

REQUEST FOR PROPOSALS
FOR
VARIABLE RENEWABLE DISPATCHABLE GENERATION

ISLAND OF MAUI

FEBRUARY 27, 2018

Docket No. 2017-0352

*Appendix B – Proposer’s Response Package /
IRS Data Sheet*



**Maui
Electric**

1.0 GENERAL INSTRUCTIONS TO PROPOSERS

The Company has elected to use the services of PowerAdvocate®, a third-party electronic platform as facilitator of the RFP process. All Proposals and all relevant information must be submitted via the PowerAdvocate Platform, as is described in this RFP. Proposers are requested to observe response structure, file naming convention, RFP documents and submittals, as identified on the PowerAdvocate Platform. If there are any discrepancies between this Appendix and what appears on the PowerAdvocate Platform, the PowerAdvocate Platform will control.

Input/submission items in the RFP that are not applicable to a specific Proposer, Proposal or Proposal variation must be clearly marked as “N/A” (Not Applicable) and a brief explanation must accompany each item so marked.

Proposers must clearly identify all confidential information in their Proposals, as described in more detail in Section 3.12 Confidentiality of the RFP.

Please reference Appendix E – PowerAdvocate User Information for specific instructions on how to register for an account and for general guidelines on using the PowerAdvocate Platform.

1.1 PROPOSAL SUBMITTAL PROCEDURES

After logging onto the PowerAdvocate Platform, the RFP will be visible on the Proposer’s dashboard with several tabs used for the following:

- “Download Documents:” Documents stored under this tab are provided for the Suppliers use and information. All documents can be downloaded and/or printed, as required. If available, the Company’s responses to Proposer questions will be posted in this tab.
- “Upload Documents:” Documents requested in Appendix B should be uploaded using this tab. Proposers may view files previously uploaded in this location.
- “Commercial Data:” Proposers are required to fill in the Commercial datasheet.
- “Technical Data:” There are no required Technical datasheets for this event.
- “Pricing Data:” Proposers are required to fill in the Pricing datasheet.

Step-by-step instructions for submitting a complete Proposal are provided below:

1. For each Section identified below (e.g. 2.1 Required Forms), a single consolidated PDF ("section master document") containing the requested information is preferred. **Response information must be provided in the identified order and clearly identify and reference the section number that the information relates to using the section numbering identified below (refer to the “SampleCoP1_2.2_ProposalSummary.pdf” file in the “Download Documents” tab for an example).** For responses that cannot be easily consolidated and require a separate file to be submitted follow the instructions below in Step 3.

2. Once a response for each Section has been completed, upload each section master document via the "2. Upload Documents" tab on the PowerAdvocate Platform.
 - a. Identify the "Document Type" using the information identified in the File Upload Checklist table for the Section being uploaded.
 - b. The "Reference ID" should be left blank.
 - c. Select "Choose File..." Navigate to and choose the corresponding file from your computer. Select "Open" and then "Submit Document."

When successfully uploaded, documents should be shown under the "Bid Submissions" section on the bottom of the tab's page, organized by "Document Type."

If the same file is uploaded twice, the Platform will automatically append a unique numerical extension to the Document Name (e.g., CompanyP#V#_2.1_RequiredForms_1). To delete a file that has been previously uploaded, click on the "X" button in the "Actions" column for the file to be deleted.

3. If additional files are required to support a Section's response (e.g. it cannot be combined into a single PDF document or if the instructions specify that a native file format is required):
 - a. Proposers should utilize the same "Document Name Format" specified in the File Upload Checklist table and append a descriptor to reflect the information that the file includes (e.g. CompanyP#V#_2.6_SiteControl_GoogleEarthfile)
 - b. Add any additional document names as a new line within the same cell corresponding to the applicable Section in the "Additional Documents Uploaded" column of the File Upload Checklist (use "ALT + ENTER" to begin typing on a new line within the same cell). Enter each additional file as a new line.
4. Select "Yes" or "No" in the dropdown menu in the "Uploaded [Yes/No]" column of the "File Upload Checklist" to indicate that all the files that are intended to be submitted for that Section of the Proposal as defined in Appendix B have been uploaded.
5. Repeat Steps 1-4 for all Sections.
6. Fill out the datasheets in the "3. Commercial Data" and "5. Pricing Data" tabs on the PowerAdvocate Platform. Saving is all that is required to submit the responses entered in these tabs. **However, data must be saved separately in each tab.** Proposers may return and change the information on these tabs as often as desired up until the bid event closes. Any changes made must be saved again in order to be applied. When the bid event closes, the last answers the have been saved will be considered final.

7. After all other files have been uploaded and information in the PowerAdvocate tabs have been saved, upload a completed "File Upload Checklist" via the "2. Upload Documents" tab.

1.2 PROPOSAL COMPLETION AND CONFIRMATION PROCEDURES

Follow the steps identified below to confirm the submission of a complete proposal:

1. In the "Status" tab on the PowerAdvocate Platform, confirm that the "Total Uploaded Files" is the number of expected files to be included in the submission by checking it against the completed "File Upload Checklist."
2. In the "Status" tab on the PowerAdvocate Platform, confirm that the "Saved Commercial Datasheets" and "Saved Pricing Datasheets" items both show a status of "1 of 1." This is an indication that the data entered in the "Commercial Datasheets" and "Pricing Datasheets" has been saved.

Example "Status" tab view:

Your Bid Intention: Bidding		
Total Uploaded Files:	18	Last Upload: 02/08/18
Saved Commercial Datasheets:	1 of 1	Last Saved: 02/08/18
Saved Technical Datasheets:	0 of 0	
Saved Pricing Datasheets:	1 of 1	Last Saved: 02/08/18

A Proposal is NOT complete until all documents on the "File Upload Checklist" have been submitted, the "File Upload Checklist" has been submitted, and the Commercial and Pricing datasheets have been saved.

2.0 COMMERCIAL INFORMATION REQUIREMENTS

Per Step 6 in Section 1.1 above, fill out the datasheet under the "3. Commercial Data" tab on the PowerAdvocate Platform.

2.1 REQUIRED FORMS

Upload documentation in support of the following requirements to the "2. Upload Documents" tab in the PowerAdvocate Platform. A single document is preferred, but more than one file may be uploaded if necessary. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Commercial and Administrative

Document Name Format: CompanyP#V#_2.1_RequiredForms

- Document signed by a representative for the Proposer authorizing the submission of the Proposal
- Mutual Confidentiality and Non-Disclosure Agreement (form should be downloaded from the “1. Download Documents” tab in the PowerAdvocate Platform)
- Certificate of Good Standing for the Proposer
- Federal and State tax clearance certificates for the Proposer
- File Upload Checklist (checklist should be downloaded from the “1. Download Documents” tab in the PowerAdvocate Platform)

2.2 PROPOSAL SUMMARY/CONTACT INFORMATION

Upload documentation in support of the following requirements to the “2. Upload Documents” tab in the PowerAdvocate Platform. A single document is preferred, but more than one file may be uploaded if necessary. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Commercial and Administrative

Document Name Format: CompanyP#V#_2.2_ProposalSummary

2.2.1 Please provide a primary point of contact for the Proposal being submitted:

- Name
- Title
- Mailing Address
- Phone Number
- Mobile Phone Number (if different)
- Email Address

2.2.2 Executive Summary of Proposal

The executive summary must include an approach and description of the important elements of the Proposal and, if it is a variation of another Proposal, describe what the minor variations to the Proposal are. Refer to [Section 1.8.2](#) of the RFP for an explanation of minor variations allowed.

2.2.3 Please provide a high-level overview of the proposed facility, including at a minimum the following information:

For PV facilities:

- Number of inverters
- Rated output of inverters (kW AC)
- Number of PV modules
- Rated output of PV modules (kW DC)
- PV array design characteristics (i.e. fixed tilt, single or multi-axis tracking)

For Wind facilities:

- Number of turbines
- Rated output of turbines (MW AC)

For projects that include a storage component:

- Capacity (MWh)
- Cycling
- Round trip efficiency
- Please confirm that storage will only be charged from the facility [Yes/No]

For other generating technologies:

- Comparable information on the generating unit(s)

2.3 FINANCIAL

Upload documentation in support of the following requirements to the “2. Upload Documents” tab in the PowerAdvocate Platform. A single document is preferred, but more than one file may be uploaded if necessary. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Commercial and Administrative

Document Name Format: CompanyP#V#_2.3_Financial

Proposers should provide the information identified below for the Company to assess the following financial aspects of its Proposal:

- Financial Viability
- Financial Strength
- Financing Plan

2.3.1 Identification of Equity Participants

2.3.1.1 Provide the following company profile information for the Proposer:

- DUNS Number
- Dun & Bradstreet Rating
- Tax ID Number
- If applicable, in which state was the Proposer incorporated/formed?
- If applicable, in what year was the Proposer incorporated/formed?
- Does the Proposer have any government ownership?

2.3.1.2 If the Proposer has a parent entity, provide the following company profile information for the parent entity:

- DUNS Number
- Dun & Bradstreet Rating
- Tax ID Number
- If applicable, in which state was the parent entity incorporated/formed?
- If applicable, in what year was the parent entity incorporated/formed?
- Does the parent entity have any government ownership?

2.3.1.3 Who are the equity participants in the Project (or the equity partners' other partners)?

2.3.1.4 Provide an organizational structure for the Proposer including any general and limited partners and providers of capital that identifies:

- Associated responsibilities from a financial and legal perspective
- Percentage interest of each party

2.3.2 Project Financing

2.3.2.1 How will the Project be financed (including construction and term financing)?

Addressing at a minimum:

- The Project's projected financial structure
- Expected source of debt and equity financing
- Estimated development and capital costs, identifying costs for:
 - Equipment
 - Identify the manufacturer and model number for all major equipment
 - Construction
 - Engineering
 - Seller-Owned Interconnection Facilities
 - Company-Owned Interconnection Facilities
 - Land
 - Annual O&M

2.3.2.2 Discuss and/or provide supporting information on any project financing guarantees.

2.3.2.3 Describe any written commitments obtained from the equity participants.

2.3.2.4 Describe any conditions precedent to project financing, and the Proposer's plan to address them, other than execution of the Power Purchase Agreement or any other applicable project agreements and State of Hawaii Public Utilities Commission approval of the Power Purchase Agreement and other agreements.

2.3.2.5 Describe the implication of the Federal Production Tax Credits or Investment Tax Credits (or similar incentives) on the viability of the Project.

2.3.2.6 Provide any additional evidence to demonstrate that the Project is financeable

2.3.3 Project Financing Experience of the Proposer

Describe the project financing experience of the Proposer in securing financing for projects of a similar size and technology as the one being proposed including the following information for any referenced projects:

- Project name
- Project technology
- Project Size
- Location
- Date of construction and permanent financing
- Commercial Operations Date
- Proposer's role in financing of the project
- Off-taker
- Term of the interconnection agreement
- Financing structure
- Major pricing terms

2.3.4 Evidence of the Proposer's Financial Strength

2.3.4.1 Provide a copy of the Proposer's audited financial statements (balance sheet, income statement, and statement of cash flows):

- Legal Entity
 - Three (3) most recent fiscal years
 - Quarterly report for the most recent quarter ended
- Parent Company
 - Three (3) most recent fiscal years
 - Quarterly report for the most recent quarter ended

2.3.4.2 Provide the current credit ratings for the Proposer (or Parent Company, if not available for Proposer), affiliates, partners, and credit support provider:

- Standard & Poor's
- Moody's
- Fitch

2.3.4.3 Describe any current credit issues regarding the Proposer or affiliate entities raised by rating agencies, banks, or accounting firms.

2.3.4.4 Provide any additional evidence that the Proposer has the financial resources and financial strength to complete and operate the Project as proposed.

2.3.5 Evidence that the Proposer can provide the required securities

2.3.5.1 Proposer agrees to provide Development Period Security and Operating Period Security as set forth in the Model PPA (Yes/No)

2.3.5.2 Describe the Proposer's ability (and/or the ability of its credit support provider) and plan to provide the required securities including:

- Type of security
- Sources of security
- Description of its credit support provider

2.3.6 Disclosure of Litigation and Disputes

Disclose any litigation, disputes, and the status of any lawsuits or dispute resolution related to projects owned or managed by the Proposer or any of its affiliates

2.4 CONTRACT EXCEPTIONS AND FINANCIAL COMPLIANCE

Upload documentation in support of the following requirements to the "2. Upload Documents" tab in the PowerAdvocate Platform. Upload separate red-line Word documents (not pdf format) for 2.4.1 and 2.4.2. Format of documentation for 2.4.3 is at the Proposer's discretion. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Commercial and Administrative

Document Name Format: CompanyP#V#_2.4_ContractExceptions

2.4.1 If Proposers elect to propose modifications to the Model PPA, provide a red-line version of the Model PPA indicating requested modifications and a detailed explanation and supporting rationale for each of the proposed modifications.

NOTE: In the event the Proposer does not upload redlines of the applicable form agreements, the Company will assume the terms in such form agreements are agreeable to the Proposer.

2.4.2 For Waena-Sited Proposals only: If Proposers elect to propose modifications to the Ground Lease, provide a red-line version of the Ground Lease indicating requested modifications and a detailed explanation and supporting rationale for each of the proposed modifications.

NOTE: In the event the Proposer does not upload redlines of the applicable form agreements, the Company will assume the terms in such form agreements are agreeable to the Proposer.

2.4.3 State to the best of the Proposer's knowledge: Will the Project (1) trigger a capital lease accounting treatment under FASB ASC 840 or (2) result in a Developer being a Variable Interest Entity (as defined in FASB ASC 810) that would trigger consolidation of such party's finances onto the Company's financial statements under FASB ASC 810? Provide supporting information to allow the Company to verify such conclusion.

2.5 SITE CONTROL

Upload documentation in support of the following requirements to the "2. Upload Documents" tab in the PowerAdvocate Platform. Format and number of files for documentation in this Section is at the Proposer's discretion. However, maps and plans shall not be submitted in CADD format. Maps, plans, drawings, sketches or similar must be in PDF or TIFF format. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Commercial and Administrative

Document Name Format: CompanyP#V#_2.5_SiteControl

2.5.1 The Proposal must demonstrate that the Proposer has Site Control for all real property required for the successful implementation of a specific Proposal at a Site not controlled by the Company, including any Interconnection Facilities for which the Proposer is responsible. The need for a firm commitment is necessary to ensure that Proposals are indeed realistic and can be relied upon as the Company moves through the remainder of the RFP process. To meet this Site Control requirement, Proposers must do one of the following:

- Provide documentation confirming that the Proposer has an existing legally enforceable right to use and control the Site for a term at least equal to the term of the PPA as specified in the Proposer's Proposal (taking into account the timelines set forth in this RFP for selection, negotiation, and execution of a PPA and PUC approval of a PPA); or
- Provide documentation confirming, at minimum, that the Proposer has an executed binding letter of intent, memorandum of understanding, option agreement, or similar document, with the land owner which sets forth the general terms of a transaction that would grant the Proposer the required Site Control. A letter of intent does not need to be exclusive to the Proposer at the time the Proposal is submitted, and may be contingent upon selection of the Proposal to the Final Award Group.

Projects involving government or publicly-owned lands must also submit documentation required for such projects as described in RFP Section 4.3.

2.5.2 Provide a map of the Project site that clearly identifies:

- Location of the parcel on which the site is located
- Tax map key number (9-digit format: Island Number (1 digit), Zone Number (1 digit), Section Number (1 digit), Plat Number (3 digits, add leading zeros if less than 3 digits), Parcel Number (3 digits, add leading zeros if less than 3 digits)
- Site boundaries (if the site does not cover the entire parcel)
- Total acreage of the site
- Point of Interconnection
- Relationship of the site to other local infrastructure

2.5.3 Provide a site layout plan which illustrates:

- Proposed location of all equipment
- Proposed location of all facilities on the site

2.5.4 Describe the Interconnection route and include:

- Site sketches of how the facility will be interconnected to the Company's System (above-ground or underground)
- Description of the rationale for the interconnection route

2.5.5 Identify any rights-of-way or easements that are required for access to the site or for interconnection route:

- Describe the status of rights-of-way or easement acquisition
- Describe the plan for securing the necessary rights-of-way or easement, including the proposed timeline

2.6 ENVIRONMENTAL REVIEW, PERMITTING PLAN, ENVIRONMENTAL COMPLIANCE/IMPACTS

Upload documentation in support of the following requirements to the "2. Upload Documents" tab in the PowerAdvocate Platform. A single document is preferred, but more than one file may be uploaded if necessary. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Commercial and Administrative

Document Name Format: CompanyP#V#_2.6_Environmental

2.6.1 Describe your overall land use and environmental permits and approvals strategy and approach to obtaining successful, positive results from the agencies and authorities having jurisdiction, including:

- Explanation of the conceptual plans for siting

- Studies/assessments
- Permits and approvals
- Schedule which identifies the sequencing of activities and critical path.

2.6.2 Discuss the City Zoning and State Land Use Classification:

- Identify present and required zoning
- Identify present and required land use classifications
- Provide evidence of proper zoning and land use classifications for selected site and interconnection route
- If changes in the above are required, provide a plan and timeline to secure the necessary approvals.

2.6.3 Identify all required discretionary and non-discretionary land use, environmental and construction permits and approvals required for development, financing, construction, and operation of the proposed Project, including but not limited to, zoning changes, Environmental Assessments and/or Environmental Impacts Statements.

Provide a listing of such permits and approvals indicating:

- Permit Name
- Federal, State or Local agencies and authorities having jurisdiction over the issuance
- Anticipated timeline for seeking and receiving the required permit and/or license
- Explanation of your basis for the assumed timeline
- Explain any situation where a permit or license for one aspect of the Project may influence the timing or permit of another aspect (e.g. a case where one permit is contingent upon completion of another permit or license), if applicable.

2.6.4 Provide a preliminary environmental assessment of the site (including any pre-existing environmental conditions) and potential short and long-term impacts associated with, or resulting from the Proposal – including direct, indirect, and cumulative impacts associated with development, construction, operation and maintenance of the proposed Project in each of the areas identified below. If alternatives have been or will be considered, those should be discussed. The assessment shall also include Proposer's short and long-term plans to mitigate such impacts an explanation of the mitigation strategies for, but not limited to, each of the major environmental areas as presented below:

- Natural Environment
 - Air quality
 - Biology (Natural habitats and ecosystems, flora/fauna/vegetation)
 - Climate
 - Soils
 - Topography and geology
- Land Regulation
 - Land Uses
 - Flood and tsunami hazards
 - Noise
 - Roadways and Traffic
 - Utilities
- Socio-Economic Characteristics

- Aesthetic/Visual Resources
- Solid waste
- Hazardous materials
- Water quality
- Public Safety Services (Police, Fire, Emergency Medical Services)
- Recreation
- Potential cumulative and secondary impacts

2.6.5 Provide a decommissioning plan, including:

- Developing and implementing program for recycling to the fullest extent possible, or otherwise properly disposing of, of installed infrastructure, if any, and
- Demonstration of how restoration of the Site to its original ecological condition is guaranteed in the event of default by the Proposer in the applicable Site Control documentation.

2.7 CULTURAL RESOURCE IMPACTS¹

Upload documentation in support of the following requirements to the “2. Upload Documents” tab in the PowerAdvocate Platform. A single document is preferred, but more than one file may be uploaded if necessary. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Commercial and Administrative

Document Name Format: CompanyP#V#_2.7_Cultural

2.7.1 Provide a plan to address the below requirements as they pertain to the Project Site and interconnection route including the status of any consultant/s with expertise in this field that have been identified and/or contracted with, and documentation of any assessments or work that has been planned or performed to date. For impacts identified for the areas listed below, provide a mitigation strategy and the expected impact on the Project schedule.

- Archaeological Resources
Cultural Practices and Resources

¹ Detail the potential impacts of the Proposal on cultural resources in the short and long-term and the Proposer’s plan to mitigate such impacts. Parties should, at a minimum, identify (1) valued cultural, historical, or natural resources in the area in question, including the extent to which traditional and customary native Hawaiian rights are exercised in the area; (2) the extent to which those resources -- including traditional and customary native Hawaiian rights -- will be affected or impaired by the proposed action; and (3) the feasible action, if any, to be taken to reasonably protect native Hawaiian rights if they are found to exist. Proposers must provide as much information as possible to allow the Company to understand the considerations.

2.8 COMMUNITY OUTREACH AND ENGAGEMENT

Upload documentation in support of the following requirements to the “2. Upload Documents” tab in the PowerAdvocate Platform. A single document is preferred, but more than one file may be uploaded if necessary. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Commercial and Administrative

Document Name Format: CompanyP#V#_2.8_CommOutreach

2.8.1 Provide a detailed plan for community outreach and communications to gain support for or acceptance of the proposed Project, including the Proposer’s plans to reach out and engage with the community during project development and construction to provide project information and address local or community issues. The plan should address, but not be limited to, the following items:

- Identify communities and other stakeholders that may be affected by the proposed Project:
 - How will they be affected?
 - What mitigation strategies will the Proposer implement?
- Describe communication strategy with affected communities and the general public regarding the proposed Project:
 - Describe frequency of communication
 - Provide source of information
 - Identify communication outlets
 - Describe opportunities, if any for affected communities and general public to provide the developer with feedback and comments on the proposed Project
 - Explain what Proposer will do with any provided feedback

2.8.2 Provide any documentation of local community support or opposition including any letters from local organizations, newspaper articles, or communications from local officials.

2.8.3 Provide a description of community outreach efforts already taken or currently underway, including the names of organizations and stakeholders contacted about the proposed Project.

2.8.4 Describe any anticipated or negotiated investment in the community and other community benefits that the Proposer proposes to provide in connection with the Project, along with an estimated value of the community benefits in dollars (including the cost to Proposers providing the benefits and supporting details on how those costs and benefits were derived).

2.9 OPERATION AND MAINTENANCE (O&M)

Upload documentation in support of the following requirements to the “2. Upload Documents” tab in the PowerAdvocate Platform. A single document is preferred, but more than one file may be uploaded if necessary. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Commercial and Administrative

Document Name Format: CompanyP#V#_2.9_OandM

2.9.1 To demonstrate the long term operational viability of the proposed Project, describe the planned operations and maintenance, including:

- A discussion of the staffing levels proposed for the Project and location of such staff
- The expected role of the Proposer (Owner) or outside contractor
- Scheduling of major maintenance activity
- Maintenance funding levels
- The plan for testing equipment
- Estimated life of Generation Facility and Interconnection Facilities

2.9.2 State whether the Proposer would consider 24-hour staffing. Explain how this would be done.

2.9.3 Describe the Proposer's contingency plan, including the Proposer's mitigation plans to address failures. Such information should be described in the Proposal to demonstrate the Project's reliability with regard to potential operational issues.

2.9.4 Indicate whether the Proposer is willing to coordinate the maintenance schedule for the Project with the annual maintenance schedule of the Company.

2.9.5 Describe the status of any O&M agreements or contracts that the Proposer is required to secure. Include a discussion of the Proposer's plan for securing a long-term operation and maintenance contract.

2.9.6 Provide examples of the Proposer's experience with O&M services for other similar projects.

3.0 TECHNICAL INFORMATION REQUIREMENTS

Proposers must provide the following information regarding the Project's operational parameters for proposed renewable generation. If not applicable to the specific technology, the Proposer must respond with an N/A.

3.1 PERFORMANCE STANDARDS

Upload documentation in support of the following requirements to the "2. Upload Documents" tab in the PowerAdvocate Platform. A single document is preferred, but more than one file may be uploaded if necessary. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Technical Information

Document Name Format: CompanyP#V#_3.1_PerformanceStandards

3.1.1 Design and operating information. Upload a project design description. Description should include:

- Configuration description
- Diagrams approved by a Professional Electrical Engineer registered in the State of Hawaii, indicated by the presence of the Engineer's Professional seal on all drawings and documents. Including but not limited to:
 - A single-line diagram, relay list, trip scheme and settings of the generating facility, which identifies the Point of Interconnection, circuit breakers, relays, switches, synchronizing equipment, monitoring equipment, and control and protective devices and schemes.
 - A three-line diagram which shows the Point of Interconnection, potential transformer (PT) and current transformer (CT) ratios, and details of the generating facility configuration, including relays, meters and test switches.
- Maps of the facility

3.1.1.1 Provide the RFP NEP Projection (MWh) for the proposed project: The estimated annual net energy that could be produced by the facility and delivered to the Point of Interconnection over a ten year period with a probability of exceedance of 95%. (This is also requested in the Project Summary datasheet on the Commercial tab in PowerAdvocate.)

- Provide the resource data and a description of the resource data used in developing the RFP NEP Projection (i.e. data source(s) including any resource assessment studies prepared by independent consultants, location(s) that were analyzed as they relate to the proposed project site, the resolution of the data, the accuracy of any measurement instrumentation, and the duration of the data collection)
- Provide a hourly 8760 (24 hours x 365 days) generation profile for the provided RFP NEP Projection

3.1.1.2 Provide the sample rate of critical telemetry (i.e. frequency and voltage) based on inputs to the facility control systems.

3.1.2 Capability of Meeting Performance Standards. The proposed Facility must meet the Performance Standards identified in Section 3.1 of the Model PPA and all other technical requirements of the RFP. Provide confirmation that the proposed Facility will meet the requirements identified in the Model PPA or provide clarification or comments about the Facility's ability to meet the performance standards. Unless otherwise specified, the proposed Facility will meet the Performance Standards identified in the Model PPA.

3.1.3 Reactive Amount: Provide the facility's ability to deliver or receive reactive power to the utility, by each kVA [inverter/wind turbine/generator], provide the inverter capability curve(s).

3.1.4 Ramp Rate: Provide the Facility's maximum Ramp Rate upward (in MW/Min) for all periods, the Facility's maximum Ramp Rate downward expected for all periods other than periods for which such maximum is not operationally possible because of rapid loss of variable resources, and the Facility's start up Ramp Rate.

3.1.5 Describe how the facility will meet the required undervoltage and overvoltage ride-through. Provide the facility's voltage level(s) (at POI) and associated time/duration period (disturbance and steady state), if any, which will require facility trip (the Facility should not disconnect from the Company's System based on voltage unless the Facility's equipment is at risk of damage.) Although not desired for any condition; if required for equipment protection, describe if any "momentary cessation" will be implemented and at what voltage and/or frequency ranges and or durations it would be enabled. "Momentary Cessation" does is not considered ride through.

3.1.6 [Reserved]

3.1.7 [Reserved]

3.1.8 Frequency Response: Provide the facility's frequency response characteristic, including time of response and means of implementing. Describe how the facility will meet the required Underfrequency and over frequency ride-through. Provide the frequency levels and associated time/duration period disturbance and steady state which will require facility trip. (The facility should not disconnect from the Company's System based on frequency, unless the facility's equipment is at risk of damage.)

3.1.9 Auxiliary Power Information. Proposer must provide the maximum auxiliary power requirements for:

- Start-up
- Normal Operations (from generator)
- Normal Operating Shutdown
- Forced Emergency Shutdown
- Maintenance Outage

3.1.10 Coordination of Operations: Provide a description of the control facilities required to coordinate generator operation with and between the Company's System Operator and the Company's System.

- Include a description of the equipment and technology used to facilitate dispatch to the Company and communicate with the Company.
- Include a description of the control and protection requirements of the generator and the Company's System.

3.1.11 Cycling Capability: Describe the Facility's ability to cycle on/off and provide limitations.

3.1.12 Provide the Proposer’s experience dealing with active power control, dispatch, frequency response, and ride-through.

3.1.13 Wind Plants: Provide minimum loading on turbines (continuous and momentary for frequency response).

3.1.14 Wind Plants: Provide thresholds and time durations for high wind speed cutout.

3.1.15 Wind Plants: Describe ability of the proposed turbine to provide synthetic inertial response, if any.

3.1.16 Storage and/or supplemental power equipment: Provide functional, technical and design information for any supplemental storage and /auxiliary power equipment included in this proposal. Include references to similar commercial operation for the equipment, if any.

3.2 AVAILABLE TRANSMISSION CIRCUIT CAPACITY

Upload documentation in support of the following requirements to the “2. Upload Documents” tab in the PowerAdvocate Platform. A single document is preferred, but more than one file may be uploaded if necessary. The completed Interconnection Requirement Study Data Request worksheet must be uploaded in the .xlsx or .xls format. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Technical Information

Document Name Format: CompanyP#V#_3.2_AvailCapacity(1of2)

Document Name Format: CompanyP#V#_3.2.2_AvailCapacity(2of2)_IRS.xlsx (or .xls)

3.2.1 Provide the Output Capacity of the Facility (MW). (This is also requested in the Project Summary datasheet on the Commercial tab in PowerAdvocate.)

3.2.2 Provide the appropriate completed Interconnection Requirement Study Data Request worksheet.

3.3 PROVEN TECHNOLOGY

Upload documentation in support of the following requirements to the “2. Upload Documents” tab in the PowerAdvocate Platform. A single document is preferred, but more than one file may be uploaded if necessary. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Technical Information

Document Name Format: CompanyP#V#_3.3_ProvenTech

3.3.1 Provide all supporting information for the Company to assess the commercial and financial maturity of the technology being proposed. Provide any supporting documentation that shows examples of projects that:

- Use the technology at the scale being proposed
- Have successfully reached commercial operations (for example, by submitting a PPA)

3.4 EXPERIENCE AND QUALIFICATIONS

Upload documentation in support of the following requirements to the “2. Upload Documents” tab in the PowerAdvocate Platform. A single document is preferred, but more than one file may be uploaded if necessary. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Technical Information

Document Name Format: CompanyP#V#_3.4_Experience

Proposers are required to demonstrate project experience and management capability to successfully develop and operate the Project proposed. The Company is interested in a project team that has demonstrated success in the development and operation of electricity generation projects through the commercial operations stage where such projects were of a similar size (i.e., no less than half of the size of the Project being proposed in response to this RFP), scope, technology and structure to the Project being proposed by the Proposer.

3.4.1 Provide an organizational chart for the Project that lists the project participants and identifies the management structure and responsibilities.

- For each of the project participants (including the Proposer, partners, and proposed contractors), provide statements that list the specific experience of the firm in: developing, financing, designing, constructing, owning, operating, and maintaining renewable energy generating facilities, or other projects of similar type, size and technology, and
- Any evidence that the project participants have worked jointly on other projects.

3.4.2 Identify those member(s) of the team the Proposer is submitting to meet the experience Threshold Requirement and demonstrate the member(s) firm commitment to provide services to the Proposer.

3.4.3 Identify those members of the team with experience and qualifications including affiliates, and their principal personnel who will be involved in the project contracting to sell and deliver energy. If the Proposer consists of multiple parties, such as joint ventures or partnerships, provide this information for each party, clearly indicating the proposed role of each party, including an ownership chart indicating direct and indirect ownership, and percentage interests in the partnership or joint venture.

3.4.4 Provide a management chart which lists the key personnel dedicated to this Project and provide biographies / resumes of the key personnel, including position, years of relevant experience,

and similar project experience. Provide specifics as they relate to financing of renewable energy projects. Identify architects and engineers or provision to provide same that are licensed to practice in the State of Hawai'i.

3.4.5 Provide a listing of all photovoltaic, wind or other renewable energy projects the Proposer has successfully developed or that are currently under construction. Describe the Proposer's role and responsibilities associated with these projects (lead developer, owner, investor, etc.). Provide the following information as part of the response:

- Name of the project
- Location of the project
- Project type, size and technology
- Commercial operation date
- Offtaker (if applicable)
- Current ownership
- References with contact information: name, address, phone number, and relationship with the Proposer and with the related project.

3.5 STATE OF PROJECT DEVELOPMENT AND SCHEDULE

Upload documentation in support of the following requirements to the "2. Upload Documents" tab in the PowerAdvocate Platform. A single document is preferred, but more than one file may be uploaded if necessary. Documentation must be arranged in a manner that clearly references the section and subsection number of the requested information.

Document Type: Technical Information

Document Name Format: CompanyP#V#_3.5_ProjDev

3.5.1 Provide a project schedule in GANTT chart format with complete critical path activities identified for the Proposal from the Notice of Selection of the Proposal for contract negotiation to the start of Commercial Operations.

- The schedule must include:
 - Interconnection Requirement Study (IRS)
 - Anticipated contract negotiation period
 - Regulatory
 - Anticipated submittal and approval dates for permitting (including but not limited to environmental and archaeological compliance)
 - Siting and land acquisition
 - Cultural Resource implications and mitigation activities
 - Community outreach and engagement activities
 - Energy resource assessment
 - Financing
 - Engineering
 - Procurement

- Facility construction including construction management events
 - Applicable reporting milestone events specified in the Model PPA
 - Interconnection (including engineering, procurement and construction)
 - Commercial Operations Date
 - All other important elements outside of the direct construction of the Project
- For each project element, list the start and end date, and include predecessors to clearly illustrate schedule dependencies.
 - Proposers must also list and describe critical path activities and milestone events, particularly as they relate to the integration and coordination of the project components and the Company's Electric System. Proposers must ensure that the schedule provided in this section is consistent with the milestone events contained in the PPA and/or other agreements.

3.5.2 Describe the construction execution strategy including:

- Identification of contracting/subcontracting plans
- Modular construction
- Safety plans²
- Quality control and assurance plan
- Labor availability
- Likely manufacturing sites and procurement plans
- Similar projects where these construction methods have been used by the Proposer.

3.5.3 Provide a description of any project activities that have been performed to date.

4.0 PRICING INFORMATION

Per Step 6 in Section 1.1 above, fill out the datasheet under the "5. Pricing Data" tab on the PowerAdvocate Platform.

² A document that describes the various safety procedures and practices that will be implemented on the Project and how applicable safety regulations, standards, and work practices will be enforced on the Project.