

# 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.

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.

## 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.

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

**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 (Updated January 2022)

|                                   |                                     |                             |
|-----------------------------------|-------------------------------------|-----------------------------|
| Green =<br>On Target to Meet GCOD | Yellow =<br>At Risk of Meeting GCOD | Red =<br>Will Not Meet 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.*

| Approved Measures to Replace Generation and Capacity of the Coal Plant | Production Capacity (MW)       | Sept 2022  | Oct 2022 | Nov 2022               | Dec 2022               | Jan 2023 | Feb 2023 | Mar 2023 | Apr 2023 | May 2023         | June 2023    | July 2023 | August 2023 | Sept 2023 | Oct 2023              | Nov 2023 | Dec 2023 | Jan 2024 | Feb 2024 | Mar 2024 | April 2024 | May 2024 | June 2024 | July 2024 | Aug 2024 | Sept 2024 | Oct 2024 | Nov 2024 | Dec 2024               |
|--|--------------------------------|--|----------|------------------------|------------------------|----------|----------|----------|----------|------------------|--------------|-----------|-------------|-----------|-----------------------|----------|----------|----------|----------|----------|------------|----------|-----------|-----------|----------|-----------|----------|----------|------------------------|
| <b>Utility-Scale Projects (Stage 1 and 2)</b>                          |                                |  |          |                        |                        |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| Waiiawa Phase 1 Solar (Stage 1)  | 36                             | Accelerated GCOD 9-30-22   |          | Original COD 12-1-23   | Estimated COD 12-31-22 |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| Kapolei Energy Storage (KES) (Stage 2)                                 | 185 (Storage)                  |  |          |                        | GCOD 12-30-22          |          |          |          |          |                  |              |           |             |           | Estimated COD 6-26-23 |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| AES West O'ahu Solar (Stage 1)   | 12.5                           |  |          |                        |                        |          |          |          |          | New GCOD 1-20-23 |              |           |             |           | Estimated COD 6-20-23 |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| Mountain View Solar (Stage 2)  | 7                              |  |          |                        |                        |          |          |          |          |                  | GCOD 5-17-23 |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| Kūpono Solar   | 42                             |  |          |                        |                        |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| Waiiawa Phase 2 Solar (Stage 2)  | 30                             |  |          |                        |                        |          |          |          |          |                  |              |           |             |           | GCOD 10-30-23         |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| Ho'ohana Solar 1 (Stage 1)   | 52                             |  |          |                        |                        |          |          |          |          |                  |              |           |             |           | GCOD 8-31-23          |          |          |          |          |          |            |          |           |           |          |           |          |          | Estimated COD 10-31-24 |
| <del>Barbers Point Solar</del>   | <del>60</del>                  | Project Declared Null and Void   |          |                        |                        |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| <b>Distributed Energy Resources (DER)</b>                              |                                |  |          |                        |                        |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
|  | 50                             | 10.81MW Approved Amendments    11.11MW Approved Amendments    Program Enrollment Ends Jun-23 |          |                        |                        |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| Palailai Solar 1   | 3                              |  |          | Original GCOD 10-29-22 |                        |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| KHLS   | 1.72                           |  |          |                        | GCOD 12-17-22          |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| Phase 2  | 105 capacity limit             |  |          |                        |                        |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| <b>Energy Efficiency - Public Benefits Fund *</b>                      |                                |  |          |                        |                        |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| General Energy Efficiency Programs for Demand Side Management          | ~ 20 to 22 MW per year         |  |          |                        |                        |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| Hawai'i Energy Power Move Program                                      | ~2-3 MW per year               | Installation by 6-30-23  |          |                        |                        |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |
| Power Move Commercial Battery Storage Rebate Pilot                     | ~ 4 MW see Battery Bonus Count | Installation by 8-31-23  |          |                        |                        |          |          |          |          |                  |              |           |             |           |                       |          |          |          |          |          |            |          |           |           |          |           |          |          |                        |

| PUC Docket Number and Link                          | PUC Approved Measure to Replace Generation and Capacity of the Coal Plant | Production Capacity (MW) | Estimated Utility RPS Percent Contribution | Developer  | Project or Task Update   | Guaranteed Commercial Operations Date   |   |
|---|---|--------------------------|--|--|--|---|---|
| 2021-0024   |   |                          |  |  |  |   |   |
| <a href="#">2018-0434</a>                           | Milliani I Solar (Stage 1)  | 39                       | 1.2  | Clearway Energy Group  | All Construction and Testing Activities Complete - Project Achieved Commercial Operations 7-31-22  | COD 7-31-22   |   |
| <a href="#">2018-0435</a>                           | Waiawa Solar (Stage 1)  | 36                       | 1.2  | Clearway Energy Group LLC; Global Infrastructure Partners                        | <p><b>PPA - Amendment Approved 10-6-21</b></p> <p><b>Engineering/Design - Finalized</b></p> <p><b>Permits and Land Rights - Complete and Secured</b></p> <p><b>Procurement and Delivery - All items delivered</b></p>  | <p><b>Construction - Complete</b></p> <p><b>Hawaiian Telecom Circuit - Completed</b></p> <p><b>Testing</b></p> <ul style="list-style-type: none"> <li>Oct-22: Acceptance Testing commenced 10-17-22 and passed 10-18-22.</li> <li>11-17-22: CSAT commenced (moved up from Feb-23). In final stages of testing, goal to complete before 12-31-22</li> </ul>  | <p>New GCOD 9-30-22</p> <p>Estimated COD 12-31-22</p> |
| <a href="#">2020-0136</a>                           | Kapolei Energy Storage (KES) (Stage 2)                                    | 185 (Storage)            | 0.1  | Plus Power   | <p><b>ESPPA - Approved 4-29-21</b></p> <p><b>Engineering/Design - Complete</b></p> <ul style="list-style-type: none"> <li>Final designs for Storage Facility, Substation, and COIF complete; HECO provided comments. • All final drawings (issued for construction) provided to Hawaiian Electric 11-1-22.</li> </ul> <p><b>Permits - Outstanding</b></p> <ul style="list-style-type: none"> <li>Building permits for BESS (40 total) issued 10-3-22.</li> <li>Building permit (wet-signed) for Substation to be submitted for final issuance delivered 11-2-22.</li> <li>Building Permit for GenTie resubmitted 9-29-22; SAI re-submitted 10-4-22; SAI approved 11-10-22. Courtesy inspection was critical and schedule impact limited to a 10-day delay.</li> </ul> <p><b>Land Rights - Secured</b></p>  | <p><b>Procurement and Delivery</b></p> <ul style="list-style-type: none"> <li>Awaiting delivery for MV transformers and wire conveyance</li> <li>Remote terminal unit (RTU) received was damaged, replacement RTU received however will require rewiring and benchtesting, resulting in 18 day delay in COD.</li> </ul> <p><b>Construction - Ongoing</b></p> <ul style="list-style-type: none"> <li>Grading, grubbing, trenching all completed.</li> <li>Substation underground work commenced.</li> <li>All battery pads have completed concrete pours; BESS ground grid installation complete.</li> <li>All SOIF and COIF foundations completed.</li> <li>GenTie line work commenced after special assignment inspection approval, received 11-10-22.</li> </ul> <p><b>Testing</b></p> <ul style="list-style-type: none"> <li>3-28-23 to 3-21-23: Acceptance Test anticipated (delayed).</li> <li>5-25-23 to 6-22-23: CSAT anticipated (delayed).</li> </ul>  | <p>New GCOD 12-30-22</p> <p>Estimated COD 6-26-23</p> |
| <a href="#">2019-0050</a>                           | West O'ahu Solar (Stage 1)  | 12.5                     | 0.4  | AES West O'ahu Solar, LLC.   | <p><b>PPA - Amendment Conditionally Approved 5-6-22</b></p> <p><b>Engineering/Design - Complete</b></p> <p><b>Permits</b></p> <ul style="list-style-type: none"> <li>Building Permits - outstanding; expected by Dec-22. Hawaiian Electric signed the Building Permits on Dec. 9, 2022. All branches have approved outstanding building permits. AES working to obtain necessary signatures and routing.</li> <li>Special assignment inspection approvals issued 6-20-22, allowing for construction commencement.</li> </ul> <p><b>Land Rights</b></p> <ul style="list-style-type: none"> <li>Easement for COIF required prior to commercial operations; estimated filing date with Land Court - Q4-22.</li> </ul>   | <p><b>Procurement and Delivery - All items delivered</b></p> <ul style="list-style-type: none"> <li>All equipment on site.</li> </ul> <p><b>Construction - Ongoing</b></p> <ul style="list-style-type: none"> <li>Civil work and mass grading - complete for generation facilities and SOIF</li> <li>Generation facilities under construction - screw piles, racking, solar panels, inverter installation, BESS foundations are 100% complete.</li> <li>Trenching, cable installation, and fencing underway for generation facilities.</li> <li>Transmission line work to begin in Dec-22.</li> </ul> <p><b>Testing</b></p> <ul style="list-style-type: none"> <li>3-23-23 to 4-17-23: Acceptance Test anticipated (delayed since prior month)</li> <li>4-18-23 to 5-17-23: CSAT anticipated (delayed since prior month)</li> </ul>   | <p>New GCOD 1-20-23</p> <p>Estimated COD 6-20-23</p>  |
| <a href="#">2020-0139</a>                           | Mountain View Solar (Stage 2)   | 7                        | 0.3  | AES Mountain View Solar, LLC.  | <p><b>PPA - Approved 5-25-21</b></p> <p><b>Overhead Line (OHL) PUC Approval - Approved</b></p> <p><b>Engineering/Design</b></p> <ul style="list-style-type: none"> <li>90% design complete for generation facility, 90% design for Step up substation, and COIF undergoing Hawaiian Electric review.</li> <li>Engineering and redesigns have delayed the project a total of 4 months.</li> </ul> <p><b>Permits</b></p> <ul style="list-style-type: none"> <li>4-13-22: HICRIS submittal to SHPD, awaiting HRS 6E Determination expected Oct-22. (DLNR-SHPD). Update Nov. 22 no determination received to date.</li> <li>Mar 22: Grading permit application circulated for final signatures,</li> <li>Jul 22: Building and Electrical Permits submitted to DPP; issuance pending SHPD determination letter.</li> </ul>  | <p><b>Land Rights - Complete</b></p> <ul style="list-style-type: none"> <li>COIF/SOIF easement and right of entry - completed; blanket easement to remain in place for the life of the project.</li> </ul> <p><b>Procurement and Delivery</b></p> <ul style="list-style-type: none"> <li>Estimated arrival date of equipment; majority arriving Mar to Aug 23.</li> <li>All equipment ordered.</li> </ul> <p><b>Construction</b></p> <ul style="list-style-type: none"> <li>Construction anticipated to start Feb-23.</li> <li>AES missed 4th Reporting Milestone (begin construction by 9-28-22), but is working on remedial action tasks identified by HECO.</li> </ul> <p><b>Testing</b></p> <ul style="list-style-type: none"> <li>Oct 23: Acceptance test scheduled to start.</li> <li>Dec 23: CSAT scheduled to start.</li> </ul>   | <p>GCOD 5-17-23</p> <p>Estimated COD 1-17-24</p>      |
| <a href="#">2022-0007</a>                           | Kūpono Solar  | 42                       | 0.85                                       | Bright Canyon Energy and Ameresco  | <p><b>PPA - Amendment Submitted</b></p> <ul style="list-style-type: none"> <li>PPA amendment executed 9-30-22; filed with the PUC on 11-3-22.</li> </ul> <p><b>Overhead Line Approval - Outstanding</b></p> <ul style="list-style-type: none"> <li>11-3-22: OHL extension application was filed with PUC</li> <li>11-30-22: Procedural order established for OHL approval</li> </ul> <p><b>Engineering and Design</b></p> <ul style="list-style-type: none"> <li>Generation facility IFC set complete Nov-22. Step up substation expected Feb-23.</li> <li>COIF 90% design in progress, Telecom COIF 60% design in progress, remote work 30% design.</li> </ul>  | <p><b>Permits</b></p> <ul style="list-style-type: none"> <li>Project on federal land, therefore many permits not required.</li> <li>NPDES permits issued 9-15-22.</li> </ul> <p><b>Procurement</b></p> <ul style="list-style-type: none"> <li>Most equipment ordered with expected arrival dates Q1-Q2 23. No impacts from solar tariffs because panels produced in US.</li> </ul> <p><b>Land Rights - Secured</b></p> <p><b>Construction</b></p> <ul style="list-style-type: none"> <li>Began Oct-23, ongoing.</li> <li>BCE/Ameresco held groundbreaking ceremony 10-7-22.</li> </ul>  | <p>GCOD 4-9-24</p>                                    |
| <a href="#">2020-0137</a>                           | Waiawa Phase 2 Solar (Stage 2)  | 30                       | 1.2  | Waiawa Phase 2 Solar, LLC. (AES)   | <p><b>PPA - Approved by PUC 12-30-20.</b></p> <ul style="list-style-type: none"> <li>AES notified Hawaiian Electric that they may amend the PPA with regards to both the price and it's GCOD. Hawaiian Electric reviewing notice.</li> </ul> <p><b>Engineering/Design</b></p> <ul style="list-style-type: none"> <li>Identified risks include line extension conflicts with Waiawa Stage 1 project and need for breaker replacement (system work) at Waiawa substation</li> <li>AES began 90% design for Generation facility, step up substation, and COIF</li> </ul> <p><b>Overhead Line Approval - Issued by PUC 9-2-22</b></p> <p><b>Permits</b></p> <ul style="list-style-type: none"> <li>6-17-22: CUP minor submitted to DPP; ETA Dec-22</li> <li>7-8-22 and 7-12-22: Building and Grading permits submitted to DPP, awaiting permits.</li> <li>8-10-22: NPDES permit issued</li> </ul>  | <p><b>Land Rights</b></p> <ul style="list-style-type: none"> <li>Executing agreement for right of entry for COIF and SOIF; expected Dec-22</li> </ul> <p><b>Procurement and Delivery</b></p> <ul style="list-style-type: none"> <li>Procurement of substation equipment and BESS container are pushing out construction completion.</li> <li>Majority of equipment arrival Jun to Jul-23</li> <li>All equipment ordered</li> </ul> <p><b>Construction</b></p> <ul style="list-style-type: none"> <li>Construction anticipated to start Feb-23</li> </ul> <p><b>Testing</b></p> <ul style="list-style-type: none"> <li>Acceptance test scheduled to start Dec-23</li> <li>CSAT scheduled to start May-24</li> </ul>  | <p>GCOD 10-30-23</p> <p>COD 6-25-24</p>               |
| <a href="#">2018-0431</a>                           | Ho'ohana Solar 1 (Stage 1)  | 52                       | 1.4  | 174 Power Global, (Hanwha Energy Corporation; Forest City Sustainable Resources) | <p><b>PPA Amendment</b></p> <ul style="list-style-type: none"> <li>174PG and HECO currently negotiating a 3rd PPA Amendment including revised pricing, extensions to the GCOD, and changes to the PPA. Hawaiian Electric and 174PG continuing to discuss non-price provisions in an effort to expedite the process.</li> </ul> <p><b>Engineering/Design</b></p> <ul style="list-style-type: none"> <li>174PG and HECO are working out details of updated SIS with new BESS inverter manufacturer due to production discontinuity of planned BESS inverter. IRS restudy is underway.</li> <li>90% design for generation facility expected by 6-15-22.</li> <li>100% design for COIF sent 5-9-22, under Hawaiian Electric review. Target to issue final stamped IFC 1-17-23.</li> </ul> <p><b>Land Rights</b></p> <ul style="list-style-type: none"> <li>Engineering ROE received 9-9-22.</li> <li>COIF/SOIF ROE expected 1-16-23.</li> </ul> <p><b>Permits</b></p> <ul style="list-style-type: none"> <li>Courtesy inspections for substation building permit issued. Estimated to receive permit Q1-23</li> <li>SAI application for switchyard building permit submitted Oct. 22. Estimated to receive permit Q1-23.</li> <li>SAI application for Solar/Battery building permit to be submitted Dec. 22</li> </ul> | <p><b>Procurement and Delivery</b></p> <ul style="list-style-type: none"> <li>Nov-22: Estimated arrival of inverters and racking</li> <li>Dec-22: Estimated arrival of GSU transformer</li> <li>Feb-23 to Aug-23: Arrival of modules and control building.</li> <li>Dec-23: Estimated arrival of energy storage (critical path).</li> </ul> <p><b>Construction - Ongoing</b></p> <ul style="list-style-type: none"> <li>Site clearing and site mobilization began 3-31-22.</li> <li>Construction financing milestone met 8-1-22.</li> <li>Remote work for Kahe and Halawa substations expected to be done Mar-23.</li> <li>Wai'au-Mililani 46kV line relocation work in progress; expected to be done Dec-22.</li> <li>46kV pole and underground structure construction target to complete 11-3-22.</li> <li>Kahe Wai'au Underground to start construction 11-11-22, target to complete 4-4-23.</li> </ul> <p><b>Testing</b></p> <ul style="list-style-type: none"> <li>Acceptance Test scheduled for 10-18-23 to 11-16-23.</li> <li>CSAT scheduled for 8-14-24 to 10-15-24.</li> </ul> | <p>GCOD 8-31-23</p> <p>Estimated COD 10-31-24</p>     |
| <a href="#">2020-0143</a>                           | Barbers Point Solar   | 60 (N/A)                 |  | Innervex   | Project Declared Null and Void November 2022   | N/A   |   |
| Sum All Projects (not including standalone battery) |   | 218.5                    | 6.65                                       |  |  |   |   |

| PUC Docket Number and Link | PUC Approved Measure to Replace Generation and Capacity of the Coal Plant      | Production Capacity (MW)   | Estimated Utility RPS Percent Contribution | Developer | Project or Task Update   | Guaranteed Commercial Operations Date   |                                  |
|----------------------------|--|--|--|-----------|--|---|----------------------------------|
| 2019-0323                  | Distributed Energy   |  |  |           |  |   |                                  |
|                            | Battery Bonus Program  | 50   |  |           | <p>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 generators to install battery storage for existing or added photovoltaic systems. New battery systems will discharge on a scheduled basis during peak hours.</p> <ul style="list-style-type: none"> <li>• Work with stakeholders to develop strategy to ensure timely permitting and interconnection is ongoing.</li> <li>• 7-19-21: Battery Bonus program officially announced by HECO.</li> <li>• Oct TF Update: 2,071 approved application as of 10-24-22, represents committed capacity of 11.11MW, and increase of 146 systems and an increase of 300kW.</li> <li>• Nov TF Update: 2,362 approved applications as of 11-22-22, represents committed capacity of 12.88MW and an increase of 291 systems and an increase of 1.77MW since last month.</li> </ul> | June 2023 Program Enrollment Ends   |                                  |
| 2015-0389                  | Community-Based  |  |  |           |  |   |                                  |
| <a href="#">2015-0389</a>  | Palailai Solar 1 - Phase 1   | 3  |  |           | <p><b>Engineering</b></p> <ul style="list-style-type: none"> <li>• 90% Engineering/ Design review completed by Hawaiian Electric, Hawaiian Electric provided comments on 6-20-22.</li> </ul> <p><b>Permits</b></p> <ul style="list-style-type: none"> <li>• Building Permit anticipated Jan-22, was not received waiting on permits to begin construction. No estimate from seller on when permits will be received.</li> <li>• Electrical review of building permits commenced 6-3-22.</li> <li>• Estimated 1-2 month delay anticipated due to additional review required for remaining permits from DPP.</li> </ul> <p><b>Procurement</b></p> <ul style="list-style-type: none"> <li>• PV Panels and Racking - received onsite.</li> <li>• Remaining equipment to arrive onsite by end of 2022.</li> </ul>   | <p><b>Construction</b></p> <ul style="list-style-type: none"> <li>• Construction started Sept-22.</li> </ul> <p><b>Testing</b></p> <ul style="list-style-type: none"> <li>• Acceptance test anticipated Feb-23</li> <li>• CSAT anticipated Apr-May 23</li> </ul> <p><b>CBRE Contract</b></p> <ul style="list-style-type: none"> <li>• On 4-4-22 Hawaiian Electric and Tritium (seller) agreed to extend the GCOD to 1-27-23 from the original GCOD of 10-29-22.</li> </ul>                                    | New GCOD 1-27-23<br>COD May 2023 |
| <a href="#">2015-0389</a>  | KHLS - Phase 1   | 1.72   |  |           | <p><b>Engineering/Design</b></p> <ul style="list-style-type: none"> <li>• 60% Design in progress for generation facility, step-up substation, COIF in progress.</li> <li>• 0% design complete for distribution line, telecom, and remote work.</li> <li>• Engineering teams are hired.</li> </ul> <p><b>Permits</b></p> <ul style="list-style-type: none"> <li>• All discretionary permits received.</li> <li>• Jul-22: Estimated submittal date of building, stockpiling, and grading permits (KHLS). Anticipated to receive Nov-22.</li> </ul>   | <p><b>Procurement</b></p> <ul style="list-style-type: none"> <li>• Estimated order dates from Seller: May to Aug-22, arrival dates estimated Q4-22 to Q1-23.</li> <li>• Company to order Revenue Meter, estimated arrival Q3 2022.</li> </ul> <p><b>Construction</b></p> <ul style="list-style-type: none"> <li>• Estimated to start Q1-23.</li> </ul> <p><b>Testing</b></p> <ul style="list-style-type: none"> <li>• Acceptance Test Anticipated Aug-23.</li> <li>• CSAT Test Anticipated Sep-23.</li> </ul> | GCOD 12-17-22<br>COD Sept-23     |
|                            | Phase 2  | 105 capacity limit   | TBD  |           | <ul style="list-style-type: none"> <li>• Capacity limit is 105 MW for Oahu. Hawaiian Electric has application capacities of 75 MW Large Projects, 15 MW Small Projects, with one (1) minimum 1 uncapped Project.</li> <li>• 2-23-22: Hawaiian Electric filed its final CBRE RFPs and Rule 29 tariffs. Shall be automatically approved 15 days after filing date, or by 3-10-22, unless the Commission orders otherwise.</li> <li>• 3-17-22 Hawaiian Electric officially announced opening of the Request for Proposals for CBRE Projects with Low- and Moderate-Income subscribers for Oahu.</li> <li>• 4-14-22: RFP for Tranche 1 and LMI is opened.</li> <li>• 11-22-22: Hawaiian Electric selected one project for LMI subscribers on Oahu. Tranche 1 applications under review.</li> </ul>   |   |                                  |
| 2007-0323                  | Energy Efficiency -  |  |  |           |  |   |                                  |
|                            | General Energy Efficiency Programs for Demand Side Management                  | Average Total Reduction of 20 to 22 MW per year                                  | N/A – Energy Efficiency                    |           | <ul style="list-style-type: none"> <li>• Docket includes energy efficiency measures that serve to decrease electricity sales and defer or decrease the need for plant investment.</li> <li>• The number shown in the next column indicates the estimated decrease in required production capacity that can be achieved through energy efficiency programs and demand side management.</li> <li>• This measure is administered through a third party, Hawaii Energy.</li> </ul>   | Ongoing   |                                  |
|                            | Hawai'i Energy Power Move Program  | 2-3 MW per year  | N/A – Energy Efficiency                    |           | <ul style="list-style-type: none"> <li>• In preparation for the retirement of the AES coal plant on O'ahu in September 2022, Hawai'i Energy introduced the Power Move program which consists of incentives for certain measures that reduce load during the utility peak hours of 5:00 to 9:00 p.m., program will result in collective demand savings. Rebate incentives average 20% higher than standard Hawaii Energy custom rebates.</li> <li>• May TF Update: 34 projects enrolled with a total of 600-700kW peak demand reduction.</li> <li>• June TF Update: 45 projects enrolled with a total of 720 kW peak demand reduction.</li> <li>• Program seeks to increase the energy efficiency of eligible commercial customers with exterior lighting, large scale HVAC, transformers, industrial refrigeration , and other large scale equipment operating during the utility peak.</li> </ul>   | Installation by 6-30-23   |                                  |
|                            | Power Move - Commercial Battery Storage Rebate Pilot                           | Reflected in Battery Bonus Count Above - estimated 4 MW March 2022 – August 2023 | N/A – Energy Efficiency                    |           | <ul style="list-style-type: none"> <li>• New to the efficiency portfolio, commercial energy storage projects under Power Move will not only help to shift load during evening peak (5p.m.- 9 p.m.) but also help to help inform future DR readiness and grid flexibility programs in order to meet our clean energy and decarbonization goals.</li> <li>• The goal is to offer near-term incentives to boost participation in HECO's DER programs or rate offerings, or support the rollout of emergency demand response initiatives with targeted incentives.</li> <li>• This rebate will be available for commercial battery storage installed starting in March 2022 through August 2023.</li> <li>• May TF Update: No applications yet, although there are few leads on data centers.</li> <li>• June TF Update: Two applications submitted representing 255 kW.</li> </ul>  | Installation by 8-31-23   |                                  |
| 2018-0163                  | Microgrid Services Tariff*   |  |  |           |  |   |                                  |
|                            |  | TBD  | TBD  |           | <ul style="list-style-type: none"> <li>• PUC issued Decision and Order approving microgrid tariff 5-17-21.</li> <li>• HECO submitted microgrid tariff 5-27-21; the Microgrid Services Tariff is intended to encourage and facilitate the development and use of new microgrids throughout Hawai'i, with the exception of Kaua'i.</li> <li>• A microgrid is 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 "grid connected mode", or can disconnect to operate in "island mode".</li> </ul>   |   |                                  |
| 2017-0352                  | O'ahu Grid Services  |  |  |           |  |   |                                  |
|                            |  | 60   | TBD  |           | <ul style="list-style-type: none"> <li>• RFP seeks customer sited grid services through a competitive bid request for proposals (RFP). The RFP seeks proposals that include the delivery of Capacity Reduction Grid Service, but proposals that include fast frequency response or capacity build bundled in their proposal will also be considered</li> <li>• 8-3-21 - PUC approved, with modifications, the HECO proposed RFP for 60 MW of grid services on the island of Oahu.</li> </ul>   |   |                                  |
| 2014-0135                  | Green Infrastructure Loan Program- Green Energy Market Securitization (GEMS) * |  |  |           |  |   |                                  |
|                            |  | TBD  | TBD  |           | <ul style="list-style-type: none"> <li>• Leverages public-private capital to deploy clean energy infrastructure that will contribute towards Hawaii's pursuit of its statutory 100% clean energy goals by 2045 while helping ratepayers lower their energy costs.</li> <li>• 8-10-21: PUC establishes procedural schedule to review the Green Infrastructure Loan Program</li> <li>• Hawaii Green Infrastructure Authority agrees to include the number and value of loans made to finance purchase options and the number and value of loans to finance EVs and EV charging stations and principal repaid into the State Revolving Fund in the quarterly report.</li> </ul>   |   |                                  |
| 2007-0341                  | Demand Side Management (DSM)   |  |  |           |  |   |                                  |
|                            |  | TBD  | TBD  |           | <ul style="list-style-type: none"> <li>• Programs that incentivize residential, commercial, and industrial energy savings through rate schedules. DSM programs generally consist of the planning, implementing, and monitoring activities of electric utilities which are designed to encourage consumers to modify their level and pattern of electricity usage. Docket includes tariffs and prices to encourage lower consumption</li> </ul>   |   |                                  |

\* 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 replace the coal plant and meet renewable energy goals. Measures may be brought to the Task Force should the need arise.