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

Schedule Legend

<table>
<thead>
<tr>
<th>Color</th>
<th>Legend</th>
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<tbody>
<tr>
<td>Green</td>
<td>Accelerated COD or GCOD</td>
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<tr>
<td>Yellow</td>
<td>Original Proposed GCOD</td>
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<tr>
<td>Red</td>
<td>Delayed COD or GCOD</td>
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</table>

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.

Publish Date: October 21, 2021, 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
### Powering Past Coal Task Force - Master Schedule

<table>
<thead>
<tr>
<th>Project</th>
<th>Estimated Utility</th>
<th>Original Capacity</th>
<th>AFC Percent Contribution</th>
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<th>4Q-21</th>
<th>1Q-22</th>
<th>2Q-22</th>
<th>3Q-22</th>
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### Distributed Energy Resources (DER)
- **Utility Projects**
  - Power Purchase Agreement
  - Capacity
  - Planned Start Date
  - Originally Anticipated
  - Original Completion Date
  - Grid Services
- **Customer Projects**
  - **Phase 1**
  - **Phase 2**
- **Community Projects**
  - **Phase 3**

### 2023-2030
- **Electricity Program**
  - **Year-End Review**
  - **Program Start Date**
  - **Program End Date**
  - **Program Status**
  - **Program Completion Date**
  - **Renewable Energy Credits**
  - **Greenhouse Gas Reductions**

### 2024-2030
- **Electricity Program**
  - **Year-End Review**
  - **Program Start Date**
  - **Program End Date**
  - **Program Status**
  - **Program Completion Date**
  - **Renewable Energy Credits**
  - **Greenhouse Gas Reductions**

### 2025-2030
- **Electricity Program**
  - **Year-End Review**
  - **Program Start Date**
  - **Program End Date**
  - **Program Status**
  - **Program Completion Date**
  - **Renewable Energy Credits**
  - **Greenhouse Gas Reductions**

### 2026-2030
- **Electricity Program**
  - **Year-End Review**
  - **Program Start Date**
  - **Program End Date**
  - **Program Status**
  - **Program Completion Date**
  - **Renewable Energy Credits**
  - **Greenhouse Gas Reductions**

### 2027-2030
- **Electricity Program**
  - **Year-End Review**
  - **Program Start Date**
  - **Program End Date**
  - **Program Status**
  - **Program Completion Date**
  - **Renewable Energy Credits**
  - **Greenhouse Gas Reductions**
Powering Past Coal Task Force - Master Schedule Detailed

KUC Number and Link | PUC Approved Measures to Replace Generation and Capacity of the Coal Plant | Developer | Project or Task Update | Milestones and Next Steps ([F applicable]) | Production Capacity (MW) | Estimated Utility PPA Revenue Contribution | Guaranteed Commercial Operations Date
---|---|---|---|---|---|---|---
**KUC 0140** | [Utility-Scale Projects Stage 1] | Wilkons' Solar (Stage I) | Shireen Energy Group LLC, Global Infrastructure Partners | Currently on target to meet new accelerated GCOD. | | | 
**KUC 0435** | | Hed O'ahu Solar (Stage I) | AES Distributed Energy LLC | Currently on target to meet original GCOD. | | | 
**KUC 0136** | | Wai'anae Solar (Stage I) | Shireen Energy Group LLC, Global Infrastructure Partners | Currently on target to meet new accelerated GCOD. | | | 
**KUC 0050** | | Kapolei Energy ECHANGE (KOE) (Stage 2) | Puu Power | Currently on target to meet new GCOD. | | | 
**KUC 0035** | | Mountain View Solar (Stage I) | AES Distributed Energy LLC | Currently on target to meet original GCOD. | | | 
**KUC 0040** | | Wai'anae Solar (Stage I) | Shireen Energy Group LLC, Global Infrastructure Partners | Currently on target to meet original GCOD. | | | 
**KUC 0030** | | Ho'omaluhia Solar 1 (Stage I) | Shireen Energy Group LLC, Global Infrastructure Partners | Currently on target to meet original GCOD. | | | 
**KUC 0045** | | Ho'omaluhia Solar 2 (Stage I) | AES Distributed Energy LLC | Currently on target to meet original GCOD. | | | 
**KUC 0020** | | Malea Solar (Stage I) | Longsino Energy | Currently on target to meet original GCOD. | | | 

**KUC 0140**
- Milestones and Next Steps ([F applicable]):
  - 9/12/20: GCOD approved PPA received.
  - 6/30/15: PUC approved accelerated PPA with targeted unit pricing. Pricing ranges from $0.08926/kWh (project achieves the GCOD before 30 days following the GCOD) to $0.1025/kWh if the project achieves commercial operations on or before the new GCOD.

**KUC 0435**
- Milestones and Next Steps ([F applicable]):
  - October-November: Estimate sending assessment to land use (City of Honolulu, State of Hawaii).
  - 6/10: (Original) [Building and Electrical Permit submitted (PPA)]
  - 9/21: Permitting submitted (PPA)

**KUC 0136**
- Milestones and Next Steps ([F applicable]):
  - 9/20–21: PUC approved accelerated PPA.

**KUC 0050**
- Milestones and Next Steps ([F applicable]):
  - 9/20–21: Response to Information Request due (AES)

**KUC 0035**
- Milestones and Next Steps ([F applicable]):
  - 9/15–21: IR Amendment Execution Target (AES and HECO)

**KUC 0030**
- Milestones and Next Steps ([F applicable]):
  - 9/15–21: IR Amendment Execution Target (AES and HECO)

**KUC 0040**
- Milestones and Next Steps ([F applicable]):
  - 9/15–21: IR Amendment Execution Target (AES and HECO)

**KUC 0020**
- Milestones and Next Steps ([F applicable]):
  - 10/15–19: [Building and Electrical Permit submitted (PPA)]

The document appears to be a schedule or detailed report on various solar energy projects, detailing milestones, next steps, and other relevant information. It includes specific dates and actions related to project statuses, permits, and operations. The text is fragmented and seems to be part of a larger document, possibly a report or schedule for energy projects. The content includes references to GCOD (Goals for CO2 Displacement), PPA (Power Purchase Agreements), and other technical terms related to energy generation and infrastructure. The language used is technical and specific to the energy sector.
<table>
<thead>
<tr>
<th>DOE Docket Number and Link</th>
<th>PUC Approved Measure to Replace Generation and Capacity of the Coal Plant</th>
<th>Developer</th>
<th>Project or Task Updates</th>
<th>Milestones and Next Steps</th>
<th>Production Capacity (MW)</th>
<th>Estimated Utility ARP Return Contribution</th>
<th>Guaranteed Commercial Operations Date</th>
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<td>1. Q1 2016: DOE issues revised list of eligible projects in DOE’s draft notice, adds new projects.</td>
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<td><strong>Residential DSM Program</strong></td>
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