Powering Past Coal Task Force - Master Schedule

Summary

This document is a master schedule to provide a common operating picture of the overall progress to replace the electricity currently provided by the coal plant. On the next page, the grey line items are PUC approved measures. Lines beneath these may be projects or initiatives that fall under each PUC docket. Colored boxes indicate key milestones or project commercial operation dates.

Purpose

On March 30, 2021, by Executive Order 21-01, Governor David Ige established the Powering Past Coal Task Force to convene stakeholders to increase transparency, coordination, collaboration, and urgency to timely facilitate, coordinate, and align the reviews and approvals needed for the measures and projects that the PUC approved to replace the electricity and grid stability currently provided by Hawai‘i’s last coal-fired power plant, located on O‘ahu.

To achieve the Task Force objectives, a primary activity of the Task Force is to develop and maintain a Master Schedule, as shown on next page, which provides a timeline and status summary of the measures and projects needed to replace the coal plant with renewable energy.

These measures and projects will collectively support O‘ahu’s transition away from fossil fuels.

The coal plant’s generation capacity is 180 MW and in 2020 it provided 16% of O‘ahu’s electrical energy; notably, providing more energy during peak and non-daylight hours. It has been operating since 1992.

The Task Force is chaired by the Chief Energy Officer of the Hawai‘i State Energy Office and includes members from State and City and County of Honolulu government, the Hawai‘i State Legislature, Hawaiian Electric, renewable energy development companies, and energy-related public interest groups.

The Task Force is not a policy-making or decision-making body and does not pursue statutory or administrative rule changes.

Terms and Abbreviations Used

COD - Commercial Operations Date - Target date for a project to begin commercial operations.

Force Majeure - Contract clause that removes liability to parties for unavoidable and unexpected events that prevent parties from fulfilling contractual obligations (e.g., unforeseen supply shortages or natural disasters).

GCOD - Guaranteed Commercial Operations Date - Contractually binding date for a project to begin commercial operations.

HECO - Hawaiian Electric Company - The only electric utility servicing the island of O‘ahu, part of Hawaiian Electric.

MW - Megawatt - Measurement of power, capacity, or demand. Represented below as generating capacity of a project.

PPA - Power Purchase Agreement - A contract for an electric utility to purchase energy and or capacity from a commercial source (e.g., utility scale solar project) at a predetermined price or based on pre-determined pricing formulas.

PUC - Hawai‘i Public Utilities Commission

RPS - Renewable Portfolio Standard - A goal for the percentage of electricity sales in Hawai‘i to be derived from renewable energy sources.

Utility RPS - The percentage of a utility’s electricity sales that comes from renewable energy. In the case of Hawaiian Electric, its Utility RPS is a combination of the three electric utilities servicing O‘ahu, Maui County (Maui, Moloka‘i, Lāna‘i), and Hawai‘i island: respectively, Hawaiian Electric Company (HECO), Maui Electric Company (MECO), and Hawai‘i Electric Light Company (HELCO).

Schedule Legend

Green = Accelerated COD or GCOD
Yellow = Original Proposed GCOD
Red = Delayed COD or GCOD

Disclaimer: The information represented below is public and can be found within the PUC dockets. The project schedule is evolving—what is represented on the next page is subject to future additions and changes. For the most up-to-date information on the status of each project, HSEO recommends referencing the PUC dockets and/or appropriate agencies regarding the status of their approvals. Additional information can be found in the individual PUC dockets and on the project webpages, all of which are linked within the schedule on the next page.

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Url: https://energy.hawaii.gov/ppctf

Hawai‘i RPS = 100% renewable energy for electricity consumption by 2045

The coal plant is planned for retirement on SEPTEMBER 1, 2022, as indicated by the vertical black line in the Master Schedule. State law prohibits the use of coal for power generation in Hawai‘i after December 31, 2022.

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<table>
<thead>
<tr>
<th>PUC Docket Number and Task</th>
<th>Project or Task Updates</th>
<th>Estimated Utility-RPS Combined Contribution</th>
<th>Production Capacity (GW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-0323</td>
<td>AES West O'ahu solar (Stage 3)</td>
<td>EAP approved by LUC 6-10-21. Construction anticipated to start Sep-21 or Oct-21.</td>
<td>2.5</td>
</tr>
<tr>
<td>2018-0190</td>
<td>Kula Energy Storage (Stage 2)</td>
<td>Battery supply cannot guarantee delivery until Aug-22, delaying initial GCOD. 138 kV overhead line application filed 6-22-21. Project needs Interconnection Requirements Study (IRS) amendment and overhead line approval by 9-1-21 for financial closing. IRS is looking at rolling commissioning by June with each battery as it is installed and hooked up. Construction anticipated to start Q4-21.</td>
<td>0.1</td>
</tr>
<tr>
<td>2018-0192</td>
<td>Maile I Solar (Stage 1)</td>
<td>Construction started. Notes working to complete FPA amendment negotiations to potentially accelerate the GCOD. HECO is reviewing proposed new project schedule to determine feasibility, final price proposal (3% increase or more) to be based on new schedule.</td>
<td>0.4</td>
</tr>
<tr>
<td>2018-0195</td>
<td>Ho'ohana Solar 1 (Stage 1)</td>
<td>Continuing Cultural Impact Assessment, project layout and design, and studies. New public meeting estimated Sept-21 (Note: TBA). HECO - AES working on early engineering agreement for interconnection facilities. Construction anticipated to start Q2-22.</td>
<td>1.0</td>
</tr>
<tr>
<td>2018-0198</td>
<td>Kulahepa Solar Storage (Stage 2)</td>
<td>Site interconnection with Kulahepa resulted in delays. Developer 60kW design (10×5 kwp) package due 7-14-21, slipped from 6-3-21. (Note: Kulahepa sharingaho Interconnection co-membership with Ho'ohana solar as well). Construction anticipated to start Q2-22.</td>
<td>0.3</td>
</tr>
<tr>
<td>2019-0357</td>
<td>Maile Phase 2 Solar Storage (Stage 1)</td>
<td>Continuing Project layout, design and studies; working with landowner on Land Use Commission petition for use this year. HECO and AES working on early engineering agreement for interconnection facilities. Construction anticipated to start Q2-22.</td>
<td>1.2</td>
</tr>
<tr>
<td>2018-0422</td>
<td>Distributed Energy Storage (DES)</td>
<td>PUC issued Decision and Order on 6-8-21 for HECO to implement a Schedule Dispatch Program (SDP) for commercial and residential rooftop photovoltaic systems. The program incentivizes new and existing DER tariff customer generating systems to install battery storage for existing or added photovoltaic systems. New battery systems will discharge on a scheduled basis during peak hours. HECO is working to get better understanding of type, voltage, and timing needed for new or retrofit PV + battery installations to reach 3% of annual peak load reduction by Jun-22. HECO needs to work with stakeholders to develop strategy to ensure timely permitting and interconnection.</td>
<td>0.2</td>
</tr>
<tr>
<td>2018-0430</td>
<td>Microgrid Services Tariff</td>
<td>PUC issued Decision and Order approving managed tariff 11-1-22. Hawaiian Electric submitted microgrid tariff 5-27-21. The Microgrid Services Tariff is intended to encourage and facilitate the development and use of new microgrids throughout Hawaii, with the exception of Kaua'i, which is microgrid defined as a group of interconnected loads and distributed energy resources within clearly defined electrical boundaries that acts as a single self-governing controllable entity with respect to the utility's electrical grid and is connected to a public utility's electrical grid to operate in &quot;grid connected mode&quot;, or can disconnect to operate in &quot;island mode&quot;.</td>
<td>0.1</td>
</tr>
<tr>
<td>2018-0443</td>
<td>Energy Efficiency Measures (EEM)</td>
<td>These measures are not currently items that are Task Force priority; however, they play an important role in ensuring O'ahu meets the production capacity requirements necessary to retire the coal plant and meet renewable energy goals. Measures may be brought to the Task Force should the need arise.</td>
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