

**REQUEST FOR INFORMATION
FOR
LONG-TERM RENEWABLE ENERGY
DEVELOPMENT**

ISLANDS OF O‘AHU, MAUI, HAWAI‘I

July 5, 2022



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1) INTRODUCTION

As a part of a 100% renewable energy future by 2045, Hawaiian Electric Company, Inc., Maui Electric Company, Limited, and Hawai'i Electric Light Company, Inc. (collectively, "Hawaiian Electric" or "Company"), as part of our planning efforts, has identified the need for a wide variety of generation and storage projects to meet our long-term needs. The Company is exploring the opportunities available and current state of technology for projects that will take longer to develop and reach commercial operations than the Company's current Request for Proposal ("RFP") timeframes allow¹, mainly due to the type of technology, transmission, project permitting or land use constraints. Responses to this Request for Information ("RFI") will guide Hawaiian Electric's future resource planning and procurement to include opportunities for the development of longer-term renewable energy projects. Hawaiian Electric issues this RFI seeking information from energy developers that are capable of developing renewable energy² facilities on the islands of O'ahu, Maui, and Hawai'i Island that require a longer time frame for development.

Project developers are encouraged to submit comprehensive responses to this request. The information obtained from responses may assist in the development of the Company's long term resource plans and the development and issuance of a future RFP to meet energy needs on the Islands of O'ahu, Maui, and Hawai'i Island under the State of Hawai'i Public Utilities Commission ("Commission") Framework for Competitive Bidding,³ the issuance of another RFP, or the issuance of an alternative means of

¹ See Order No.38479 Approving the Hawaiian Electric Companies' Final Stage 3 Request for Proposals for Hawaii Island with Modifications and Issuing Guidance on the Proposed Stage 3 Request for Proposals for Oahu and Maui, issued on June 30, 2022 in Docket No. 2017-0352.

² "Renewable Energy" means energy generated or produced by the resources identified in Hawaii Revised Statutes Section 269-91.

³ Decision and Order No. 23121 in Docket No. 03-0372, issued on December 8, 2006, "Instituting a Proceeding to Investigate Competitive Bidding for New Generating Capacity in Hawaii."



procurement, subject to approval by the Commission. However, there is no assurance or certainty that Hawaiian Electric will issue an RFP or an alternative means of procurement, and the decision to do so shall be in the sole discretion of Hawaiian Electric. While Hawaiian Electric may collectively summarize the results of the RFI, individual responses will be held in confidence and will not be published, including in any future RFP issued by the Hawaiian Electric, without first receiving prior permission to do so from the respondent.

2) PURPOSE

- The objective of this RFI is to identify interested parties who are able to develop renewable energy projects on O‘ahu, Maui and Hawai‘i Island that require a longer development time frame.
- Determine the current state of advancement and development of long-term projects to incorporate any needed modifications to the Company’s procurements to account for the unique aspect of longer development times in future resource procurement.

Interested parties are encouraged to provide the following information in the form provided by September 6, 2022. The Company is extending the period of time for stakeholders to submit responses to the RFI in hopes of receiving a wide array of responses to discuss during the working group meeting.

Development Questions:

- Technology
 - Project size (MW)
 - Type of technology
 - General response characteristics (e.g., inverter, synchronous, etc.)
 - Short term overcurrent capability (e.g., 5-10 seconds range)
 - Commercial readiness of the technology
- Previous or planned commercial application examples
 - Size of the Project (MW)
- Description of the operations of the technology
- Approximate square footage required or if a potential host site exists
- Expected timeline needed to reach commercial operations
- Timing or other constraints
- Project development activities
- Additional information the respondent deems relevant
- Indicative capital, variable and fixed operating and maintenance costs for the proposed technology (indicative pricing will help with modeling)
- If an RFP for longer term resources were to be issued in 2023 for projects to reach commercial operations in the 2030-2035 timeframe,



- What key modifications would need to be made to the Stage 3 RFPs (e.g., technical or commercial terms, evaluation criteria, model PPA contracts) to enable the proposed technology or project to submit a proposal?
- What contract structure and pricing terms would need to be in place to proceed with the proposed technology or project?
- What current procurement process or regulatory barriers would hinder development of these projects?
- How should risks of the proposed technology or project be allocated between Company, customers, and developers?
- Are there any unique interconnection requirements or needs for the proposed technology or project?

3) RELATIONSHIP OF THIS RFI TO HAWAIIAN ELECTRIC'S INTEGRATED GRID PLANNING

Hawaiian Electric is expecting to need additional resources to meet its long term grid needs and is seeking information on low to zero carbon generation technologies to potentially fulfill future needs. Responses to this RFI will assist Hawaiian Electric in developing long-range renewable energy plans and informing future and upcoming competitive procurements.

4) INSTRUCTIONS TO INTERESTED PARTIES

Interested parties are asked to follow the instructions below in submitting the requested information:

- a) Submit Requested Information. Complete the Project Questionnaire (see Appendix A) and submit the information using one of the following methods. Hawaiian Electric welcomes all information that respondents are comfortable sharing. None of the fields in the questionnaire should be considered as required.

Email (preferred): With pdf file attachment(s) to
renewableacquisition@hawaiianelectric.com

U.S. Mail*: Manager, Energy Procurement (mail code AL12-IU)
Renewable Acquisition
Hawaiian Electric Company, Inc.
P.O. Box 2750
Honolulu, Hawaii 96840-0001

- b) Due Date. Please submit all information by **September 6, 2022**.
- c) Confidentiality. Clearly and specifically mark any information that the respondent requests be treated as confidential and not be disclosed outside of Hawaiian Electric and its employees, consultants, and representatives involved with the review of information



received in response to this RFI. By responding to this RFI, the respondent agrees that Hawaiian Electric shall have the right to disclose information submitted as part of the RFI process or other related regulated process to the Commission and the State of Hawai'i Department of Commerce and Consumer Affairs, Division of Consumer Advocacy ("Consumer Advocate") and their respective staff and consultants, including information designated as confidential by the respondent, provided that such disclosure is made under a protective order entered in the docket or proceeding with respect to which the disclosure will be made or any general protective order entered by the Commission. Any statement of condition in any information that attempts to restrict Hawaiian Electric's rights under this section shall be void.

- d) Not a Request for Proposals. This RFI is being issued to inform the future inclusion of projects that take longer to develop for future potential RFPs for renewable energy and storage projects on the Islands of O'ahu, Maui, and Hawai'i Island. This RFI is not an RFP related to a specific project or solicitation of development for a single project proposal. Neither this RFI nor the disclosure of the confidential information shall result in any obligation on the part of either Hawaiian Electric or respondents to this RFI to enter into any further agreement with the other with respect to the subject matter hereof, to purchase any products or services from the other, or to require Hawaiian Electric to disclose any particular information to any respondent. Nothing in this RFI shall imply any partnership or joint venture between Hawaiian Electric and any respondent or be construed as making either the agent of the other.
- e) Questions from Interested Parties. If an interested party needs additional information or clarification regarding any part of this RFI or the RFI process described in this document, it may submit questions in writing to renewableacquisition@hawaiianelectric.com.

5) SUMMARY OF KEY DATES

- July 5, 2022 Hawaiian Electric issues RFI via website
- September 6, 2022 Project Questionnaire due from Respondents
- Late September 2022 Working Group Meeting to discuss Responses

Hawaiian Electric looks forward to receiving informative responses.



APPENDIX A

Project Questionnaire

Request for Information: Long-Term Renewable Energy Development for the Islands of O‘ahu, Maui, and Hawai‘i.

Please respond to the following questions if an RFP for longer term resources were to be issued in 2023 for projects to reach commercial operations in the 2030 to 2035 time frame:

Project Description

Technology:

Enter information regarding the technology, special conditions, indicative budgetary capital, variable and fixed operations and maintenance costs etc.

Previous Commercial Application Examples:

Please identify any previous commercial applications of the proposed technology at a similar scale to what is being considered for Hawai‘i.

Project Siting:

Please detail the approximate square footage required for the project, including its interconnection facilities, or whether a potential host site for the project has been identified on the island of O‘ahu, Maui, or Hawai‘i.

Timeline for Completion:

Please detail an expected timeline needed to develop such a project on the island of O‘ahu, Maui, or Hawai‘i.

Timing or Other Constraints:

Please identify any other constraints, dependencies, or conditions that would affect the development of the project.

Project Development Activities:

Describe any project development activities, if any, including any community outreach.

RFP Language:

Please identify key modifications that would need to be made to the Stage 3 RFPs (e.g., technical or commercial terms, evaluation criteria, model PPA contracts) to enable the project to submit a proposal, including any contract structure and pricing terms needed to proceed with the project.



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Current Procurement Process:

Please identify any barriers in the current procurement process or regulatory framework that would hinder the development of this project.

Risk Allocation:

Please provide suggestions for how risks of the proposed technology or project be allocated between the Company, customers, and developers.

Interconnection:

Please identify any unique interconnection needs for the proposed technology or project.

Additional Information:

Please provide any additional relevant information regarding development of the project on the island of O‘ahu, Maui, or Hawai‘i.

Contact Information:

Enter any available contact information (Name, Phone Number, Email, Fax, Mailing Address)

Please send this completed questionnaire and any supporting documentation to one of the following by September 6, 2022.

Email (preferred): With pdf file attachment(s) to

renewableacquisition@hawaiianelectric.com

U.S. Mail*: Manager, Energy Procurement (mail code AL12-IU)

Renewable Acquisition

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