The Narragansett Electric Company d/b/a National Grid

Review of Power Purchase Agreements Pursuant to R.I. Gen. Laws § 39-26.1

Work Papers of Corinne M. DiDomenico

Redacted Book 1 of 3

November 1, 2017

RIPUC Docket No. _____

Submitted to:

Rhode Island Public Utilities Commission

Submitted by:

nationalgrid

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. ___
PETITION FOR APPROVAL OF PROPOSED
LONG-TERM CONTRACTS FOR RENEWABLE RESOURCES
PURSUANT TO R.I. GEN. LAWS § 39-26.1
November 1, 2017
Workpapers

Workpapers of Corinne M. DiDomenico

- WP Support Tab A, List of Entities Sent RFP;
- WP Support Tab B [CONFIDENTIAL ONLY], Initial Bid Packages;
- WP Support Tab C [CONFIDENTIAL ONLY], Bidder Communications;
- WP Support Tab D [REDACTED], Qualitative Bid Evaluation.
- WP Support Tab E [REDACTED], Quantitative Scoring Sheet;
- WP Support Tab F [REDACTED], Quantitative Forecast Base Case;
- WP Support Tab G [REDACTED], Redlines of PPAs to Model PPA.

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WP Support Tab B Electronic Submission Only Confidential – see USB Drive

WP Support Tab C Electronic Submission Only Confidential – see USB Drive

Non-Price Bid Evaluation Protocol

For the Non-Price Evaluation, rankings for each bid evaluation factor have been developed that will serve as the basis for the evaluation of each bid. Within each factor, each proposal will be classified into one of the following categories based on whether the proposal meets the requirements listed for each factor:



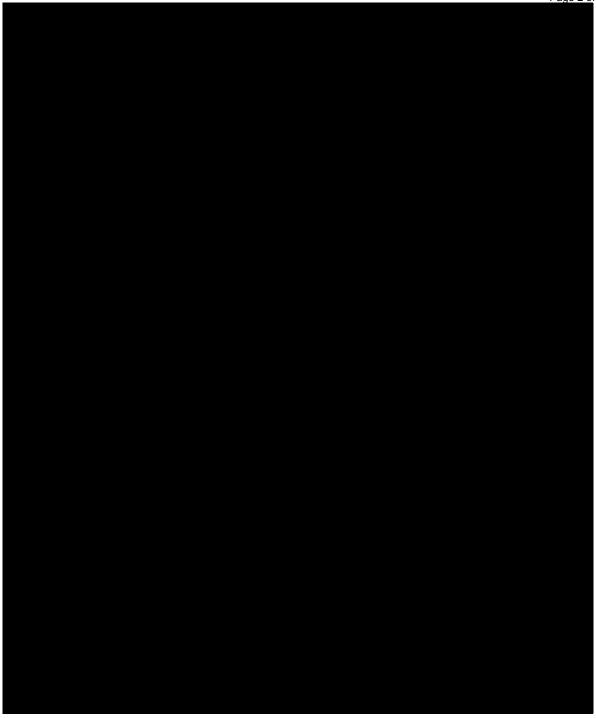
Table 1 presents a list of the non-price factors along with the maximum points allocated to each category. In addition, the criteria considered within each factor are identified.

Table 1: Non-price Evaluation Factors and Criteria

Evaluation Factors	Max Points	Criteria Considered in Each Factor

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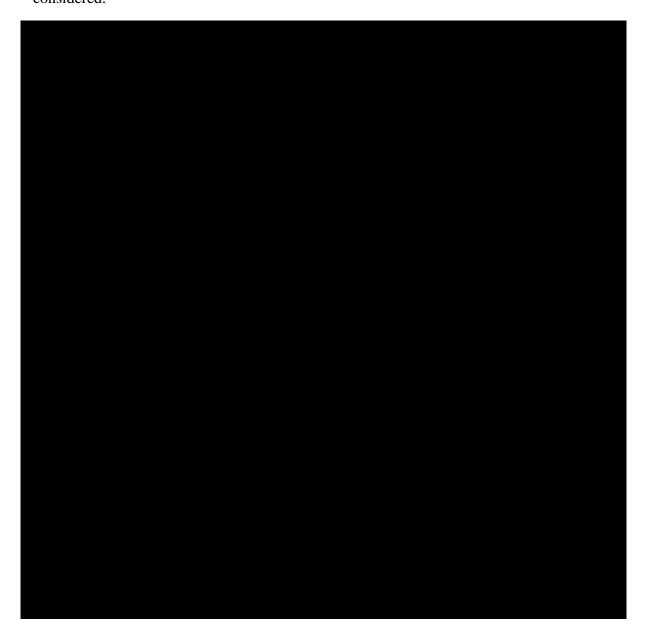
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EXHIBIT 1: EVALUATION SHEETS

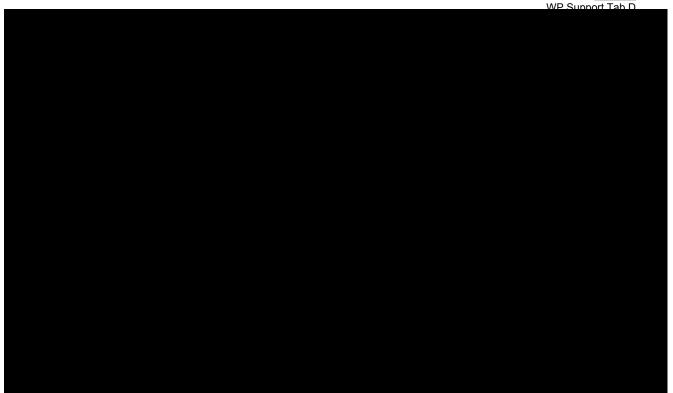
A1. Site Status [RFP Threshold Requirement 2.2.8]

Project Name:	
Evaluated By:	
Weight:	
0	

This criterion relates to the status of site ownership and control by the project sponsor as well as the maturity of site control. In addition, the zoning of the site and the status of any real property rights necessary for the project, including interconnection facilities, are considered.



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A2. Permits including Zoning and Conformance with Applicable FERC Regulatory Requirements

Project Name: .	
Evaluated By:	
Weight:	

This criterion evaluates the Bidder's identification of the required permits and approvals, (including obtaining any required zoning variances or zoning changes) status of the permitting process, degree of certainty offered by the Bidder in securing the necessary permits/approvals, and the ability of the project to comply with permitting requirements. Projects in the early stages of development will be evaluated based on the reasonableness and comprehensiveness of their plan for securing permits/approvals. Projects that already have permits in hand or are able to demonstrate that they have thoroughly evaluated the project site, identified all major environmental and regulatory issues and developed a realistic plan for securing permits and approvals will be evaluated more highly. In addition, for bids with transmission components, this factor considers the ability, or likely ability, of the proposed project to conform with applicable FERC regulatory requirements.



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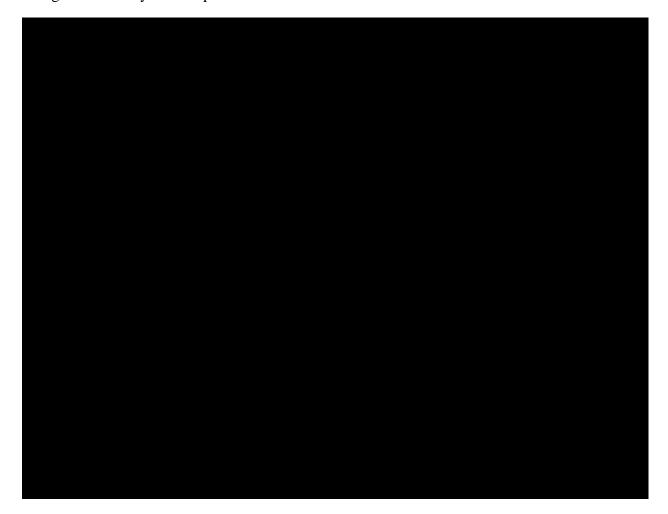
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A3. Community Relations

Project Name: _	
Evaluated By:	
Weight:	

This criterion addresses the level of community acceptance for the project as well as the plan of the bidder to work with the community regarding the project. Projects which can demonstrate documented support from the local community (or communities, as applicable) will be preferred. Note: depending on the project, "community" may mean a single community or multiple communities.



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B1. Critical Path Schedule/Commercial Operation Date Certainty

Project Name:	
Evaluated By:	
Weight:	

This criterion addresses whether or not the schedule proposed by the Bidder is complete and credible for meeting the proposed construction start date and commercial operation date. "Credible" means that the project has a likelihood of meeting the milestones in a timely manner to ensure the project meets its in-service date. In addition, the Bidder has identified the tasks on the critical path and any potential impediments to project development and has a reasonable plan to mitigate the impediment.



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B2. Fuel Supply/Energy Resource Plan for Generation Proposals; Viability of Plan for Development and Construction of Transmission Proposals

Project Name:	
Evaluated By:	
Weight:	

For generation proposals, this criterion addresses the quality of the fuel supply/energy resource plan relative to the type of technology proposed. Projects that can clearly demonstrate a direct relationship between the availability of the required fuel or resource input and proposed output or operations profile will be more highly evaluated. In addition, the quality of the resource plan, the availability and quality of resource data, and other supporting information will be considered.

For generation bids coupled with transmission, this criterion addresses the quality of the proposal for the development and construction of transmission proposals and the degree of confidence that the project will be built and operated as proposed and will have a positive impact on existing transmission constraints.



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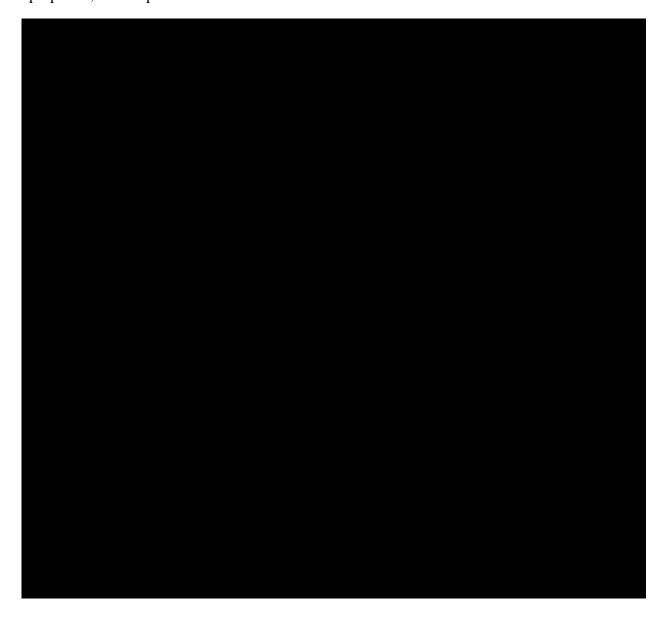


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B3. Commercial Access to and Viability of the Proposed Technology [RFP Threshold Requirement 2.2.9]

Project Name: _	
Evaluated By:	
Weight:	

This criterion addresses whether or not the technology proposed for the project has a defined track record, has been demonstrated as being reliable in commercial applications, and, for generation projects, whether the Bidder has contractual rights to the equipment. Equipment which has a demonstrated track record of success in commercial applications and to which Bidder has the contractual right to purchase, at least for generation proposals, will be preferred.



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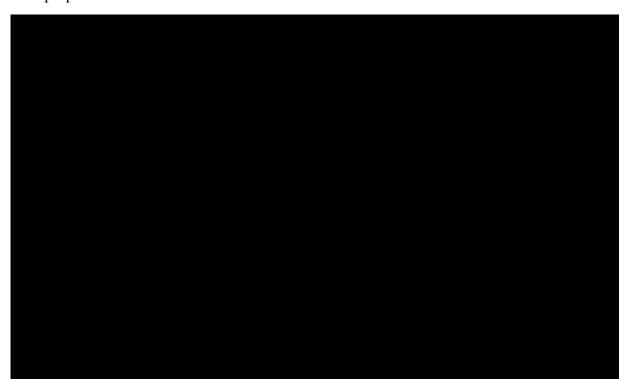
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KД	Interconn	ACTION	Statue
DT.		ICCHUII	Diaius

Project Name:	
Evaluated By:	
Weight:	

This criterion assesses the status of the bidder for addressing interconnection requirements and other applicable ISO-NE requirements. Projects which are further along in the interconnection and/or other applicable ISO-NE process will be preferred in this criterion.

Note: for transmission projects, the descriptions below assume that the project is an Elective Transmission Upgrade ("ETU"). If a transmission project developer is proposing that its project be treated as being under a different ISO New England category for transmission, the progress of the project in such category of transmission will be used for purposes of the evaluation in a manner that is similar to that of an ETU.

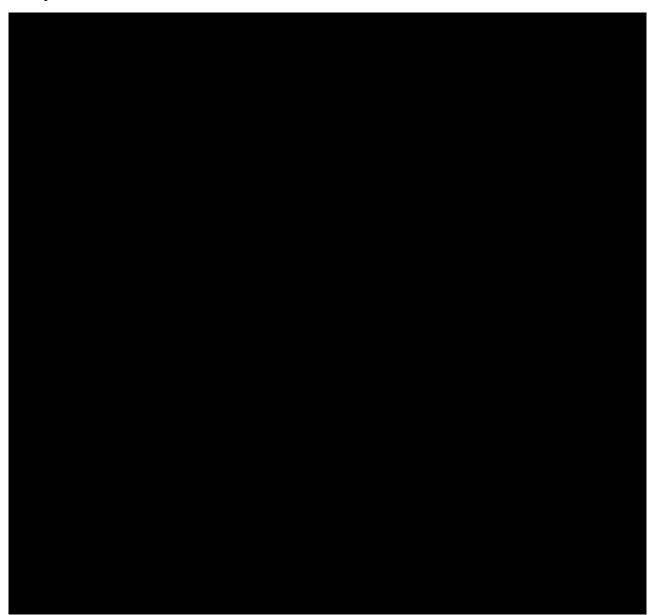


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B5. Potential Benefits to the Forward C	Capacity Market	(FCM)
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Project Name:	
Evaluated By:	
Weight:	

This criterion assesses the degree to which proposed projects are expected to qualify in the Forward Capacity Market or to otherwise provide benefits in the Forward Capacity Market ("FCM") relative to other proposals. Such proposals will be preferred relative to other proposals. The pursuit and status of interconnection service (by the bidder or proposed project participant) consistent with qualification in the FCM market will be an important consideration in the evaluation.

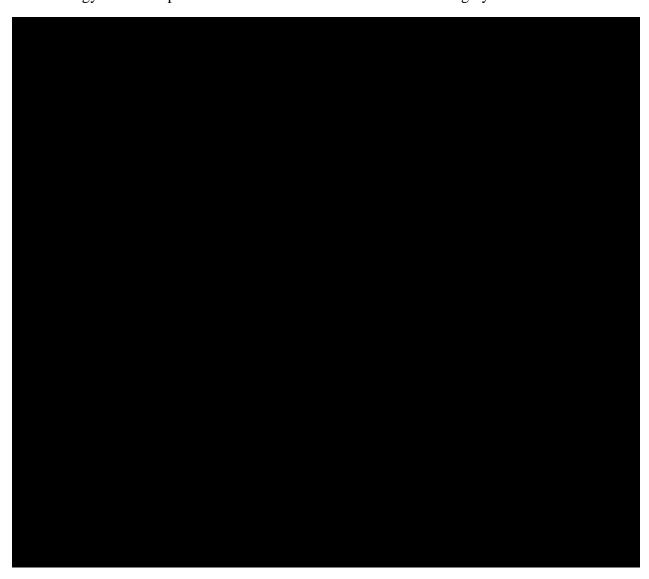


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C1. Experience of Bidder [RFP Threshold Requirement 2.2.10]

Project Name:	
Evaluated By:	
Weight:	

This criterion relates to the experience of the Bidder or of its affiliates and project team members in the successful development, financing and operation of projects, the nature and scope of which are comparable to the proposed project and experience with ISO-NE markets (or another NERC-classified RTO market). Bidders (including affiliates) who have successfully developed, financed and operated several projects of the same size and technology and are experienced in ISO-NE markets will be most highly rated.



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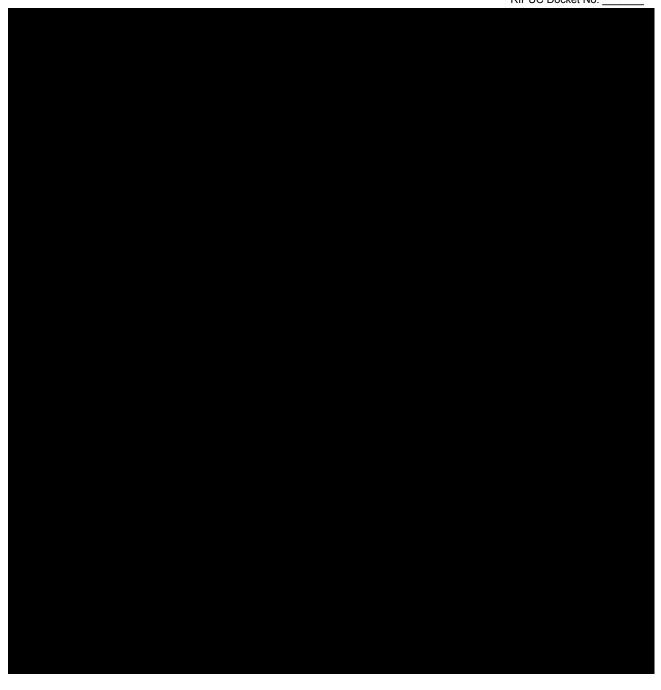
D1. Financing Plan and Financial Strength of Bidder [RFP Threshold Requirement 2.2.9]

Project Name: .	
Evaluated By:	
Weight:	

This factor addresses the comprehensiveness and reasonableness of the financial plan for the project. A complete financial plan addresses the following issues: project ownership, capital cost and structure, sources of debt and equity and evidence (e.g. letter from a bank) that the project is financeable. In addition, this factor considers the financial strength of the bidder as an underlying value to support its ability to finance the project. The financial strength of bidders or their credit support providers will be considered, including their credit ratings

For purposes of the ratings below: if a bidder or credit support provider has no credit rating, the financial strength of the bidder will be evaluated based on evidence provided by the bidder with respect to its financial strength or that of its credit support provider.





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E1. Price Firmness and Price Risk

Project Name:	
Evaluated By:	
Weight:	

This factor address the extent to which the price offered is firm, contains cost containment provisions for cost of service transmission projects, or proposes purely cost-of-service pricing. It also addresses price risk.

Price firmness and price risk will be evaluated from the perspective of total bid costs. A bid may be for generation only under a PPA, it may be for both generation under a PPA and for transmission, and it may be for transmission only under the Delivery Commitment Model. It is expected that generation costs under a PPA will be fixed. Bids to recover the transmission costs may vary from fixed charges to cost-of-service proposals with cost containment provisions, to purely cost-of-service proposals. In addition, the degree of price risk (costs varying from the estimates) may vary significantly among transmission bids, the risk may vary in terms of its symmetry or asymmetry (or degree thereof), and the extent to which the cost risk is effectively managed by proposed cost containment provisions may vary significantly among bids. Finally, bidder plans and capability to manage costs may differ among proposals. The purpose of this non-price evaluation criteria is to capture the degree of risk that costs to customers may vary from costs evaluated in the quantitative evaluation.

Because there are many interacting factors an Independent Transmission Cost Consultant (ITCC) will be hired and relied upon for assistance in determining scores in this area. The ITCC will determine the expected capital cost of the transmission component of a bid (which may be the bidder's estimate, which the ITCC determines is reasonable for use in the quantitative evaluation, or the ITCC's own estimate, as applicable). The ITCC will also determine a reasonable range of what actual costs might be compared to expected costs, with the high side of the range that may be based, at least in part, on the cost containment provisions in a transmission component of a bid and the effectiveness of such cost containment provisions. In addition, the ITCC will assign a percentage risk factor to each transmission bid or transmission component to a bid to take into consideration the degree of risk associated with the bid in terms of the actual costs being higher than expected costs (taking into consideration the risk of costs being higher and the magnitude of such higher costs). The Evaluation Team will assign points based upon the results of the ITCC's work as described.

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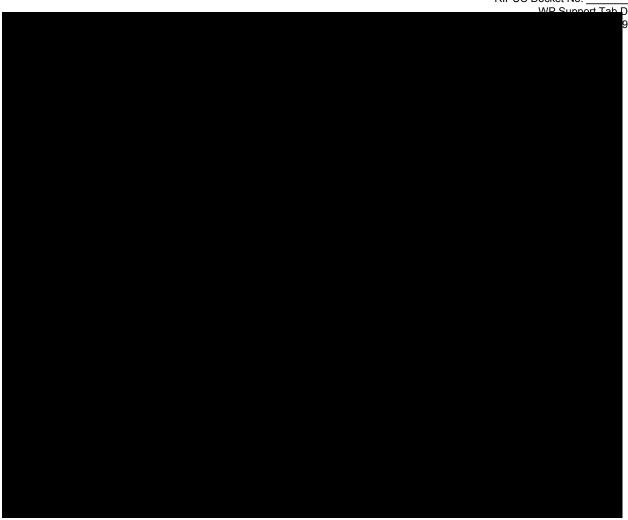
F1. Exceptions to Contract/PPA/Tariff: Risk Allocation Other than Risks Associated with Costs Exceeding Estimates

Project Name:	
Evaluated By:	
Weight:	

For generation proposals, this factor addresses the extent to which bidders accept provisions of the PPA. Bidders who propose material changes to the PPA that would significantly and adversely change the risk allocation in the PPA to the detriment of the buyers and their customers will not be highly evaluated.

For transmission projects, this factor addresses the extent to which the transmission tariff and service agreement (and/or other contract documents) protects EDCs and their customers from risks such as delays, lower than expected capacity, lower than expected energy deliveries, change in law, force majeure and other matters addressed in the Pro Forma PPA or otherwise relevant to transmission proposals.





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CONFIDENTIAL

Summary of Small PPA Bid B/C Ratios

Indirect Benefit Multiplier

Load Payment Reduction

Production Cost Savings

30%

Participation Share	СТ	MA	RI
Solar/Wind PPA	50%	50%	0%
Fuel Cell PPA	100%	0%	0%

							Net Avg Av				Decr.		Partici	pating St		evelized N		l\$/MW	h			
		Cap Te-					Annual Ca						rect Ben			direct Ben				Dir		Ratio
# Bid	Type Egy REC Tx	Type rm	M/Y	St. Unit	MW	MWh	RECs Fact	r %	СТ	MA RI	(KST)	Egy	REC	Tot	Price	e PrdCst	Tot	Cost	Ben	B/C	CT MA	RI PrtSt

Notes:

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Bid: Candlewood Solar

Bid Net Capacity (MW)	20
Bid Type	Solar
Bid Location	СТ
Bid Energy Total (MWh)	625,717

	Month	Year
Bid Start	10	2018
Bid End	9	2038

Indirect Benefit Weighting						
Load Payment Reduction	70%					
Production Cost Savings	30%					

BENEFIT COST RATIO	CT/MA/RI		_		Participating
	EDC Total	СТ	MA	RI	State Total
State Participation Flag		1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	1009



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Bid: EDP Fitchburg Solar

Bid Net Capacity (MW)	48
Bid Type	Solar
Bid Location	MA
Bid Energy Total (MWh)	1,433,125

	Month	Year
Bid Start	7	2018
Bid End	6	2038

Indirect Benefit Weighting							
Load Payment Reduction	70%						
Production Cost Savings	30%						

State PPA Bid Allocator for Direct Impacts EDC Total CT	BENEFIT COST RATIO	CT/MA/RI				Participating
		EDC Total	I			
State PPA Bid Allocator for Direct Impacts 50% 50% 0% 100%						
	State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%



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Bid: EDP Gardner Solar

Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW)

Bid Type

Solar

Bid Location

MA

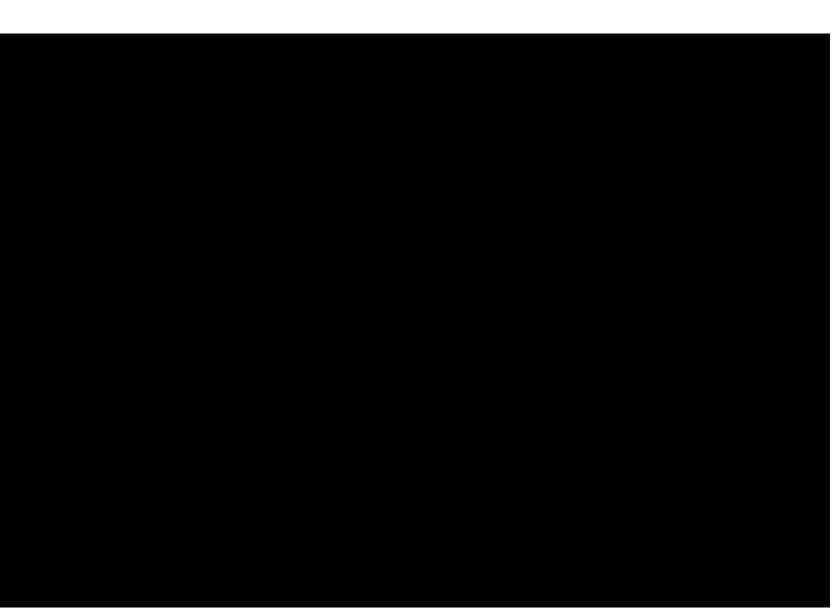
Bid Energy Total (MWh)

625,522

	Month	Year
Bid Start	7	2018
Bid End	6	2038

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

BENEFIT COST RATIO	CT/MA/RI				Participating
	EDC Total	СТ	MA	RI	State Total
State Participation Flag		1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%
	,				



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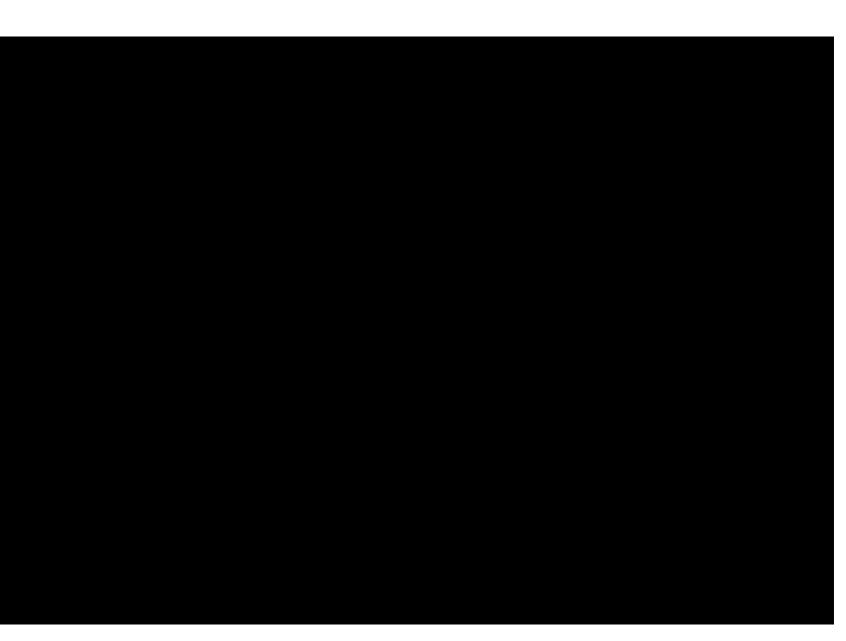
Bid: EDP Hopkinton 1 Solar

Bid Net Capacity (MW)	22
Bid Type	Solar
Bid Location	RI
Bid Energy Total (MWh)	625,522

	Month	Year
Bid Start	7	2018
Bid End	6	2038

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

BENEFIT COST RATIO	CT/MA/RI EDC Total	СТ	МА	RI	Participating State Total
State Participation Flag		1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%



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Bid: EDP Hopkinton 2 Solar

Bid Net Capacity (MW)	22
Bid Type	Solar
Bid Location	RI
Bid Energy Total (MWh)	625,522

	Month	Year
Bid Start	7	2018
Bid End	6	2038

Indirect Benefit Weighting		
Load Payment Reduction	70%	
Production Cost Savings	30%	

BENEFIT COST RATIO	CT/MA/RI EDC Total		MA	RI	Participating State Total
State Participation Flag	22010101	1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%
•					



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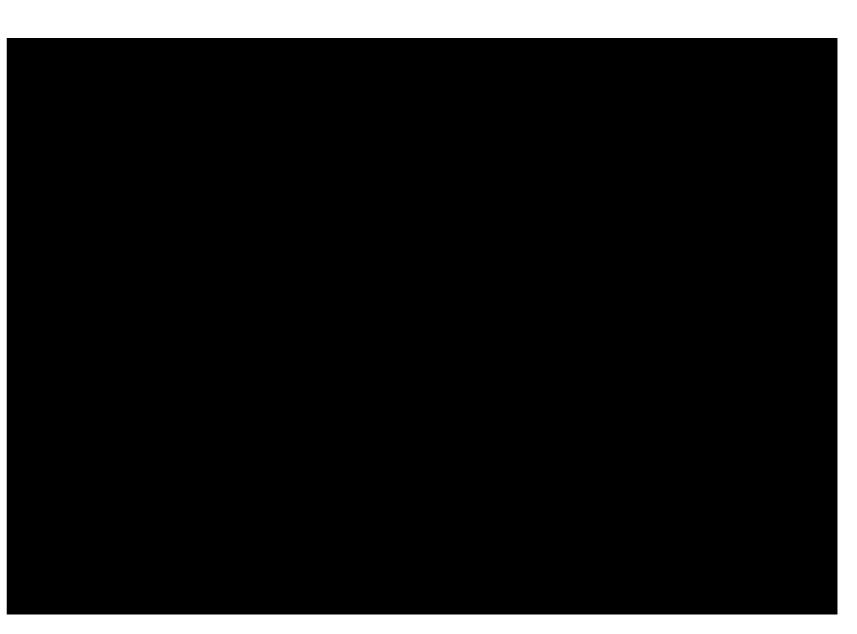
Bid: EDP Hopkinton 3 Solar

Bid Net Capacity (MW)	22
Bid Type	Solar
Bid Location	RI
Bid Energy Total (MWh)	625,522

	Month	Year
Bid Start	7	2018
Bid End	6	2038

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

BENEFIT COST RATIO	CT/MA/RI				Participating
	EDC Total	СТ	MA	RI	State Total
State Participation Flag		1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%



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Bid: EDP Hopkinton 4 Solar

Bid Net Capacity (MW)	22
Bid Type	Solar
Bid Location	RI
Bid Energy Total (MWh)	625,522

	Month	Year
Bid Start	7	2018
Bid End	6	2038

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

BENEFIT COST RATIO	CT/MA/RI		DA A	DI	Participating State Total
State Participation Flag	EDC Total	CT 1	MA 1	RI 0	2
State PPA Bid Allocator for Direct Impacts		50%		0%	
•					



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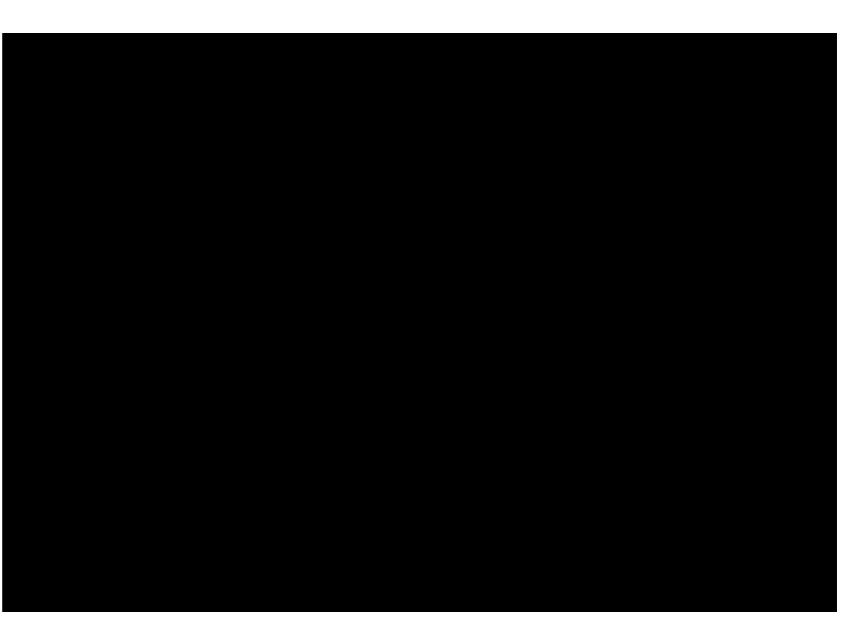
Bid: EDP North Stonington Solar

Bid Net Capacity (MW)	44
Bid Type	Solar
Bid Location	СТ
Bid Energy Total (MWh)	1,302,840

	Month	Year
Bid Start	7	2018
Bid End	6	2038

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

BENEFIT COST RATIO	CT/MA/RI	СТ		RI	Participating State Total
tate Participation Flag	EDC Total	CT 1	MA 1	0	2
state PPA Bid Allocator for Direct Impacts		50%	50%	0%	1009
tate FFA Bid Allocator for Direct Impacts		30/0	30%	070	1007



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Bid: EDP West Greenwich Solar

Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW)	48
Bid Type	Solar
Bid Location	RI
Bid Energy Total (MWh)	1,432,612

	Month	Year
Bid Start	7	2018
Bid End	6	2038

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

SENEFIT COST RATIO	CT/MA/RI EDC Total	СТ	MA	RI	Participating State Total
tate Participation Flag		1	1	0	2
tate PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%



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Bid: GRE 501 MIRA Solar

BENEFIT COST RATIO

Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW)	20
Bid Type	Solar
Bid Location	MA
Bid Energy Total (MWh)	657,747

	Month	Year
Bid Start	1	2019
Bid End	12	2038

Participating
RI State Total

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

itate Participation Flag	1	1	0	2
state PPA Bid Allocator for Direct Impacts	50%	50%	0%	100%
tate 11 A Dia Anocator for Direct impacts	3070	3070	070	1007

CT/MA/RI

EDC Total

СТ

MA



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Bid: Ranger Chinook Solar

Bid Net Capacity (MW)	48.99
Bid Type	Solar
Bid Location	NH
Bid Energy Total (MWh)	1,635,281

	Month	Year
Bid Start	11	2019
Bid End	10	2039

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

BENEFIT COST RATIO	CT/MA/RI				Participatin
	EDC Total	СТ	MA	RI	State Total
State Participation Flag		1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100



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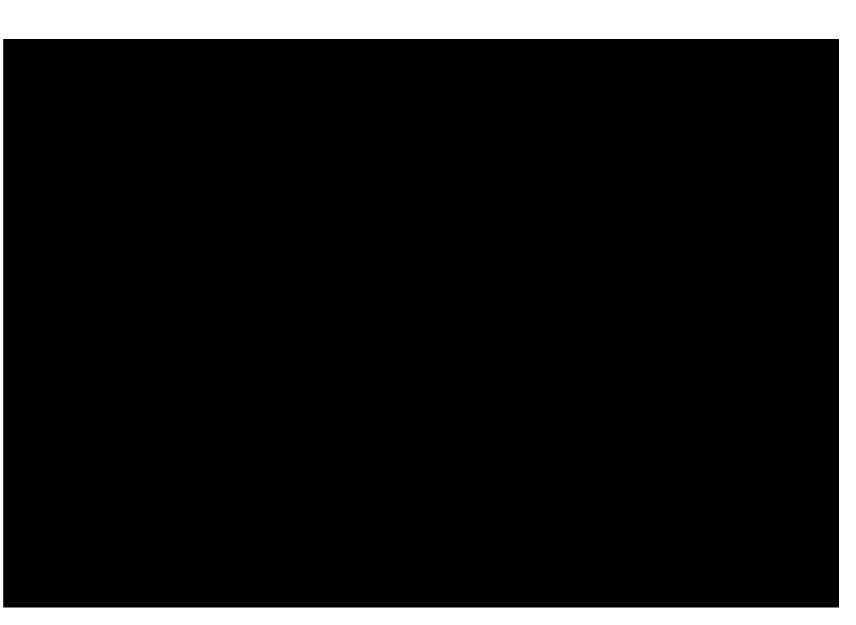
Bid: Ranger Enfield Solar **Benefit Cost Ratio - Quantitative**

Bid Net Capacity (MW)
Bid Type
Bid Location 19.63 Solar CT Bid Energy Total (MWh) 653,597

	Month	Year
Bid Start	11	2019
Bid End	10	2039

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

BENEFIT COST RATIO	CT/MA/RI EDC Total	СТ	MA	RI	Participating State Total
State Participation Flag		1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%



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Bid: Ranger Farmington Solar

Bid Net Capacity (MW)	48.99
Bid Type	Solar
Bid Location	ME
Bid Energy (MWh) and/or RECs Total	1,499,248

	Month	Year
Bid Start	11	2019
Bid End	10	2039

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

BENEFIT COST RATIO	CT/MA/RI EDC Total		MA	RI	Participating State Total
State Participation Flag		1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%



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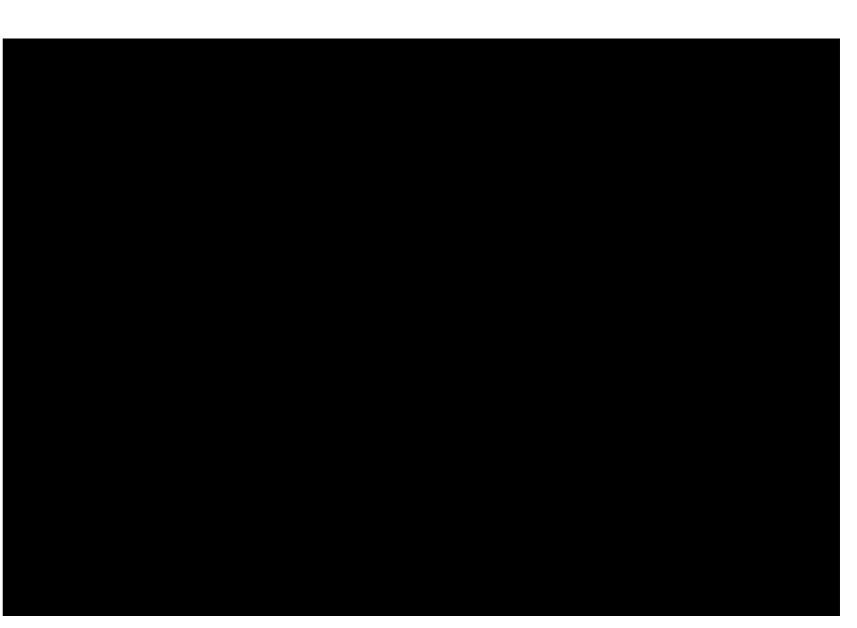
Bid: Ranger Quinebaug Solar

48.99
Solar
СТ
1,623,111

	Month	Year
Bid Start	11	2019
Bid End	10	2039

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

BENEFIT COST RATIO	CT/MA/RI			5.	Participating State Total
State Participation Flag	EDC Total	CT 1	MA 1	RI O	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%



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Bid: Ranger Sanford Solar

BENEFIT COST RATIO

Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW)	48.99
Bid Type	Solar
Bid Location	ME
Bid Energy (MWh) and/or RECs Total	1,678,657

	Month	Year
Bid Start	11	2019
Bid End	10	2039

Participating
RI State Total

Indirect Benefit Weighting Load Payment Reduction	
Load Payment Reduction	70%
Production Cost Savings	30%

	 _			
State Participation Flag	1	1	0	2
State PPA Bid Allocator for Direct Impacts	50%	50%	0%	100

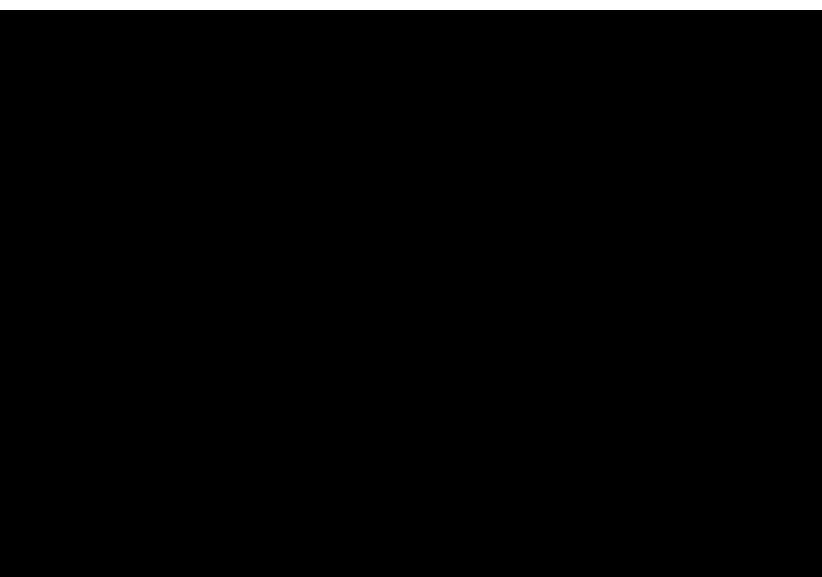
CT/MA/RI

EDC Total

CT

MA





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Bid: RES H-S Solar

BENEFIT COST RATIO

Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW)	20
Bid Type	Solar
Bid Location	RI
Bid Energy Total (MWh)	646,208

	Month	Year
Bid Start	11	2017
Bid End	10	2037

RI

Participating

State Total

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

	EDC Total	CI	MA	RI .	State Total
State Participation Flag		1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%
•					

CT/MA/RI

EDC Total

CT

MA



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Bid: RES Woods Hill Solar

Bid Net Capacity (MW)	20
Bid Type	Solar
Bid Location	СТ
Bid Energy Total (MWh)	630,598

	Month	Year
Bid Start	11	2017
Bid End	10	2037

BENEFIT COST RATIO	CT/MA/RI				Participating
	EDC Total		MA	RI	State Total
State Participation Flag		1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%



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Bid: Simsbury Solar

BENEFIT COST RATIO

Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW)	26.4
Bid Type	Solar
Bid Location	СТ
Bid Energy Total (MWh)	822,911

	Month	Year
Bid Start	1	2019
Bid End	12	2038

RI

Participating State Total

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

State Participation Flag	1	1	0	2
State PPA Bid Allocator for Direct Impacts	50%	50%	0%	100%

CT/MA/RI

EDC Total

CT

MA



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. _____ WP Support Tab E (CERFP Small PPA Bid BC Ratio Summary) Page 20 of 26

Bid: Antrim Wind w/RECS

Benefit Cost Ratio - Quantitative

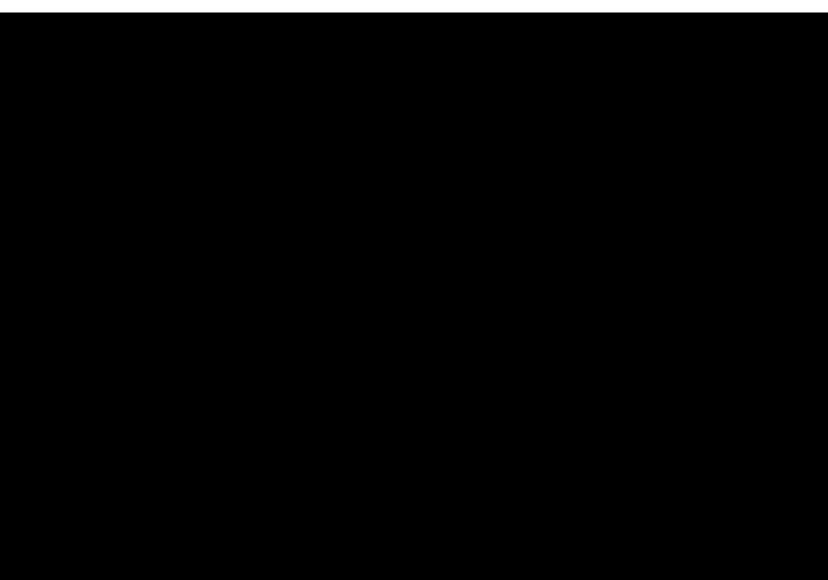
Bid Net Capacity (MW)	21.3
Bid Type	Wind
Bid Location	NH
Bid Energy (MWh) and/or RECs Total	1,412,298

	Month	Year
Bid Start	12	2018
Bid End	11	2038

1	Indirect Benefit Weighting	
3	Load Payment Reduction	70%
3	Production Cost Savings	30%

BENEFIT COST RATIO	CT/MA/RI EDC Total		MA	RI	Participating State Total
State Participation Flag		1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%
·					





The Narragansett Electric Company d/b/a National Grid

Bid: Antrim Wind RECs Only

Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW)	21.3
Bid Type	Wind
Bid Location	NH
Bid Energy (MWh) and/or RECs Total	1,412,298

	Month	Year
Bid Start	12	2018
Bid End	11	2038

	Month	Year	Indirect
Bid Start	12	2018	Load P
Bid End	11	2038	Produ

BENEFIT COST RATIO	CT/MA/RI				Participating	
	EDC Total		MA	RI	State Total	
State Participation Flag		1	1	0	2	
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%	
						1
						1
						1

Indirect Benefit Weight	ng
Load Payment Reducti	on 70%
Production Cost Saving	gs 30%





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(CERFP Small PPA Bid BC Ratio Summary)
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Bid: Canton Mountain

BENEFIT COST RATIO

Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW)	22.34
Bid Type	Wind
Bid Location	ME
Bid Energy (MWh) and/or RECs Total	1,252,658

	Month	Year
Bid Start	11	2017
Bid End	10	2037

Participating

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

BENEFIT COST RATIO	EDC Total		MA	RI	State Total
State Participation Flag		1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%



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Bid: Cassadaga

Bid Net Capacity (MW)	126
Bid Type	Wind
Bid Location	NY*
Bid Energy (MWh) and/or RECs Total	9,214,741

	Month	Year
Bid Start	1	2021
Bid End	12	2040

BENEFIT COST RATIO	CT/MA/RI				Participating
	EDC Total	СТ	MA	RI	State Total
State Participation Flag		1	1	0	2
State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%





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Bid: Weaver 20

BENEFIT COST RATIO

Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW)	72.6
Bid Type	Wind
Bid Location	ME
Bid Energy (MWh) and/or RECs Total	4,293,608

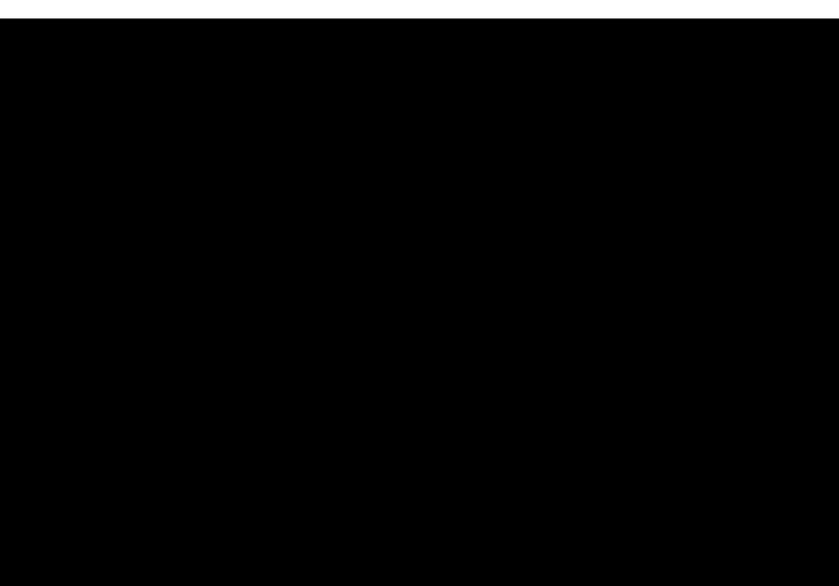
	Month	Year
Bid Start	1	2019
Bid End	12	2038

Participating

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

State PARTICIPATION Flag State PPA Bid Allocator for Direct Impacts 1 1 0 2 100%	BENEFIT COST KATIO	EDC Total		MA	RI	State Total
State PPA Bid Allocator for Direct Impacts 50% 50% 0% 100%						
	State PPA Bid Allocator for Direct Impacts		50%	50%	0%	100%





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Bid: Weaver 15

BENEFIT COST RATIO

State Participation Flag

State PPA Bid Allocator for Direct Impacts

Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW)	72.6
Bid Type	Wind
Bid Location	ME
Bid Energy (MWh) and/or RECs Total	3,222,841

CT/MA/RI

EDC Total

CT

1

50%

MA

50%

	Month	Year
Bid Start	1	2019
Bid End	12	2033

3id Start 1 2019
VIE. 1 42 2022
3id End 12 2033

RI

0%

Participating State Total

100%

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%



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Bid: Beacon Falls

Bid Net Capacity (MW)	63.3
Bid Type	FuelCell
Bid Location	СТ
Bid Energy (MWh) and/or RECs Total	9,655,694

	Month	Year
Bid Start	1	2020
Bid End	12	2039

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

BENEFIT COST RATIO	CT/MA/RI EDC Total	СТ	MA	RI	Participating State Total
State Participation Flag	220.010.	1	0	0	1
State PPA Bid Allocator for Direct Impacts		100%	0%	0%	1009
·					



The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. ____ WP Support Tab E

(CERFP Transmission Bid BC Ratio Summary)

CT MA RI Page 1 6 PT 16 PATIAL

Summary of B/C Ratios for Transmission Bids

Indirect Benefit Weighting
Load Payment Reduction
Production Cost Savings

30%

 Participation Share
 CT
 MA
 RI

 Solar/Wind PPA
 50%
 50%
 0%

 Fuel Cell PPA
 100%
 0%
 0%

Net Avg Avg CurAnnual Cap tail Participation %
RECs Factr % CT MA RI Net Avg Annual Decr. Participating States Levelized Nominal \$/MWh Bid PPA Cap Te- ISD % of Net CO2 Net Dir B/C Ratio
Ben B/C CT MA RI PrtSt Bid Type Egy REC Tx Type rm M/Y St. MW MWh (KST) REC Tot Price PrdCst Tot Unit

A. Doubleinsbies Meter.

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Bid: CEC

Benefit Cost Ratio - Quantitative

 Bid Net Capacity (MW)
 600

 Bid Type
 Hydro/Wind

 Bid Location
 NY*

 Bid Energy (MWh) and/or RECs Total
 71,496,147

	Month	Year
Bid Start	6	2020
Bid End	5	2040

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%



Bid Location	NY*		Bid End	5	2040	_ P	roduction Cost Savir	gs 30%							
Bid Energy (MWh) and/or RECs Total	71,496,147														
BENEFIT COST RATIO	CT/MA/RI				Participating										
1	EDC Total		MA	RI	State Total										
State Participation Flag		1	1	0	2										
State PPA Bid Allocator for Direct Impacts	- Wind	0%	100%	0%	100%										
State PPA Bid Allocator for Direct Impacts		100%	0%	0%	100%										
State PPA Bid Allocator for Direct Impacts		100%	0%	0%	100%										
Allocation Between CT and MA			СТ					MA				Total			
	Hydro	BalWind	OthWnd	CT Wind	CT Total	Н	ydro BalWind	OthWnd	Wind	Total	Hydro	BalWnd	OthWnd	Wind	Tot

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Bid: CEC NoMR Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW) 600
Bid Type Hydro/Wind
Bid Location NY*
Bid Energy (MWh) and/or RECs Total 71,496,147

	Month	Year
Bid Start	6	2020
Bid End	5	2040

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

Bid Energy (MWh) and/or RECs Total	71,496,147				
DENIETIT COCT DATIO	CT/AAA/DI	_	1		Doubleto altre
BENEFIT COST RATIO	CT/MA/RI				Participating
	EDC Total	СТ	MA	RI	State Total
State Participation Flag		1	1	0	2

State Participation Flag		1	0	2									
State PPA Bid Allocator for Direct Impacts - Wind		1009											
State PPA Bid Allocator for Direct Impacts - BalW													
State PPA Bid Allocator for Direct Impacts - Hydr	10	J76 U9	% 0%	100%									
Allocation Between CT and MA		СТ					MA			Total			
	vdro BalWind	OthWnd									OthWnd		Total
			CT Wind	CT Total	Hydro	BalWind	OthWnd	Wind To	tal Hvdr	o BalWnd		Wind	

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Bid: CEC PAR NoMR Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW) 600
Bid Type Hydro/Wind
Bid Location NY*
Bid Energy (MWh) and/or RECs Total 71,496,147

State PPA Bid Allocator for Direct Impacts - Wind

State PPA Bid Allocator for Direct Impacts - BalWind

State PPA Bid Allocator for Direct Impacts - Hydro

Allocation Between CT and MA

	Month	Year
Bid Start	6	2020
Bid End	5	2040

100%

0% 0%

100%

100%

Hydro BalWind

СТ

OthWnd

0% 0%

0%

CT Wind

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

71,496,147				
1 ' '				Participating State Total
EDC Total	СТ	MA	RI	State rotal
	1	1	0	2
	CT/MA/RI	71,496,147 CT/MA/RI EDC Total CT 1	CT/MA/RI	CT/MA/RI EDC Total CT MA RI

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otal	Hydro	BalWind	OthWnd	Wind	Total	Hydro	BalWnd	OthWnd	Wind	Total	
	,					,					

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Bid: CEC PAR NoMR w/EI PAR Ref Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW) Bid Type 600 Hydro/Wind Bid Location NY* Bid Energy (MWh) and/or RECs Total 71,496,147

	Month	Year
Bid Start	6	2020
Bid End	5	2040

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

_		_
_		_

BENEFIT COST RATIO	CT/MA/RI EDC Total	СТ	MA	RI	Participating State Total
State Participation Flag		1	1	0	2

State PPA Bid Allocator for Direct Impacts		0%		0%	100%								
State PPA Bid Allocator for Direct Impacts - State PPA Bid Allocator for Direct Impacts -		100% 100%		0% 0%	100% 100%								
State FFA BIU Allocator for Direct Impacts	Tiyuro	100%	U%	U70	100%								
Allocation Between CT and MA			СТ				MA			Total			
	Hydro	BalWind	OthWnd	CT Wind	CT Total	Hydro BalWind	OthWnd	Wind Total	Hydro	BalWnd	OthWnd	Wind	Total

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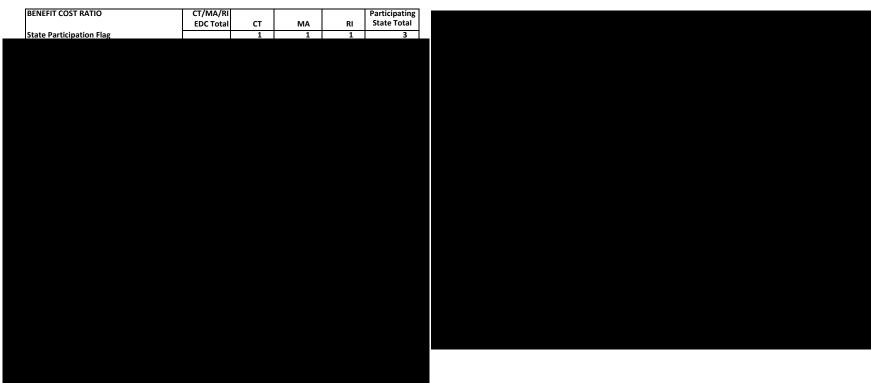
Bid: NPT

Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW)	1090
Bid Type	Hydro
Bid Location	NH*
Bid Energy (MWh) and/or RECs Total	101,693,149

	Month	Year
Bid Start	1	2020
Bid End	12	2039

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%



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Bid: NPT NoMR

Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW)	1090
Bid Type	Hydro
Bid Location	NH*
Bid Energy (MWh) and/or RECs Total	101,689,995

	Month	Year
Bid Start	1	2020
Bid End	12	2039

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

BENEFIT COST RATIO	CT/MA/RI		I I		Particinating
52.12.1. COST 10.110	EDC Total	СТ	MA	RI	Participating State Total
State Participation Flag	EDC Total	1	1	1	3
State Participation Flag		11	1	11	3

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Bid: VGL Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW) 400 Bid Type Hydro/Wind **Bid Location** VT Bid Energy (MWh) and/or RECs Total 68,349,047

Month Year Bid Start 2021 Bid End 12 2040 Indirect Benefit Weighting Load Payment Reduction **Production Cost Savings** 30%

BENEFIT COST RATIO CT/MA/RI EDC Total Participating State Total СТ MA State Participation Flag

State PPA Bid Allocator for Direct Impacts - Wind 50% 100% State PPA Bid Allocator for Direct Impacts - Hydro 0% 100% Allocation Between CT and MA CT Hydro CT Wind CT Total MA Hydro MA Wind MA Total Total Hydro Total Wind Total

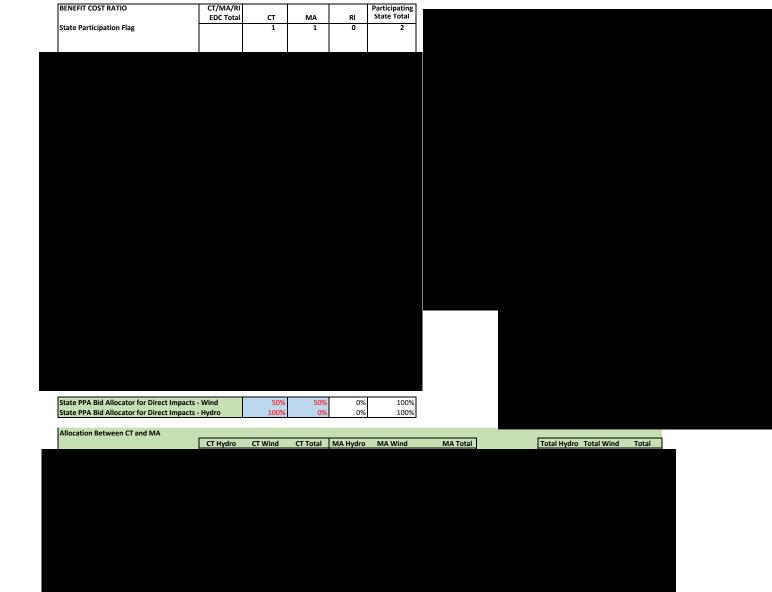
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Bid: VGL PAR NoMR Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW) 400
Bid Type Hydro/Wind
Bid Location VT
Bid Energy (MWh) and/or RECs Total 68,349,047

	Month	Year
Bid Start	1	2021
Bid End	12	2040

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%



The Narragansett Electric Company d/b/a National Grid

Bid: VGL PAR NoMR w/EI PAR Ref Benefit Cost Ratio - Quantitative

Bid Net Capacity (MW) Bid Type Bid Location 400 Hydro/Wind VT

	Month	Year
Bid Start	1	2021
Bid End	12	2040

Indirect Benefit Weighting	
Load Payment Reduction	70%
Production Cost Savings	30%

Bid Energy (MWh) and/or RECs Total BENEFIT COST RATIO State Participation Flag	CT/MA/RI EDC Total	СТ 1	MA 1	RI O	Participating State Total 2					
State Participation Flag										
State PPA Bid Allocator for Direct Impacts - \	Wind	50%	50%	0%						
State PPA Bid Allocator for Direct Impacts - I	Hydro	100%	0%	0%	100%					
		CT Miller of	CT Total	MA Hydro	MA Wind	MA Total	Total	Hydro Total Wind	Total	
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	CT Hydro	CI Wind	CTTOTAL	,510						
	CT Hydro	CI Wind	CITOLAI	,510						
	CT Hydro	CI Wind	Ci iotal							
Allocation Between CT and MA	CT Hydro	CI Wind	Criotal	,,,,,,,						

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### American Company	ion	Wind (On-Shore)												
### American Company	nerat Wh)	Wind (Off-Shore)												
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Total Generation (MWh) Difference (MWh) Difference (MWh)	ISONE Total Load	Total Load (MWh)												
ISONE Total Load On-Peak Payments (2014 Off-Peak	/ Generation	Total Generation (MWh)												
Payments (2014 OIT-Peak S) Total	ISONE Total Load	On-Peak												
	Payments (2014 \$)	Ott-Peak Total												



Annual Average Zonal LMP by Peak Period (2014 \$/MWh)

ISNE - Maine - Bangor Hydro Electric MF ISNE - Maine - Central ISNE - Maine - Southwest NH ISNE - New Hampshire VT ISNE - Vermont ISNE - Connecticut - Central-Northeast CT ISNE - Connecticut - Norwalk On-Peak ISNE - Connecticut - Southwest RΙ ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast MA ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western **ISONE Hub** ISNE - Maine - Bangor Hydro Electric ME ISNE - Maine - Central ISNE - Maine - Southwest NH ISNE - New Hampshire VT ISNE - Vermont ISNE - Connecticut - Central-Northeast CT ISNE - Connecticut - Norwalk Off-Peak ISNE - Connecticut - Southwest RΙ ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast MA ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western **ISONE Hub** ISNE - Maine - Bangor Hydro Electric ME ISNE - Maine - Central ISNE - Maine - Southwest ISNE - New Hampshire NH VT ISNE - Vermont ISNE - Connecticut - Central-Northeast CT ISNE - Connecticut - Norwalk **All Hours** ISNE - Connecticut - Southwest RI ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast MA ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western **ISONE Hub**

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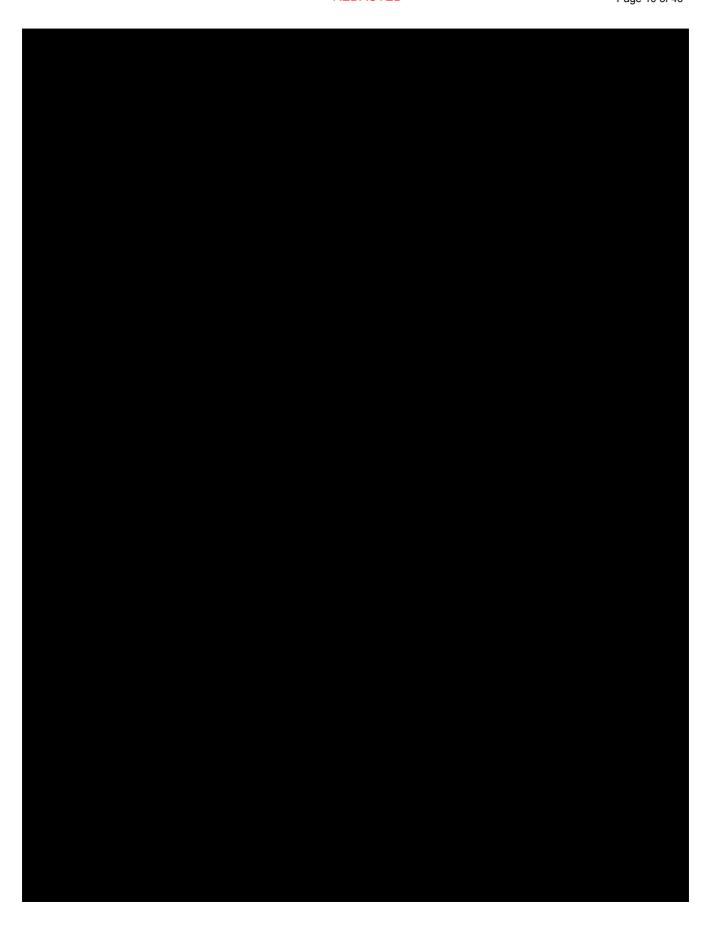


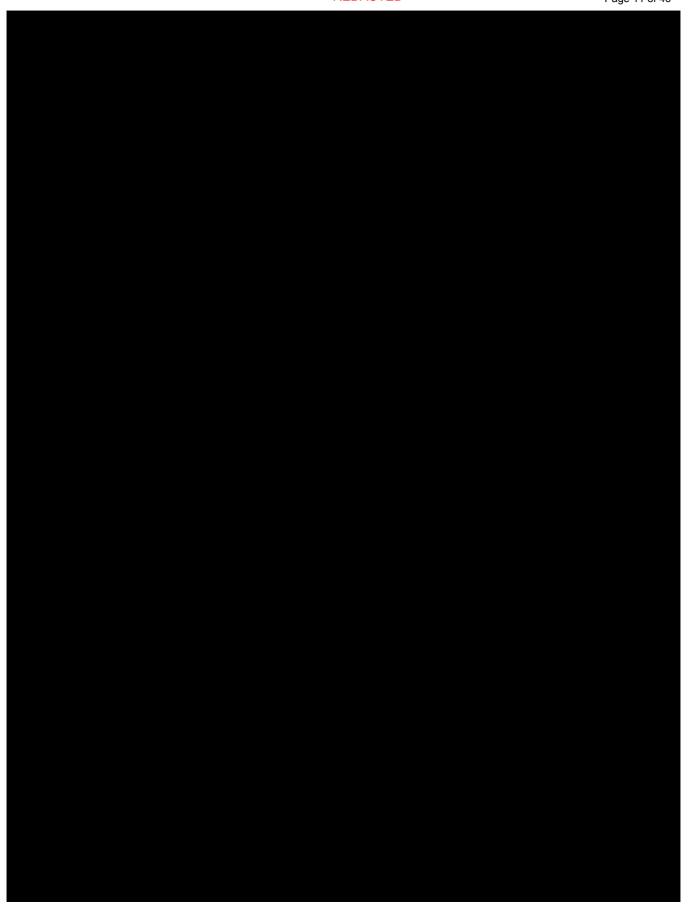
Total Annual Generation (MWh)

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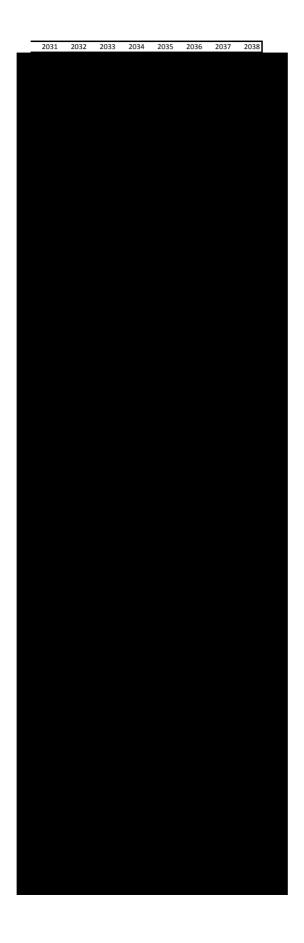


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The Narragansett Electric Company
d/b/a National Grid
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ACTED Page 18 of 46



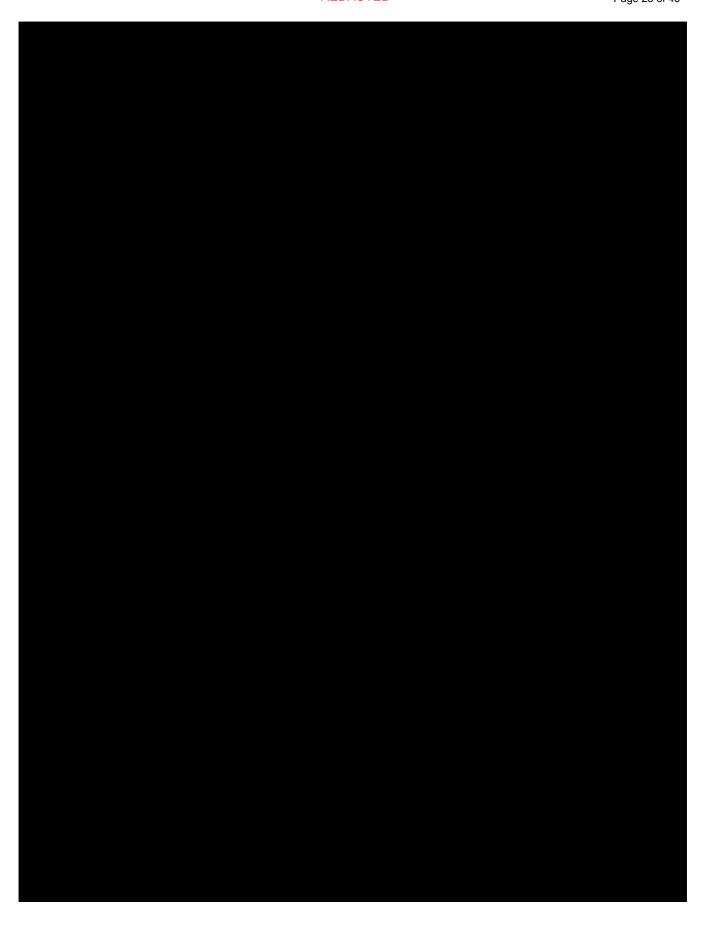
Total Annual Production Cost (2014 \$)

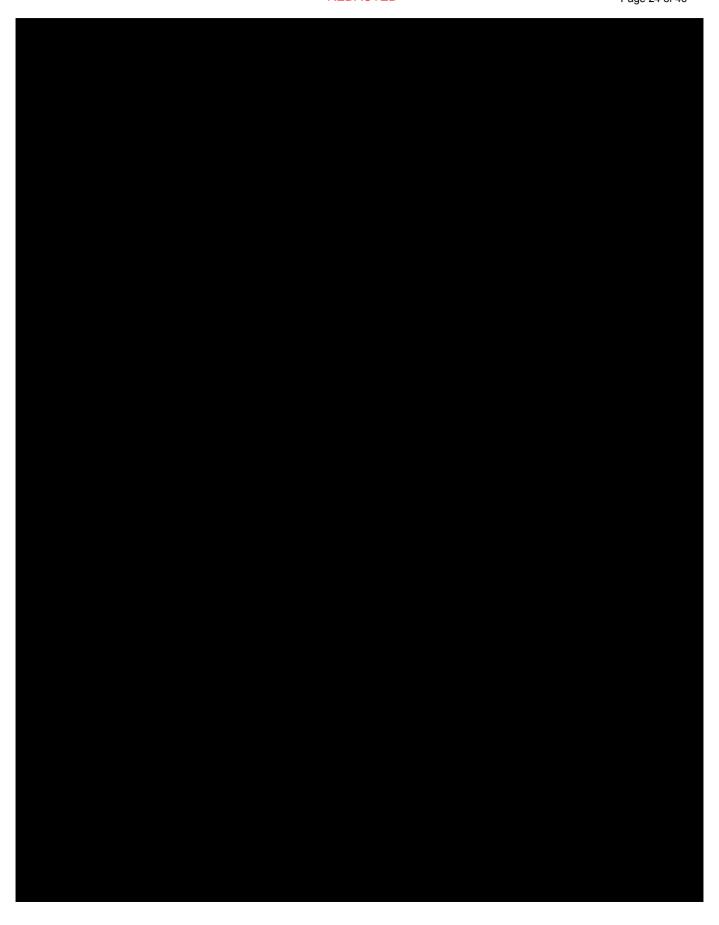
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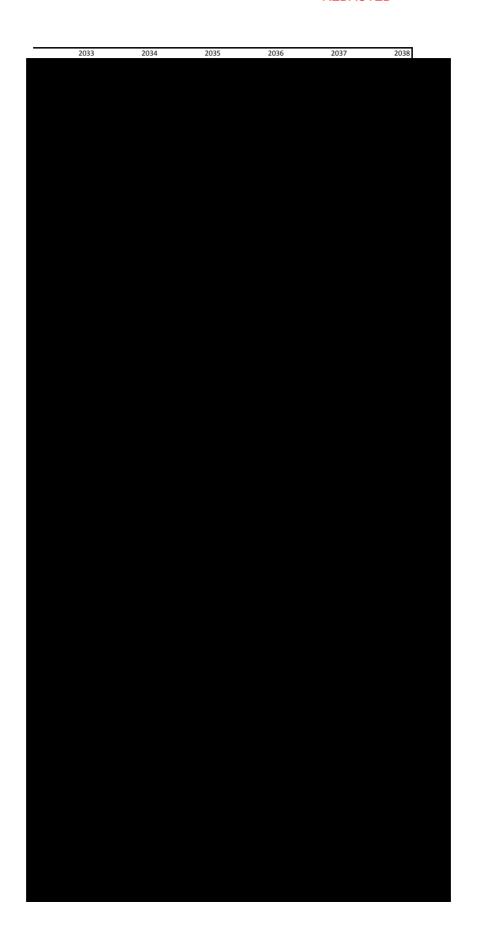
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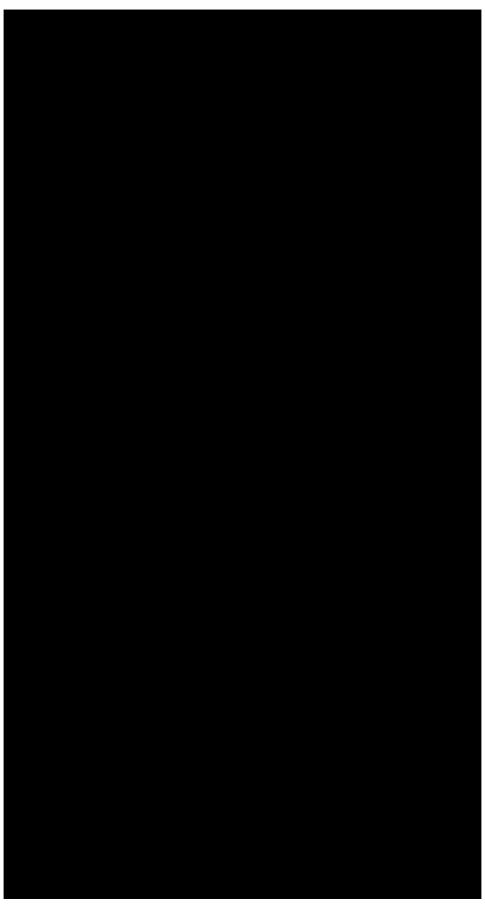
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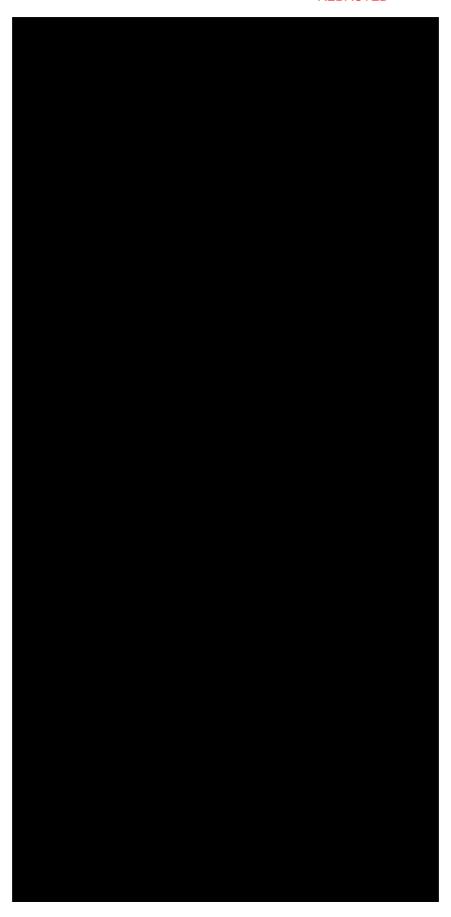












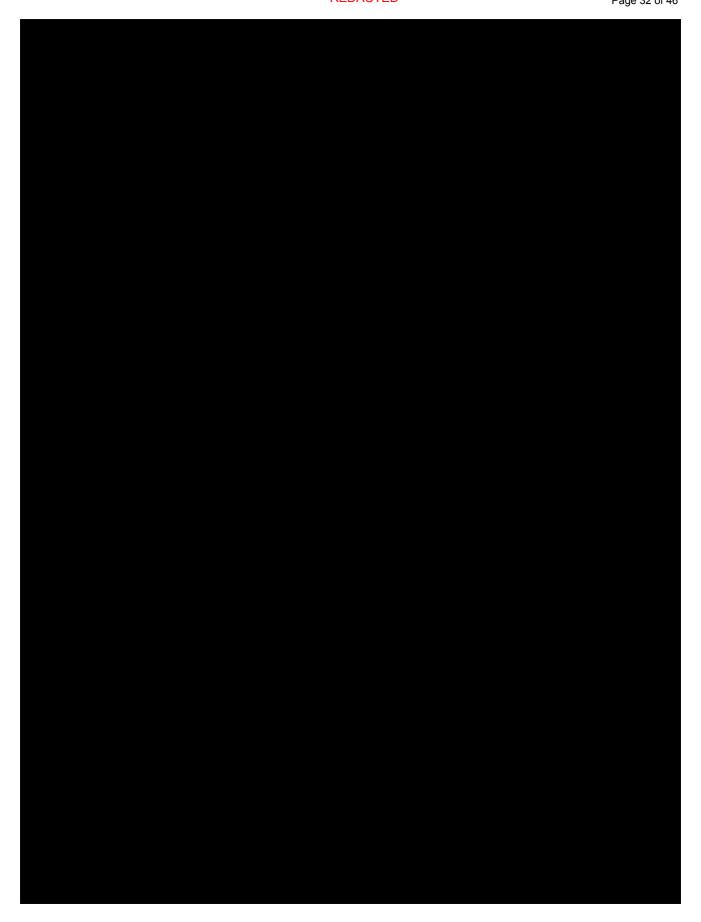
Total Annual Fuel Usage (MMBtu)

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Total Annual CO2 Emissions (Short Tons)

			2017	2018	2019	2020	2021	2022	2023	2024	2025
		ISNE - Maine - Bangor Hydro Electric									
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	MA ME NH VT CT RI	ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - Waline - Southwest ISNE - Norwalk ISNE - Connecticut - Norwalk ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Boston ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric
	MA ME NH VT CT RI MA	ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Central ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - New Hampshire ISNE - Vermont ISNE - Connecticut - Central-Northeast ISNE - Connecticut - Contral-Northwest ISNE - Connecticut - Southwest ISNE - Connecticut - Southwest ISNE - Massachusetts - Southeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL
	MA ME NH VT CT RI MA	ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - Memaine - Southwest ISNE - New Hampshire ISNE - New Hampshire ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Connecticut - Southwest ISNE - Boston ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Bangor Hydro Electric
	MA ME MA ME	ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - Mew Hampshire ISNE - New Hampshire ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Vestern ISNE - Massachusetts - Vestern ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Gentral ISNE - Maine - Central
	MA ME NH VT CT RI MA ME NH VT	ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Central ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - New Hampshire ISNE - Vermont ISNE - Connecticut - Central-Northeast ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Southeast ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Southwest
	MA ME NH VT CT RI MA ME NH NH	ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - Mew Hampshire ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Vestern ISONE TOTAL ISNE - Massachusetts - Southeast ISNE - Massachusetts - Vestern ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - Mew Hampshire ISNE - New Hampshire ISNE - Connecticut - Central-Northeast ISNE - Connecticut - Central-Northeast
Exports	MA ME NH VT CT RI MA ME NH VT CT CT CT	ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - Mew Hampshire ISNE - New Hampshire ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Connecticut - Southwest ISNE - Connecticut - Southwest ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISNE - Massachusetts - Western ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Southwest ISNE - Mew Hampshire ISNE - Connecticut - Norwalk ISNE - Connecticut - Norwalk ISNE - Connecticut - Norwalk
Exports	MA ME NH VT CT RI MA ME NH VT	ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Central ISNE - Maine - Southwest ISNE - Waine - Southwest ISNE - Wermont ISNE - Connecticut - Central-Northeast ISNE - Connecticut - Norwalk ISNE - Connecticut - Norwalk ISNE - Massachusetts - Southeast ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Central ISNE - Maine - Southwest ISNE - Waine - Central ISNE - Maine - Central ISNE - Maine - Central ISNE - Wermont ISNE - Vermont
Exports	MA ME NH VT CT RI MA ME NH VT CT RI TRI TRI TRI TRI TRI TRI	ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - New Hampshire ISNE - Southeast ISNE - Connecticut - Norwalk ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Massachusetts - Southeast ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - Maine - Central ISNE - Maine - Southwest ISNE - Maine - Central ISNE - Maine - Southwest ISNE - Connecticut - Central-Northeast ISNE - Connecticut - Central-Northeast ISNE - Connecticut - Southwest ISNE - Connecticut - Southwest ISNE - Connecticut - Southwest
Exports	MA ME NH VT CT RI MA ME NH VT CT CT CT	ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Central ISNE - Maine - Southwest ISNE - Waine - Southwest ISNE - Wermont ISNE - Connecticut - Central-Northeast ISNE - Connecticut - Norwalk ISNE - Connecticut - Norwalk ISNE - Massachusetts - Southeast ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Central ISNE - Maine - Southwest ISNE - Waine - Central ISNE - Maine - Central ISNE - Maine - Central ISNE - Wermont ISNE - Vermont
Exports	MA ME NH VT CT RI MA ME NH VT CT RI TRI TRI TRI TRI TRI TRI	ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Central-Northeast ISNE - Massachusetts - Coutral-Northeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - Maine - Southwest ISNE - New Hampshire ISNE - New Hampshire ISNE - Connecticut - Norwalk ISNE - Connecticut - Norwalk ISNE - Connecticut - Southwest ISNE - Rhode Island ISNE - Boston ISNE - Massachusetts - Southeast ISNE - Massachusetts - Western ISONE TOTAL ISNE - Maine - Bangor Hydro Electric ISNE - Maine - Southwest ISNE - Norwalk ISNE - Connecticut - Central-Northeast ISNE - Connecticut - Central-Northeast ISNE - Connecticut - Southwest ISNE - Connecticut - Southwest ISNE - Connecticut - Southwest



Load / Generation Balance

			2017	2018	2019	2020	2021	2022	2023	2024	2025
Γ		ISNE - Maine - Bangor Hydro Electric									
	ME	ISNE - Maine - Central									
		ISNE - Maine - Southwest									
	NH	ISNE - New Hampshire									
	VT	ISNE - Vermont									
		ISNE - Connecticut - Central-Northeast									
otal Load	CT	ISNE - Connecticut - Norwalk									
(MWh)		ISNE - Connecticut - Southwest									
	RI	ISNE - Rhode Island									
		ISNE - Boston									
	MA	ISNE - Massachusetts - Central-Northeast									
	IVIA	ISNE - Massachusetts - Southeast									
L		ISNE - Massachusetts - Western									
L		ISONE TOTAL									
		ISNE - Maine - Bangor Hydro Electric									
	ME	ISNE - Maine - Central									
		ISNE - Maine - Southwest									
L	NH	ISNE - New Hampshire									
L	VT	ISNE - Vermont									
Total		ISNE - Connecticut - Central-Northeast									
eneration	CT	ISNE - Connecticut - Norwalk									
(MWh)		ISNE - Connecticut - Southwest									
	RI	ISNE - Rhode Island									
		ISNE - Boston									
	MA	ISNE - Massachusetts - Central-Northeast									
		ISNE - Massachusetts - Southeast									
_		ISNE - Massachusetts - Western									
L		ISONE TOTAL									
		ISNE - Maine - Bangor Hydro Electric									
	ME	ISNE - Maine - Central									
_		ISNE - Maine - Southwest									
-	NH	ISNE - New Hampshire									
L	VT	ISNE - Vermont									
Difference		ISNE - Connecticut - Central-Northeast									
eneration -	CT	ISNE - Connecticut - Norwalk									
ad) (MWh)		ISNE - Connecticut - Southwest									
	RI	ISNE - Rhode Island									
		ISNE - Boston									
	MA	ISNE - Massachusetts - Central-Northeast									
		ISNE - Massachusetts - Southeast									
<u> </u>		ISNE - Massachusetts - Western									
		ISONE TOTAL									

2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038

Annual Load Payments by Peak Period (2014 \$)

			2017	2018	2019	2020	2021	2022	2023	2024	2025
		ISNE - Maine - Bangor Hydro Electric									
	ME	ISNE - Maine - Central									
		ISNE - Maine - Southwest									
ı	NH	ISNE - New Hampshire									
Ī	VT	ISNE - Vermont									
Ī		ISNE - Connecticut - Central-Northeast									
On-Peak	CT	ISNE - Connecticut - Norwalk									
л-Реак		ISNE - Connecticut - Southwest									
ſ	RI	ISNE - Rhode Island									
ſ		ISNE - Boston									
	MA	ISNE - Massachusetts - Central-Northeast									
	IVIA	ISNE - Massachusetts - Southeast									
		ISNE - Massachusetts - Western									
		ISONE Total									
		ISNE - Maine - Bangor Hydro Electric									
	ME	ISNE - Maine - Central									
		ISNE - Maine - Southwest									
	NH	ISNE - New Hampshire									
	VT	ISNE - Vermont									
		ISNE - Connecticut - Central-Northeast									
)ff-Peak	CT	ISNE - Connecticut - Norwalk									
л-Реак		ISNE - Connecticut - Southwest									
	RI	ISNE - Rhode Island									
ſ		ISNE - Boston									
	MA	ISNE - Massachusetts - Central-Northeast									
	IVIA	ISNE - Massachusetts - Southeast									
		ISNE - Massachusetts - Western									
		ISONE Total									
		ISNE - Maine - Bangor Hydro Electric									
	ME	ISNE - Maine - Central									
		ISNE - Maine - Southwest									
Į.	NH	ISNE - New Hampshire									
l l	VT	ISNE - Vermont									
		ISNE - Connecticut - Central-Northeast									
Total	CT	ISNE - Connecticut - Norwalk									
		ISNE - Connecticut - Southwest									
ļ	RI	ISNE - Rhode Island									
		ISNE - Boston									
	MA	ISNE - Massachusetts - Central-Northeast									
		ISNE - Massachusetts - Southeast									
ļ		ISNE - Massachusetts - Western									
		ISONE Total									

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2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038

		LMPs (\$/MWh)		ISONE Hub Gas Price - Algonquin, City		Market Heat Rates (MMBtu/MWh)	
	All Hours	On Peak	Off Peak	Gates (\$/MMBtu)	All Hours	On Peak	Off Peak
Jan-17							
Feb-17							
Mar-17							
Apr-17							
May-17							
Jun-17							
Jul-17							
Aug-17							
	_						
Sep-17	_						
Oct-17	_						
Nov-17	_						
Dec-17							
Jan-18							
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Nov-23							
Dec-23							
Jan-24 Feb-24							

Mar-24	
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Feb-31 Mar-31	
Feb-31 Mar-31 Apr-31	
Feb-31 Mar-31 Apr-31 May-31	
Feb-31 Mar-31 Apr-31 May-31 Jun-31	
Feb-31	
Feb-31 Mar-31 Apr-31 May-31 Jun-31	
Feb-31 Mar-31 Apr-31 May-31 Jun-31	

Det-31 lov-31 lec-31 lan-32 leb-32
Oct-31 lov-31 lec-31 lan-32
lov-31 lec-31 lan-32
ec-31 an-32
an-32
-32