U.S. Hydropower Resource Assessment for Rhode Island

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Published July 1995

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**Prepared for the
U.S. Department of Energy
Assistant Secretary for Energy Efficiency and Renewable Energy
Under DOE Idaho Operations Office
Contract DE-AC07-94ID13223**

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ABSTRACT

The Department of Energy is developing an estimate of the undeveloped hydropower potential in the United States. The Hydropower Evaluation Software (HES) is a computer model that was developed by the Idaho National Engineering Laboratory for this purpose. The software measures the undeveloped 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 menu-driven software program 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 Rhode Island.

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ACKNOWLEDGMENTS

The author thanks Peggy A. M. Brookshier, John V. Flynn and S. J. Seymour of the Department of Energy and James Sheusi of the State of Rhode Island and Providence Plantations for their active participation and timely comments.

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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 undeveloped hydropower resources were not well defined. As a result, the Department of Energy established an interagency Hydropower Resource Assessment Team to ascertain the undeveloped 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 conventional hydropower potential in Rhode Island (as well as several other states). This report presents the results of the hydropower resource assessment for the State of Rhode Island. Undeveloped pumped storage hydropower potential is not included.

The HES was developed as a tool to measure undeveloped hydropower potential regionally or by state. The software is not intended to provide precise development factors for individual sites, but to provide regional or state 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 undeveloped hydropower potential totals. The information for the resource assessment was compiled from the Federal Energy Regulatory Commission's Hydroelectric Power Resources 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 database, is a menu-driven software program 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. The suitability factors depend on the unique environmental attributes of each 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) if there are no environmental concerns, there is no effect on the likelihood of site development (for a suitability factor of 0.9). A combination of attributes can result in a lower suitability factor because multiple environmental considerations would 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 sites with undeveloped hydropower potential in the United States for use as a planning tool to determine the viable national hydropower potential. Undeveloped hydropower potential is not limited to the development of new sites; it also includes the development of additional hydropower generating capacity at sites that currently have hydropower but are not developed to their full potential. This undeveloped hydropower potential is a source of nonpolluting, renewable energy available to meet the growing

power needs of the United States. The HES should help make this goal obtainable and ensure a set of uniform criteria for national assessment.

Dam Status

The effects of environmental attributes vary by dam status. The dam status classifications used are as follows:

- W = Developed hydropower site with current power generation, but the total hydropower potential has not been fully developed. Only the undeveloped hydropower potential is discussed in this report.
- W/O = Developed site without current power generation. The site has some type of developed impoundment or diversion structure, but no developed hydropower generating capability.
- 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 30 sites (Table 1) have been identified and assessed for their undeveloped hydropower potential. The HES results for individual site capacities range from 24 kilowatts to 1.35 megawatts. Most of the sites have potential capacities of under 1 megawatt (Figure 1).

The non-modeled undeveloped hydropower potential total for Rhode Island was identified as 13.5 megawatts. The HES results lower this estimate about 15% to 11.5 megawatts. About equal reductions in undeveloped hydropower potential (15%) occur at sites that are undeveloped and at those sites that have physical structures but no current generation capability (Figure 2). There are no sites that currently generate power and have additional undeveloped potential. At those sites modeled by the HES, the number of sites does not change, only the identified undeveloped hydropower potential is assessed (Figure 3). The 30 identified sites with undeveloped hydropower potential in Rhode Island are all located within minor river basins.

Detailed Results

The appendices contain, in the form of HES-generated reports, detailed information about the undeveloped hydropower potential in Rhode Island. The appendices contain the following:

Table 1. Undeveloped hydropower potential summaries for Rhode Island. The table contains the non-modeled undeveloped name plate potential, as well as the HES-modeled undeveloped hydropower potential totals.

	Number of projects	Name plate potential (MW)	HES modeled potential (MW)
With Power	0	0	0
W/O Power	27	12.0	10.2
Undeveloped	3	1.6	1.3
State Total	30	13.5	11.5

Figure 1. Number of sites with HES-modeled undeveloped hydropower potential.

Figure 2. The HES-modeled undeveloped hydropower potential and the non-modeled undeveloped hydropower potential.

Figure 3. The number of sites with undeveloped hydropower potential and the total megawatts of HES-modeled undeveloped hydropower potential.

Appendix A The undeveloped hydropower potential summary groups sites by dam status. The number of sites, non-modeled undeveloped hydropower potential, and HES-modeled undeveloped hydropower potential are provided based on the dam status.

Appendix B The hydropower resource assessment by river basin includes the project number, project name, stream name, dam status, non-modeled undeveloped hydropower potential, and the HES-modeled undeveloped hydropower potential for each site. Subtotals are provided for each river basin.

Appendix C This is a list of the project numbers, plant name, stream name, if

a site is Federally owned, non-modeled undeveloped hydropower potential, and HES-modeled undeveloped hydropower potential. The sites are grouped by dam status.

Appendix D This section contains a resource database list for each of the 30 sites in Rhode Island. Information includes plant name, stream, state, county, river basin and owner names, project number, name plate and HES-modeled undeveloped hydropower potential, the unit and plant types, dam status, latitude, longitude, and the environmental factors that the HES uses to determine the project environmental suitability factor.

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.

Method of Payment—Customers may pay for reports (and other NTIS products and services) by (a) credit card (American Express, Visa or MasterCard); (b) check or money order on a United States bank payable to NTIS; (c) a NTIS deposit account; or, (d) by asking to be billed (add \$7.50 per order), United States, Canada, and Mexico, only.

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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 HES 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, M.S. 3830
Idaho Falls, ID 83415-3830
(208) 526-1002

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

Information concerning the State of Rhode Island's involvement with the resource assessment or about the identified sites may be obtained by contacting:

James Sheusi
State of Rhode Island and Providence Plantations
Governor's Office of Housing, Energy, & Inter-governmental Relations
275 Westminster St.
Providence, RI 02903
(401) 277-3370

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

Summary Report

DATE: 03/21/95

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>
RI	With Power	0	0	0
	W/O Power	27	11964	10175.65
	Undeveloped	3	1560	1324
	STATE TOTAL	30	13524	11499.65
TOTALS	With Power	0	0	0
	W/O Power	27	11964	10175.65
	Undeveloped	3	1560	1324
GRAND TOTAL		30	13524	11499.65

Appendix B
River Basins Report

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** River Basin MINOR RIVER BASINS					
RI006	BLACKSTONE FALLS BLACKSTONE R	U	1130.00	0.90	1017.00
RI008	HARRIS POND MILL R	U	200.00	0.50	100.00
RI010	E PROVIDENCE WTR WORKS SEEKONK R	U	230.00	0.90	207.00
03013	NATICK DAM PAWTUXET R	WO	522.00	0.90	469.80
03012	RIVERPOINT S BR PAWTUXET R	WO	235.00	0.75	176.25
03009A	CROMPTON (LOWER) S BR PAWTUXET R	WO	110.00	0.90	99.00
03009B	CROMPTON (UPPER) S BR PAWTUXET R	WO	185.00	0.90	166.50
03010	CENTERVILLE S BR PAWTUXET R	WO	155.00	0.90	139.50
03008	QUIDNICK (UPPER) S BR PAWTUXET R	WO	150.00	0.90	135.00
03007	ANTHONY POND S BR PAWTUXET R	WO	150.00	0.90	135.00
RI001	HARRIS N BR PAWTUXET R	WO	465.00	0.75	348.75
RI002	ARKWRIGHT COTTON N BR PAWTUXET R	WO	344.00	0.90	309.60
RI003	ARKWRIGHT MILL N BR PAWTUXET R	WO	365.00	0.90	328.50
RI004	PAWTUCKET UPPER (SLATER MI BLACKSTONE R	WO	470.00	0.50	235.00
RI005	PRATT BLACKSTONE R	WO	840.00	0.90	756.00
RI007	CENTRAL FALLS DAM BLACKSTONE R	WO	725.00	0.75	543.75

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
11042	ASHTON DAM BLACKSTONE R	WO	750.00	0.90	675.00
10931	MANVILLE BLACKSTONE R	WO	1240.00	0.90	1116.00
11041	ALBION BLACKSTONE R	WO	940.00	0.90	846.00
RI009	WOONSOCKET FALLS BLACKSTONE R	WO	1500.00	0.90	1350.00
03531	STAMINA MILLS BRANCH R, BLACKSTONE R	WO	315.00	0.90	283.50
04534	STILLWATER CLEAR R, PASCOAG R	WO	115.00	0.90	103.50
09577	SARANAC BLACKSTONE R	WO	900.00	0.90	810.00
09651	JAMES V TURNER TEN MILE R	WO	170.00	0.90	153.00
03268	GRISWOLD TEXTILE PAWCATUCK R	WO	495.00	0.75	371.25
RI011	POTTER HILL PAWCATUCK R	WO	310.00	0.75	232.50
02974	BRADFORD PAWCATUCK R	WO	213.00	0.75	159.75
09677	LOCUSTVILLE POND BRUSHY BK, WOOD R	WO	50.00	0.90	45.00
09292A	SHANNOCK PAWCATUCK R	WO	100.00	0.75	75.00
09292B	HORSESHOE PAWCATUCK R	WO	150.00	0.75	112.50
** Subtotal **			13524.00		11499.65
*** Total ***			13524.00		11499.65

Appendix C
Rhode Island Sites List

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HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number RI006 BLACKSTONE FALLS BLACKSTONE R	RI	U	1130.00	0.90	1017.00
** Subtotal **			1130.00		1017.00
** FERC Number RI008 HARRIS POND MILL R	RI	U	200.00	0.50	100.00
** Subtotal **			200.00		100.00
** FERC Number RI010 E PROVIDENCE WTR WORKS SEEKONK R	RI	U	230.00	0.90	207.00
** Subtotal **			230.00		207.00
** FERC Number 02974 BRADFORD PAWCATUCK R	RI	WO	213.00	0.75	159.75
** Subtotal **			213.00		159.75
** FERC Number 03007 ANTHONY POND S BR PAWTUXET R	RI	WO	150.00	0.90	135.00
** Subtotal **			150.00		135.00
** FERC Number 03008 QUIDNICK(UPPER) S BR PAWTUXET R	RI	WO	150.00	0.90	135.00
** Subtotal **			150.00		135.00
** FERC Number 03009A CROMPTON(LOWER) S BR PAWTUXET R	RI	WO	110.00	0.90	99.00

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HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW) PESF	PESF * KW
** Subtotal **		110.00	99.00
** FERC Number 03009B CROMPTON (UPPER) S BR PAWTUXET R	RI WO	185.00 0.90	166.50
** Subtotal **		185.00	166.50
** FERC Number 03010 CENTERVILLE S BR PAWTUXET R	RI WO	155.00 0.90	139.50
** Subtotal **		155.00	139.50
** FERC Number 03012 RIVERPOINT S BR PAWTUXET R	RI WO	235.00 0.75	176.25
** Subtotal **		235.00	176.25
** FERC Number 03013 NATICK DAM PAWTUXET R	RI WO	522.00 0.90	469.80
** Subtotal **		522.00	469.80
** FERC Number 03268 GRISWOLD TEXTILE PAWCATUCK R	RI WO	495.00 0.75	371.25
** Subtotal **		495.00	371.25
** FERC Number 03531 STAMINA MILLS BRANCH R, BLACKSTONE R	RI WO	315.00 0.90	283.50
** Subtotal **		315.00	283.50

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number 04534 STILLWATER CLEAR R,PASCOAG R	RI WO	115.00	0.90	103.50
** Subtotal **		115.00		103.50
** FERC Number 09292A SHANNOCK PAWCATUCK R	RI WO	100.00	0.75	75.00
** Subtotal **		100.00		75.00
** FERC Number 09292B HORSESHOE PAWCATUCK R	RI WO	150.00	0.75	112.50
** Subtotal **		150.00		112.50
** FERC Number 09577 SARANAC BLACKSTONE R	RI WO	900.00	0.90	810.00
** Subtotal **		900.00		810.00
** FERC Number 09651 JAMES V TURNER TEN MILE R	RI WO	170.00	0.90	153.00
** Subtotal **		170.00		153.00
** FERC Number 09677 LOCUSTVILLE POND BRUSHY BK,WOOD R	RI WO	50.00	0.90	45.00
** Subtotal **		50.00		45.00
** FERC Number 10931 MANVILLE BLACKSTONE R	RI WO	1240.00	0.90	1116.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **		1240.00		1116.00
** FERC Number 11041 ALBION BLACKSTONE R	RI WO	940.00	0.90	846.00
** Subtotal **		940.00		846.00
** FERC Number 11042 ASHTON DAM BLACKSTONE R	RI WO	750.00	0.90	675.00
** Subtotal **		750.00		675.00
** FERC Number RI001 HARRIS N BR PAWTUXET R	RI WO	465.00	0.75	348.75
** Subtotal **		465.00		348.75
** FERC Number RI002 ARKWRIGHT COTTON N BR PAWTUXET R	RI WO	344.00	0.90	309.60
** Subtotal **		344.00		309.60
** FERC Number RI003 ARKWRIGHT MILL N BR PAWTUXET R	RI WO	365.00	0.90	328.50
** Subtotal **		365.00		328.50
** FERC Number RI004 PAWTUCKET UPPER(SLATER MI BLACKSTONE R	RI WO	470.00	0.50	235.00
** Subtotal **		470.00		235.00

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HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number RI005 PRATT BLACKSTONE R	RI	WO	840.00	0.90	756.00
** Subtotal **			840.00		756.00
** FERC Number RI007 CENTRAL FALLS DAM BLACKSTONE R	RI	WO	725.00	0.75	543.75
** Subtotal **			725.00		543.75
** FERC Number RI009 WOONSOCKET FALLS BLACKSTONE R	RI	WO	1500.00	0.90	1350.00
** Subtotal **			1500.00		1350.00
** FERC Number RI011 POTTER HILL PAWCATUCK R	RI	WO	310.00	0.75	232.50
** Subtotal **			310.00		232.50
*** Total ***			13524.00		11499.65

Appendix D
Individual Resource Database List

RESOURCE DATABASE LISTING

DATE: 04/21/95

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FERC Number	Plant Name	Stream	State Name
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02974	BRADFORD	PAWCATUCK R	RI
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County Name	River Basin
WASHINGTON	MINOR RIVER BASINS

Class	Owner Name
-------	------------

I	BRADFORD DYEING ASSOC INC
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
213.00	0.75	159.75	689.00	516.75

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4125.00 7152.00
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	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	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

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
03007	ANTHONY POND	S BR PAWTUXET R	RI

County Name	River Basin
KENT	MINOR RIVER BASINS

Class		Owner Name		
I		CONCORDIA MFG CO		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
150.00	0.90	135.00	886.00	797.40

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4141.00
C	ROR	XX	WO	Longitude	7135.00

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	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

DATE: 04/21/95

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FERC Number	Plant Name	Stream	State Name
03008	QUIDNICK(UPPER)	S BR PAWTUXET R	RI

County Name	River Basin
KENT	MINOR RIVER BASINS

Class	Owner Name
I	AMERICAN HOECHST CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
150.00	0.90	135.00	886.00	797.40

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4142.00
C	ROR	XX	WO	Longitude	7133.00

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		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
03009A	CROMPTON(LOWER)	S BR PAWTUXET R	RI

County Name	River Basin
KENT	MINOR RIVER BASINS

Class	Owner Name
I	WESTERMAN REALTY CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
110.00	0.90	99.00	650.00	585

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4142.00
C	ROR	XX	WO	Longitude	7131.00

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	0.90	

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FERC Number	Plant Name	Stream	State Name
03009B	CROMPTON (UPPER)	S BR PAWTUXET R	RI

County Name	River Basin
KENT	MINOR RIVER BASINS

Class	Owner Name
I	WESTERMAN REALTY CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
185.00	0.90	166.50	1090.00	981

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4140.00
C	ROR	XX	WO	Longitude	7135.00

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		0.90

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FERC Number	Plant Name	Stream	State Name
03010	CENTERVILLE	S BR PAWTUXET R	RI

County Name	River Basin
KENT	MINOR RIVER BASINS

Class	Owner Name
I	VALLEY INDUSTRIES INC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
155.00	0.90	139.50	835.00	751.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4142.00
C	ROR	XX	WO	Longitude	7131.00

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	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
03012	RIVERPOINT	S BR PAWTUXET R	RI

County Name	River Basin
KENT	MINOR RIVER BASINS

Class	Owner Name
I	SAYBROOKE MFG CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
235.00	0.75	176.25	1413.00	1059.75

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4143.00 7131.00
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	Y	0.75	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
03013	NATICK DAM	PAWTUXET R	RI

County Name	River Basin
KENT	MINOR RIVER BASINS

Class		Owner Name		
R		L2W, INC		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
522.00	0.90	469.80	2854.00	2568.60

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
	ROR	NO	WO	4143.00	7130.00

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		0.90

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FERC Number	Plant Name	Stream	State Name
03268	GRISWOLD TEXTILE	PAWCATUCK R	RI

County Name	River Basin
WASHINGTON	MINOR RIVER BASINS

Class	Owner Name
I	GRISWOLD TEXTILE PRINT INC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
495.00	0.75	371.25	2323.00	1742.25

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4125.00
C	ROR	XX	WO	Longitude	7148.00

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	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	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
03531	STAMINA MILLS	BRANCH R, BLACKSTONE R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
R	HYDRO-MANUFACTURING INC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
315.00	0.90	283.50	1390.00	1251

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4200.00
C	ROR	XX	WO	Longitude	7134.00

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	0.90	

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FERC Number	Plant Name	Stream	State Name
04534	STILLWATER	CLEAR R,PASCOAG R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
I	INDUSTRIAL REHAB PARTNERSHIP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
115.00	0.90	103.50	707.00	636.30

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4157.00 7141.00
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		0.90

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FERC Number	Plant Name	Stream	State Name
09292A	SHANNOCK	PAWCATUCK R	RI

County Name	River Basin
WASHINGTON	MINOR RIVER BASINS

Class		Owner Name		
	R	RUSSO, MICHAEL		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
100.00	0.75	75.00	400.00	300

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4131.00
C	ROR	XX	WO	Longitude	7138.00

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	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	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
09292B	HORSESHOE	PAWCATUCK R	RI

County Name	River Basin
WASHINGTON	MINOR RIVER BASINS

Class	Owner Name
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R	RUSSO, MICHAEL
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
150.00	0.75	112.50	600.00	450

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4131.00 7137.00
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	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	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
09577	SARANAC	BLACKSTONE R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
R	BLACKSTONE ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
900.00	0.90	810.00	3836.00	3452.40

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4200.00 7131.00
C	ROR	XX	WO		

Factor	Exist Prob	Factor	Exist Prob
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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
09651	JAMES V TURNER	TEN MILE R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
R	BURLINGTON ENERGY DEV ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
170.00	0.90	153.00	750.00	675

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4150.00 7120.00
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	0.90	

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FERC Number	Plant Name	Stream	State Name
09677	LOCUSTVILLE POND	BRUSHY BK,WOOD R	RI

County Name	River Basin
WASHINGTON	MINOR RIVER BASINS

Class		Owner Name		
	R	URE,GEORGIA J		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
50.00	0.90	45.00	186.00	167.40

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4130.00
C	ROR	XX	WO	Longitude	7143.00

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			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
10931	MANVILLE	BLACKSTONE R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
R	MANVILLE DAM HYDRO WATT ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1240.00	0.90	1116.00	5034.00	4530.60

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4158.00	Longitude	7128.00
C	ROR	PO	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
11041	ALBION	BLACKSTONE R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
R	ALBION DAM HYDRO WATT ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
940.00	0.90	846.00	4110.00	3699

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4157.00
C	ROR	PO	WO	Longitude	7127.00

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	0.90

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FERC Number	Plant Name	Stream	State Name
11042	ASHTON DAM	BLACKSTONE R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
R	ASHTON DAM HYDRO WATT ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
750.00	0.90	675.00	4000.00	3600

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4158.00 7123.00
C	ROR	PO	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
RI001	HARRIS	N BR PAWTUXET R	RI

County Name	River Basin
KENT	MINOR RIVER BASINS

Class		Owner Name		
P		VICTOR ELEC		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
465.00	0.75	348.75	2220.00	1665

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4143.00 7132.00
C			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	Y	0.75	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
RI002	ARKWRIGHT COTTON	N BR PAWTUXET R	RI

County Name	River Basin
KENT	MINOR RIVER BASINS

Class	Owner Name
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I	ARKWRIGHT INC
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
344.00	0.90	309.60	1506.00	1355.40

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	0.00 0.00
C	STG		WO		

<u>Factor</u>	<u>Exist</u>	<u>Prob</u>	<u>Factor</u>	<u>Exist</u>	<u>Prob</u>
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
RI003	ARKWRIGHT MILL	N BR PAWTUXET R	RI

County Name	River Basin
KENT	MINOR RIVER BASINS

Class	Owner Name
I	INTERLAKEN MILLS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
365.00	0.90	328.50	1750.00	1575

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4144.00
				Longitude	7133.00
C			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
RI004	PAWTUCKET UPPER(SLATER MI	BLACKSTONE R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
M	PAWTUCKET,CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
470.00	0.50	235.00	2600.00	1300

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4153.00 7123.00
C	ROR		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	Y	0.75	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		0.90

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FERC Number	Plant Name	Stream	State Name
RI005	PRATT	BLACKSTONE R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
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I	J M MILLS
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
840.00	0.90	756.00	4615.00	4153.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4155.00
C	ROR		WO	Longitude	7124.00

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		0.90

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FERC Number	Plant Name	Stream	State Name
RI006	BLACKSTONE FALLS	BLACKSTONE R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
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I	GELARDIN/BRUNER/COTT, INC
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1130.00	0.90	1017.00	6300.00	5670

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4155.00 7124.00
C	ROR		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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FERC Number	Plant Name	Stream	State Name
RI007	CENTRAL FALLS DAM	BLACKSTONE R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
I	BASSET REALTY CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
725.00	0.75	543.75	4050.00	3037.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4153.00 7123.00
C	ROR		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	Y	0.75	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
RI008	HARRIS POND	MILL R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
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M	WOONSOCKET, CITY OF
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
200.00	0.50	100.00	925.00	462.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4201.00 7130.00
C	ROR		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	Y	0.50	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
RI009	WOONSOCKET FALLS	BLACKSTONE R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
M	WOONSOCKET, CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1500.00	0.90	1350.00	8330.00	7497

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4200.00
C	ROR		WO	Longitude	7131.00

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		0.90

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FERC Number	Plant Name	Stream	State Name
RI010	E PROVIDENCE WTR WORKS	SEEKONK R	RI

County Name	River Basin
PROVIDENCE	MINOR RIVER BASINS

Class	Owner Name
M	E PROVIDENCE,CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
230.00	0.90	207.00	1050.00	945

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR		U	4150.00	7121.00

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		0.90

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FERC Number	Plant Name	Stream	State Name
RI011	POTTER HILL	PAWCATUCK R	RI

County Name	River Basin
WASHINGTON	MINOR RIVER BASINS

Class	Owner Name
I	COTTRELL, HELEN

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
310.00	0.75	232.50	1770.00	1327.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4125.00
C	ROR		WO	Longitude	7148.00

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	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	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