

**Part I**  
**Guidelines and Instructions**

**For Long Term Contract Proposals Under Long-Term Contracting Standard**

**Appendix B - Section 1**  
**Certification, Project and Pricing Data (CPPD)**

This CPPD comprises Part I through Part VIII and is included as Appendix B to the RFP. Parts II through VIII of this Attachment must be completed in this Excel spreadsheet and submitted according to the instructions in the RFP. Please read these instructions in their entirety.

Each sheet is protected and entries are only allowed in unlocked cells. Warning messages in bold red text may appear if data is incomplete or invalid, but it is the Bidder's responsibility to ensure that this CPPD is filled out completely and correctly.

**Part II - Proposal Certification Form**

Please note that this is a certification form and requires the signature of an authorized officer or other authorized representative of the Applicant. The Applicant is referred to as the Bidder in this Form. Per the requirement of Section 2.2.4.1 the Bidder must also sign the Proposal Certification Form in Appendix B verifying that the prices, terms and conditions of the proposal are valid for at least 270 days. A PDF version of the signed Proposal Certification Form document must be included on the USB flash drive. The completed, working Microsoft Excel file that makes up this CPPD must be included on the USB flash drive. The Bidder Name and Project Name specified on Part II will carry forward to other parts of the CPPD.

**Part III - Bid and Contact Information**

This Part provides to the evaluation team information about the structure of the bid(s), contact information, and development status of the Facility. The Bidder Name and Project Name will carry forward from Part II. The Resource Type and Status of Project must be selected, and will carry forward to other parts of the CPPD. An Eligible Bidder may use this CPPD form to submit up to three mutually exclusive pricing proposals for the sale of Energy and RECs from an Eligible Project between 20 MW and 400 MW. However, each eligible bidder is required to submit at least one conforming proposal that is at least 20 MW and no more than 200 MW, per RFP Section 2.2.2.5. (Pricing proposals presented on the same CPPD form must share the same Commercial Operation Date, Net Generating Capacity, and Production Data. If additional pricing proposals are offered, or your proposals will include a different Commercial Operation Date, Net Generating Capacity, and/or Production Data then use additional CPPD forms). The bidder may submit proposals that include more than one contract term (e.g., 10 and/or 15 years). Reference Section 2.2.2.4 for Allowable Contract Terms.

Select the properties of each bid on Part III (a), including pricing option and term years. All bids must conform to RFP Section 2.2.4.2 regarding pricing, covered in Part VI, and additional pricing offers, for the same project, will cost additional fixed fees. Reference Section 2.2.4.4 for the determination of Non-Refundable Bid Fees, and summarize in

Section 2.2.4.4 for the determination of Non-Refundable Bid Fees, and summarize in Part III (b). Consolidate the project bid proposals on one Primary Bid Fee Summary, referencing the CPPD location of the additional bid proposals.

## **Part I (continued)**

### **Guidelines and Instructions**

#### Part IV - Project Summary Information

The Part IV(a) provides technical information about the project and other project parameters to be considered in the evaluation. Provide the "Guaranteed Commercial Operation Date" for a new project or for the new incremental capacity of an existing project, as applicable. Projects with Paired and Co-Located Storage are required to complete Part IV(b).

#### Part V - Expected Monthly and Annual Production

This Part provides the expected monthly hourly delivery profile for energy amounts in Contract Year 1, of the Buyers' Entitlement of the Eligible Facility production. This profile will be used to break out the annual amounts, into monthly peak and off-peak amounts to be used in the price evaluation, along with the bids provided in Part VI. The data entry can be provided in '12 months by 24 hours' forecast, but 'hourly profile' data is suggested if available. Hourly Profile data is entered in Part V(a)(i), and provides for greater modeling accuracy during the evaluation process. For wind and solar resources it is requested that the bidder provide hourly production data representative of the year 2012 (8784 data points) weather patterns or to provide the latitude and longitude of the Eligible Facility.

Note that for Projects with Paired and Co-Located Storage, the expected hourly generation tables in Part V (a)(i) should show the output of the resource without Energy Storage. Enter the Energy Storage charge and discharge schedule in Part V(a)(ii). The net delivered energy from the combined resources, after the timing and loss effects of storage, will be calculated in Parts V(b-1). The Energy Storage schedule will be analyzed to verify compliance with the maximum charging rate, maximum discharging rate, potential for exceeding storage capacity, and combined hourly scheduled negative net deliveries.

Part V (b) provides the ratio of monthly energy amounts for each Contract Year, relative to the amounts specified for Contract Year 1, to adjust for varying maintenance intervals or declining output. The factors are for specific months and years, so the factors should coincide with the expected commercial operation date or the guaranteed delivery start date of the bid. Because of this calendar convention, there are 16 years of factors to accommodate partial years at the beginning and end of a 15 year offer. The amounts provided should be for the entire facility prior to any buyer's entitlement.

#### Part VI(a) to VI(c) - Pricing Information

Part VI is used to capture the annual amount of energy and RECs and associated prices

for each contract year in the term. Term lengths may vary among bids, but for common years, energy amounts, provided in Part V, will be the same for all bids, in this CPPD. Pricing must conform to Section 2.2.4.2 of the RFP. Per Section 2.2.4.2.1 the options are (a) separate levelized fixed pricing for energy and RECs, (b) separate escalating fixed pricing for energy and RECs, or (c) indexed pricing for energy, at or below Day Ahead or Real-Time LMP, with levelized or escalating REC pricing. The contract terms must agree with the selections provided on Part III.

Part VII - ISO-NE Forward Capacity Market

Part VII provides spaces to indicate whether the Project has or intends to have a Capacity Supply Obligation, and if so, the amount of that obligation prior to any proration.

Part VIII - Emissions Data

Part VIII provides spaces to enter air emissions on a lbs/MWh basis. For a non-emitting resource proposal, enter a zero for each pollutant to eliminate error messages.

## Part II

### Proposal Certification and Authorization (Appendix B.1)

**A proposal will be considered incomplete unless all required signatures are provided.**

The undersigned certifies that he or she is an authorized officer or other authorized representative of the bidder, and further certifies that: (1) the bidder has reviewed this RFP and all attachments and has investigated and informed itself with respect to all matters pertinent to this RFP and its proposal; (2) the bidder's proposal is submitted in compliance with all applicable federal, state and local laws and regulations, including antitrust and anti-corruption laws; (3) the bidder is bidding independently and has no knowledge of non-public information associated with a proposal being submitted by another party in response to this RFP other than: (a) a response submitted (i) by an affiliate of bidder or (ii) for a project where bidder is also a project proponent or participant, which in each case must be disclosed in writing to the Evaluation Team with each such bidder's or affiliated bidder's proposal; or (b) a submission of multiple bids for the same Energy; (4) the bidder has no knowledge of any non-public information associated with the development of this RFP; and (5) the bidder's proposal has not been developed utilizing knowledge of any non-public information associated with the development of this RFP.

The undersigned further certifies that the prices, terms and conditions of the bidder's proposal are valid and shall remain open for at least 270 days from the submission date.

The undersigned further certifies that he or she has personally examined and is familiar with the information submitted in this proposal and all appendices thereto, and based on reasonable investigation, including inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of the undersigned's knowledge and belief.

The undersigned understands that a false statement or failure to disclose material information in the submitted proposal may be punishable as a criminal offense under applicable law. The undersigned further certifies that this proposal is on complete and accurate forms as provided without alteration of the text.

Project Name  
(Eligible Facility)

Solar Energy Center

Bidder Name

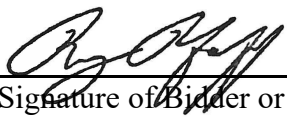
EDF Renewables Development, Inc.

Bidder or Bidder's  
Representative

Ryan Pfaff

Bidder Representative's  
Title

EVP, Grid-Scale Power

  
Signature of Bidder or Authorized  
Representative

2018-10-29

Date Signed

**Part III (a)**  
**Bid and Contact Information**

**For Long Term Contract Proposals Under Long-Term Contracting Standard**

**Bidder Name** \_\_\_\_\_ EDF Renewables Development, Inc.

**Project Name** \_\_\_\_\_ [REDACTED] Solar Energy Center

**Resource Type:** \_\_\_\_\_ Solar

**Status of Project:** \_\_\_\_\_ [REDACTED]

*If proposal reflects a proposed modification to an existing project, Part IV should only provide information for the incremental capacity offered.*

<b>Bid Structure</b>			
<u>Bid #</u>	<u>Energy Pricing Bid Form</u>	<u>Pricing Option</u>	<u>Term (years)</u>
1	Part VI (a)	[REDACTED]	[REDACTED]
2	Part VI (b)	[REDACTED]	[REDACTED]
3	Part VI (c)	_____	_____
<i>Use additional CPPD spreadsheet(s) if submitting more than three pricing proposals for this project, or offering different project size, technology type, production/delivery profile, in-service date, or delivery location. <b>If submitting more than 3 proposals you may change the Bid #s [cells(E22:E24)].</b></i>			

Contact Information For Project	
Bidder Name	EDF Renewables Development, Inc.
Mailing Address	15545 Innovation Drive San Diego, CA 92128-3432
Courier Address (If Different)	
Primary Contact Information	
Name	Stephane Desdunes, Director, Development
Telephone Number	[REDACTED]
Fax Number	[REDACTED]
E-mail Address	[REDACTED]
Secondary Contact Information	
Name	Kevin Campbell, Development Manager
Telephone Number	[REDACTED]
Fax Number	[REDACTED]
E-mail Address	[REDACTED]

**Part IV (a)**  
**Eligible Facility Summary Information**

**For Long Term Contract Proposals Under Long-Term Contracting Standard**

Project Name \_\_\_\_\_ Solar Energy Center \_\_\_\_\_

Resource Type \_\_\_\_\_ Solar \_\_\_\_\_

Storage Included \_\_\_\_\_ \_\_\_\_\_

Guaranteed Commercial Operation Date \_\_\_\_\_  
 (for new facility or proposed modification)

*For evaluation purposes, the term is assumed to start on the first day of the first full calendar month beginning on or after the proposed Effective Date, as shown to the right:*

\_\_\_\_\_

Net Generating Capability of Eligible Facility (Nameplate Capacity) \_\_\_\_\_ MW

Contract Maximum Amount \_\_\_\_\_ MWh/hr

Capacity Factor of Generating Project (from Part V) \_\_\_\_\_ %

Biennial Delivery Requirement: \_\_\_\_\_ MWh  
*Obligation, per Section 4.9 of the PPA, for any two consecutive Contract Years.*

Buyers' Percentage Entitlement of Project Output \_\_\_\_\_ %  
*Percent relative to entire Project, not Seller's entitlement if part owner.*

Is the Buyer's Percentage Entitlement scalable downward  
 in the event that acceptance of the full amount offered  
 would result in exceedance of the target procurement \_\_\_\_\_

What is the minimum Buyer's Percentage Entitlement acceptable ? \_\_\_\_\_ %  
*(for proposal with multiple resources, scale down is same % across all resources)*

Project Site/Location:	Street	_____		
	City	_____		
	State/Prv	_____	Zip	_____

Proposed Interconnection Point \_\_\_\_\_

Pricing Node (ISO-NE PTF Node)

[REDACTED]

ISO New England Load Zone for Proposed  
Pricing Node

[REDACTED]

**Project Name** [REDACTED] Solar Energy Center **Data Entry:** [REDACTED]

**EXPECTED HOURLY GENERATION in MW - 12 Months by 24 Hours For Representative Day For Each Month**

[illegible]

**Note: Intermittent Resources must use the P50 Level (Probability Distribution of Output).**



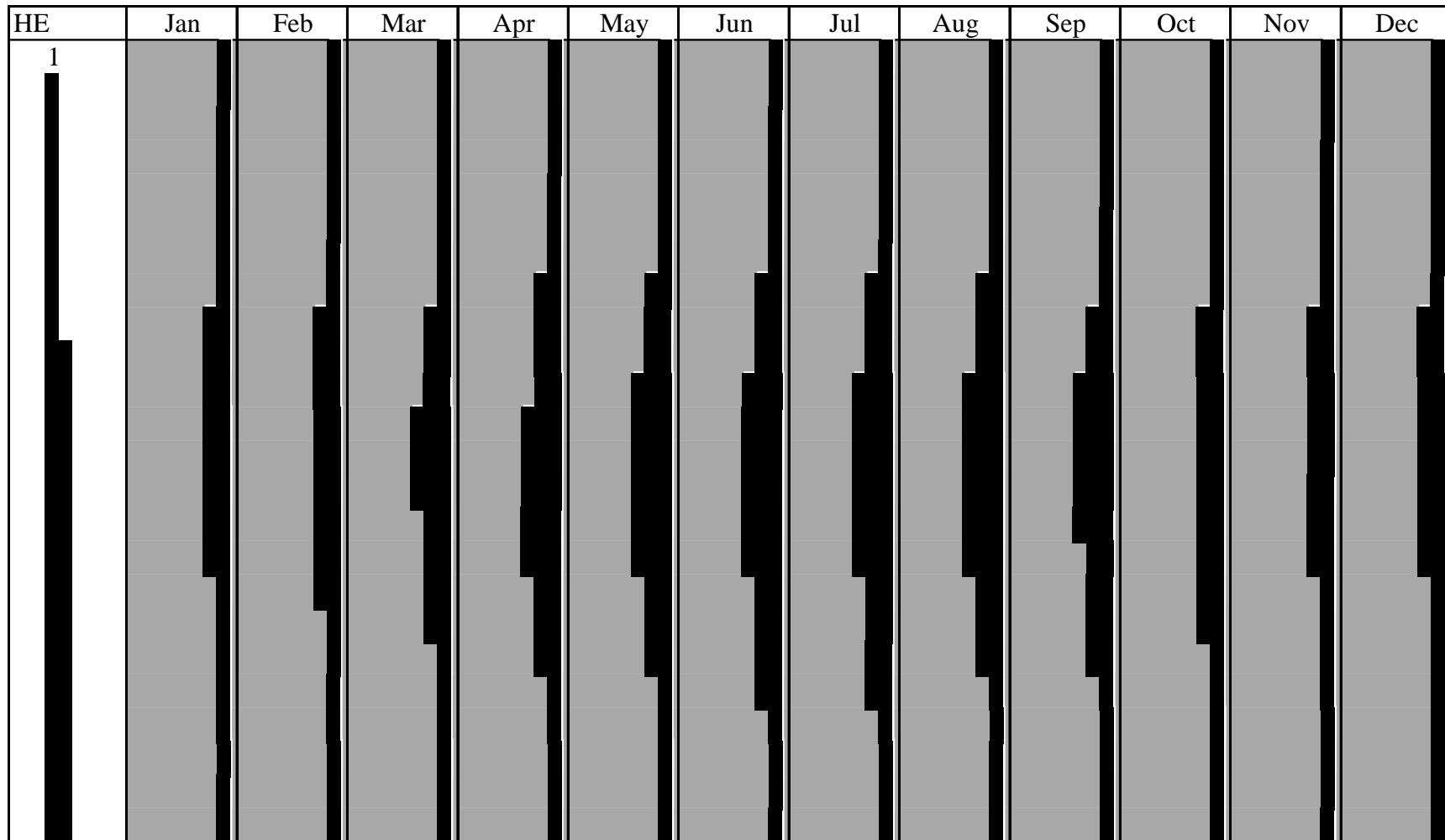
**Part V (b)**

**Operational Information - Production Data of Solar**

Project Name                      Solar Energy Center Data Entry:                     

*This table is calculated from either Part V(a) or Part V(a)(i).*

**HOURLY DELIVERY in MW (Averaged) - 12 Months by 24 Hours For Representative Day For Each Month**



*Notes:*

The hourly output profile(s) above will be summed into monthly peak and off-peak quantities via a uniform conversion. The conversion factors and resulting amounts, prior to applying the adjustment factors, are shown below in Part V (Informational).

**New REC Resources**

Enter the P50 level of output from the resource.

**Resources with Paired and Co-Located Energy Storage**

Must use tab **Part V (with Storage)**.

Version: 09/04/2018

**Part V (c)**

**Operational Information - Maintenance Profile for Solar**

Project Name \_\_\_\_\_ Solar Energy Center

**MONTHLY ADJUSTMENT FACTORS AS PERCENTAGE OF EXPECTED PRODUCTION**

*Enter factors in decimal format, where 1 equals no adjustment (i.e. a decrease of 2% should be entered as 0.98)*

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

**IMPORTANT:** These factors are for specific months and calendar years. The first entry must coincide with the project start date.

Notes:

The adjustment factors in each contract month above will be applied to capture changes in monthly output production for variations associated with maintenance, degradation, or other changes in output. For example, a fuel cell may deplete or degradate from year to year and can be captured here, or a large scheduled outages are performed every 5 years.

If Part V(a) or V(a)(i) already reflect a forced outage rate or scheduled outage information, then Part V(c) should be left blank or contain a factor of 1.000 for each month.

**Version: 09/04/2018**

## Part V (informational)

### Validation and Conversion Assumptions and Calculations

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Average Number of Weekdays



Category	Male (%)	Female (%)	Both (%)	Neither (%)
I don't know	~55	~45	~50	~50
Male	~15	~10	~10	~10
Female	~10	~15	~10	~10
Both	~5	~5	~5	~5
Neither	~5	~5	~5	~5

Sum of Generation HE 1-7, 24



\_\_\_\_\_

[illegible]

\_\_\_\_\_

	On-Peak Hours			Off-Peak Hours			All Hours			AnnCapFac		
Generation (MWh)												

Biennial Delivery Requirement		

**Part V (a -1) - (with Energy Storage)**  
**Operational Information - Production Data of Solar**

Project Name \_\_\_\_\_ Solar Energy Center \_\_\_\_\_

Data Entry: \_\_\_\_\_

*You must insert an Hourly Profile, to the right in Part V(a)(i). This table will be populated automatically.*

**EXPECTED HOURLY GENERATION in MW (averaged) - 12 Months by 24 Hours For Representative Day For Each Month**

HE	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
2												

**Note: Intermittent Resources must use the P50 Level (Probability Distribution of Output).**



**Project Name** \_\_\_\_\_ **Solar Energy Center** **Data Entry:** \_\_\_\_\_

**HOURLY DELIVERY in MW - 12 Months by 24 Hours For Representative Day For Each Month**[illegible]

*Notes:*

The hourly output profile(s) above will be summed into monthly peak and off-peak quantities via a uniform conversion. The conversion factors and resulting amounts, prior to applying the adjustment factors, are shown below in Part V (Informational).

## New REC Resources with Paired and Co-Located Energy Storage

Enter the expected generation from the resource without the Energy Storage in Part V(a)(i). Enter the Energy Storage charge and discharge schedule in Part V(a)(ii). The net delivered energy from the resource, after the timing and loss effects of storage, will be calculated in Parts V(b-1).

**Version: 09/04/2018**

## Part V (c)

### Operational Information - Maintenance Profile for Solar

**Project Name** [REDACTED] Solar Energy Center

### MONTHLY ADJUSTMENT FACTORS AS PERCENTAGE OF EXPECTED PRODUCTION

*Enter factors in decimal format, where 1 equals no adjustment (i.e. a decrease of 2% should be entered as 0.98)*

[illegible]



2024												
2025												
2026												
2027												
2028												
2029												
2030												
2031												
2032												
2033												
2034												
2035												
2036												
2037												
2038												

**IMPORTANT:** These factors are for specific months and calendar years. The first entry must coincide with the project start date.

**Notes:**

The adjustment factors in each contract month above will be applied to capture changes in monthly output production for variations associated with maintenance, degradation, or other changes in output. For example, a fuel cell may deplete or degrade from year to year and can be captured here, or a large scheduled outages are performed every 5 years.

If Part V(a) already reflect a forced outage rate or scheduled outage information, then Part V(c) should be left blank or contain a factor of 1.000 for each month.

Version: 09/04/2018

**Part V (informational)**  
**Validation and Conversion Assumptions and Calculations**

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

*Average Number of Weekdays*

Average Days

*Sum of HE 1-7, 24*

Sum of HE 8-23

*Average Monthly On-Peak Period (prior to monthly adjustment factors)*

*Average Monthly Off-Peak Period (prior to monthly adjustment factors)*

*Total Monthly Energy (prior to monthly adjustment factors)*

### Monthly Balance Check

### Monthly Storage Flows (MWh)

[illegible]

Discharge	0	0	0	0	0	0	0	0	0	0	0	0
Net Loss	0	0	0	0	0	0	0	0	0	0	0	0
Efficiency	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**Total Annual Energy and Capacity Factor (prior to monthly adjustment factors)**

	On-Peak Hours	Off-Peak Hours	All Hours	AnnCapFac
Generation (MWh)	0	0	0	0.00%
Delivery (MWh)	0	0	0	0.00%
Storage (Net -MWh)	0	0	0	#DIV/0!

Biennial Delivery Requirement
0 MWh

Part VI (a)  
Pricing Information

For Long Term Contract Proposals Under Long-Term Contracting Standard

Project Title \_\_\_\_\_ Solar Energy Center

Price Bid 1 (as Specified in Part III)

Contract Year	Energy Price		REC Price
	\$/MWh		\$/REC
	Peak Hours	Off-Peak Hours	All Hours
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

> 15yrs Requires PUC Approval, per the requirement of Section 2.2.2.4.

OR

This Section is Not Applicable

Contract Year	Indexed Below	REC Price
	Day Ahead LMP	\$/REC
	\$/MWh	All Hours
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Enter in CY1

If the proposed Contract Term is for more than 20 years, please explain pricing structure for the additional years in this section below:

Notes:

1) Peak Hours are defined as hours ending 8 through 23 E.P.T. (Eastern Prevailing Time) on weekdays. Off Peak is defined as all other hours.

2) Pricing for Energy and for RECs must closely align with relative market value of those products.

Part VI (b)  
Pricing Information

For Long Term Contract Proposals Under Long-Term Contracting Standard

Project Title \_\_\_\_\_ Solar Energy Center

Price Bid 2 (as Specified in Part III)

Contract Year	Energy Price		REC Price
	\$/MWh		\$/REC
	Peak Hours	Off-Peak Hours	All Hours
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

OR

This Section is Not Applicable

Contract Year	Indexed Below	REC Price
	Day Ahead LMP	\$/REC
	\$/MWh	All Hours
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Enter in CY1

> 15yrs Requires PUC Approval, per the requirement of Section 2.2.2.4.

20

Enter in CY1

If the proposed Contract Term is for more than 20 years, please explain pricing structure for the additional years in this section below:

Notes:

- 1) Peak Hours are defined as hours ending 8 through 23 E.P.T. (Eastern Prevailing Time) on weekdays. Off Peak is defined as all other hours.
- 2) Pricing for Energy and for RECs must closely align with relative market value of those products.

Version: 09/04/2018

Part VI (c)  
Pricing Information

For Long Term Contract Proposals Under Long-Term Contracting Standard

Project Title [REDACTED] Solar Energy Center

Price Bid 3 (Not Specified in Part III)

Must Select Pricing Option in Part III

Contract Year	Energy Price		REC Price
	\$/MWh		\$/REC
	Peak Hours	Off-Peak Hours	All Hours
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

OR

Must Select Pricing Option in Part III

Contract Year	Indexed Below	REC Price
	Day Ahead LMP	\$/REC
	\$/MWh	All Hours
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

> 15yrs Requires PUC Approval, per the requirement of Section 2.2.2.4.

If the proposed Contract Term is for more than 20 years, please explain pricing structure for the additional years in this section below:

Notes:

- 1) Peak Hours are defined as hours ending 8 through 23 E.P.T. (Eastern Prevailing Time) on weekdays. Off Peak is defined as all other hours.
- 2) Pricing for Energy and for RECs must closely align with relative market value of those products.

\_\_\_\_\_

**Part VII**  
**ISO-NE Forward Capacity Market**


**For Long Term Contract Proposals Under Long-Term Contracting Standard**

**Project Name** \_\_\_\_\_  Solar Energy Center \_\_\_\_\_


**Resource Type** \_\_\_\_\_ Solar \_\_\_\_\_

**Status of Project** \_\_\_\_\_  \_\_\_\_\_


**Storage Included** \_\_\_\_\_  \_\_\_\_\_

Does the Proposed Project have a Capacity Supply Obligation in the ISO-NE Forward Capacity Market? \_\_\_\_\_  \_\_\_\_\_

If the Proposed Project is Paired and Co-Located with Energy Storage, does the expected Capacity Supply Obligation reflect any effects from the proposed storage component? \_\_\_\_\_

If the Proposed Project does not have a Capacity Supply Obligation, does Seller intend for it to qualify for one in a future Forward Capacity Auction? \_\_\_\_\_  \_\_\_\_\_

Provide the MW of expected qualified capacity and the first Capacity Commitment Period if the Project will have a Capacity Supply Obligation:

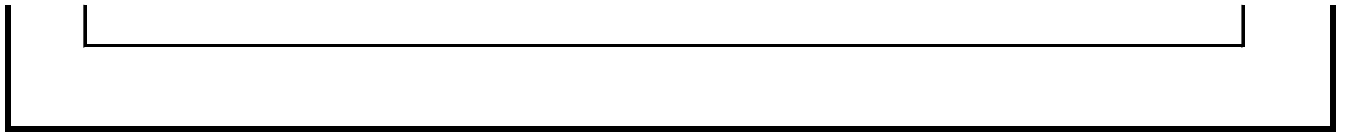
First Capacity Commitment Period Beginning June \_\_\_\_\_  \_\_\_\_\_

MW of Expected Qualified Capacity Summer \_\_\_\_\_ Winter \_\_\_\_\_  
MW \_\_\_\_\_ MW \_\_\_\_\_

Has the Project completed the ISO-NE Preliminary Overlapping Impact Studies, identified the needed upgrades, and included these upgrades as part of your bid? \_\_\_\_\_

If yes, please explain:

--





**Part VIII**  
**Emissions Data**

**For Long Term Contract Proposals Under Long-Term Contracting Standard**

**Project Name** \_\_\_\_\_ **Solar Energy Center**

**Resource Type** \_\_\_\_\_ **Solar**

**Status of Project** \_\_\_\_\_

**First Contract Year Energy Production** \_\_\_\_\_ **MWh**

**Expected Project Emissions**

	<u>Average Rate</u>	<u>Annual Emissions</u>
SO <sub>2</sub>	_____ lb/MWh	_____ 0.0 ton/year
NO <sub>x</sub>	_____ lb/MWh	_____ 0.0 ton/year
CO	_____ lb/MWh	_____ 0.0 ton/year
PM <sub>2.5</sub>	_____ lb/MWh	_____ 0.0 ton/year
CO <sub>2</sub> Equivalent	_____ lb/MWh	_____ 0.0 ton/year

Validation Tables and Data

ISO NE Load Zones

- 4001 .Z.MAINE
- 4002 .Z.NEWHAMPSHIRE
- 4003 .Z.VERMONT
- 4004 .Z.CONNECTICUT
- 4005 .Z.RHODEISLAND
- 4006 .Z.SEMASS
- 4007 .Z.WCMASS
- 4008 .Z.NEMASSBOST
- External Interface

Minimum Nameplate (MW or MWh/h)

20.00

Maximum Nameplate (MW or MWh/h)

400.00

Earliest Effective Date (used to provide warning if entered proposal year is outside of expected range)

2020-01-01

Version

09/04/2018

Latest Effective Date (used to provide warning if entered proposal year is outside of expected range)

2029-12-31

Project Status Types

- New Project
- Proposed Expansion of Existing Project

Start Date (if New/Modified is ESTcod)

Error Message