from 90 kilowatts to 85 megawatts. Most of the sites have potential capacities of under 5 megawatts (Figure 1).

The unadjusted hydropower potential for Oklahoma was identified as being 542 megawatts. The Hydropower Evaluation Software results lower this estimate 37% to 341 megawatts. The greatest reduction in undeveloped potential occurs at sites with no physical structures present. These undeveloped sites have a Hydropower Evaluation Software estimated capacity of 94 megawatts, a 50% reduction in capacity (Figure 2). The number of sites does not change, only the identified capacity is reassessed (Figure 3).

Figure 1. Number of sites with various capacity potentials. The unknown category is for sites that have hydropower potential but the size of the potential is undefined.

Figure 2. The Hydropower Evaluation Software identified potential hydropower capacity and the unadjusted potential capacity.

Figure 3. The number of sites with potential hydropower capacity and the total megawatts of potential capacity.

The 33 identified sites are located within 4 river basins. The number of sites per river basin ranges from 4 in the Upper Red River Basin to 12 sites in the Grand-Neosho River Basin (Figure 4). The Grand-Neosho River Basin has the most undeveloped potential hydropower capacity of the Oklahoma river basins (Figure 5).

Detailed Results

The appendices contain, in the form of Hydropower Evaluation Software generated reports, detailed information of the potential hydropower capacity in Oklahoma. The appendices contain the following information:

Appendix A The hydropower capacity summary for Oklahoma categorizes sites by dam status. The number of sites, unadjusted capacity, and Hydropower Evaluation Software adjusted capacity are provided based on the dam status.

Appendix B The hydropower resource assessment by river basin includes the FERC project number, project name, stream name, dam status,

unadjusted capacity, and Hydropower Evaluation Software adjusted capacity for each of the individual sites. Subtotals are provided for each river basin.

Appendix C This is a listing of the project numbers, plant name, stream name, if a site is Federally owned, unadjusted capacity, and Hydropower Evaluation Software adjusted capacity. The sites are grouped by dam status.

Appendix D This section contains a resource database listing for each of the 33 sites in Oklahoma. Information includes plant, stream, state, county, river basin and owner names; project number; name plate and Hydropower Evaluation Software adjusted capacity ratings; the unit and plant types, dam status; latitude; longitude; and the environmental factors that the Hydropower Evaluation Software uses to determine the project environmental suitability factor.

Figure 4. Number of sites with potential hydropower capacity in the Oklahoma river basins.

Figure 5. Potential hydropower capacity in the Oklahoma river basins.

OBTAINING INDIVIDUAL STATE INFORMATION

Additional copies of the hydropower resource assessment results for individual states are available and can be obtained by writing or calling the National Technical Information Service (NTIS).

Telephone Orders – (703) 487-4650. NTIS sales desk and customer services are available between 8:30 a.m. and 5:00 p.m., Eastern Standard Time.

Fax – (703) 321-8547. Customers may fax their orders to NTIS. These orders may be charged to a NTIS deposit account, American Express, VISA, or MasterCard.

Mail Orders – Mail orders should be sent to National Technical Information Service, Document Sales, 5285 Port Royal Road, Springfield, VA 22161. Call the sales desk for prices before placing an order.

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Rush Order Service – Call 1-800-533-NTIS. In Virginia, Canada, and Mexico call (703) 487-4700. For NTIS rush order service add

\$15.00 per item. This guarantees that an order will be processed through NTIS within 24 hours of its receipt. These orders receive immediate, individual attention. The items ordered are delivered by first call mail. Call NTIS for information on rush order service for computer products.

For Help in Tracing an Order – Call (703) 487-4650 and request the customer service option.

ADDITIONAL HYDROPOWER EVALUATION SOFTWARE INFORMATION

Additional information concerning the Hydropower Evaluation Software can be obtained by contacting Ben Rinehart or Jim Francfort at the addresses provided below. Copies of the software and the User's Manual may also be obtained from these individuals.

Ben Rinehart
Idaho National Engineering Laboratory
P.O. Box 1625
Idaho Falls, ID 83415-3830
(208) 526-1002

Jim Francfort
Idaho National Engineering Laboratory
P.O. Box 1625
Idaho Falls, ID 83415-3875
(208) 526-6787

Information concerning the state of Oklahoma involvement with the resource assessment or about the identified sites may be obtained by contacting:

Mike Mathis
Planning and Development Division
Oklahoma Water Resources Board
P.O. Box 53585
N.E. 10th and Stonewall
Oklahoma City, OK 73152
(405) 842-7896

REFERENCES

- Francfort, J. E., S. D. Matthews, and B. N. Rinehart, 1991, *Hydropower Evaluation Software User's Manual*, DOE/ID-10338, Idaho National Engineering Laboratory, Idaho Falls, Idaho.
- Francfort, J. E., K. M. Moore, and B. N. Rinehart, 1993, *Uniform Criteria for U.S. Hydropower Resource Assessment, Hydropower Evaluation Software Status Report*, DOE/ID-10430, Idaho National Engineering Laboratory, Idaho Falls, Idaho.

Appendix A
Hydropower Capacity Summary

DATE: 10/05/93

H Y D R O P O W E R C A P A C I T Y S U M M A R Y

<u>State</u>	<u>Category</u>	<u>Number of Projects</u>	<u>Name Plate Capacity (KW)</u>	<u>HES Adjusted Capacity (KW)</u>
OK	With Power	9	273940	178506
	W/O Power	18	78480	67676
	Undeveloped	6	189990	94399
	STATE TOTAL	33	542410	340581
TOTALS	With Power	9	273940	178506
	W/O Power	18	78480	67676
	Undeveloped	6	189990	94399
GRAND TOTAL		33	542410	340581

Appendix B

Hydropower Resource Assessment by River Basin

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** River Basin GRAND-NEOSHO RIVER BASIN					
01494A	PENSACOLA NEOSHO R	W	170100.00	0.50	85050.00
02183A	MARKHAM FERRY NEOSHO R	W	31340.00	0.90	28206.00
OK004	KEYSTONE ARKANSAS R	W	0.00	0.90	0.00
OK013	FORT GIBSON NEOSHO R	W	42500.00	0.90	38250.00
03083A	KAW ARKANSAS R	WO	0.00	0.90	0.00
06356X	HULAH CANEY R	WO	1640.00	0.90	1476.00
08761A	OOLOGAH VERDIGRIS R	WO	17500.00	0.90	15750.00
10497A	LAKE EUCHA * SPAVINAW CR, NEOSHO R	WO	900.00	0.90	810.00
10529X	SKIATOOK HOMINY CR, BIRD CR, VERDIGRIS R	WO	1040.00	0.75	780.00
10591X	NEWT GRAHAM L&D 18 VERDIGRIS R	WO	900.00	0.90	810.00
10592X	CHOUTEAU L&D 17 VERDIGRIS R	WO	900.00	0.90	810.00
OK006	SPAVINAW SPAVINAW CR, NEOSHO R	WO	2625.00	0.90	2362.50
** Subtotal **			269445.00		174304.50
** River Basin LOWER ARKANSAS RIVER BASIN					
OK001	WEBBERS FALLS ARKANSAS R	W	0.00	0.90	0.00
OK011	EUFAULA CANADIAN R	W	30000.00	0.90	27000.00
OK012	TENKILLER FERRY ILLINOIS R	W	0.00	0.90	0.00

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
OK014	ROBERT S KERR ARKANSAS R	W	0.00	0.90	0.00
08124X	WISTER LAKE DAM POTEAU R	WO	4000.00	0.90	3600.00
08983X	MAYO L&D 14 ARKANSAS R	WO	32900.00	0.90	29610.00
** Subtotal **			66900.00		60210.00
** River Basin LOWER RED RIVER BASIN					
08492A	MCGEE CREEK MCGEE CR, MUDDY BOGGY CR	U	150.00	0.90	135.00
OK005	BOSWELL ALT BOGGY CR, RED R	U	73000.00	0.90	65700.00
OK007	UPPER ANTLERS KIAMICHI R	U	90000.00	0.10	9000.00
OK008	BUCK CREEK BUCK CR, KIAMICHI R	U	3100.00	0.90	2790.00
OK009	TUSKAHOMA KIAMICHI R	U	5740.00	0.10	574.00
OK015	CANEY MOUNTAIN LITTLE R	U	18000.00	0.90	16200.00
OK010	BROKEN BOW MOUNTAIN FK R, LITTLE R	W	0.00	0.50	0.00
03555X	HUGO KIAMICHI R	WO	3000.00	0.90	2700.00
03657A	PINE CREEK LITTLE R	WO	4000.00	0.90	3600.00
08073X	SARDIS LAKE JACKFORK CR, KIAMICHI R	WO	1060.00	0.90	954.00
10006X	BROKEN BOW REG MOUNTAIN FK R, LITTLE R	WO	7000.00	0.50	3500.00

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **					
			205050.00		105153.00
** River Basin UPPER RED RIVER BASIN					
03329X	LAKE ALTUS DAM N FK RED R	WO	915.00	0.90	823.50
06958X	MILL CREEK DAM MILL CR, WASHITA R	WO	100.00	0.90	90.00
OK002	CARNEGIE WASHITA R	WO	0.00	0.90	0.00
OK003	CHICKASHA WASHITA R	WO	0.00	0.90	0.00
** Subtotal **					
			1015.00		913.50
*** Total ***					
			542410.00		340581.00

Appendix C
Oklahoma (OK) Sites

HYDROPOWER RESOURCE ASSESSMENT BY STATE

FERC Number	Plant Name/ Stream	Fed. Proj	Name Plate Rating (KW)	PESF	KW * PESF
** State Name OK					
** Dam Status: W					
OK001	WEBBERS FALLS ARKANSAS R	Yes	0.00	0.90	0.00
OK004	KEYSTONE ARKANSAS R	Yes	0.00	0.90	0.00
OK010	BROKEN BOW MOUNTAIN FK R, LITTLE R	Yes	0.00	0.50	0.00
OK011	EUFULA CANADIAN R	Yes	30000.00	0.90	27000.00
OK012	TENKILLER FERRY ILLINOIS R	Yes	0.00	0.90	0.00
OK013	FORT GIBSON NEOSHO R	Yes	42500.00	0.90	38250.00
OK014	ROBERT S KERR ARKANSAS R	Yes	0.00	0.90	0.00
01494A	PENSACOLA NEOSHO R		170100.00	0.50	85050.00
02183A	MARKHAM FERRY NEOSHO R		31340.00	0.90	28206.00
* Subsubtotal *			273940.00		178506.00
** Subtotal **			273940.00		178506.00
*** Total ***			273940.00		178506.00

HYDROPOWER RESOURCE ASSESSMENT BY STATE

FERC Number	Plant Name/ Stream	Fed. Proj	Name Plate Rating (KW)	PESF	KW * PESF
** State Name OK					
** Dam Status: WO					
08983X	MAYO L&D 14 ARKANSAS R		32900.00	0.90	29610.00
03083A	KAW ARKANSAS R		0.00	0.90	0.00
03329X	LAKE ALTUS DAM N FK RED R		915.00	0.90	823.50
03555X	HUGO KIAMICHI R		3000.00	0.90	2700.00
03657A	PINE CREEK LITTLE R		4000.00	0.90	3600.00
08073X	SARDIS LAKE JACKFORK CR, KIAMICHI R		1060.00	0.90	954.00
08124X	WISTER LAKE DAM POTEAU R		4000.00	0.90	3600.00
10006X	BROKEN BOW RRG MOUNTAIN FK R, LITTLE R		7000.00	0.50	3500.00
10497A	LAKE EUCHA * SPAVINAW CR, NEOSHO R		900.00	0.90	810.00
OK006	SPAVINAW SPAVINAW CR, NEOSHO R		2625.00	0.90	2362.50
OK002	CARNEGIE WASHITA R		0.00	0.90	0.00
OK003	CHICKASHA WASHITA R		0.00	0.90	0.00
06356X	HULAH CANEEY R		1640.00	0.90	1476.00
06958X	MILL CREEK DAM MILL CR, WASHITA R		100.00	0.90	90.00
08761A	OOLOGAH VERDIGRIS R		17500.00	0.90	15750.00

HYDROPOWER RESOURCE ASSESSMENT BY STATE

FERC Number	Plant Name/ Stream	Fed. Proj	Name Plate Rating (KW)	PESF	KW * PESF
10529X	SKIATOOK HOMINY CR, BIRD CR, VERDIGRIS R		1040.00	0.75	780.00
10591X	NEWT GRAHAM L&D 18 VERDIGRIS R		900.00	0.90	810.00
10592X	CHOUTEAU L&D 17 VERDIGRIS R		900.00	0.90	810.00
* Subsubtotal *			78480.00		67676.00
** Subtotal **			78480.00		67676.00
*** Total ***			78480.00		67676.00

HYDROPOWER RESOURCE ASSESSMENT BY STATE

FERC Number	Plant Name/ Stream	Fed. Proj	Name Plate Rating (KW)	PESF	KW * PESF
** State Name OK					
** Dam Status: U					
OK005	BOSWELL ALT BOGGY CR, RED R	Yes	73000.00	0.90	65700.00
OK007	UPPER ANTLERS KIAMICHI R	Yes	90000.00	0.10	9000.00
OK008	BUCK CREEK BUCK CR, KIAMICHI R	Yes	3100.00	0.90	2790.00
OK009	TUSKAHOMA KIAMICHI R	Yes	5740.00	0.10	574.00
OK015	CANEY MOUNTAIN LITTLE R	Yes	18000.00	0.90	16200.00
08492A	MC GEE CREEK MC GEE CR, MUDDY BOGGY CR		150.00	0.90	135.00
* Subsubtotal *			189990.00		94399.00
** Subtotal **			189990.00		94399.00
*** Total ***			189990.00		94399.00

DATE: 10/05/93

H Y D R O P O W E R C A P A C I T Y S U M M A R Y

State	Category	Number of Projects	Name Plate Capacity (KW)	HES Adjusted Capacity (KW)
OK	With Power	9	273940	178506
	W/O Power	18	78480	67676
	Undeveloped	6	189990	94399
	STATE TOTAL	33	542410	340581
TOTALS	With Power	9	273940	178506
	W/O Power	18	78480	67676
	Undeveloped	6	189990	94399
GRAND TOTAL		33	542410	340581

Appendix D
Resource Database Listing

RESOURCE DATABASE LISTING

DATE: 10/05/93

PAGE NO: 1

FERC Number	Plant Name	Stream	State Name
01494A	PENSACOLA	NEOSHO R	OK

County Name	River Basin
MAYES	GRAND-NEOSHO RIVER BASIN

Class	Owner Name
M	GRAND RIVER DAM AUTH

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
170100.00	0.50	85050.00	125820.00	62910

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3630.00 9500.00
Z	STG	MO	W		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value		0.90	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value	Y	0.75	Federal Land Code 198	Y	0.90
Scenic Value		0.90			

RESOURCE DATABASE LISTING

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FERC Number	Plant Name	Stream	State Name
02183A	MARKHAM FERRY	NEOSHO R	OK

County Name	River Basin
MAYES	GRAND-NEOSHO RIVER BASIN

Class	Owner Name
M	GRAND RIVER DAM AUTH

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
31340.00	0.90	28206.00	64600.00	58140

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3614.00 9511.00
Z	ROR	MO	W		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

RESOURCE DATABASE LISTING

DATE: 10/05/93

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FERC Number	Plant Name	Stream	State Name
03083A KAW		ARKANSAS R	OK

County Name	River Basin
KAY	HRAND-NEOSHO RIVER BASIN

Class	Owner Name
M	OKLAHOMA MUNICIPAL PWR AUTH

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
0.00	0.90	0.00	0.00	0

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3642.00 9656.00
Z	STG	MO	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife		0.90
Cultural Value	0.90		Federal Land Code 103		0.90
Fish Presence Value	0.90		Federal Land Code 104		0.90
Geologic Value	0.90		Federal Land Code 105		0.90
Historic Value	0.90		Federal Land Code 106		0.90
Other Value	0.90		Federal Land Code 107		0.90
Recreation Value	0.90		Federal Land Code 108		0.90
Scenic Value	0.90		Federal Land Code 198	Y	0.90

R E S O U R C E D A T A B A S E L I S T I N G

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FERC Number	Plant Name	Stream	State Name
03329X	LAKE ALTUS DAM	N FK RED R	OK

County Name	River Basin
KIOWA	UPPER RED RIVER BASIN

Class	Owner Name
M	ALTUS, CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
915.00	0.90	823.50	1976.00	1778.40

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3453.00 9917.00
C	STG	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

R E S O U R C E D A T A B A S E L I S T I N G

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FERC Number	Plant Name	Stream	State Name
03555X	HUGO	KIAMICHI R	OK

County Name	River Basin
CHOCTAW	LOWER RED RIVER BASIN

Class	Owner Name
M	BROKEN BOW,CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
3000.00	0.90	2700.00	13500.00	12150

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3401.00 9523.00
C	ROR	XX	WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	Y 0.90

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FERC Number	Plant Name	Stream	State Name
03657A	PINE CREEK	LITTLE R	OK

County Name	River Basin
MCCURTAIN	LOWER RED RIVER BASIN

Class	Owner Name
M	NASHVILLE, AR & BROKEN BOW, OK

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
4000.00	0.90	3600.00	14700.00	13230

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3406.00 9505.00
C	ROR	MO	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife		0.90
Cultural Value	0.90		Federal Land Code 103		0.90
Fish Presence Value	0.90		Federal Land Code 104		0.90
Geologic Value	0.90		Federal Land Code 105		0.90
Historic Value	0.90		Federal Land Code 106		0.90
Other Value	0.90		Federal Land Code 107		0.90
Recreation Value	0.90		Federal Land Code 108		0.90
Scenic Value	0.90		Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
06356X	HULAH	CANEY R	OK

County Name	River Basin
OSAGE	GRAND-NEOSHO RIVER BASIN

Class	Owner Name
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R	ENERGENICS SYSTEMS INC
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1640.00	0.90	1476.00	2500.00	2250

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3556.00 9605.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife		0.90
Cultural Value	0.90		Federal Land Code 103		0.90
Fish Presence Value	0.90		Federal Land Code 104		0.90
Geologic Value	0.90		Federal Land Code 105		0.90
Historic Value	0.90		Federal Land Code 106		0.90
Other Value	0.90		Federal Land Code 107		0.90
Recreation Value	0.90		Federal Land Code 108		0.90
Scenic Value	0.90		Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
06958X	MILL CREEK DAM	MILL CR,WASHITA R	OK

County Name	River Basin
JOHNSTON	UPPER RED RIVER BASIN

Class	Owner Name
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R	CHAPMAN, FRED
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
100.00	0.90	90.00	525.00	472.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3413.00 9654.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
08073X	SARDIS LAKE	JACKFORK CR,KIAMICHI R	OK

County Name	River Basin
PUSHMATAHA	LOWER RED RIVER BASIN

Class	Owner Name
M	REDARK DEV AUTH

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1060.00	0.90	954.00	4496.00	4046.40

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3438.00
C	STG	XX	WO	Longitude	9520.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value		0.90	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value		0.90	Federal Land Code 198	Y	0.90
Scenic Value		0.90			

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FERC Number	Plant Name	Stream	State Name
08124X	WISTER LAKE DAM	POTEAU R	OK

County Name	River Basin
LE FLORE	LOWER ARKANSAS RIVER BASIN

Class	Owner Name
M	REDARK DEV AUTH

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
4000.00	0.90	3600.00	12880.00	11592

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3456.00 9443.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
08492A	MCGEE CREEK	MCGEE CR,MUDDY BOGGY CR	OK

County Name	River Basin
ATOKA	LOWER RED RIVER BASIN

Class		Owner Name	
R		PRODEK, INC,ET AL	
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)
150.00	0.90	135.00	730.00
			PESF Annual Energy Rating (MWh)
			657

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3423.00 9553.00
C	ROR	NO	U		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location	0.90		Federal Land Code 103		0.90
Cultural Value	0.90		Federal Land Code 104		0.90
Fish Presence Value	0.90		Federal Land Code 105		0.90
Geologic Value	0.90		Federal Land Code 106		0.90
Historic Value	0.90		Federal Land Code 107		0.90
Other Value	0.90		Federal Land Code 108		0.90
Recreation Value	0.90		Federal Land Code 198	Y	0.90
Scenic Value	0.90				

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FERC Number	Plant Name	Stream	State Name
08761A	OOLOGAH	VERDIGRIS R	OK

County Name	River Basin
ROGERS	GRAND-NEOSHO RIVER BASIN

Class	Owner Name			
R	PRODEK, INC			
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
17500.00	0.90	15750.00	58000.00	52200

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3625.00 9541.00
C	ROR	MO	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
08983X	MAYO L&D 14	ARKANSAS R	OK

County Name	River Basin
SEQUOYAH	LOWER ARKANSAS RIVER BASIN

Class	Owner Name
C	CHEROKEE NATION OF OK

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
32900.00	0.90	29610.00	138000.00	124200

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3519.00	Longitude	9434.00
C	ROR	XX	WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value		0.90	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value		0.90	Federal Land Code 198	Y	0.90
Scenic Value		0.90			

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FERC Number	Plant Name	Stream	State Name
10006X	BROKEN BOW RRG	MOUNTAIN FK R,LITTLE R	OK

County Name	River Basin
MCCURTAIN	LOWER RED RIVER BASIN

Class		Owner Name		
M		REDARK DEVELOPMENT AUTH		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
7000.00	0.50	3500.00	15000.00	7500

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3409.00 9441.00
C	RRG	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
10497A	LAKE EUCHA *	SPAVINAW CR, NEOSHO R	OK

County Name	River Basin
DELAWARE	GRAND-NEOSHO RIVER BASIN

Class		Owner Name			
M		TULSA, CITY OF			
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)	
900.00	0.90	810.00	6200.00	5580	

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3624.00
C	ROR	PO	WO	Longitude	9554.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
10529X	SKIATOOK	HOMINY CR,BIRD CR,VERDIGRIS R	OK

County Name	River Basin
OSAGE	GRAND-NEOSHO RIVER BASIN

Class		Owner Name			
R		PRODEK, INC			
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)	
1040.00	0.75	780.00	5400.00	4050	

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3620.00
C	ROR	XX	WO	Longitude	9605.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	0.90		Wildlife Value	0.90	
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	0.90	
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife	0.90	
Cultural Value	0.90		Federal Land Code 103	0.90	
Fish Presence Value	0.90		Federal Land Code 104	0.90	
Geologic Value	0.90		Federal Land Code 105	0.90	
Historic Value	0.90		Federal Land Code 106	0.90	
Other Value	0.90		Federal Land Code 107	Y	0.75
Recreation Value	0.90		Federal Land Code 108		0.90
Scenic Value	0.90		Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
10591X	NEWT GRAHAM L&D 18	VERDIGRIS R	OK

County Name	River Basin
WAGONER	GRAND-NEOSHO RIVER BASIN

Class		Owner Name		
R		GREEN MOUNTAIN ENERGY INC		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
900.00	0.90	810.00	3150.00	2835

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3604.00 9532.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife		0.90
Cultural Value	0.90		Federal Land Code 103		0.90
Fish Presence Value	0.90		Federal Land Code 104		0.90
Geologic Value	0.90		Federal Land Code 105		0.90
Historic Value	0.90		Federal Land Code 106		0.90
Other Value	0.90		Federal Land Code 107		0.90
Recreation Value	0.90		Federal Land Code 108		0.90
Scenic Value	0.90		Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
10592X	CHOUTEAU L&D 17	VERDIGRIS R	OK

County Name	River Basin
WAGONER	GRAND-NEOSHO RIVER BASIN

Class	Owner Name			
R	GREEN MOUNTAIN ENERGY INC			
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
900.00	0.90	810.00	3150.00	2835

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3552.00 9522.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife		0.90
Cultural Value	0.90		Federal Land Code 103		0.90
Fish Presence Value	0.90		Federal Land Code 104		0.90
Geologic Value	0.90		Federal Land Code 105		0.90
Historic Value	0.90		Federal Land Code 106		0.90
Other Value	0.90		Federal Land Code 107		0.90
Recreation Value	0.90		Federal Land Code 108		0.90
Scenic Value	0.90		Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
OK001	WEBBERS FALLS	ARKANSAS R	OK

County Name	River Basin
MUSKOGEE	LOWER ARKANSAS RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
0.00	0.90	0.00	0.00	0

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3535.00 9510.00
Z	ROR	FA	W		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
OK002	CARNEGIE	WASHITA R	OK

County Name	River Basin
CADDO	UPPER RED RIVER BASIN

Class	Owner Name
P	PUBLIC SERVICE CO OF OK

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
0.00	0.90	0.00	0.00	0

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3510.00
Z	ROR	ZZ	WO	Longitude	9827.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location	0.90		Federal Land Code 103		0.90
Cultural Value	0.90		Federal Land Code 104		0.90
Fish Presence Value	0.90		Federal Land Code 105		0.90
Geologic Value	0.90		Federal Land Code 106		0.90
Historic Value	0.90		Federal Land Code 107		0.90
Other Value	0.90		Federal Land Code 108		0.90
Recreation Value	0.90		Federal Land Code 198	Y	0.90
Scenic Value	0.90				

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FERC Number	Plant Name	Stream	State Name
OK003	CHICKASHA	WASHITA R	OK

County Name	River Basin
GRADY	UPPER RED RIVER BASIN

Class	Owner Name
P	PUBLIC SERVICE CO OF OK

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
0.00	0.90	0.00	0.00	0

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	0.00 0.00
Z	ROR	ZZ	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
OK004	KEYSTONE	ARKANSAS R	OK

County Name	River Basin
TULSA	GRAND-NEOSHO RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
0.00	0.90	0.00	0.00	0

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3609.00
Z	STG	FA	W	Longitude	9615.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location	0.90		Federal Land Code 103		0.90
Cultural Value	0.90		Federal Land Code 104		0.90
Fish Presence Value	0.90		Federal Land Code 105		0.90
Geologic Value	0.90		Federal Land Code 106		0.90
Historic Value	0.90		Federal Land Code 107		0.90
Other Value	0.90		Federal Land Code 108		0.90
Recreation Value	0.90		Federal Land Code 198	Y	0.90
Scenic Value	0.90				

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FERC Number	Plant Name	Stream	State Name
OK005	BOSWELL ALT	BOGGY CR, RED R	OK

County Name	River Basin
CHOCTAW	LOWER RED RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
73000.00	0.90	65700.00	119000.00	107100

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3402.00 9545.00
C	STG	ZZ	U		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife		0.90
Cultural Value	0.90		Federal Land Code 103		0.90
Fish Presence Value	0.90		Federal Land Code 104		0.90
Geologic Value	0.90		Federal Land Code 105		0.90
Historic Value	0.90		Federal Land Code 106		0.90
Other Value	0.90		Federal Land Code 107		0.90
Recreation Value	0.90		Federal Land Code 108		0.90
Scenic Value	0.90		Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
OK006	SPAVINAW	SPAVINAW CR, NEOSHO R	OK

County Name	River Basin
MAYES	GRAND-NEOSHO RIVER BASIN

Class	Owner Name
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M	TULSA, CITY OF
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2625.00	0.90	2362.50	7250.00	6525

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3623.00 9503.00
C	ROR	ZZ	WO		

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or		Threatened/Endangered Fish	0.90
Upstream/Downstream		Threatened/Endangered Wildlife	0.90
Wild/Scenic Location	0.90	Federal Land Code 103	0.90
Cultural Value	0.90	Federal Land Code 104	0.90
Fish Presence Value	0.90	Federal Land Code 105	0.90
Geologic Value	0.90	Federal Land Code 106	0.90
Historic Value	0.90	Federal Land Code 107	0.90
Other Value	0.90	Federal Land Code 108	0.90
Recreation Value	0.90	Federal Land Code 198	Y 0.90
Scenic Value	0.90		

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FERC Number	Plant Name	Stream	State Name
OK007	UPPER ANTLERS	KIAMICHI R	OK

County Name	River Basin
PUSHMATAHA	LOWER RED RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
90000.00	0.10	9000.00	110400.00	11040

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3419.00
C	STG	ZZ	U	Longitude	9538.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.25
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value	Y	0.25	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value		0.90	Federal Land Code 198	Y	0.90
Scenic Value	Y	0.50			

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FERC Number	Plant Name	Stream	State Name
OK008	BUCK CREEK	BUCK CR, KIAMICHI R	OK

County Name	River Basin
PUSHMATAHA	LOWER RED RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
3100.00	0.90	2790.00	22200.00	19980

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3424.00
C	STG	ZZ	U	Longitude	9532.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value		0.90	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value		0.90	Federal Land Code 198	Y	0.90
Scenic Value		0.90			

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FERC Number	Plant Name	Stream	State Name
OK009	TUSKAHOMA	KIAMICHI R	OK

County Name	River Basin
PUSHMATAHA	LOWER RED RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
5740.00	0.10	574.00	12500.00	1250

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3438.00 9507.00
C	STG	ZZ	U		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.25
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.25	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value	Y	0.50	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
OK010	BROKEN BOW	MOUNTAIN FK R,LITTLE R	OK

County Name	River Basin
MCCURTAIN	LOWER RED RIVER BASIN

Class	Owner Name
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F	CORPS OF ENGINEERS
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
0.00	0.50	0.00	0.00	0

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3409.00
Z	ROR	FA	W	Longitude	9439.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value	Y	0.75	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value	Y	0.75	Federal Land Code 198	Y	0.90
Scenic Value	Y	0.90			

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FERC Number	Plant Name	Stream	State Name
OK011	EUFAULA	CANADIAN R	OK

County Name	River Basin
HASKELL	LOWER ARKANSAS RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
30000.00	0.90	27000.00	18000.00	16200

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3519.00 9521.00
Z	STG	FA	W		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
OK012	TENKILLER FERRY	ILLINOIS R	OK

County Name	River Basin
SEQUOYAH	LOWER ARKANSAS RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
0.00	0.90	0.00	0.00	0

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3536.00
Z	STG	FA	W	Longitude	9502.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value		0.90	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value		0.90	Federal Land Code 198	Y	0.90
Scenic Value		0.90			

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FERC Number	Plant Name	Stream	State Name
OK013	FORT GIBSON	NEOSHO R	OK

County Name	River Basin
CHEROKEE	GRAND-NEOSHO RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
42500.00	0.90	38250.00	50200.00	45180

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3552.00 9514.00
C	STG	FA	W		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value		0.90	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value		0.90	Federal Land Code 198	Y	0.90
Scenic Value		0.90			

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FERC Number	Plant Name	Stream	State Name
OK014	ROBERT S KERR	ARKANSAS R	OK

County Name	River Basin
LE FLORE	LOWER ARKANSAS RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
0.00	0.90	0.00	0.00	0

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3521.00 9446.00
Z	ROR	FA	W		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value		0.90	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value		0.90	Federal Land Code 198	Y	0.90
Scenic Value		0.90			

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FERC Number	Plant Name	Stream	State Name
OK015	CANEY MOUNTAIN	LITTLE R	OK

County Name	River Basin
PUSHMATAHA	LOWER RED RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
18000.00	0.90	16200.00	25000.00	22500

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	0.00 0.00
C	STG	ZZ	U		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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