

Part I Guidelines and Instructions

Certification, Project and Pricing Data (CPPD)

This CPPD comprises Part I through Part VIII and is included as Appendix B to the Notice. Parts II through VIII of this Attachment must be completed in this Excel spreadsheet and submitted according to these instructions in the Notice. Please read these instructions in their entirety. Please note that certain offerings may require the use of more than one CPPD. Each CPPD is considered a separate bid and requires a new bid fee.

Part II - Proposal Certification and Bid Contact Information

Proposal Certification, name of the bidder, project name and contact info.

Part III - Proposal Compliance with RFP and Bid Overview and Bid Fee

Part III (a) identifies the Bid Category per Section 2.2.1.3 of the RFP.

Part III (b) requires the bidder to provide a summary of how this proposal meets the Definitions included in the RFP.

Part III (c) provides information about the maximum hourly delivery and about the structure of the bid(s), including term and Products offered. The Bid Fee is calculated from this information.

Part IV - Eligible Facility Summary Information

There are 3 forms for Part IV: (a), (b) and (c). These Parts are to be used according to the bid categories indicated in Part III.

Part IV (a) is associated with a Class I facility that is seeking a long-term contract for non-firm power. Part IV (a) provides technical information about a facility and/or other facility parameters to be considered in the evaluation. "Guaranteed Commercial Operation Date" is applicable to a new facility or to an existing facility with proposed modifications. "Actual Commercial Operation Date" is the original in-service date for an existing facility prior to the proposed modification. If a proposal is for more than one facility, Part IV (a) should be replicated in this workbook and completed for each facility.

Part IV (b) is associated with a firm service hydroelectric facility that is seeking a long-term contract for firm power. "Guaranteed Delivery Term Start Date" is applicable to both new and existing facilities.

Part IV (c) is associated with a combination of firm service hydroelectric generation and Class I resources.

Part I (continued)
Guidelines and Instructions

Part V - Operational Information

There are 4 different Part V, aligned with bid categories identified in Part III.

Part V-Firm Hydro is intended for bid category 2.2.1.3 (i) and provides operational information for Firm Hydroelectric generation. If there are multiple Firm Hydroelectric resources associated with the proposal, duplicate as applicable. Note: bid category 2.2.1.3 (iii) requires the completion of Part V-Firm Hydro, Part V-RPS Class I, Part V-Firm Energy, and Part V-Combination.

Part V-RPS Class I is intended for bid category 2.2.1.3 (ii) and provides operational information for an RPS Class I resource. If there are multiple RPS Class I resources associated with the proposal, duplicate as applicable. Note: bid category 2.2.1.3 (iii) requires the completion of Part V-Firm Hydro, Part V-RPS Class I, Part V-Firm Energy, and Part V-Combination.

Part V-Firm Energy is intended for bid category 2.2.1.3 (iii) and provides operational information for the Firm Energy associated with an RPS Class I resource that is firmed up with Firm Service Hydroelectric generation. If there are multiple RPS Class I resources firmed up with Firm Service Hydroelectric generation, duplicate as applicable. Note: bid category 2.2.1.3 (iii) requires the completion of Part V-Firm Hydro, Part V-RPS Class I, Part V-Firm Energy, and Part V-Combination.

Part V-Combination is intended for bid category 2.2.1.3 (iii) and provides operational information for the resulting combination proposal of RPS Class I resources and Firm Service Hydroelectric generation. Note: bid category 2.2.1.3 (iii) requires the completion of Part V-Firm Hydro, Part V-RPS Class I, Part V-Firm Energy, and Part V-Combination.

Note: Bid category 2.2.1.3 (iv) should complete the appropriate Part V associated with the proposal.

Within each Part V, there are 4 forms: (a), (a)(i), (b), and (c). The Parts are used to convey the information about the quantity of energy and/or RECs and/or environmental attributes to be delivered.

Part V(a) for Firm Service Hydroelectric Generation resources (*Part V-Firm Hydro*) describes the delivery profile of the proposed deliveries. Part V (a) (i) provides the annual hourly information for a sample year (2022). If expected online date is beyond 2022, amend as applicable.

Part V (a) for RPS Class I resources (*Part V-RPS Class I*) provides hourly information for a sample day for each month of the year. This profile should correlate to the typical production of the facility and may or may not include forced outage rates and is independent of the day of the week. RPS Class I resources must use the P50 level for their profile.

Part I (continued)
Guidelines and Instructions

Part V - Operational Information (continued)

Part V(a) for Firm Energy (*Part V-Firm Energy*) describes the delivery profile for the Firm Energy associated with an RPS Class I resource. Part V (a) (i) provides the annual hourly information for a sample year (2022). If expected online date is beyond 2022, amend as applicable.

Part V(a) for the resulting combination of RPS Class I resources firmed up with Firm Hydroelectric Generation (*Part V-Combination*) describes the delivery profile of the proposed deliveries. Part V (a) (i) provides the annual hourly information for a sample year (2022). If expected online date is beyond 2022, amend as applicable.

Part V (b) provides the Guaranteed Winter Delivery, as defined in 2.2.2.7 of the RFP.

Part V (c) provides monthly adjustment factors for up to 20 years 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 21 years of factors to accommodate partial years at the beginning and end of a 20 year offer. The values should be expressed in decimal format, where 1 means no change to the output. Any reductions should be reflect as 1 less the outage rate (i.e. a 1% decrease in output should be input as 0.99).

There is also a Part V (Informational) which provides conversion of the hourly generation profile into monthly on- and off-peak quantities prior to the monthly adjustment factors according to standard NERC definitions. This takes the profile for Part V-RPS Class I, and the representative profile for Part V-Firm Hydro, Part V-Firm Energy, and Part V-Combination, and makes adjustments for the average number of days over a 20 year period.

Duplicate Part V for as many facilities as are included in the bid.

Part VI - Pricing

Part VI (a) to VI(e) - Conforming Pricing. These parts are used to capture the energy and REC prices for each contract year in the term. Pricing must conform to Section 2.2.1.4 of the RFP. The contract terms and products offered must agree with the selections provided on Part III.

Duplicate VI (a) for each Class I facility and/or Incremental Hydroelectric Generation resource, as needed.

Part VI (f) is for alternative pricing, indexed at or below the ISO-NE Day Ahead or Real-Time Locational Marginal Price, as applicable, for a defined pricing node. Pricing must conform to Section 2.2.1.4 of the RFP.

Part I (continued)
Guidelines and Instructions

Part VII - ISO-NE Forward Capacity Market

Part VIII provides spaces to indicate whether the Facility has a Capacity Supply Obligation, and if so, the amount of that obligation prior to any proration.

Part VIII - Contract Information

Part IX provides space to enter various items which will be required to complete the PPA. Many items shown are copied from other parts of the CPPD.

Part II (a)

Proposal Certification and authorization (Appendix D)

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 that it has no knowledge of the substance of any proposal being submitted by another party in response to this RFP other than a response submitted by the bidder's affiliate of for a project where the Bidder is also a project proponent or participant, and notice of each such affiliated bid or project must be disclosed in writing with each of the Bidder's and affiliated bidder's proposal; (4) the Bidder has no knowledge of any confidential information associated with development of the RFP; (5) the Bidder's proposal has not been developed utilizing knowledge of any non-public information associated with the development of the RFP; (6) the Bidder has not obtained any confidential bidding-related information directly or indirectly from any of the Distribution Companies, in preparation of its bid; and (7) except as disclosed by the Bidder in the relevant portions of its response, the Bidder is not an Affiliated Company of any Massachusetts investor-owned electric Distribution Company and no Distribution Company which is seeking proposals pursuant to the RFP has a financial or voting interest, controlling or otherwise in the bidder or the bidder's proposed project.

Violation of any of the above requirements may be reported to the appropriate government authorities and shall disqualify the Bidder from the RFP process.

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 that this proposal is on complete and accurate forms as provided without alteration of the text. The undersigned further understands and agrees to the provisions of this RFP related to confidential information, and consents to the limited exchange and sharing of confidential information related to the Bidder's proposal as described in this RFP, including with members of the

See signed Certification form provided seperately

Bidder or Bidder's Authorized Representative

Mark Goodwin

Print or Type Name

Downeast Wind

Project Title(s) as Submitted to the Soliciting Parties

President, Apex Clean Energy Holdings, LLC, Sole M #####

Title

Date

Bidder and Contact Information

Contact Information For Project	
Name	Edward du Moulin
Mailing Address	310 4th St. NE, Suite 200 Charlottesville, VA 22902
Courier Address (If Different)	
Telephone Number	
Fax Number	
E-mail Address	

Alternate Contact (Optional)	
Name	Paul Williamson
Mailing Address	310 4th St. NE, Suite 200 Charlottesville, VA 22902
Courier Address (If Different)	
Telephone Number	
Fax Number	
E-mail Address	

Part III (a)
Proposal Compliance

Bidder Name Downeast Wind, LLC

Project Title Downeast Wind

Please check the bid category for this proposal per the following definitions in the RFP:

- ☐ 2.2.1.3 (i) CLEAN ENERGY GENERATION FROM INCREMENTAL
HYDROELECTRIC GENERATION VIA LONG TERM CONTRACT

- ☒ 2.2.1.3 (ii) CLEAN ENERGY GENERATION FROM NEW CLASS I RPS ELIGIBLE
RESOURCES VIA LONG TERM CONTRACT
Complete Part V-RPS Class I

- ☐ 2.2.1.3 (iii) CLEAN ENERGY GENERATION AND CLASS I
RECs/ENVIRONMENTAL ATTRIBUTES VIA LONG TERM CONTRACT
FROM A COMBINATION OF AN INCREMENTAL HYDROPOWER
GENERATION AND NEW CLASS I RPS ELIGIBLE RESOURCES

- ☐ 2.2.1.3 (iv) CLEAN ENERGY GENERATION FROM INCREMENTAL
HYDROPOWER GENERATION AND/OR NEW CLASS I RPS ELIGIBLE
RESOURCE WITH CLASS I RECS AND/OR ENVIRONMENTAL
ATTRIBUTES VIA LONG TERM CONTRACT WITH A TRANSMISSION
PROJECT UNDER FERC TARIFF
 - ☐ Clean Energy Generation From Incremental Hydroelectric
Generation (With or Without Environmental Attributes) Via
Long Term Contract With a Transmission Project Under FERC
Tariff

 - ☐ Clean Energy Generation From New Class I RPS Eligible
Resources (With or Without RECs) Via Long Term Contract
With a Transmission Project Under FERC Tariff

 - ☐ Clean Energy Generation and Class I RECs/Environmental
Attributes Via Long Term Contract From A Combination of
Incremental Hydropower Generation and New Class I RPS
Eligible Resources With a Transmission Project Under FERC
Tariff

Part III (b)
Definitions

Provide a summary description of the following:

How this proposal meets the definition of "Clean Energy Generation"

According to 83D and the Commonwealth of Massachusetts in An Act to Promote Energy Diversity (<https://malegislature.gov/Laws/SessionLaws/Acts/2016/Chapter188>), "Clean energy generation" means "either: (i) firm service hydroelectric generation from hydroelectric generation alone; (ii) new Class I RPS eligible resources that are firmed up with firm service hydroelectric generation; or (iii) new Class I renewable portfolio standard eligible resources."

Downeast is a planned wind turbine generation project and would qualify as a (iii) new Class I RPS eligible resource. Wind energy is an RPS Class I eligible technology according to the RPS Program Summaries page: <http://www.mass.gov/eea/energy-utilities-clean-tech/renewable-energy/rps-aps/rps-and-aps-program-summaries.html>.

How this proposal meets the definition of "New Class I RPS Eligible Resource", if applicable

Downeast is located in the ISO New England control area, within the state of Maine. The Project will reach commercialization [REDACTED] well after the RPS Class I required build date of "on or after January 1, 1998." Wind energy is an RPS Class I eligible technology according to the RPS Program Summaries page: <http://www.mass.gov/eea/energy-utilities-clean-tech/renewable-energy/rps-aps/rps-and-aps-program-summaries.html>. The Project is eligible for NEPOOL GIS Certificates.

How this proposal meets the definition of "Energy storage system", if applicable

N/A

How this proposal meets the definition of "Environmental Attribute", if applicable

Downeast will qualify under the RPS as a New Class I RPS Eligible Resource, and the Buyer will represent title to and claim of all Environmental Attributes generated by the project, per the definition of "Environmental Attributes" from the Class I Model PPA.

How this proposal meets the definition of "Firm Service Hydroelectric Generation", if applicable

N/A

How this proposal meets the definition of "Incremental Hydroelectric Generation", if applicable

N/A

How this proposal meets the definition of "Delivery", "Deliveries", "Deliver", or "Delivered"

Per the executed LGIA (LGIA-ISONE/EMERA-16-01) with Emera Maine and ISO-NE, the Project will interconnect to the [REDACTED] an ISO-NE PTF node. Per the Class I Model PPA and ISO-NE Rules, the Seller is responsible for delivery and associated costs up to the PTF.

Part III (c)
Bid Overview and Bid Fee

Bidder Name

[REDACTED]

Project Title

Downeast Wind, LLC or "Downeast"

What is the maximum hourly delivery amount in MW?

[REDACTED]

This Section For a Proposal 2.2.1.3 (i), (ii), (iii), (iv)

Name of Eligible Facility (if multiple facilities, enter "Multiple Facilities"):

Downeast Wind, LLC

Pricing Proposal	Additional	Products Offered			Use Form
	Price Offer?	Term in Years	Energy	RECs	
1					Part VI (a)
2					Part VI (b)
3					Part VI (c)
4					Part VI (d)
5					Part VI (e)
Alternative					Part VI (f)
Additional Price Offers					1

Bid Fee Basic (includes one pricing offer)

\$ 33,750

Bid Fee for additional pricing offers

\$ 10,000

Total Bid Fee

\$ 43,750

Bid Fee Instructions

The bid fee is payable to each of the Electric Distribution Companies as follows:


	Percent Allocation	Payment Amount
Eversource Energy	53.15%	\$ 23,253.13
National Grid	45.72%	\$ 20,002.50
UNITIL	<u>1.13%</u>	<u>\$ 494.38</u>
	100.00%	\$ 43,750.01

Part IV (a)
Eligible Facility Summary Information

Facility Name Downeast Wind

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

Actual Commercial Operation Date (for existing facility)	N/A
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<p><i>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 Delivery Term Start Date or the Guaranteed Commercial Operation Date as applicable, as shown to the right:</i></p>	
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Capacity of the Facility (MW, as proposed)	■ Gross	■ Net
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Contract Maximum Amount (as defined in Form PPA) _____ MWh/hr
(note: the aggregate entitlement percentage of all buyers)

Estimated Net Capacity Factor (%)	■	%
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Expected Annual Availability (%)	██████████	%
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Buyers' Percentage Entitlement of facility output _____ %
Enter Percent relative to entire Facility, 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 amount?

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

Project Site/Location:	Street	[REDACTED]		
	City	Columbia		
	State/Prv	Maine	Zip	04623

Proposed Interconnection Point [REDACTED]

Proposed Point of Delivery [REDACTED])

ISO New England Load Zone for Proposed Delivery Point

Part IV (b)
Firm Service Hydroelectric Facility Summary Information

Guaranteed Delivery Term Start Date _____

Contract Maximum Amount (as defined in Form PPA) _____ MWh/hr

Amount entered should reflect the highest MWh per hour value of the Clean Energy Generation

	Name of Facility	Location
Facility #1		
Facility #2		
Facility #3		
Facility #4		
Facility #5		
Facility #6		
Facility #7		

	Commerical Operation Date	Technology	Nameplate Rating of Facility (MW)
Facility #1			
Facility #2			
Facility #3			
Facility #4			
Facility #5			
Facility #6			
Facility #7			

Proposed Interconnection Point _____

Point of Delivery (ISO-NE PTF Node) _____

ISO New England Load Zone for Proposed Delivery Point _____

Part IV(c)
Firm Hydro Resource Summary Information

For bids including energy from Firm Hydro resources, please provide the following:

**Name of Class I Facility [from Part IV(a)] that
will be firmed up with Incremental Hydroelectric
Generation:**

Nameplate rating of above Class I Facility:

Delivery Point of above Class I Facility:

Please note: The firming energy from the Incremental Hydroelectric Generation facility listed below must be delivered to the Delivery Point of the Class I Facility listed above.

Describe how the Incremental Hydroelectric Generation resource(s) listed below will be used to firm up energy deliveries from the above Class I Facility. Please be very specific. If a dispatchable resource, provide the availability factor for each resource, describe how the Incremental Hydroelectric Generation resource(s) will be scheduled to firm up deliveries from the Class I Facility, and indicate to what extent the combination of the Class I Facility and the Incremental Hydroelectric Generation Resource(s) will provide firm energy deliveries.

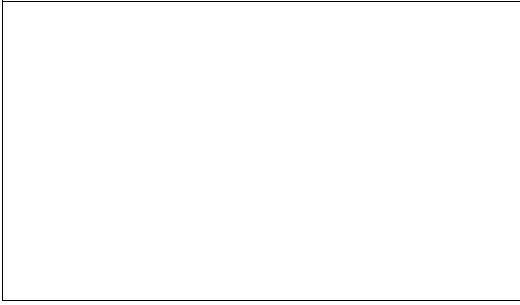
Name of Balancing Resource	Commercial Operation Date	Technology	Nameplate Rating of Balancing Resource (MW)

PLEASE NOTE: Generation production information must be provided in Part V (a) and V (b) for each Class I Facility using the Part V-Intermittent form. For each Incremental Hydroelectric Generation resource, Part V (a) and V (b) must be completed using the Part V-Firm Hydro form. The resulting combined delivery profile must be provided using the Part V-Combination form. Duplicate the worksheets as needed.

Part V (a)
Operational Information
Firm Hydro

Facility Name _____

Describe the delivery profile for a proposal of Firm Service Hydroelectric Generation for a representative year:



Enter proposal's representative hourly delivery profile for a proposal for Firm Service Hydroelectric Generation for a representative year, 2022, in Part V (a)(i), provided below. If expected commercial online date is beyond 2022, alter as applicable.

[illegible][illegible][illegible][illegible]

[illegible]

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Part V (a) (i)
Representative Deliveries in Representative Year (cont.)
2022

[illegible]

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Part V (a) (i)
Representative Deliveries in Representative Year (cont.)

[illegible]

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Part V (a) (i)	
Representative Deliveries in Representative Year (cont.)	
2022	
1	2022

AUGUST

[illegible]

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Part V (a) (i)
Representative Deliveries in Representative Year (cont.)

SEPTEMBER

HE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Month
000000	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri		Avg

Notes

The hourly output profile 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).

Various Uses of Part V:

RPS Class I Resources

Enter the P50 output level of the resource. If the proposal is for more than one facility, copy and complete Part V-RPS Class I for each resource.

RPS Class I Resources with Energy Storage

Enter the P50 output level of the resource without the Energy Storage. If the proposal is for more than one facility, copy and complete Part V-RPS Class I for each resource without the Energy Storage. Also copy and complete Part V-Firm for each firm hydroelectric generation resource. Finally, copy and complete a Part V for the aggregate hourly amount of all resources including the Energy Storage/Balancing Energy.

Firm Hydro

Complete Form Part V-Firm Hydro. If the proposal is for more than one firm hydro facility, copy and complete Part V-Firm Hydro for each resource.

Firm Energy

This is intended for an RPS Class I resources that is to be firmed up with firm service hydroelectric generation. Complete Form V-Firm Energy for the Firm Energy associated with a proposal. If the proposal includes multiple facilities that will be fired up with firm service hydroelectric generation, copy and complete Part V-Firm Energy for each resource.

Combination Bids

If the proposal includes a combination of RPS Class I Resources and firm hydroelectric generation, complete forms Part V-Firm Hydro, Part V-RPS Class I, Part V-Firm Energy, and Part V-Combination for the complete proposal delivery profile.

Part V (b)
Guaranteed Winter Peak Delivery
Firm Hydro

Facility Name _____

Pursuant to section 2.2.2.7, bidders are required to submit a delivery profile for firm hydro with no Winter Peak Period hour less than 60 percent (60%) of their highest annual single hourly delivery claimed in their annual delivery profile. Winter Peak Period is defined as the months of January, February, and December, and peak hours ending 0800 to hour ending 2300 Monday through Friday, excluding North American Reliability Corporation holidays.

Highest Annual Single Hourly Delivery	0	MW	Highest Winter Peak Period hour	0	MW
60% Winter Peak Guarantee		0	MW		

Note: Reference section 2.2.2.7, selected bidders that do not satisfy the guaranteed delivery requirements for their resource type will be responsible for liquidated damages, for the energy not delivered, for the associated REC's and/or environmental attributes not provided, and, as applicable, for associated transmission infrastructure support costs.

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

Generation Conversion Prior to Monthly Adjustment Factors

Sum of Generation HE 1-7 24

[illegible]

Sum of Generation HE 8-23

0 0 0 0 0 0 0 0 0 0 0 0

Sum of Generation HE 1-24

0 0 0 0 0 0 0 0 0 0 0 0

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

0 0 0 0 0 0 0 0 0 0 0 0

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

0 0 0 0 0 0 0 0 0 0 0 0

Total Generation (prior to monthly adjustment factors)

0 0 0 0 0 0 0 0 0 0 0 0

Winter Peak Period Deliveries

0 0 0

Balance Check

0 0 0 0 0 0 0 0 0 0 0 0

Notes:

The hourly output profile 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).

Various Uses of Part V:

RPS Class I Resources

Enter the P50 output level of the resource. If the proposal is for more than one facility, copy and complete Part V-RPS Class I for each resource.

RPS Class I Resources with Energy Storage

Enter the P50 output level of the resource without the Energy Storage. If the proposal is for more than one facility, copy and complete Part V-RPS Class I for each resource without the Energy Storage. Also copy and complete Part V-Firm for each firm hydroelectric generation resource. Finally, copy and complete a Part V for the aggregate hourly amount of all resources including the Energy Storage/Balancing Energy.

Firm Hydro

Complete Form Part V-Firm Hydro. If the proposal is for more than one firm hydro facility, copy and complete Part V-Firm Hydro for each resource.

Firm Energy

This is intended for an RPS Class I resources that is to be firmed up with firm service hydroelectric generation. Complete Form V-Firm Energy for the Firm Energy associated with a proposal. If the proposal includes multiple facilities that will be fired up with firm service hydroelectric generation, copy and complete Part V-Firm Energy for each resource.

Combination Bids

If the proposal includes a combination of RPS Class I Resources and firm hydroelectric generation, complete forms Part V-Firm Hydro, Part V-RPS Class I, Part V-Firm Energy, and Part V-Combination for the complete proposal delivery profile.

Part V (c)

Operational Information - Maintenance Profile

Facility Name Downtown Wind, LLC

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]

IMPORTANT: These factors are for specific months and 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, land fill gas or solar 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 reflects a forced outage rate or scheduled outage information, then Part V (b) should be left blank or contain a factor of 1 for each month in the above.

Part V (a)
Operational Information
Firm Energy

Facility Name _____

Describe the delivery profile for Firm Energy associated with a proposal, for a representative year:

Enter the delivery profile for Firm Energy associated with a proposal, for a representative year, 2022, in Part V (a) (i), provided below. If expected commercial online date is beyond 2022, alter as applicable.

[illegible][illegible][illegible][illegible]

[illegible]

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Part V (a) (i)
Representative Deliveries in Representative Year (cont.)
2022

[illegible]

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Part V (a) (i)
Representative Deliveries in Representative Year (cont.)

[illegible]

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Part V (a) (i)
Representative Deliveries in Representative Year (cont.)

[illegible]

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HE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri
####																														

Month
Avg

Month
Avg

Notes

The hourly output profile 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).

Various Uses of Part V:

RPS Class I Resources

Enter the P50 output level of the resource. If the proposal is for more than one facility, copy and complete Part V-RPS Class I for each resource.

RPS Class I Resources with Energy Storage

Enter the P50 output level of the resource without the Energy Storage. If the proposal is for more than one facility, copy and complete Part V-RPS Class I for each resource without the Energy Storage. Also copy and complete Part V-Firm for each firm hydroelectric generation resource. Finally, copy and complete a Part V for the aggregate hourly amount of all resources including the Energy Storage/Balancing Energy.

Firm Hydro

Complete Form Part V-Firm Hydro. If the proposal is for more than one firm hydro facility, copy and complete Part V-Firm Hydro for each resource.

Firm Energy

This is intended for an RPS Class I resources that is to be firmed up with firm service hydroelectric generation. Complete Form V-Firm Energy for the Firm Energy associated with a proposal. If the proposal includes multiple facilities that will be fired up with firm service hydroelectric generation, copy and complete Part V-Firm Energy for each resource.

Combination Bids

If the proposal includes a combination of RPS Class I Resources and firm hydroelectric generation, complete forms Part V-Firm Hydro, Part V-RPS Class I, Part V-Firm Energy, and Part V-Combination for the complete proposal delivery profile.

Part V (b)
Guaranteed Winter Peak Delivery
Firm Energy

Facility Name _____

Pursuant to section 2.2.2.7, bidders are required to submit a delivery profile for the proposed firm service to be firmed up with firm service hydroelectric generation, with such firm service in each hour of the Winter Peak Period required to be no less than 60 percent (60%) of their highest annual single hourly firm service delivery proposed. Winter Peak Period is defined as the months of January, February, and December, and peak hours ending 0800 to hour ending 2300 Monday through Friday, excluding North American Reliability Corporation holidays.

Highest Annual Single Hourly Delivery (Firm) _____ MW Highest Winter Peak Period hour (Firm) _____ MW

60% Winter Peak Guarantee _____ MW

Reference section 2.2.2.7, selected bidders that do not satisfy the guaranteed delivery requirements for their resource type will be responsible for liquidated damages, for the energy not delivered, for the associated RECs and/or environmental attributes not provided, and, as applicable, for associated transmission information not provided.

Facility Name _____

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]

IMPORTANT: These factors are for specific months and 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, land fill gas or solar 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 reflects a forced outage rate or scheduled outage information, then Part V (b) should be left blank or contain a factor of 1 for each month in the above.

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

Generation Conversion Prior to Monthly Adjustment Factors

Sum of Generation HE 1-7 24

[illegible]

Sum of Generation HE 8-23

0 0 0 0 0 0 0 0 0 0 0 0

Sum of Generation HE 1-24

0 0 0 0 0 0 0 0 0 0 0 0

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

0 0 0 0 0 0 0 0 0 0 0 0

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

0 0 0 0 0 0 0 0 0 0 0 0

Total Generation (prior to monthly adjustment factors)

0 0 0 0 0 0 0 0 0 0 0 0

Winter Peak Period Deliveries

0 0 0

Balance Check

0 0 0 0 0 0 0 0 0 0 0 0

Facility Name _____ RPS Class I and II _____

Describe the delivery profile for a proposal of a combination of Firm Service Hydroelectric Generation and RPS Class I for a representative year:

[illegible]

Enter proposal's representative hourly delivery profile for a proposal for a combination of Firm Service Hydroelectric Generation and RPS Class I for a representative year, 2022, in Part V (a)(i), provided below. If expected commercial online date is beyond 2022, alter as applicable.

[illegible][illegible][illegible][illegible]

[illegible]

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Part V (a) (i)
Representative Delivers in Representative Year (cont.)
2022

[illegible]

Version FINAL 03/31/2017

Part V (a) (i) Representative Deliveries in Representative Year (cont.) 2022

[illegible]

Version FINAL 03/31/2017

Part V (a) (i)

Representative Deliveries in Representative Year (cont.)

2022

[illegible]

Version FINAL 03/31/2017

Part V (a) (i) Representative Deliveries in Representative Year (cont.) 2022

SEPTEMBER																														Month	
HE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Avg
Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri		

Notes

The hourly output profile 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).

Various Uses of Part V:

RPS Class I Resources

Enter the P50 output level of the resource. If the proposal is for more than one facility, copy and complete Part V-RPS Class I for each resource.

RPS Class I Resources with Energy Storage

Enter the P50 output level of the resource without the Energy Storage. If the proposal is for more than one facility, copy and complete Part V-RPS Class I for each resource without the Energy Storage. Also copy and complete Part V-Firm for each firm hydroelectric generation resource. Finally, copy and complete a Part V for the aggregate hourly amount of all resources including the Energy Storage/Balancing Energy.

Firm Hydro

Complete Form Part V-Firm Hydro. If the proposal is for more than one firm hydro facility, copy and complete Part V-Firm Hydro for each resource.

Firm Energy

This is intended for an RPS Class I resources that is to be firmed up with firm service hydroelectric generation. Complete Form V-Firm Energy for the Firm Energy associated with a proposal. If the proposal includes multiple facilities that will be fired up with firm service hydroelectric generation, copy and complete Part V-Firm Energy for each resource.

Combination Bids

If the proposal includes a combination of RPS Class I Resources and firm hydroelectric generation, complete forms Part V-Firm Hydro, Part V-RPS Class I, Part V-Firm Energy, and Part V-Combination for the complete proposal delivery profile.

Part V (b)
Guaranteed Winter Peak Delivery
Class I RPS and Firm Hydro

Facility Name _____

Pursuant to section 2.2.2.7, bidders are required submit a delivery profile for the Class I RPS eligible resources, and a delivery profile for the proposed firm service to be firmed up with firm service hydroelectric generation, with such firm service in each hour of the Winter Peak Period required to be no less than 60 percent (60%) of their highest annual single hourly firm service delivery proposed. Bidders are required to guarantee (1) at least 70 percent (70%) of energy in their delivery profile for the Class I RPS eligible resources of the Winter Peak Period is delivered over the course of every Winter Peak Period and (2) that the total delivered energy from all of the project's resources meets or exceeds the submitted firm service delivery profile in all hours during the Winter Peak Period. Winter Peak Period is defined as the months of January, February, and December, and peak hours ending 0800 to hour ending 2300 Monday through Friday, excluding North American Reliability Corporation holidays.

(1) Winter Peak Deliveries from RPS Class I Resources:	RPS Class I _____ MWh	(row 176 in Part V-RPS Class I)
	Firm Energy _____ MWh	(row 614 in Part V-Firm Energy)
70% of Winter Peak Deliveries from RPS Class I above Firm Energy	_____ MWh	(illustrative)

Reference section 2.2.2.7, selected bidders that do not satisfy the guaranteed delivery requirements for their resource type will be responsible for liquidated damages, for the energy not delivered, for the associated RECs and/or environmental attributes not provided, and, as applicable, for associated transmission infrastructure support costs.

(2) Total Energy Delivered meets or exceeds the firm service delivery profile	Combination _____ MWh
	Firm Energy _____ MWh
Total Delivered Energy meets or exceeds firm service delivery profile	_____ MWh

Reference section 2.2.2.7, selected bidders that do not satisfy the guaranteed delivery requirements for their resource type will be responsible for liquidated damages, for the energy not delivered, for the associated RECs and/or environmental attributes not provided, and, as applicable, for associated transmission infrastructure support costs.

Facility Name _____

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]

IMPORTANT: These factors are for specific months and 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, land fill gas or solar 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 reflects a forced outage rate or scheduled outage information, then Part V (b) should be left blank or contain a factor of 1 for each month in the above.

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

<i>Average Number of Weekdays</i>	22.14	20.18	22.14	21.43	22.14	21.43	22.14	22.14	21.43	22.14	21.43	22.14
<i>Average Number of Weekend Days</i>	8.86	8.07	8.86	8.57	8.86	8.57	8.86	8.86	8.57	8.86	8.57	8.86
<i>Average Days</i>	31.00	28.25	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00
<i>Average NERC Holiday</i>	1.00	-	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00

Generation Conversion Prior to Monthly Adjustment Factors

[illegible]

Part VI (a)
Pricing Information

Project Title	<u>Downeast Wind</u>
----------------------	-----------------------------

[illegible]

Duplicate this worksheet as needed for each Class I facility and/or Incremental Hydroelectric Generation resource included in bid.

Notes:

- 1) On-Peak is defined as hours ending 8 through 23 Monday through Friday, excluding NERC holidays. Off Peak is defined as all other hours.
- 2) Prices for energy and/or RECs may not decrease from one Contract Year to the next.

Part VI (b)

Pricing Information

Project Title	<u>Downeast Wind</u>
----------------------	-----------------------------

[illegible]

Duplicate this worksheet as needed for each Class I facility and/or Incremental Hydroelectric Generation resource included in bid.

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- 1) On-Peak is defined as hours ending 8 through 23 Monday through Friday, excluding NERC holidays. Off Peak is defined as all other hours.
- 2) Prices for energy and/or RECs may not decrease from one Contract Year to the next.

Part VI (c)
Pricing Information

Project Title **Downeast Wind**

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

Duplicate this worksheet as needed for each Class I facility and/or Incremental Hydroelectric Generation resource included in bid.

Notes:

- 1) On-Peak is defined as hours ending 8 through 23 Monday through Friday, excluding NERC holidays. Off Peak is defined as all other hours.
- 2) Prices for energy and/or RECs may not decrease from one Contract Year to the next.

Part VI (d)
Pricing Information

Project Title **Downeast Wind**

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

Duplicate this worksheet as needed for each Class I facility and/or Incremental Hydroelectric Generation resource included in bid.

Notes:

- 1) On-Peak is defined as hours ending 8 through 23 Monday through Friday, excluding NERC holidays. Off Peak is defined as all other hours.
- 2) Prices for energy and/or RECs may not decrease from one Contract Year to the next.

Part VI (e)
Pricing Information

Project Title **Downeast Wind**

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

Duplicate this worksheet as needed for each Class I facility and/or Incremental Hydroelectric Generation resource included in bid.

Notes:

- 1) On-Peak is defined as hours ending 8 through 23 Monday through Friday, excluding NERC holidays. Off Peak is defined as all other hours.
- 2) Prices for energy and/or RECs may not decrease from one Contract Year to the next.

Part VI (f)
Alternative Pricing Information

Project Title **Downeast Wind**

Please provide a description of the alternative pricing including formulas and examples, etc. Any index used in a pricing formula must be energy related and publicly available. See Section 2.2.1.4 of the RFP.

Duplicate this worksheet as needed for each Class I facility and/or Incremental Hydroelectric Generation resource included in bid.

Notes:

Peak is defined as all other hours.

2) Prices for energy and/or RECs may not decrease from one Contract Year to the next.

Part VII
ISO-NE Forward Capacity Market

Facility Name Downeast Wind

Technology Type Wind energy

Status of Facility Development

Does the Facility have a Capacity Supply Obligation in the ISO-NE Forward Capacity Market?

☒

If yes above, provide the MW of Capacity Supply Obligation prior to any proration for the following periods below:

Enter MW values prior to any entitlement

	Summer MW	Winter MW
June 2018 through May 2019	_____	_____
June 2019 through May 2020	_____	_____
June 2020 through May 2021	_____	_____
June 2021 through May 2022	_____	_____

If the Facility does not currently have a Capacity Supply Obligation, has the Facility 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:

If the Facility does not currently have a Capacity Supply Obligation, does the Facility intend to qualify, clear and take on a Capacity Supply Obligation for a future ISO-NE Forward Capacity Auction?

☒

Commitment Period for which the Facility will have a Capacity Supply Obligation:

<u>First Capacity Commitment Period</u>	Summer MW	Winter MW
June 2022 through May 2023	_____	_____

(Change xx and yy to reflect first Capacity Commitment Period)

Part VIII
Contract Information

Facility Name **Downeast Wind**

The following Detailed Information Request for Projects is provided in order to facilitate the completion of a Power Purchase Agreement ("PPA") with the EDCs, should your project be selected as a winning bidder.

1) Project description including location:

a) Legal Name of Entity to be the Seller (Preamble):

Downeast Wind, LLC

b) Type of Organization (e.g., Corporation, LLC, Partnership) (Preamble)

LLC

c) Jurisdiction of Organization (Preamble and Section 7.2(a)):

Delaware

d) Technology: (Exhibit A of PPA):

Wind energy

e) Name of Facility: (Exhibit A of PPA)

Downeast Wind, LLC

f) Address of Facility: (Exhibit A of PPA)

Columbia, Maine

g) Guaranteed Commercial Operation Date: (Second Whereas clause and §3.1(a)(iv) of Class I PPA):

h) Guaranteed Delivery Term Start Date: (Definitions - Article 1 of Firm PPA):

N/A

i) Buyer's Percentage Entitlement: (Definitions- Article 1 of Class I PPA)

% of Products from the Facility to be delivered to Utility

- A fixed percentage of Energy and/or RECs to be sold to the contracting EDC. The Class I PPA is unit contingent and does NOT permit a fixed quantity of Products (e.g., the first "X" MWh of energy in any given hour) to be sold to the contracting EDC.

j) Contract Maximum Amount: (Definitions- Article 1)

MWh per hour of Energy and/or associated RECs.

Part VIII (Continued)
Contract Information

2) Critical Milestones (Section 3.1 of Class I PPA) – Please provide the date by which each of the following milestones will be achieved:

(i) Receipt of all Permits necessary to construct the Facility, as set forth in Exhibit B to the contract, in final form

Date:

(ii) Acquisition of all required real property rights necessary for construction and operation of the Facility, interconnection of the Facility to the Interconnecting Utility, and performance of Seller's obligations under this Agreement as set forth on Exhibit B to the contract

Date:

(iii) Demonstration of the financial capability (whether through third party financing to Seller or Seller's own financial assets) to proceed with the development and construction of the Facility, including, as applicable, Seller's financial obligations with respect to interconnection of the Facility to the Interconnecting Utility and construction of the Network Upgrades

Date:

(iv) Issuance of a full notice to proceed by Seller to its general contractor and commencement of construction of the Facility

Date:

3) Notices (Section 17)

To Seller:

(optional) With a copy to:

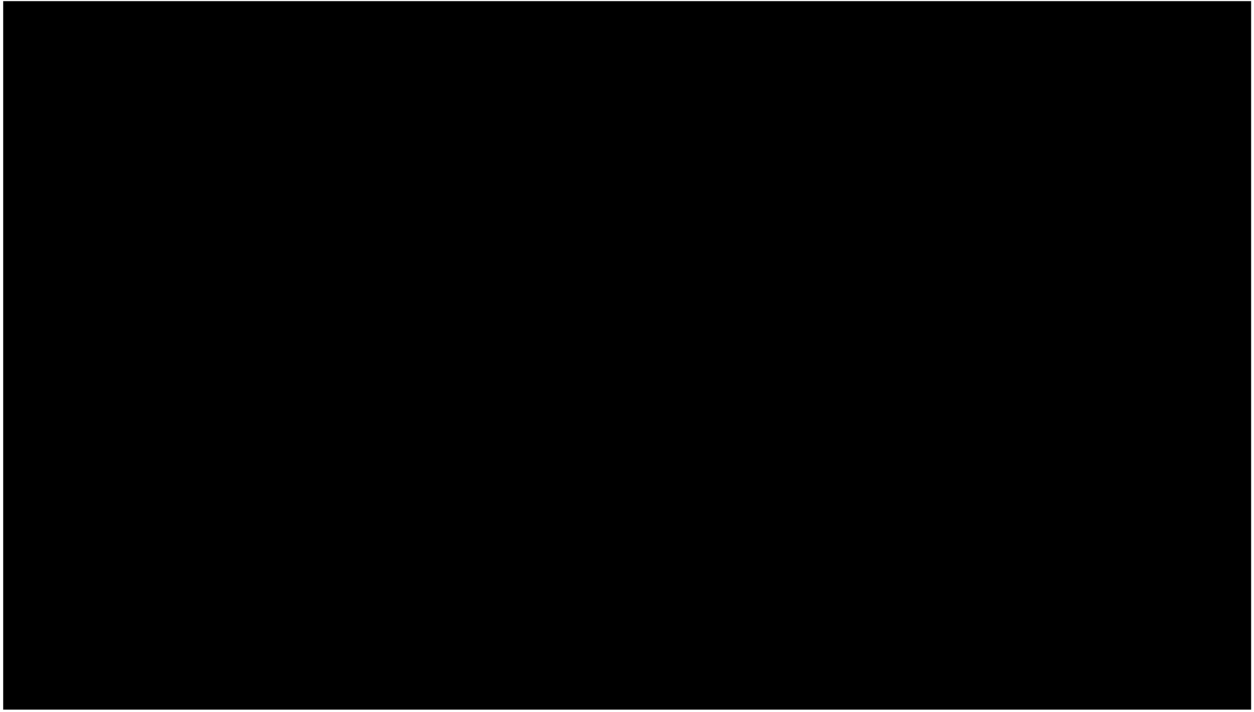
4) Description of Facility (Exhibit A)

Please other descriptive details [such as Operational Limitations and criteria for substantial completion of the Facility] as specified by Seller in its response to the RFP. If none, enter "none")

Contract Information

5) Seller's Critical Milestones for New Facilities or Proposed Upgrades (Class I PPA)

[illegible][illegible]



Part VIII (Continued)

Contract Information

6) Seller's Information for Existing Facility

[illegible]

Validation Tables and Data

Titles

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

Version

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