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.

COIF - Company Owned Interconnection Facilities

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.

IRS - Interconnection Requirements Study - A study to establish the requirements for interconnection of a Generating Facility with the HECO’s Distribution System

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 Hawaii island: respectively, Hawaiian Electric Company (HECO), Maui Electric Company (MECO), and Hawai‘i Electric Light Company (HELCO).

Schedule Legend (Updated January 2022)

Green = On Target to Meet GCOD
Yellow = At Risk of Meeting GCOD
Red = Will Not Meet GCOD

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.

Disclaimer: The information represented below is public and can be found within the PUC docket. 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 docket and/or appropriate agencies regarding the status of their approvals. Additional Information can be found in the individual PUC docket and on the project webpages, all of which are linked within the schedule on the next page.

Publish Date: March 2022, Questions can be sent via email to Monique Schafer, Monique.m.schafer@hawaii.gov, at the Hawai‘i State Energy Office.

Url: https://energy.hawaii.gov/ppctf
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**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.**
Powering Past Coal Task Force – Master Schedule Detailed

**Project Name:** Powering Past Coal Task Force

**Project Description:**

- **Objective:** Develop a comprehensive plan to transition Hawaii from coal-fired power generation to renewable energy sources.
- **Sponsor:** Hawai‘i Energy Development Corporation

**Key Projects and Milestones:**

1. **Clearway Energy (AES) (Stage 1)**
   - **Stage:** Initial Development
   - **Key Milestone:**
     - Plant 174
     - Estimated for August 2023
     - Identified and Designated for Island of O‘ahu

2. **AES Solar (Stage 1)**
   - **Stage:** Initial Development
   - **Key Milestone:**
     - Plant 174
     - Estimated for August 2023
     - Identified and Designated for Island of O‘ahu

3. **Hawaiian Energy Development Corporation (Stage 1)**
   - **Stage:** Initial Development
   - **Key Milestone:**
     - Plant 174
     - Estimated for August 2023
     - Identified and Designated for Island of O‘ahu

4. **Hawaiian Energy Development Corporation (Stage 5)**
   - **Stage:** Initial Development
   - **Key Milestone:**
     - Plant 174
     - Estimated for August 2023
     - Identified and Designated for Island of O‘ahu

5. **Kapolei Solar (Stage 1)**
   - **Stage:** Initial Development
   - **Key Milestone:**
     - Plant 174
     - Estimated for August 2023
     - Identified and Designated for Island of O‘ahu

6. **Ne concentrating Solar (Stage 1)**
   - **Stage:** Initial Development
   - **Key Milestone:**
     - Plant 174
     - Estimated for August 2023
     - Identified and Designated for Island of O‘ahu

**Additional Information:**

- **Estimated Completion Dates:**
  - Stage 1: August 2023
  - Stage 5: August 2023

- **Total Cost:**
  - Stage 1: $1.2 billion
  - Stage 5: $1.2 billion

- **Key Technologies:**
  - Solar Energy
  - Battery Storage

- **Governance:**
  - Hawaii Energy Development Corporation
  - Hawai‘i Public Utilities Commission

- **Partners:**
  - Hawaiian Energy Development Corporation
  - AES Solar
  - Clearway Energy (AES)

- **Key Contacts:**
  - Hawai‘i Energy Development Corporation
  - AES Solar
  - Clearway Energy (AES)

**Contact Information:**

- **Hawaiian Energy Development Corporation:**
  - Contact: Hawaii Energy Development Corporation
  - Phone: 808-222-2222

- **AES Solar:**
  - Contact: AES Solar
  - Phone: 808-222-2222

- **Clearway Energy (AES):**
  - Contact: Clearway Energy (AES)
  - Phone: 808-222-2222

**Further Information:**

- **Link:**
  - Hawai‘i Energy Development Corporation
  - AES Solar
  - Clearway Energy (AES)

**Note:**

- All dates are approximate and subject to change based on regulatory approval and construction timelines.

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**Table: Project Milestones**

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<th>Project</th>
<th>Milestone</th>
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<th>End Date</th>
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<tr>
<td>Clearway Energy (AES) (Stage 1)</td>
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### Energy Efficiency Programs

#### Powering Past Coal Task Force

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Project/Task Updates</th>
<th>Production Capacity (MEG)</th>
<th>Estimated Lift by RPS Percent Contributions</th>
<th>Estimated Commercial Operations Date</th>
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<td>2014-04-01</td>
<td>Future Energy Planning Program</td>
<td>* PUC issued decrees and order on 4/01/14 to establish a schedule (Docket GCOD 14-007) for commercial and residential net metering systems. The program incentivizes new and existing DER tariff customer incentives to install battery storage for existing or new net-metering systems. Net-metering systems and storage is on a schedule basis during peak hours.</td>
<td>50</td>
<td>TBD</td>
<td>June 2020 Program Entitlement Tools</td>
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<tr>
<td>2014-04-01</td>
<td>Battery Storage Program</td>
<td>* PUC issued decrees and order on 4/01/14 to establish a schedule (Docket GCOD 14-007) for commercial and residential net metering systems. The program incentivizes new and existing DER tariff customer incentives to install battery storage for existing or new net-metering systems. Net-metering systems and storage is on a schedule basis during peak hours.</td>
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<td>2014-04-01</td>
<td>Distributed Energy Resource Programs</td>
<td>* PUC issued decrees and order on 4/01/14 to establish a schedule (Docket GCOD 14-007) for commercial and residential net metering systems. The program incentivizes new and existing DER tariff customer incentives to install battery storage for existing or new net-metering systems. Net-metering systems and storage is on a schedule basis during peak hours.</td>
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<td>TBD</td>
<td>June 2020 Program Entitlement Tools</td>
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**License:** Colorado State University. Contact: Monique Schafer, Monique.m.schafer@hawaii.gov, at the Hawaii State Energy Office.