

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 = On Target to Meet GCOD	Yellow = At Risk of Meeting GCOD	Red = Will Not Meet GCOD
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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)	July 2022	Aug 2022	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									
Utility-Scale Projects (Stage 1 and 2)																																								
Milliani I Solar (Stage 1)	39	Accelerated GCOD 7-31-22 PROJECT ENERGIZED!																																						
Waiawa Phase 1 Solar (Stage 1)	36			Accelerated GCOD 9-30-22	Original Non-Accelerated GCOD 12-1-22					Estimated COD 3-14-23																														
Kapolei Energy Storage (KES) (Stage 2)	185 (Storage)	Building permits - special inspection approval issued Gen-Tie Permit Outstanding							GCOD 12-30-22				Estimated COD 5-29-23																											
AES West O'ahu Solar (Stage 1)	12.5								New GCOD 1-20-23				Estimated COD 6-5-23																											
Mountain View Solar (Stage 2)	7											GCOD 5-17-23						COD 12-26-23																						
Ho'ohana Solar 1 (Stage 1)	52													GCOD 8-31-23						Estimated COD 3-4-24																				
Kūpono Solar	42																							GCOD 4-9-24	Estimated COD 4-9-24															
Waiawa Phase 2 Solar (Stage 2)	30																		GCOD 10-30-23						COD 4-8-24															
Barbers Point Solar	60																		Jul-23: Estimated Construction Start Date					Original GCOD 12-29-23											Estimated COD 12-23-24					
Distributed Energy Resources (DER)																																								
	50	7-22-22 8.08MW	8-22-22 9.37MW	9-27-22 10.81MW	Program Enrollment Ends Jun-23																																			
		2.02MW operational	2.89MW operational	3.64MW operational																																				
Palailai Solar 1	3			Original GCOD 10-29-22			New Revised GCOD 1-27-23					COD April 2023																												
KHLS	1.72			GCOD 12-17-22								COD Estimate Aug 2023																												
Phase 2	105 capacity limit																																							
Energy Efficiency - Public Benefits Fund *																																								
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	Developer	Project or Task Update	Production Capacity (MW)	Estimated Utility RPS Percent Contribution	Guaranteed Commercial Operations Date	
2021-0024							
2018-0434	Mililani I Solar (Stage 1)	Clearway Energy Group	All Construction and Testing Activities Complete - Project Achieved Commercial Operations 7-31-22		39	1.2	COD 7-31-22
2018-0435	Waiawa Solar (Stage 1)	Clearway Energy Group LLC; Global Infrastructure Partners	<p><u>Engineering/Design - Finalized</u></p> <p><u>Permits and Land Rights - Complete and Secured</u></p> <p><u>Procurement and Delivery - All items delivered</u></p> <p><u>Construction - Complete</u></p>	<p><u>Hawaiian Telecom Circuit - Completed</u></p> <p><u>Testing</u></p> <ul style="list-style-type: none"> Oct-22: Acceptance Testing to start Feb-23: CSAT projected to start, delayed by push back of Acceptance Test. 	36	1.2	New GCOD 9-30-22 Estimated COD 3-14-23
2020-0136	Kapolei Energy Storage (KES) (Stage 2)	Plus Power	<p><u>Engineering/Design</u></p> <ul style="list-style-type: none"> 90% design complete for Storage Facility, Substation, and COIF complete. <p><u>Permits - Outstanding</u></p> <ul style="list-style-type: none"> Building permits for BESS (40 total), approved to issue, Jul-22: Special assignment inspection approved for BESS. Building permit for substation, special assignment inspection approved. Awaiting permit issuance Building Permit for GenTie was rejected do to inadequate drawings. GenTie special assignment inspection denied. KES to resubmit updated drawings end of Sept. <p><u>Land Rights - Secured</u></p>	<p><u>Procurement and Delivery</u></p> <ul style="list-style-type: none"> Anticipated arrival Energy Storage and Inverters 7-6-22 to 12-27-22. 99 batteries received onsite. <p><u>Construction - Ongoing</u></p> <ul style="list-style-type: none"> Grading, grubbing, trenching all completed. Substation underground work commenced. All battery pads have completed concrete pours. Transmission line work cannot commence until permit or special inspection approval for GenTie is approved. <p><u>Testing</u></p> <ul style="list-style-type: none"> 2-15-23 to 3-1-23: Acceptance Test anticipated. 4-21-23 to 5-29-23: CSAT anticipated. 	185 (Storage)	0.1	New GCOD 12-30-22 Estimated COD 5-29-23
2019-0050	West O'ahu Solar (Stage 1)	AES West O'ahu Solar, LLC.	<p><u>Engineering/Design - Complete</u></p> <p><u>Permits</u></p> <ul style="list-style-type: none"> Building Permits - outstanding Special assignment inspection approvals issued 6-20-22 Review for the eight (8) permits remaining completed branch reviews. AES working to obtain necessary signatures and routing including approval by Hawaiian Electric for final submittal to DPP. <p><u>Land Rights</u></p> <p>Easement for COIF required prior to commercial operations. Estimated filing date with Land Court - Q4-22.</p>	<p><u>Procurement and Delivery</u></p> <ul style="list-style-type: none"> Aug 22: All BESS components, batteries, and circuit breakers on island Sept 22: Racking 100% delivered to site, GSU transformers on island Oct 22: Remaining PV panels anticipated to arrive. Dec 22 - Jan 23: Current and voltage transformers expected delivery Jan 23: Control building arrival <p><u>Construction - Ongoing</u></p> <ul style="list-style-type: none"> Civil work and site clearing for generation and interconnection facilities commenced. Mass grading activities at 100% completion. Generation facilities under construction - Racking approximately 79% complete, solar panels undergoing installation. Remote and inter-dependent system work completed. <p><u>Testing</u></p> <ul style="list-style-type: none"> Acceptance Test scheduled to start Mar 23. CSAT scheduled to start Apr 23. 	12.5	0.4	New GCOD 1-20-23 Estimated COD 6-5-23
2020-0139	Mountain View Solar (Stage 2)	AES Mountain View Solar, LLC.	<p><u>Engineering/Design</u></p> <ul style="list-style-type: none"> AES began 90% design for Generation facility, step up substation, and COIF. End of Dec 22: Engineering and design expected to conclude. Engineering and redesigns have delayed the project a total of nearly 4 months. <p><u>Overhead Line Approval / Interconnection and Design - Awaiting PUC D&O</u></p> <ul style="list-style-type: none"> AES requested that Hawaiian Electric delay overhead line approval to allow for further community engagement and incorporation of feedback. Hawaiian Electric filed 46kV line extension application with the Commission on 5-19-22 and accompanying greenhouse gas analysis on 6-14-22. <p><u>Permits</u></p> <ul style="list-style-type: none"> 4-13-22: HICRIS submittal to SHPD, awaiting HRS 6E Determination. (DLNR-SHPD) Mar 22: Grading permit application submitted for Plan Review in Mar-22. One round of comments received. AES addressing comments. Jul 22: Building and Electrical Permits submitted to DPP. Awaiting comments from DPP zoning branch. 	<p><u>Land Rights - Complete (updated since last month)</u></p> <ul style="list-style-type: none"> COIF/SOIF easement and right of entry - completed. Blanket easement to remain in place for the life of the project. <p><u>Procurement and Delivery</u></p> <ul style="list-style-type: none"> Q4-22 to Q2-23: Estimated arrival date of equipment. Majority arriving Mar to Apr 23. Oct-22: All equipment to be ordered. <p><u>Construction</u></p> <ul style="list-style-type: none"> Construction anticipated to start Dec-22. <p><u>Testing (slipped since last month)</u></p> <ul style="list-style-type: none"> Sept 23: Acceptance test scheduled to start. Dec 23: CSAT scheduled to start. 	7	0.3	GCOD 5-17-23 Estimated COD 12-26-23
2018-0431	Hai'ohana Solar 1 (Stage 1)	174 Power Global; (Hanwha Energy Corporation; Forest City Sustainable Resources)	<p><u>Engineering/Design</u></p> <ul style="list-style-type: none"> Project seeing habitual slippage in engineering 60-90% design packages for generation facility, switchyard, step up substation, and company owned interconnection facilities. 90% design for generation facility expected by 6-15-22 100% design for COIF sent 5-9-22, under Hawaiian Electric review BESS inverter manufacturer will change, working with Hawaiian Electric to submit redesign. Wai'au-Mililani 46kV line relocation project to be completed by Sept-22. <p><u>Overhead Line Approved</u></p> <ul style="list-style-type: none"> Kahe-Wai'au 138 kV UG/OH relocation was filed with PUC on 6-18-21 (PUC Docket 2021-0086), approved by the Commission 6-27-22. <p><u>PPA Amendment</u></p> <ul style="list-style-type: none"> 174PG provided information regarding a possible amendment to the PPA, including a revised price and GCOD, among other things, on July 8, 2022. Both the Company and Seller are discussing. <p><u>Land Rights</u></p> <ul style="list-style-type: none"> Sept 22: Anticipated execution date for Right of Entry from 174PG and landowner 	<p><u>Permits</u></p> <ul style="list-style-type: none"> Grading and NPDES permits complete 5-12-22: Substation building permit submitted estimated receipt Sept 22. Special courtesy inspection issued by DPP. Seller can begin construction. Switchyard building permit, 174PG to submit application for special courtesy inspection when 3rd party reviewer completes comments on electrical and structural drawings. <p><u>Procurement and Delivery</u></p> <ul style="list-style-type: none"> Sep-22: Estimated arrival of racking. Oct-22: Estimated arrival of PV modules, control building, GSU transformer, circuit breakers, instrument transformers. Nov-22: Estimated arrival of invertors Feb-23: Estimated arrival of energy storage. <p><u>Construction - Ongoing</u></p> <ul style="list-style-type: none"> Site clearing and site mobilization began 3-31-22. Construction financing milestone met 8-1-22. <p><u>Testing</u></p> <ul style="list-style-type: none"> Acceptance Test scheduled for 5-16-23 to 6-14-23. CSAT scheduled for 1-3-23 to 3-4-24. 	52	1.4	GCOD 8-31-23 Estimated COD 3-4-24
2020-0143	Barbers Point Solar	Innergex	<p><u>PPA</u></p> <ul style="list-style-type: none"> Approved by the PUC 3-23-22 Innergex indicated that due to delays, price increases caused by COVID 19, the ongoing supply chain crisis, changing market conditions, and impacts to financing, it is unable to move forward with its project as planned PPA Termination Deadline and PPA Amendment extended to October 21, 2022 via a letter agreement so Parties can continue the pricing proposal discussions. <p><u>OH Line Approval - Not Yet Submitted</u></p> <ul style="list-style-type: none"> OH line application to the PUC, not yet submitted. Innergex is in the process of preparing inputs requested by HECO. <p><u>Engineering and Design</u></p> <ul style="list-style-type: none"> Generation facility 30% design completed. Design work on revised layout that incorporates changes in equipment is underway. SOIF Step up substation, COIF, and COIF transmission line: 30% design complete. Innergex is currently working on 60% design with anticipated submittal date end of Sept 2022 Remote work: 60% design in progress. 	<p><u>Permits</u></p> <ul style="list-style-type: none"> SHPD 6E Historic preservation review - In Progress: 8-10-22 SHPD completed review of Updated Draft AIS (HICRIS 2020PR33014) and draft mitigation plans (AMP, DRP, PP). Final revisions by Innergex being made to supports concurrence of the AIS and mitigation plans DOT-HWY (Transmission Line & Collector Line) use and occupancy agreement / permit to perform work - In Progress: Obtained Conditional Letter for Use and Occupancy Agreement. HDOT reviewing 30% design. DOT-HWY (Driveways) use and occupancy agreement / permit to perform work - In Progress: 30% design in progress. HCDA - Conditional Use Permit - Draft application submitted April; ongoing discussions between DHHL, HCDA and Innergex DOH NPDES permit: Contractor to obtain prior to construction (target permit Q2 2023) DPP Grading, Building and Electrical permits: Contractor to obtain prior to construction (target permit Q2 23) <p><u>Procurement and Delivery</u></p> <ul style="list-style-type: none"> PV Panels, Inverters, Racking, Modules and Energy Storage ordered and arrival dates TBD due to ongoing Force Majeure issues. GSU transformer est. arrival Q2-23 Circuit breakers, current and voltage transformers, control building - order and arrival TBD. <p><u>Construction</u></p> <ul style="list-style-type: none"> Jul 23 estimated start date for Gen facility, SOIF, and COIF. 	60	0.4	Original GCOD 12-29-23 COD 12-24-24
2020-0137	Waiawa Phase 2 Solar (Stage 2)	Waiawa Phase 2 Solar, LLC. (AES)	<p><u>Engineering/Design</u></p> <ul style="list-style-type: none"> Identified risks include line extension conflicts with Waiawa Stage 1 project and need for breaker replacement (system work) at Waiawa substation. AES began 90% design for Generation facility, step up substation, and COIF. Wanted preliminary comments from DPP, but did not receive. <p><u>Overhead Line Approval - Issued 9-2-22</u></p> <ul style="list-style-type: none"> Hawaiian Electric submitted overhead line approval on 3-24-22. 6-17-22: Hawaiian Electric notified PUC that docket ready for decision making. 9-2-22: PUC approved 46kV overhead line construction. 	<p><u>Permits</u></p> <ul style="list-style-type: none"> 6-17-22: CUP minor submitted to DPP. 7-12-22: Building and Grading permits submitted to DPP. 7-25-22: NPDES permit submitted to DOH. <p><u>Procurement and Delivery</u></p> <ul style="list-style-type: none"> Majority of equipment arrival Jun to Jul 23. PV panels, inverters, GSU transformers - ordered. Majority of equipment to be ordered Aug to Oct 22. <p><u>Construction</u></p> <ul style="list-style-type: none"> Construction anticipated to start Jan 23 <p><u>Testing</u></p> <ul style="list-style-type: none"> Acceptance test scheduled to start Nov 23 CSAT scheduled to start Apr 24 	30	1.2	GCOD 10-30-23 COD 4-8-24
2022-0007	Kūpono Solar	Bright Canyon Energy and Ameresco	<p><u>PPA</u></p> <ul style="list-style-type: none"> PPA approved by the PUC 7-22-22. Overhead Line application outstanding, HECO, Bright Canyon, and Ameresco gathering information for application 30% design submitted 6-13-22. Interconnection requirements study (IRS) PPA amendment deadline extended to 9-30-22 to incorporate equipment selection and updated detailed project schedule. <p><u>Engineering and Design</u></p> <ul style="list-style-type: none"> Generation facility and step up substation IFC set expected Nov-22 and Jan-23 respectively, COIF 60% design submitted 9-15-22, Telecom COIF 60% design in progress 	<p><u>Permits</u></p> <ul style="list-style-type: none"> Project on federal land many permits not required. NPDES permits issues 9-15-22 <p><u>Procurement</u></p> <ul style="list-style-type: none"> Most equipment ordered with expected arrival dates Q1-Q2 23 <p><u>Construction</u></p> <ul style="list-style-type: none"> Anticipated to begin Nov-23 	42	0.85	GCOD 4-9-24
Sum Online Before Coal Plant Retirement Based on Current GCOD				39			
Sum All Projects (not including standalone battery)				278.5			

Powering Past Coal Task Force - Master Schedule Detailed



PUC Docket Number and Link	PUC Approved Measure to Replace Generation and Capacity of the Coal Plant	Developer	Project or Task Update	Production Capacity (MW)	Estimated Utility RPS Percent Contribution	Guaranteed Commercial Operations Date
2019-0323 Distributed Energy Resources (DER)						
	Battery Bonus Program		<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"> Work with stakeholders to develop strategy to ensure timely permitting and interconnection is ongoing. 7-19-21: Battery Bonus program officially announced by HECO. August TF Update: 1,711 approved applications as of 8-24-22, represents committed capacity of 9.37MW, and increase of 202 systems and an increase of 1.29MW. 2.89MW and 495 systems confirmed in operation. Sept TF Update: 1,925 approved application as 9-27-22, represents committed capacity of 10.81MW, and an increase of 214 systems and an increase of 1.4MW. 3.64MW and 609 projects confirmed in operation. 	50	-	June 2023 Program Enrollment Ends
2015-0389 Community-Based Renewable Energy (CBRE) - Shared Solar						
2015-0389	Palalail Solar 1 - Phase 1		<p>Engineering</p> <ul style="list-style-type: none"> 90% Engineering/ Design review completed by Hawaiian Electric, Hawaiian Electric provided comments on 6-20-22. <p>Permits</p> <ul style="list-style-type: none"> Building Permit anticipated Jan-22, was not received waiting on permits to begin construction. No estimate from seller on when permits will be received. Electrical review of building permits commenced 6-3-22. Estimated 1-2 month delay anticipated due to additional review required for remaining permits from DPP. <p>Procurement</p> <ul style="list-style-type: none"> PV Panels - 50% arrived Dec-21. Equipment anticipated to arrive Q1 to Q3-22. Items delayed due to review time for remaining permits. 	3		<p>New GCOD 1-27-23</p> <p>COD April 2023</p>
2015-0389	KHLS - Phase 1		<p>Engineering/Design</p> <ul style="list-style-type: none"> 30% Design in progress for generation facility, step-up substation, COIF. 0% design complete for distribution line, telecom, and remote work. Engineering teams are hired. <p>Permits</p> <ul style="list-style-type: none"> All discretionary permits received. Jul-22: Estimated submittal date of building, stockpiling, and grading permits (KHLS). Anticipated to receive Nov-22. 	1.72		<p>GCOD 12-17-22</p> <p>COD Aug-23</p>
	Phase 2		<ul style="list-style-type: none"> 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. 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. 3-17-22 Hawaiian Electric officially announced opening of the Request for Proposals for CBRE Projects with Low- and Moderate-Income subscribers for Oahu. 4-14-22: RFP for Tranche 1 and LMI is open and accepting applications. 	105 capacity limit	TBD	
2007-0323 Energy Efficiency - Public Benefits Fund						
	General Energy Efficiency Programs for Demand Side Management		<ul style="list-style-type: none"> Docket includes energy efficiency measures that serve to decrease electricity sales and defer or decrease the need for plant investment. 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. This measure is administered through a third party, Hawaii Energy. 	Average Total Reduction of 20 to 22 MW per year	N/A – Energy Efficiency	Ongoing
	Hawai'i Energy Power Move Program		<ul style="list-style-type: none"> 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 Hawai'i Energy custom rebates. May TF Update: 34 projects enrolled with a total of 600-700kW peak demand reduction. June TF Update: 45 projects enrolled with a total of 720 kW peak demand reduction. 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. 	2-3 MW per year	N/A – Energy Efficiency	Installation by 6-30-23
	Power Move - Commercial Battery Storage Rebate Pilot		<ul style="list-style-type: none"> 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. 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. This rebate will be available for commercial battery storage installed starting in March 2022 through August 2023. May TF Update: No applications yet, although there are few leads on data centers. June TF Update: Two applications submitted representing 255 kW. 	Reflected in Battery Bonus Count Above - estimated 4 MW March 2022 – August 2023	N/A – Energy Efficiency	Installation by 8-31-23
2018-0163 Microgrid Services Tariff*						
			<ul style="list-style-type: none"> PUC issued Decision and Order approving microgrid tariff 5-17-21. 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. 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". 	TBD	TBD	
2017-0352 O'ahu Grid Services RFP *						
			<ul style="list-style-type: none"> 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 8-3-21 - PUC approved, with modifications, the HECO proposed RFP for 60 MW of grid services on the island of Oahu. 	60	TBD	COD 9-1-22 for Proposals
2014-0135 Green Infrastructure Loan Program- Green Energy Market Securitization (GEMS) *						
			<ul style="list-style-type: none"> Leverages public-private capital to deploy clean energy infrastructure that will contribute towards Hawai'i's pursuit of its statutory 100% clean energy goals by 2045 while helping ratepayers lower their energy costs. 8-10-21: PUC establishes procedural schedule to review the Green Infrastructure Loan Program 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. 	TBD	TBD	
2007-0341 Demand Side Management (DSM)						
			<ul style="list-style-type: none"> 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 	TBD	TBD	