
SECTION 83C

REQUEST FOR PROPOSAL APPLICATION FORM

APPLICANT INFORMATION

Applicant: enter applicant name

Contact: enter name

Address: enter address

Phone: enter phone

Email: enter email

SECTION 1 OF APPENDIX A TO THE RFP
CERTIFICATION, PROJECT AND PRICING DATA

The Certification, Project and Pricing Data (“CPPD”) document is a Microsoft Excel workbook that is provided on the website at www.MACleanEnergy.com.

SECTION 2 OF APPENDIX A TO THE RFP
EXECUTIVE SUMMARY OF THE PROPOSAL (INCLUDING THE BASE PROPOSAL
AND ANY ALTERNATIVE PROPOSALS)

The bidder is required to provide an executive summary of the project proposal that includes a complete description of the proposed generation bid, the proposed contract term and pricing schedule, interconnection plan, the overall project schedule and other factors the bidder deems to be important. A table summarizing proposal(s) including details such as generation project location, interconnection location(s), capacity (MW), commercial operation date, pricing (\$/MWh), etc. is encouraged.

Enter executive summary here

**SECTION 3 OF APPENDIX A TO THE RFP
OPERATIONAL PARAMETERS**

- 3.1 Maintenance Outage Requirements – Specify partial and complete planned outage requirements in weeks or days for all generation facilities and associated facilities required for the delivery of energy from the generation facilities to the delivery point. Also, list the number of months required for the cycle to repeat (e.g., list time interval of minor and major overhauls, and the duration of overhauls).

Enter appropriate explanation in this space or reference applicable attachment(s)

- 3.2 Operating Constraints – Specify all the expected operating constraints and operational restrictions for the project (e.g., limits on the number of hours a unit may be operated per year or unit of time).

Enter appropriate explanation in this space or reference applicable attachment(s)

- 3.3 Reliability – Describe how the proposal would provide enhanced electricity reliability to Massachusetts, including its impact on transmission constraints.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 3.4 Moderation of System Peak Load – Describe how the proposal would contribute to moderating system peak load requirements and provide the following information:
- i) Estimated average output for each summer period (June- September) from 3:00 - 7:00 pm
 - ii) Estimated average output for each winter period (October-May) from 4:00 – 9:00 pm

Enter appropriate explanation in this space or reference applicable attachment(s)

**SECTION 4 OF APPENDIX A TO THE RFP
ENERGY RESOURCE AND DELIVERY PLAN**

- 4.1 For Eligible Facilities, the bidder is required to provide an energy resource plan and a production/delivery profile for its proposed project, including supporting documentation. The energy resource and profile information should be consistent with the type of technology/resource option proposed and the term proposed. Bidders should respond to all information requests which are relevant to the bid in a timely manner.

All Projects

Provide a summary of all collected wind data for the proposed site. Identify when and how (e.g. meteorological mast or LiDAR – for “Light Detection and Ranging”) the data was collected and by whom.

Enter appropriate explanation in this space or reference applicable attachment(s)

Indicate where the data was collected and its proximity to the proposed facility site. Include an identification of the location and height for the anemometers and/or “range gate” heights for sensing by LiDAR that were used to arrive at an assessment of the site generation capability.

Enter appropriate explanation in this space or reference applicable attachment(s)

Describe any additional wind data collection efforts that are planned or ongoing.

Enter appropriate explanation in this space or reference applicable attachment(s)

Provide (a) at least one year of hourly wind resource data. Real Data collected from the site is preferred, though projected data is permissible. Methodology must also be included. and (b) a wind resource assessment report for the proposed facility from a qualified unaffiliated third-party wind resource assessment firm. Include an analysis of the available wind data which addresses the relationship between wind conditions and electrical output. Provide a projection of net annual energy production, including projections of average net hourly energy production, based on the wind resource data (hourly 8760 data profile and a 12 x 24 energy projection) at both P50 and P90 levels.

Enter appropriate explanation in this space or reference applicable attachment(s)

Provide a site-adjusted power curve. Each curve should list the elevation, temperature and air density used.

Enter appropriate explanation in this space or reference applicable attachment(s)

Identify the assumptions for losses in the calculation of projected annual energy production, including each element in the calculation of losses.

Enter appropriate explanation in this space or reference applicable attachment(s)

4.2 Offshore Wind Energy Generation Delivery Plan

Please provide an energy delivery plan and a production/delivery profile for the proposed project, including supporting documentation. The energy delivery plan and production/delivery profile must provide the expected Offshore Wind Energy Generation to be delivered into the ISO-NE market settlement system and permit the Evaluation Team to determine the reasonableness of the projections for purposes of Sections 2.2.1.3 Eligible Bids and 2.2.1.7 Capacity Requirements, and 2.2.1.8 Interconnection and Delivery Requirements of the RFP. Such information should be consistent with the energy resource plan and production/delivery profile provided above and also considering any and all constraints to delivery into ISO-NE.

Enter appropriate explanation in this space or reference applicable attachment(s)

4.3 REC/Environmental Attribute Delivery Plan

Please provide documentation and information demonstrating that the project will Deliver GIS Certificates representing those RECs and any other Environmental Attributes, as applicable. Please describe whether transfer of all GIS Certificates is authorized under the current ISO-NE GIS rules and protocols, or if a rule or protocol change is required. To the extent such change is required, please provide details regarding the proposal and the process for implementing the change.

Enter appropriate explanation in this space or reference applicable attachment(s)

4.4 Energy Storage System Operations (if applicable)

PROJECT SUMMARY: Please provide the following:

Identify if New or Existing Facility, or an upgrade to Existing Facility: _____

Technology Type

Point of Interconnection

Deliverability Restrictions (if any)

Nameplate MW AC (at 100% project completion)

Net Contract MW AC (at 100% project completion)

Storage Energy (MWh)

Discharge Duration (hours)

Full Duty Cycle Efficiency (%)

Required Cycles per year/per day

Expected annual capacity degradation (%)

Specific Battery Chemistry (if applicable)

Describe the operation of the proposed Energy Storage System: (i.e. run hour limitations, ramp rates, spinning reserves, regulation up, regulation down). Please provide proposed operational management terms that memorialize the operational commitments of the facility.

Describe the location of the Energy Storage System, the anticipated interconnection point, and the value of the relative proximity of the system to the Offshore Wind Energy Generation facility, including any decreased risk of curtailment and/or deferred investment for the Offshore Wind Energy Generation Facility

Describe the proposed technology and equipment manufacturer by name and model (include inverter characteristics if applicable).

Describe the viability and operational reliability of the proposed technology and track record of the manufacturer. Provide examples of similar applications of the same size and scope.

Please provide an energy delivery plan and production/delivery profile for the proposed project, including supporting documentation. This documentation may be either an hourly storage use schedule separately from the hourly wind production/delivery schedule, or the following parameters of the storage technology that will be used in conjunction with the bid: Charge rate (MW), Discharge rate (MW), Storage capacity (MWh), Round-trip efficiency (%). The energy production/delivery profile must provide the expected Offshore Wind Energy Generation to be delivered into the ISO-NE market settlement system by the Energy Storage System and permit the Evaluation Team to determine the reasonableness of your projections. Such information should be consistent with the energy resource plan provided above and also considering any and all constraints to physical delivery into ISO-NE.

Describe the operation of the Energy Storage System as it relates to ISO-NE's implementation of FERC Order No. 841, including whether the proposed Energy Storage System will be classified as a Binary Storage Facility or Continuous Storage Facility, the designation of the ISO-NE Markets that the Energy Storage System would participate in, and the plan to operate in multiple ISO-NE Markets.

Please list all anticipated revenue streams associated with the Energy Storage System

- For existing facilities,
 - describe existing operations, revenues, and participation in ISO-NE Markets
 - describe any planned changes in operation, participation in ISO-NE Markets, and revenue streams
- Please describe (a) (i) the specific services and/or products that will be provided to the Distribution Companies due to the proposed operation of the Energy Storage System under your proposal and (ii) the specific costs to be paid by the Distribution

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Companies through the power purchase agreement for such services and/or products and (b) a statement of how the proposal complies with RFP requirements.

Please describe any additional benefits the Energy Storage System may provide not captured in the benefits provided through the operational commitments, including but not limited to,

- any non-monetizable benefits including but not limited to price changes in capacity and ancillary services markets, reduction in future market needs such as reserves or ramping, and increased capacity rating for Offshore Wind Energy Generation facility
- Emission reductions associated with the operation of the Energy Storage System and providing emission-free resources to the ancillary service markets including reserves and frequency regulation
- Value of procuring the Energy Storage System at the same time and as paired with the Offshore Wind Energy Generation facility

Enter appropriate explanation in this space or reference applicable attachment(s)

**SECTION 5 OF APPENDIX A OF THE RFP
FINANCIAL/LEGAL**

Bidders are required to demonstrate the financial viability of their proposed project. Bidders should provide the following information:

- 5.1 Please submit information and documentation that demonstrates that long term contracts resulting from this RFP Process would either permit the bidder to finance its proposal that would otherwise not be financeable, or assist the bidder in obtaining financing of its proposal.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.2 Please provide a description of the business entity structure of the bidder's organization from a financial and legal perspective, including all general and limited partners, officers, directors, managers, members and shareholders, involvement of any subsidiaries supporting the project, and the providers of equity and debt during project development. Provide an organization chart showing the relationship between the equity and debt participants and an explanation of the relationships. For jointly owned facilities, identify all owners and their respective interests, and document the Bidder's right to submit a binding proposal.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.3 Please provide a description of the financing plan for the project, including construction and term financing. The financing plan should address the following:
- i. Who will finance the project (or are being considered to finance the project) and the related financing mechanism or mechanisms that will be used (i.e. convertible debenture, equity or other) including repayment schedules and conversion features

Enter appropriate explanation in this space or reference applicable attachment(s)

- ii. The project's existing initial financial structure and projected financial structure

Enter appropriate explanation in this space or reference applicable attachment(s)

- iii. Expected sources of debt and equity financing

Enter appropriate explanation in this space or reference applicable attachment(s)

- iv. Estimated construction costs

Enter appropriate explanation in this space or reference applicable attachment(s)

- v. The projected capital structure

Enter appropriate explanation in this space or reference applicable attachment(s)

- vi. Describe any agreements, both pre and post commercial operation date, entered into with respect to equity ownership in the proposed project and any other financing arrangement.

Enter appropriate explanation in this space or reference applicable attachment(s)

In addition, the financing plan should address the status of the above activities as well as the financing of development and permitting costs. All bidders are required to provide this information.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.4 Provide documentation illustrating the experience of the bidder in securing financing for projects of similar size and technology. For each project previously financed provide the following information:

- i. Project name and location
- ii. Project type and size
- iii. Date of construction and permanent financing
- iv. Form of debt and equity financing
- v. Current status of the project

Project Experience 1

Project Experience 2

Project Experience 3

Project Experience 4

Additional Project Experience

- 5.5 Please provide evidence that the bidder has the financial resources and financial strength to complete and operate the project as planned.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.6 Provide complete copies of the most recent audited financial statement and annual report for each bidder for each of the past three years; including affiliates of the bidder (if audited

statements are not available, reviewed or compiled statements are to be provided). Also, provide the credit ratings from Standard & Poor's and Moody's (the senior unsecured long term debt rating or if not available, the corporate rating) of the bidder and any affiliates and partners.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.7 Please also include a list of the board of directors, officers and trustees for the past three years and any persons who the bidder knows will become officers, board members or trustees.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.8 The bidder should demonstrate its ability (and/or the ability of its credit support provider) to provide the required security, including its plan for doing so.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.9 Provide a description of any current or recent credit issues/ credit rating downgrade events regarding the bidder or affiliate entities raised by rating agencies, banks, or accounting firms.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.10 Describe the role of the Federal Production Tax Credit ("PTC") or Investment Tax Credit (ITC"), and any other incentives, on the financing of the project. In your response, please describe (a) your plan to qualify for the ITC/PTC and the level of the ITC/PTC for which you plan to qualify, (b) the facilities, investment in which, the ITC is expected to apply, (c) your plan to utilize the tax credits and the relationship to your financing plan, and (d) how qualification for the ITC/PTC is reflected in your proposed pricing.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.11 Bidders must disclose any litigation or disputes in the last three year period related to projects developed, owned or managed by Bidder or any of its affiliates in the United States, or related to any energy product sale agreement.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.12 What is the expected operating life of the proposed project? What is the depreciation period for all substantial physical aspects of the bid, including generation facilities, delivery facilities to move power to the grid, and mandatory and voluntary transmission system upgrades?

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.13 Has the bidder already obtained financing, or a commitment of financing, for the project? If financing has not been obtained, explain how obtaining a long-term agreement as proposed will help you in obtaining financing for the proposed project, in obtaining more favorable terms for the financing of the proposed project, or in supporting the future capital investment.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.14 State whether the bidder or its affiliates have executed agreements with respect to energy, RECs and/or capacity for the proposed project (including any agreements that have been terminated) and provide information regarding the associated term and quantities, and whether bidder has been alleged to have defaulted under or breached any such agreement. State whether the bidder or its affiliates have submitted proposals to other buyers, the status of consideration of such proposals, and the impact of such proposal(s), if they result in an executed contract or contracts, on the proposal(s) submitted in response to this RFP.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.15 List all of the Bidder's affiliated entities and joint ventures transacting business in the energy sector.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.16 Has Bidder, or any affiliate of Bidder, in the last five years, (a) consented to the appointment of, or been taken in possession by, a receiver, trustee, custodian or liquidator of a substantial part of its assets, (b) filed a bankruptcy petition in any bankruptcy court proceeding, (c) answered, consented or sought relief under any bankruptcy or similar law or failed to obtain a dismissal of an involuntary petition, (d) admitted in writing of its inability to pay its debts when due, (e) made a general assignment for the benefit of creditors, (f) been the subject of an involuntary proceeding seeking to adjudicate that Party bankrupt or insolvent, (g) sought reorganization, arrangement, adjustment, or composition of it or its debt under any law relating to bankruptcy, insolvency or reorganization or relief of debtors?

Enter appropriate explanation in this space or reference applicable attachment(s)

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- 5.17 Briefly describe any known conflicts of interest between Bidder or an affiliate of Bidder and any Distribution Company, or any affiliates of the foregoing.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.18 Describe any litigation, disputes, claims or complaints involving the Bidder or an affiliate of Bidder, against any Distribution Company or any affiliate of any Distribution Company.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.19 Describe any litigation, disputes, claims or complaints, or events of default or other failure to satisfy contract obligations, or failure to deliver products, involving Bidder or an affiliate of Bidder, and relating to the purchase or sale of energy, capacity or renewable energy certificates or products.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.20 Confirm that neither Bidder nor any directors, employees or agents of Bidder, nor any affiliate of Bidder are currently under investigation by any governmental agency, and that none of the above have in the last four years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction involving conspiracy, collusion or other impropriety with respect to bidding on any contract, or have been the subject of any debarment action (detail any exceptions).

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.21 Identify all regulatory and other approvals needed by Bidder to execute a binding sale agreement.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 5.22 Describe how the project will conform to FERC's applicable regulatory requirements, including, but not limited to, FERC requirements relating to allocation of transmission capacity and open access, the justness and reasonableness of rates, the potential for undue preference or discrimination, and affiliate dealings, if any. Describe how your proposed approach is consistent with FERC precedent and ratemaking principles.

Enter appropriate explanation in this space or reference applicable attachment(s)

5.23 Describe and document any and all direct and indirect affiliations and affiliate relationships, contractual, financial or otherwise in the past three years between the bidder and one or more of the Distribution Companies and their affiliates, including all relationships in which one of the Distribution Companies or their affiliates has a financial or voting interest (direct or indirect) in the bidder or the bidder's proposed project. These relationships include:

- Corporate or other joint arrangements, joint ventures, joint operations whether control exists or not;
- Minority ownership (50% or less investee);
- Joint development agreements;
- Project agreements;
- Operating segments that are consolidated as part of the financial reporting process;
- Related parties with common ownership;
- Credit, debenture, and financing arrangements, whether a convertible equity feature is present or not;
- Wholly owned subsidiaries; and
- Commercial (including real property) relationships with any Distribution Company

Enter appropriate explanation in this space or reference applicable attachment(s)

**SECTION 6 OF APPENDIX B TO THE RFP
SITING, INTERCONNECTION, AND DELIVERABILITY**

This section of the proposal addresses project location, siting, real property rights and interconnection issues. Bidders should ensure that the threshold criteria outlined in Section 2.2 of the RFP are verified in their responses.

- 6.1 Provide a site plan (or plans) including a map (or maps) that clearly identifies the location of the proposed project site, Offshore Delivery Facilities project locations, the assumed right-of-way width, the total acreage for Eligible Facilities, the anticipated interconnection point (or, if applicable, multiple interconnection points), the related onshore and offshore transmission and interconnection facilities, deployment facilities, and the relationship of the site to other local infrastructure, including transmission facilities, roadways, federal and state waters, and waterways. In addition to providing the required map(s), provide a site layout plan which illustrates the location of all major equipment and facilities described above

Plan included? Yes No If not, please explain:

Enter appropriate explanation in this space or reference applicable attachment(s)

Describe how the proposed project is sized and designed to efficiently and cost-effectively use available lease area(s), interconnection point(s), transmission cabling, and other infrastructure required for the production and delivery of the Offshore Wind Energy Generation.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 6.2 Identify any real property rights (e.g., fee-owned parcels, rights-of-way, development rights or easements or leases, or options to purchase or lease) that provide the right to use the Eligible Facility site and Offshore Delivery Facilities locations including for Eligible Facilities and any rights of way needed for interconnection.

- i. Does the project have a right to use the Eligible Facility site and/or Offshore Delivery Facilities locations for the entire proposed term of the PPA (e.g., by virtue of ownership or land development rights obtained from the owner)?

Yes No If not, please explain:

Enter appropriate explanation in this space or reference applicable attachment(s)

- ii. If so, please detail the Bidder's rights to control the Eligible Facility site and/or Offshore Delivery Facilities and interconnection locations.

Enter appropriate explanation in this space or reference applicable attachment(s)

- iii. Describe the status of acquisition of real property rights, any options in place for the exercise of these rights and describe the plan for securing the necessary real

property rights, including the proposed timeline. Include these plans and the timeline in the overall project timeline.

Enter appropriate explanation in this space or reference applicable attachment(s)

- iv. Identify any joint use of existing or proposed real property rights

Enter appropriate explanation in this space or reference applicable attachment(s)

- v. Provide a copy of each of the leases, agreements, including option agreements, easements, rights of way and related documents granting the right to use the Offshore Wind Energy Generation site, Offshore Delivery Facilities, and transmission and interconnection locations (and applicable letters of intent if formal agreements have not been executed)

- 6.3 Provide evidence that the Eligible Facility site and Offshore Delivery Facilities and interconnection locations are properly zoned or permitted. If the Eligible Facility site and Offshore Delivery Facilities and interconnection locations are not currently zoned or permitted properly, identify present and required zoning and/or land use designations and permits and provide a permitting plan and timeline to secure the necessary approvals.

Detail the zoning and permitting issues:

Enter appropriate explanation in this space or reference applicable attachment(s)

Permitting plan and timeline:

Enter appropriate explanation in this space or reference applicable attachment(s)

Start Date:

End Date:

- 6.4 Provide a description of the area surrounding the Eligible Facility site and Offshore Delivery Facilities and interconnection locations (including landfall), including a description of the local zoning, flood plain information, existing land or waterway use, and setting.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 6.5 If the bidder does not have interconnection facilities site control describe the status of the plan to obtain that control.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 6.6 Please provide documentation to show evidence of the interconnection request to ISO-NE, the applicable New England Transmission Owner, or any neighboring control areas, to interconnect at the Capacity Capability Interconnection Standard. Please describe the status of any planned interconnection to the grid.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 6.7 Provide studies that describe the Project's electrical system performance, its impact to the reliability of the New England Transmission system, how the project would satisfy ISO NE's I.3.9 requirements, and how the project will interconnect at an equivalent to the Capacity Capability Interconnection Standard. Projects that do not have I.3.9 approval from ISO-NE must include technical reports or system impact studies that approximate the ISO-NE interconnection process, including but not limited to clear documentation of study technical and cost assumptions, reasoning, and justification of such assumptions. All projects must also provide analysis that approximates the ISO-NE CCIS interconnection analysis as defined in Planning Procedure 10. Please also provide the status and expected completion date of any additional interconnection studies already underway with ISO-NE and/or the transmission owner. All studies must follow the current ISO-NE interconnection procedures and detail any assumptions regarding resources ahead of the Project in the ISO-NE interconnection queue. All network upgrades identified in these studies must be clearly documented and included in the bid price. Provide a copy of an interconnection agreement, if any, executed by the bidder with respect to the proposed project. If an interconnection agreement has not been executed, please provide the steps that need to be completed before an interconnection agreement can be executed and the associated timeline.

Performance and its impact:

Enter appropriate explanation in this space or reference applicable attachment(s)

Attachments:

Copy of completed I.3.9 approval or I.3.9-equivalent study attached:

If none, please explain:

Enter appropriate explanation in this space or reference applicable attachment(s)

Copy of completed CCIS-equivalent study attached:

If none, please explain:

Enter appropriate explanation in this space or reference applicable attachment(s)

Copy of Interconnection Agreement attached: If none, please explain:

Enter appropriate explanation in this space or reference applicable attachment(s)

Additionally, any other studies undertaken by ISO-NE or the bidder must be provided.

- 6.8 Please provide documentation of the deliverability constraint analysis set forth in Appendix I to the RFP. Provide a description of the findings of the deliverability constraint analysis, including but not limited to a list of thermal overloads and voltage violations identified.

Enter appropriate explanation in this space or reference applicable attachment(s)

Attachments:

Copy of completed deliverability constraint analysis:

If the deliverability constraint analysis was performed as a portion of a separate study, please explain and provide the study:

Enter appropriate explanation in this space or reference applicable attachment(s)

- 6.9 If multiple interconnection requests have been made, please specify all such active requests which have not been superseded by subsequent requests and information regarding the status of each. Provide copies of any requests made and studies completed.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 6.10 Please provide cost estimates for any necessary network upgrades identified in the studies identified in Section 6.7

Enter appropriate explanation in this space or reference applicable attachment(s)

- 6.11 To the extent that you provide an alternative interconnection scenario based on ISO-proposed interconnection process changes, you must also include studies using the proposed ISO-NE process. Any such studies must be accompanied with clear documentation of study technical and cost assumptions, reasoning, and justification of such assumptions.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 6.12 Provide the electrical models of all energy resources supporting the proposed project in accordance with the filing requirements of the ISO-NE Tariff Schedule 22 and 23.

Electrical models attached: If none, please explain:

Enter appropriate explanation in this space or reference applicable attachment(s)

- 6.13 Provide a copy of an electrical one-line diagram showing the interconnection facilities, the relevant facilities of the transmission and/or distribution provider, and any required network upgrades identified in the studies required in section 6.9 of this document

Electrical one-line diagram attached: If none, please explain:

Enter appropriate explanation in this space or reference applicable attachment(s)

6.14 Specify and describe the current or new interconnection facilities (lines, transformers, switching equipment, system protection and controls, etc.) that bidder owns or is intending to construct or have constructed in order to deliver the proposed energy.

Enter appropriate explanation in this space or reference applicable attachment(s)

6.15 Incremental data requirements;

1. IDV file(s) in PSSE v32 format modeling all upgrades to the transmission network identified in the studies required in section 6.7 of this document. If none, please explain:

Enter appropriate explanation in this space or reference applicable attachment(s)

2. If the Bidder does not use PSSE, provide in text format necessary modeling data as follows:

- Line Data:
Voltage Thermal Ratings

Impedances (r, X and B)

Line Length: from to
(bus numbers and names)

Enter appropriate explanation in this space or reference applicable attachment(s)

- Transformer data (including Phase shifting transformers if applicable):
Terminal Voltages Thermal Ratings

Impedance

From To
(bus numbers and names)

Enter appropriate explanation in this space or reference applicable attachment(s)

- Reactive compensation models as necessary

Enter appropriate explanation in this space or reference applicable attachment(s)

- Other changes to the model that would occur due to a Project such as terminal changes for lines/transformer/generator leads/loads etc.

Enter appropriate explanation in this space or reference applicable attachment(s)

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- 6.16 Please detail with supporting information and studies (as available) that the production/delivery profile contemplated in your proposal reflects constraints or curtailments, if any, after the upgrades that are expected to take place pursuant to interconnection at an equivalent to the CCIS. If you are planning to make voluntary upgrades beyond those associated with the CCIS-equivalent standard, as more fully described in the RFP, please describe the transmission network upgrades necessary, their estimated cost (for which the bidder would have cost responsibility, and the impact on the proposed generation schedule by reducing remaining constraints or curtailments.

Enter appropriate explanation in this space or reference applicable attachment(s)

Enter appropriate explanation in this space or reference applicable attachment(s)

**SECTION 7 OF APPENDIX A TO THE RFP
ENVIRONMENTAL ASSESSMENT, PERMIT ACQUISITION PLAN AND
ENVIRONMENTAL ATTRIBUTES CERTIFICATION**

This section addresses environmental and other regulatory issues associated with project siting, development and operations for all aspects of the project (including generation, delivery, storage, interconnection, etc.), and in all jurisdictions (federal, all interested states, etc.).

- 7.1 Provide a list of all the permits, licenses, and environmental assessments and/or environmental impact statements required to construct and operate the project. Along with this list, identify the governmental agencies and States that are responsible for issuing approval of all the permits, licenses, and environmental assessments and/or environmental impact statements. If a bidder has secured any permit or has applied for a permit, please indicate this in the response.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 7.2 Provide the anticipated timeline for seeking and receiving the required permits, licenses, and environmental assessments and/or environmental impact statements. Include a project approval assessment which describes, in narrative form, each segment of the process, the required permit or approval, the status of the request or application and the basis for projection of success by the milestone date. All requirements should be included on the project schedule in Section 10.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 7.3 Provide information (a) demonstrating past and current productive relationship with environmental, fishing, tribal, environmental justice, and onshore stakeholders and (b) demonstrating your track record of avoiding, minimizing, and mitigating environmental, fishing, tribal, environmental justice, and onshore impacts from projects similar to the proposed project.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 7.4 Please provide information on any fisheries mitigation measures designed to avoid, minimize and mitigate impacts on the commercial fishing industry, including but not limited to addressing all criteria specified under Fishing Impacts in Appendix J.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 7.5 Provide a preliminary environmental characterization of the site and project, including both construction and operation. In addition, the bidder should identify environmental impacts associated with the proposed project and any potential impediments to development. A plan to avoid, minimize, or mitigate such impacts or impediments should also be included. The analysis should address all criteria specified under Environmental Impacts in Appendix J.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 7.6 Please provide information on potential impacts on Environmental Justice Populations and host communities, including but not limited to addressing all criteria specified under Environmental Justice Impacts in Appendix J.

Enter appropriate explanation in this space or reference applicable attachment(s)

Please propose a strategy plan to track and report on the status of environmental justice impacts, and engagement and employment (training, recruitment and hiring goals) opportunities. Strategy plans may include a commitment with a government entity to share said tracking and reporting. If such a commitment is not presented, DOER will work with selected bidder after selection but before contract execution to implement an agreed-upon tracking and reporting strategy.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 7.7 Provide documentation identifying the level of public support for the project including letters from public officials, newspaper articles, etc. Include information on specific localized support and/or opposition to the project of which the bidder is aware. Provide copies of any agreements with communities and other constituencies impacted by the project. Provide a stakeholder map and a plan for community engagement activities and targeted stakeholder outreach.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 7.8 Provide documentation demonstrating that the project will be qualified as New Class I Renewable Portfolio Standard Eligible Resource under M.G.L. c. 25A, § 11F, and 225 CMR 14.00.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 7.9 All bidders must include sufficient information and documentation that demonstrates that the bidder will utilize an appropriate tracking system to ensure a unit-specific accounting of the delivery of Offshore Wind Energy Generation, to enable the Department of Environmental Protection, in consultation with DOER, to accurately measure progress in achieving the commonwealth's goals under chapter 298 of the acts of 2008 or Chapter 21N of the General Laws. The RECs associated with Offshore Wind Energy Generation must be delivered into the Distribution Companies' NEPOOL GIS accounts.

Enter appropriate explanation in this space or reference applicable attachment(s)

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- 7.10 Identify any existing, preliminary or pending claims or litigation, or matters before any federal agency or any state legislature or regulatory agency that might affect the feasibility or timing of the project or the ability or timing to obtain or retain the required permits for the project.

Enter appropriate explanation in this space or reference applicable attachment(s)

**SECTION 8 OF APPENDIX A TO THE RFP
ENGINEERING AND TECHNOLOGY; COMMERCIAL ACCESS TO EQUIPMENT**

This section includes questions pertinent to the engineering design and project technology. This section must be completed for all aspects of a project including generation, storage (as applicable) delivery, and interconnection facilities. Bidders should provide information about the specific technology or equipment including the track record of the technology and equipment and other information as necessary to demonstrate that the technology is viable.

- 8.1 Provide a reasonable but preliminary engineering plan which includes the following information:
- i. Type of generation and delivery technology
 - ii. Major equipment to be used (including nacelle, hub, blade, tower, foundation, delivery facilities structures and platforms, electrical equipment and cable), including the primary and alternative turbine equipment and their expected capacity rating.
 - iii. Manufacturer of each of the equipment components listed above as well as the location of where each component will be manufactured.
 - iv. Status of acquisition of the equipment components, including whether orders are in place and/ or production slots secured
 - v. Whether the bidder has a contract for the equipment. If not, describe the bidder's plan for securing equipment and the status of any pertinent commercial arrangements
 - vi. Equipment vendors selected/considered
 - vii. Track record of equipment operations
 - viii. If the equipment manufacturer has not yet been selected, identify in the equipment procurement strategy the factors under consideration for selecting the preferred equipment

Enter appropriate explanation in this space or reference applicable attachment(s)

- 8.2 If the bidder has not yet selected the major equipment for a project, please provide a list of the key equipment suppliers under consideration.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 8.3 Please identify the same or similar equipment by the same manufacturer that are presently in commercial operation including the number installed, installed capacity and estimated generation for the past three years.

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Enter appropriate explanation in this space or reference applicable attachment(s)

- 8.4 For less mature technologies or equipment, provide evidence (including identifying specific applications) that the technology or equipment to be employed for energy production is ready for transfer to the design and construction phases. Also, address how the status of the technology or equipment is being considered in the financial and permitting plans for the project. Provide the status of testing/ qualification for any equipment in development.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 8.5 Please indicate if the bidder has a full and complete list of equipment needed for all physical aspects of the bid, including generation facilities, turbine support structures, electrical platforms, delivery facilities, and mandatory and voluntary transmission system upgrades. If not, identify the areas of uncertainty and when the full and complete list of equipment will be identified.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 8.6 Please indicate if the bidder has secured its equipment for all physical aspects of the bid, including generation facilities, delivery facilities, and mandatory and voluntary transmission system upgrades. If not, identify the long-lead equipment and describe the timing for securing this equipment.

Enter appropriate explanation in this space or reference applicable attachment(s)

**SECTION 9 OF APPENDIX A TO THE RFP
PROJECT SCHEDULE**

A bidder must demonstrate that its proposal can be developed, financed, and constructed and be technically viable within a commercially reasonable timeframe. The bidder is required to provide sufficient information and documentation that shows that the bidder's resources, process and schedule are adequate for the acquisition of all rights, permits and approvals for all aspects of the project and for the financing of the project consistent with the proposed project milestone dates.

Bidders are required to provide a complete critical path schedule for the project from the notice of selection of the project for contract consideration to the start of commercial operations. For each project element, list the start and end date.

- 9.1 Identify the elements on the critical path. The schedule should include, at a minimum, preliminary engineering, financing, acquisition of real property rights, Federal, state and/or local permits, licenses, environmental assessments and/or environmental impact statements (including anticipated permit submittal and approval dates), completion of interconnection studies and approvals, procurement, facility contracts, start of construction, construction schedule, and any other requirements that could influence the project schedule and the commercial operation date.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 9.2 Include a discussion on use of maritime vessels and access to them, as well as the bidder's plans to secure any specialized vessels or other equipment consistent with the construction schedule. Provide any agreements, options, or other materials reflecting the bidder's efforts so far to secure such vessels or other equipment (and any letters of intent to the extent signed agreements are not in place). Also include a description and discussion of the laydown facility/facilities to be used for construction, assembly, staging, storage, and deployment.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 9.3 Detail the status of all critical path items, such as receipt of all necessary siting, environmental, and ISO-NE approvals.

Enter appropriate explanation in this space or reference applicable attachment(s)

**SECTION 10 OF APPENDIX A TO THE RFP
OPERATION AND LOGISTICS**

This section of the proposal addresses necessary arrangements and processes for outfitting, assembly, storage and deployment of major project components such as turbine nacelles, blades, towers, foundations, and delivery facilities support structures, and other major components associated with delivery facilities and, and the storage facility (as applicable). Please provide a construction plan that captures the following objectives:

- 10.1 Please list the major tasks or steps associated with deployment of the proposed project and the necessary specialized equipment (e.g. vessels, cranes).

Enter appropriate explanation in this space or reference applicable attachment(s)

- 10.2 Please provide documentation to demonstrate site control for all marine terminals and other waterfront facilities that will be used to stage, assemble, and deploy the project for each stage of construction.

- i. Evidence that the bidder or the equipment/service provider have a valid lease, or option to lease, a marine terminal and/or waterfront facility for construction of the offshore wind energy project (e.g., by virtue of ownership or land development rights obtained from the owner).

Enter appropriate explanation in this space or reference applicable attachment(s)

- ii. If not available, describe the status of acquisition of real property rights for necessary marine terminal and/or waterfront facilities, any options in place for the exercise of these rights and describe the plan for securing the necessary real property rights, including the proposed timeline. Include these plans and the timeline in the overall project schedule. Provide any agreements, options, or other materials reflecting the bidder's efforts so far to secure real property rights (and any letters of intent to the extent signed agreements are not in place).

Enter appropriate explanation in this space or reference applicable attachment(s)

- iii. Identify any joint use of existing or proposed real property rights for marine terminal or waterfront facilities.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 10.3 Please describe the proposed approach for staging and deployment of major project components to the project site. Indicate the number, type and size of vessels that will be used, and their respective roles, as well as the projected timing of their use. Please include specific information on how the bidder's deployment strategy will conform to requirements of the Merchant Marine Act of 1920 (the Jones Act).

Enter appropriate explanation in this space or reference applicable attachment(s)

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- 10.4 List the party (e.g. the bidder, or equipment/service providers under contract to the bidder) responsible for each deployment activity and describe the role of each party. Describe the status of bidder's contractual agreements with third-party equipment/service providers.

Enter appropriate explanation in this space or reference applicable attachment(s)

**SECTION 11 OF APPENDIX A TO RFP
OPERATION AND MAINTENANCE**

Projects that can demonstrate that the operation and maintenance (“O&M”) plan, level of funding, and mechanism for funding will ensure reliable operations of all aspects of the project during the term of the contract are preferred.

- 11.1 Provide an O&M plan for the project that demonstrates the long term operational viability of the proposed project. The plan should include the location of the O&M base, a discussion of the staffing levels proposed for the project, the expected role of the project sponsor or turbine manufacturer/outside contractor, scheduling of major maintenance activity, and the plan for testing equipment.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 11.2 Please provide documentation to demonstrate site control for all marine terminals and other waterfront facilities that will be used for O&M.
- i. If available, evidence that the bidder or the equipment/service provider have right(s) to use a marine terminal and/or waterfront facility for O&M of the offshore wind energy project (e.g., by virtue of ownership or land development rights obtained from the owner).
 - ii. If not available, describe the status of acquisition of real property rights for necessary marine terminal and/or waterfront facilities, any options in place for the exercise of these rights and describe the plan for securing the necessary real property rights, including the proposed timeline. Include these plans and the timeline in the overall project schedule.
 - iii. Identify any joint use of existing or proposed real property rights for marine terminal or waterfront facilities.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 11.3 Describe in detail the proposed O&M funding mechanism and funding levels to support planned and unplanned O&M requirements.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 11.4 Describe the terms (or expected terms) of the warranties and/or guarantees on major equipment that the bidder is utilizing or proposing to utilize.

Enter appropriate explanation in this space or reference applicable attachment(s)

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- 11.5 Describe the status of the project sponsor in securing any O&M agreements or contracts. Include a discussion of the sponsor's plan for securing a medium-term or long-term O&M contract, including the expected provider of O&M services.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 11.6 Provide examples of the bidder's experience with O&M services for other similar projects.

Enter appropriate explanation in this space or reference applicable attachment(s)

**SECTION 12 OF APPENDIX A TO RFP
PROJECT MANAGEMENT/EXPERIENCE**

Bidders are required to demonstrate project experience and management capability to successfully develop and operate all aspects of the project proposed. The Evaluation Team is particularly interested in project teams that have demonstrated success in projects of similar type, size and technology and can demonstrate an ability to work together effectively to bring the project to commercial operation in a timely fashion.

- 12.1 Provide an organizational chart for the project that lists the project participants and identifies the corporate structure, including general and limited partners.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 12.2 Provide statements that list the specific experience of the bidder and each of the project participants (including, when applicable, the bidder, partners, and proposed contractors), in developing, financing, owning, and operating generating and delivery facilities, other projects of similar type, size and technology, and any evidence that the project participants have worked jointly on other projects.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 12.3 Provide a management chart that lists the key personnel dedicated to this project and provide resumes of the key personnel. Key personnel of the bidder's development team having substantial project management responsibilities must have:
- i. Successfully developed and/or operated one or more projects of similar size or complexity or requiring similar skill sets; and
 - ii. Experience in financing power generation projects (or have the financial means to finance the project on the bidder's balance sheet).

Enter appropriate explanation in this space or reference applicable attachment(s)

- 12.4 Provide a listing of all projects the project sponsor has successfully developed or that are currently under construction. Provide the following information as part of the response:
- i. Name of the project
 - ii. Location of the project
 - iii. Project type, size and technology
 - iv. Distance from shore and mean water depth of project
 - v. Commercial operation date

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- vi. Estimated and actual capacity factor of the project for the past three years
- vii. Availability factor of the project for the past three years
- viii. References, including the names and current addresses and telephone numbers of individuals to contact for each reference.

Enter appropriate explanation in this space or reference applicable attachment(s)

12.5 With regard to the bidder's project team, identify and describe the entity responsible for the following, as applicable:

- i. Construction Period Lender
- ii. Operating Period Lender and/or Tax Equity Provider
- iii. Financial Advisor
- iv. Environmental Consultant
- v. Facility Operator and Manager
- vi. Owner's Engineer
- vii. Transmission/Delivery Consultant
- viii. Legal Counsel

Enter appropriate explanation in this space or reference applicable attachment(s)

**SECTION 13 OF APPENDIX A TO THE RFP
DEMONSTRATED, VERIFIABLE COMMITMENT TO CREATE AND FOSTER
EMPLOYMENT AND ECONOMIC DEVELOPMENT AND OTHER DIRECT BENEFITS**

- 13.1 Please provide an estimate of the number of jobs to be created directly during project development and construction, and during operations, and a general description of the types of jobs created, duration of employment, estimated annual compensation, the employer(s) for such jobs, and the location. Employment impacts should be broken out by state and the region as a whole and highlight any impacts in economically distressed areas. Please treat the development, construction, and operation and maintenance periods separately in your response. All information provided must be measurable.

Enter appropriate explanation in this space or reference applicable attachment(s)

Please describe the status of any contractual commitments with respect to direct job creation and provide any pertinent agreements that have been executed.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 13.2 Please provide a diversity, equity and inclusion plan that includes a Workforce Diversity Plan and the Supplier Diversity Program Plan as outlined in Section 2.3.2.i of the RFP. Describe consultation with the Massachusetts Supplier Diversity Office, as applicable.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 13.3 Please describe and quantify any other economic activity or development expected to result directly from the proposed project. Impacts should be broken out by state and the region as a whole and highlight any impacts in economically distressed areas. Direct economic activity/development will be evaluated based on scale relative to project size, credibility and firmness. Commitments that secure long-term benefits are preferred. Commitments will be evaluated by the degree or extent to which the asserted benefits are contractually committed to by the bidder. Specific commitments to economic activity or development may include (but are not limited to):

- Investment in supply chain improvements to support the offshore wind industry.
- Investment in workforce development to support the offshore wind industry, which may include partnerships with vocational and technical schools, community colleges, labor groups, and community-based organizations to create paid training, internship, apprenticeship programs. These investments could include public-facing educational outreach programs to engage youth, high schools, and residents about offshore wind, clean energy, and climate topics.
- Utilization and investment in port facilities and infrastructure during project development, construction, and operation and maintenance of the project.
- Investment in offshore wind-related research and innovation initiatives or partnerships
- Support for ongoing science and data collection to improve environmental, wildlife, and fisheries performance of offshore wind, including commitments to data sharing.
- Economic development activities and investments that directly benefit economically distressed areas, environmental justice communities, and/or low-income populations.

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- 13.4 Please describe the status of any contractual commitments with respect to economic development and provide any pertinent agreements that have been executed. Please indicate how any economic benefits with specific commitments that are not already subject to contractual agreements will be covered by such agreements prior to executing Long Term Contracts under this solicitation (see RFP Sec. 2.2.2.8.) and your plan and timetable to negotiate and execute such agreements.

Enter appropriate explanation in this space or reference applicable attachment(s)

Please specify the administrator of any funds (i.e. fund administered by a third-party or by the Bidder).

Enter appropriate explanation in this space or reference applicable attachment(s)

Please propose a strategy to track and report on any applicable commitments, including progress in achieving promised economic benefits and the goals in the diversity, equity and inclusion plan. Such a strategy may include a commitment with a government entity to share said tracking and reporting. If such a commitment is not presented, DOER will work with selected bidder after selection but before contract execution to implement an agreed-upon tracking and reporting strategy.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 13.5 Please describe any tracking or reporting mechanisms, such as an annual report(s) of milestones achieved and jobs created to verify the contributions to employment and economic development identified in 13.1, 13.2.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 13.6 To the extent not already specified elsewhere in your response, please address the factors listed in RFP Section 2.3.2.i and describe any benefits or impacts associated with the proposed project.

Enter appropriate explanation in this space or reference applicable attachment(s)

- 13.7 Please demonstrate any benefits to low-income ratepayers in the Commonwealth, including, but not limited to: projects that reduce the energy burden for low-income ratepayers through energy efficiency or renewable energy upgrades; direct funding of rate relief through grant programs, support of existing community programs or other funding opportunities. Describe the impact, if any, those benefits will have on the cost to the project. Please provide any agreements to effectuate those benefits.

Enter appropriate explanation in this space or reference applicable attachment(s)

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- 13.8 The Section 13 Addendum: Economic Development Summary Sheet is a Microsoft Excel workbook provided on MACleanEnergy.com. Please fill out and submit the Section 13 Addendum to accompany responses in this section.

Attachments:

Copy of completed Section 13 Addendum in Excel format (.xls or .xlsx file):

SECTION 14 OF APPENDIX A TO THE RFP
EXCEPTIONS TO FORM PPA

Please attach an explanation of any exceptions to the Form PPA set forth in Appendices B-1 and B-2. Comments to the proposed Form PPA must include any specific alternative provisions in a redline format to the Form PPA. If the bidder is proposing a two-phased project with each phase covered by a separate contract, the bidder should provide two separate contracts with specific alternative provisions to the Form PPA in redline format.

Bidders are discouraged from proposing material changes to the Form PPA.

SECTION 15 OF APPENDIX A TO THE RFP
EXCEPTIONS TO FORM COMMITMENT AGREEMENT

Please attach an explanation of any exceptions to the Form Commitment Agreement set forth in Appendix G. Comments to the proposed Form Commitment Agreement must include any specific alternative provisions in a redline format to the Form Commitment Agreement.

Bidders are discouraged from proposing material changes to the Form Commitment Agreement.