REQUEST FOR INFORMATION
FOR
RENEWABLE ENERGY PROJECTS

ISLANDS OF O‘AHU, MAUI, MOLOKA‘I, LANA‘I, HAWAI‘I

August 2, 2018
1) INTRODUCTION

On February 27, 2018, the Hawaiian Electric Companies¹ released three Stage 1 Request for Proposals ("Stage 1 RFPs") seeking proposals that could supply variable renewable dispatchable² generation on the islands of O‘ahu, Maui and Hawai‘i. During the approval process for the Stage 1 RFPs and during the Stage 1 RFPs bidding period, inquiries related to projects that did not conform to the scope or requirements of the Stage 1 RFPs were received from several potential proposers. In response, the Companies had indicated that they would issue a request for information which would allow the Companies to gain a better understanding of potential projects available. The Companies release this Request for Information for Renewable Energy Projects ("RFI") to determine what project opportunities are currently available for renewable energy on the islands of O‘ahu, Maui, Hawai‘i, Moloka‘i and Lana‘i. Responses to this RFI could help inform the scope or requirements of Stage 2 of the variable renewable dispatchable generation RFPs or other future procurements of the Companies.

2) PURPOSE

The objective of this RFI is to:

- Identify viable renewable dispatchable energy opportunities that might reside outside the scope or requirements of the Stage 1 RFPs.
- Help inform the development of possible future RFPs for the islands of O‘ahu, Maui, Moloka‘i, Lana‘i, and Hawai‘i. The Companies intend to use the information gathered to help determine if the scope or requirements of future RFPs should be modified to capture benefits the current specification of the RFPs do not encompass.

Responding to this RFI does not guarantee the inclusion of information provided into the Companies’ Stage 2 RFPs or any future RFPs, but will help inform the scope of these succeeding RFPs.

While the Companies may collectively summarize responses to the RFI, the information contained in individual responses will be held in confidence and will not be published, including in any future RFP issued by the Companies, without first receiving prior permission to do so from the respondent. Depending on the market response to the RFI, the Companies may periodically reissue this request in the future to understand the state of renewable energy opportunities.

Interested parties are encouraged to provide the following information by September 17, 2018.

Project Description Questions:

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² “Dispatchable” means the ability to turn on or turn off a generating resource at the request of the utility’s system operators, or the ability to increase or decrease the active power output of a generating resource from moment to moment in response to signals from a utility’s Automatic Generation Control System, Energy Management System or similar control system, or at the request of the utility’s system operators.
• Project Summary
• Description of Technology Type
  o For technologies other than wind, solar, and hydro, please provide additional information that may indicate commercial readiness including:
    ▪ Commercial installation of similar technologies
    ▪ Ongoing projects
• Maximum Output (in MWs)
• Characteristics of Energy that the project could provide. Please provide any other information regarding the project that would be useful to understanding its potential to supply electricity to meet customer demand, (i.e.; load correlation, volatility, variability) such as, but not limited to:
  o Variability of the output and resource dependencies
    ▪ Minute-to-minute variability
    ▪ Hourly production profile
    ▪ Seasonal variability
    ▪ Ability to forecast power production
  o For firm power sources, provide description of fuel source and availability
  o Operational and technical characteristics of generation, such as:
    ▪ Active Power Dispatch
    ▪ Frequency response
    ▪ Disturbance ride through
    ▪ Behavior during faults
    ▪ Voltage regulation and response
    ▪ Inertial response
    ▪ Ramp limiting (up and down)
  o If applicable, operational and technical characteristics of energy storage, in addition to the operational and technical characteristics of generation, indicative of:
    ▪ Charging source and philosophy
    ▪ MW and MWh
  o Any other grid services identified in the Companies’ PSIP and Grid Services Tariffs\(^3\) or grid services request for proposals\(^4\)
• Estimated construction time if project is selected and approved by End of 2019
• Location of Project
  o Tax Map Key(s) or coordinates for the available location
  o Description of site control secured or plan to secure site control if not already obtained.
  o Community outreach efforts to date and/or planned community outreach

\(^3\) See “Application of Hawaiian Electric Companies for Approval of Demand Response Program Portfolio Tariff Structure; Submission of Grid Service Purchase Agreement and Proposed Follow-on Procedural Steps and Revisions to the DR Implementation Timeline,” filed on December 18, 2017 in Docket No. 2015-0412.

• If the community has already been engaged regarding the project, please describe the receptiveness of the community to the project or any potential hurdles foreseen.

• Project Dependencies (i.e. known required transmission upgrades, zoning or land use issues, real estate transactions, permitting, environmental concerns, etc.)
  o Please provide a schedule for the resolution of these dependencies.

• Any particularly unique, innovative, and/or beneficial aspects of the project concept that the Companies should be aware of

• Contact information for the project

3) INSTRUCTIONS TO INTERESTED PARTIES

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

a) Submit Requested Information. Provide a project summary and all information that respondents are comfortable with sharing in an organized format and submit the information using one of the following methods.

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

  U.S. Mail*: Director, Energy Procurement (mail code CP21 IU)
  Renewable Acquisition
  Hawaiian Electric Company, Inc.
  P.O. Box 2750
  Honolulu, Hawaii 96840-0001

b) Due Date. Please submit all information by September 17, 2018.
  *If sent by U.S. mail, package should be postmarked by September 14, 2018.

c) Confidentiality. Clearly and specifically mark any information that Respondent requests be treated as confidential and not be disclosed outside of the Companies and their employees, consultants, and representatives involved with the review of information received in response to this RFI. The Companies shall have the right to disclose Information submitted as part of the RFI process or other related regulated process to the State of Hawai‘i Public Utilities Commission and the Department of Commerce and Consumer Affairs, Division of Consumer Advocacy and their respective staffs and consultants, including information designated as confidential by the Respondent, provided that such disclosure is made under

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5 Contact information should include the company name, point of contact's name, phone number, email address, mailing/physical address. The Companies offer no promises for contact, follow-up, or providing information on the status of the RFI.
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.

d) **Not a Request for Proposals.** The RFI is being solicited to inform future development for any current or future potential RFPs for renewable energy projects on the Islands of O‘ahu, Maui, Moloka‘i, Lana‘i, and Hawai‘i. The 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 any confidential information in response to this RFI shall result in any obligation on the part of either the Companies 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 the Companies to disclose any particular information to the respondents. Nothing in this RFI shall imply any partnership or joint venture between the Companies 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 the RFI document, or the RFI process outlined in this document, it may submit questions in writing to renewableacquisition@hawaiianelectric.com.

4) **SUMMARY OF KEY DATES**

- **August 2, 2018**  The Companies issues RFI via website
- **September 17, 2018**  Project information due from respondents

The Companies look forward to receiving responses to this RFI.