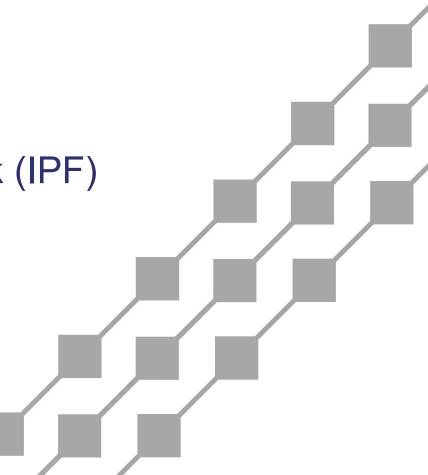
FOR DISCUSSION PURPOSES ONLY



Innovation Pilot Framework (IPF) Portfolio Update

December 4, 2024





December 4, 2024 (1:00 - 2:30 PM HST)

- In-flight pilot updates
- Status of IPF pipeline





In-Flight Pilot Updates

Key Takeaways

<u>Status:</u>

Charge Up eBus and Charge Up Commercial: Expect to file pilot extension request

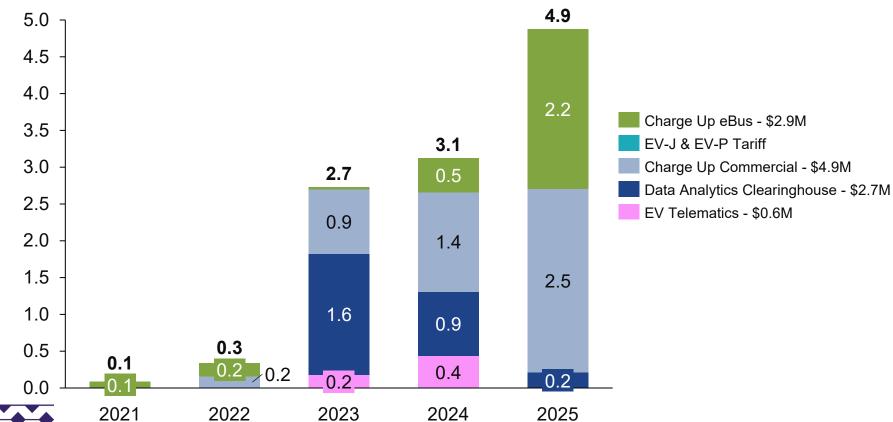
Active pilots:

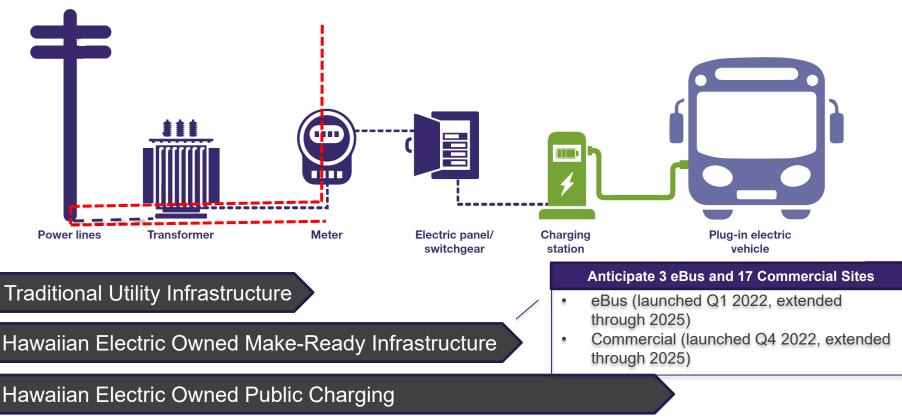
- **Charge Up eBus** Yellow: Executed 3 Participation Agreements. 1 permit approved, 1 pending permit approval.
- Charge Up Commercial Yellow: Executed 15 Participation Agreements, 15 Designs, and completed construction at 1 site. Tracking for 17 total sites.
- EV-J and EV-P Tariff Green: Continued interest in enrollment with pace limited by the installation of EV charging facilities. Working through hurdles and using a targeted outreach approach with interested customers.
- Data & Analytics Clearinghouse (DACh) Green: Program Increment 06 completed. PI 07 expected to be completed in Dec. 2024.
- EV Telematics (Smart Charge Hawaii) Green: Large data set uploaded into DACh (will be refreshed after pilot ends).
 Pilot incentives for new EV drivers will not be offered after 11/30. Focus interviews of EV drivers completed. Post-pilot feedback survey being drafted.



Active Pilots (latest forecast)

\$millions







	Division	EoT
Charge Up eBus	Project Manager	Tandy Tabata

Description & Scope

Hawaiian Electric estimates that the make-ready infrastructure installed in eBus Pilot will support up to 20 eBus charging ports at 5-10 customer sites.

Objectives

- Enable and accelerate the electrification of bus fleets in the Hawaiian Electric Companies' service territories by **understanding** customer behaviors and enable customers to transition faster.
- Develop ways for the Companies to support make-ready infrastructure by learning how to streamline workflows, understand resource needs for charging, and track the costs of infrastructure to develop sound cost estimates for future deployment.
- Improve renewable energy integration through bus charging on the eBus tariff.

Major Deliverables

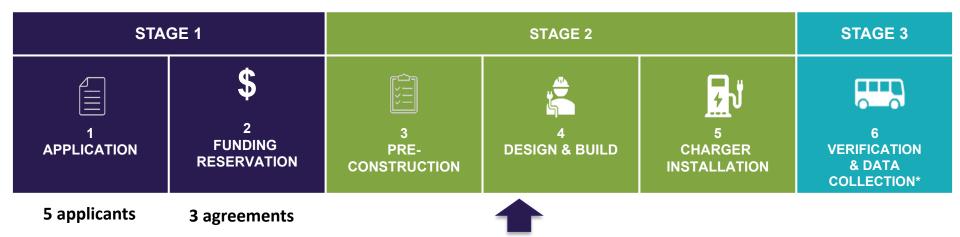
- Implementation Process/Customer Journey
- Final Program Design Report and Appendices
- Annual Updates/Spring Reports
- Infrastructure for up to 20 charging ports at customer sites

Risks

- Funding and customer procurement timelines not aligned with Pilot
- Complex/lengthy landowner approval requirements and processes
- Complex/lengthy permit process
- Supply chain constraints
- Rising labor and material costs



Observes Line Drive	Division	ЕоТ
Charge Up eBus	Project Manager	Tandy Tabata



- 1 permit approved; construction RFP in progress
- 1 pending permit approval
- 1 pending design revisions



Charge Up eBus

Division EoT Project Manager Tan

Tandy Tabata

Implementation Timeline					00		-	00						0.4				000	_			000	
	202	1		20	22			20)23	, 	\bot		20	24			2	02	5	$ \rightarrow $		202	26
Activity Month	56789	101112	123	456	789	101112	2123	456	678	91011	121	234	56	789	10111	212	345	67	8 9 1 0	11121	234	567	891011
Stage 1: Application & Funding Reservation																							
PUC Approval																							
Ramp Up																							
Customer Application Period																							
Site Evaluation & Participation Agreement																							
Stage 2: Preconstruction, Design & Construction, Charger Installation																							
eBus & Charging Equip Acquisition																							
Make-Ready Design, Permit & Construction																							
Charger Installation																							
Stage 3: Verification & Data Collection																							
Bus Arrival																							
Data Collection																			: :	: :			
Pilot End																							

Original Implementation Schedule
Adjusted Implementation Schedule
Anticipated Schedule

Factors contributing Implementation Schedule adjustments:

- eBus and Charging Equipment RFP delayed by stakeholder concerns.
- Validation of qualified buses and charging equipment impacted by RFP delays.
- Participant modifications to the Participation Agreement and landowner approvals.
- Longer bus build estimates due to supply chain issues (18+ months)
- Risk for longer than expected permit timelines.

Charge Up eBusDivisionEoTProject ManagerTandy Tabata

	1	1
Milestone	Target Date	Status
Final Program Design Report	1/7/22	Complete
Pilot launch	2/7/22	Complete
Site Evaluations	5/31/22	Complete
Participation Agreements + Funding Reservation	12/30/23	Complete
eBus/Charging Equip. Procurement (customer)	12/30/23	Complete
Make-Ready Final Design	6/30/24	92%
Make-Ready Construction	6/30/25	
Charging Equipment Installation (customer)	8/31/25	
Data Collection	9/01/25	
Final Report	3/31/26	
Overall % Complete		64%

Updated Fe	orecast <mark>(o</mark> r	n track)				U2411
\$000s	2021	2022	2023	2024	2025	TOTAL
TOTAL	87	183	29	464	2,169	2,932

Observations & Lessons Learned

- Coming out of the pandemic, the number of bus operators ready to procure eBuses in 2022 were fewer than expected.
- State and County entities requested modifications to the standard participation agreement to align with their requirements, thus extending the time to execute.
- State-owned land adds significant complexity and time to seeking approvals for right of entry and grant of easement.
- Applicants' procurement timelines delayed as a result of external factors.
- Complexity and costs can vary significantly from site to site.
- Bus operators with plans to install more than 2 ports in the near future need to be considered in the make-ready design.
- Uniqueness of each site requires a more hands-on and flexible approach.
- Some facilities may not be eligible for E-Bus rates.
- 10-year data collection commitment can be viewed by some bus operators as a significant resource burden.



Charge Up eBus

Division EoT Project Manager Tandy Tabata

Updates/Open Items

- Expect to file a request to extend the pilot through December 31, 2026.
- E-Bus-J and E-Bus-P Pilot rates end December 31, 2024.
 Pending approval to allow make-ready applicants to remain on original E-Bus Pilot rates for the 10-year commitment.
- Modifications to the pilot program to date
 - Increase charging port limit from 2 to 4 ports
 - Increase rate options to include EV-J and EV-P
 - Reduce data requirements from 10 to 5 years
 - Leverage internal labor in place of outside services
 where appropriate
 - Extended pilot through December 31, 2025

Other Metrics (when available)

- Actual pilot costs and revenue
- Charger utilization

Participation KPIs	
Applications Received	5
Site evaluations Completed	3
Applications Withdrawn or Denied	2
Participation Agreements Executed	3
Anticipated Number of eBuses	9
Anticipated Number of Make-ready	10
Charging Ports	

Schedule KPIs (as of 12/4/24)	County of Hawaii Mass Transit	Kahului Transit Hub	Ka Waihona Charter School
Application Received	3/31/22	3/31/22	3/6/24
Days to execute	854	613	145
Participation Agreement	Executed	Executed	Executed
Days in permitting review	Design pending revisions and customer approval	158 Approved	33
Days in construction			
Days to install and			
commission charging			
equipment (customer)			



	Division	EoT
Charge Up Commercial	Project Manager	Kevin Hachey

Description & Scope

Provide make-ready charging infrastructure to eligible fleets, MUDs and commercial sites. Pilot is targeting 17 customer sites (est. 72-80 charge ports), across Hawaiian Electric, Maui Electric, and Hawaii Electric Light. Pilot will reduce upfront costs for commercial customers seeking to install EV charging infrastructure by providing make-ready infrastructure at Hawaiian Electric's expense.

Objectives

- Install infrastructure for Level 2 charger sites
- Develop actual pilot costs and lessons learned to inform future filings
- Increase enrollment in commercial EV rates
- Collect data to inform future filings

Major Deliverables

- Final Program Design Report
- Implementation Plan
- Annual Report
- Make Ready Infrastructure for Level 2 chargers at up to 17 sites

Risks:

- Complex/lengthy permitting processes (each island is unique) could impact installation timeline
- Complex/lengthy landowner approval requirements and processes
- Long material lead times



Charge Up Commercial

Division	EoT
Project Manager	Kevin Hachey

Implementation Timeline

	Commercial Charge Up - Estimated implementation timeline with extension to end of 2026 (17 sites)														٦																																													
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PUC Approval		T	T	T	T	T	T		T			T			T	T	T	T	T	T														Γ		T	T	T		T	T	T	T	T	T	T	T		T					T	T	T	T	Τ		
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Charger Installation																																																												
Data Collection																																																									7			
IPF Annual Report																																																												

Factors contributing to the need for Implementation Schedule adjustments:

- Long permit timelines One permit fully approved expect to file an extension request
- Reopened application portal for 12/23 (gained additional 4-6 sites)
- Long lead time of materials
- Executing Participation Agreements was longer than expected

Milestone	Target Date	Status
Final Program Design Report	9/24/22	Complete
Pilot launch	10/25/22	Complete
PUC Response	11/25/22	Complete
Contract Management and Design Consultant RFPs Awarded	12/5/22	Complete
Site Evaluations	10/1/24	Complete
Participation Agreements Executed	12/31/24	88%
Final Design	3/1/25	88%
Make-Ready Construction Complete	6/1/26	6%
Charger Installation Complete	7/1/26	6%
Data Collection	12/31/26	
Final Report	3/31/27	
Overall		61%

Updated Forecast (on track)

\$000s	2022	2023	2024	2025	TOTAL
TOTAL	159	878	1,353	2,497	4,888

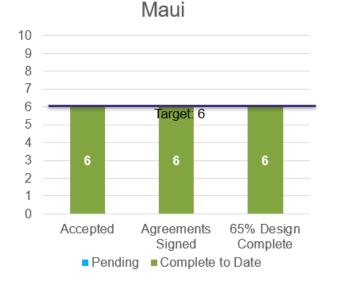
Observations & Lessons Learned

- eBus pilot informed Commercial Make Ready
 implementation
 - Cost cap
 - Reduce data requirement
- Anticipate 17 sites with 4-6 ports each
- Separately metered service can add complexity
- Duration from Pilot acceptance to executed agreement was longer than anticipated
- License Agreement more appropriate than Grant of Easement
- Customer withdrawals due to
 - 10-year commitment period and uncertainty in customer plans for the site
 - Incremental costs above the cap
- Permit approval is longer than expected

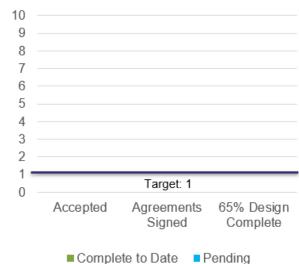


Division	EoT
Project Manager	Kevin Hachey

2024 Target: 17 agreements



Hawaii Island



*Pending items are awaiting customer signature/approval



Charge Up Commercial

Division	EoT
Project Manager	Kevin Hachey

Updates

- Expect to file extension request to extend the pilot through 12/31/2026
- Make Ready construction complete at first site:



Next steps:

- Execute participation agreements with remaining applicants
- Finalize site designs
- Schedule construction upon permit approval

Applications	#
Applications Received	80
Applications Complete	69
Oahu	39
Hawaii Island	10
Maui	20
Site Evaluations/Visits Completed	67
Applications Accepted	26
Applications Denied	36
Applications Withdrawn	16
Applications Pending	1
Participation Agreements Executed	15



EV-J AND EV-P TATITT PITOT Project Manager Ethan Landy		Division	EoT
	$\mathbf{E} \mathbf{V}_{-} \mathbf{I}$ and $\mathbf{E} \mathbf{V}_{-} \mathbf{P}$ tariff $\mathbf{P} \mathbf{I} \mathbf{O} \mathbf{I}$	Project Manager	Ethan Landy

Description & Scope:

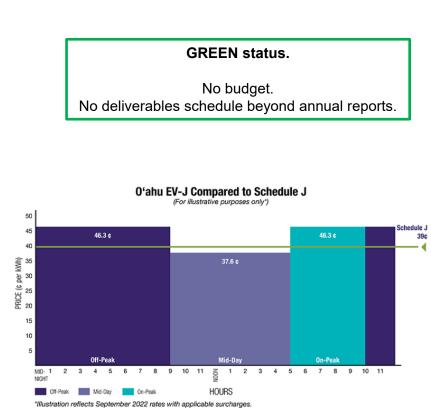
The five-year pilot program (2022-2027) features a time-of-use (TOU) rate structure that incentivizes mid-day charging, when there is abundant solar energy flowing into the grid. Schedule EV-J and Schedule EV-P are approved on a pilot basis, available to a max. 1,000 and 500 customers, respectively. Facilities including businesses, workplaces, and multi-unit dwellings may maintain their current commercial rate (such as Schedule J or Schedule P) or choose a new, separately metered EV rate (Schedule EV-J or EV-P) to benefit from TOU pricing a reduced demand charges. The biggest cost savings under EV-J and EV-P are expected to result from the reduced demand charges, which vary with intensity of use and can often be the largest part of a commercial customer's bill.

Objectives:

- Measure demand and impact of this type of rate structure on a pilot basis
- Rates are designed to encourage EV charger installation by commercial customers while nudging behavior to charging during mid-day
- Use collected data to inform future filings and/or full-scale deployment

Major Deliverables:

Annual reports

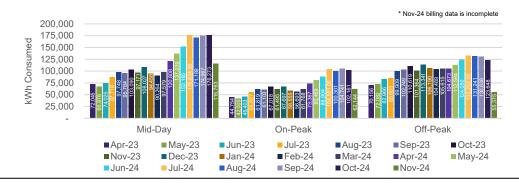




EV-J and EV-P Tariff Pilot

EV Tariff – Current	EV Tariff – Monthly Revenue
Enrollment 4 3 2 1 1 1 1	175,000 150,000 125,000 125,000 100,000 100,000 100,000 102,524 100,000 102,525 100,000 102,526 101,255 102,526 1010,000 102,526 101,255 102,526 102,526 102,526 101,255 102,526 101,255 102,526 101,255 102,526 101,255 102,526 101,255 102,526 101,255 102,526 102,125 102,526 103,126 103,506 104,166 114,438 114,1438 114,438 114,1438 114,436 114,1438 114,436 114,1438 114,436 114,1438 114,436 114,1438 114,436 114,1438 114,436 114,1438 114,436 114,1438 114,436 114,1438 114,436 114,1446
Participant Partic	* Nov-24 billing data is incomplete
Schedule EV-J Schedule EV-P	■Apr-23 ■May-23 ■Jun-23 ■Jul-23 ■Aug-23
■Oahu ■Maui County ■Hawaii Isl.	■Sep-23 ■Oct-23 ■Nov-23 ■Dec-23 ■Jan-24 ■Feb-24 ■Mar-24 ■Apr-24 ■May-24 ■Jun-24 ■Jul-24 ■Aug-24 ■Sep-24 ■Oct-24 ■Nov-24

EV Tariff – Monthly kWh Usage by TOU Period



Division EoT Project Manager Ethan Landy

Key Risks & Takeaways:

- Sustained interest from eligible customers.
- Enrollment is limited by rate of EV charging infrastructure development. No direct financial impact, but dataset to inform future decisions may not be as robust as desired.
- We are continuing to evaluate ways to increase enrollment.
- Despite customer interest, the infrastructure cost for a separatelymetered service remains a barrier to enrollment for some.
- There is an opportunity to increase enrollment by using revenuegrade submetering to disaggregate EV charging loads from other loads.

Status updates:

- D&O 38157 issued on 12/30/21, approving pilot
- Tariff sheets were filed 2/1/22
- PUC approved the final tariffs on 3/1/22 to go into effect on 3/18/22
- Filed proposed rates for Molokai & Lanai on 6/30/22 effective 8/1/22
- Current enrollment:
 - Oahu:
 - EV-J: 1 account
 - EV-P: 4 accounts (1 new enrollee)
 - Maui County:
 - EV-P: 1 account
 - Hawaii Island:
 - EV-J: 1 account
- Continuing to explore ways to facilitate enrollment process

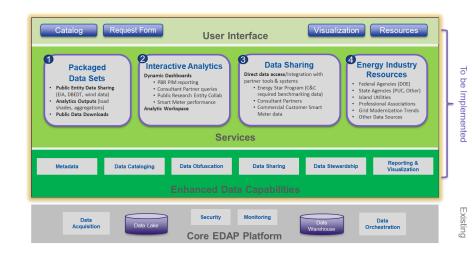


Description & Scope:

- A **cloud-based clearinghouse** of published Hawaiian Electric data and analytical insights
- Built upon existing Hawaiian Electric investments in a modern, secure Enterprise Data Analytic Platform (EDAP)
- Usable in a self-service and collaborative manner by external stakeholders focusing initially on Pilot Participants (public agencies) through four key services:
 - 1. Packaged Data Sets
 - 2. Interactive Analytics
 - 3. Data Sharing
 - 4. Energy Industry Resources
- Support benchmarking, compliance, energy utilization decisionmaking, and other data analysis and reporting needs

Objectives:

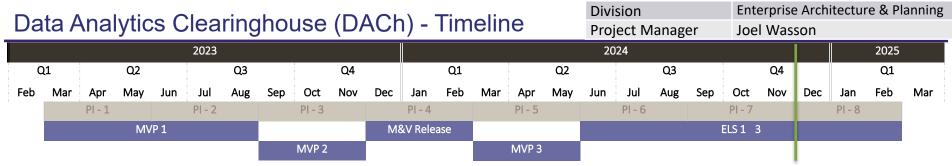
- Meet regulatory commitments and share data collaboratively
- Measure and demonstrate Clearinghouse solution model and value
- Increase data analytics maturity and useability of data as a strategic asset



Major Deliverables:

- Deliver on key use cases through execution of three iterative Minimum Viable Product releases
- Enable a secure and effective data architecture to support key Clearinghouse services
- Establish a business operating model for the Clearinghouse





Status Update (Nov-24):

Program Increment 07 in progress with expected completion Dec

- The DACh web-portal has been replaced with a Power BI Service Workspace that will provide the dashboard sharing functionality
- Several infrastructure enhancements are in progress and expected to conclude with PI-8
- Collaborative Office Hour sessions have produced several requests for additional data to support PRE use cases. These will be evaluated for 2025 implementation and include:
 - Replacement of current AMI Dataset to increase data passing anonymization tests; Monthly Billed Energy Data View; Inclusion of Program Participation beyond current PV program; Inclusion of other recording meter data; Vulnerable Populations; Government Accounts – Non-Anonymized Data

Next steps:

- PI-8 expected to start in Dec and run through Feb/March with dates and costs TBD
- Draft Annual Pilot Update indicating direction for clearinghouse functions in 2025
- Continue Office Hours on a Monthly basis in 2025 for PREs

Major Deliverables	%	Start	Target
Project Initialization	100%	2/6/23	2/27/23
PI-1	100%	2/27/23	5/30/23
PI-2 & MVP R1	100%	5/31/23	8/29/23
PI-3 & MVP R2	100%	8/30/23	12/3/23
PI-4 M&V Release	100%	12/4/23	3/1/24
PI-5 & MVP R3	100%	3/4/24	5/31/24
PI-6 ELS - 1	100%	6/3/24	8/30/24
PI-7 ELS - 2	70%	9/23/24	12/13/24
PI-8 ELS - 3 (TBD)	0%	TBD	TBD

Budget Forecast (on track) – Total budget \$2,758

\$000s	2023	2024	2025	Total
Updated Forecast	1,628	892	209	2,729

Budget reduced for cleared actuals in 2023. Total forecast expected to be under ²⁰ project budget with final revision updated when PI-8 planning complete

Residential EV Telematics Pilot

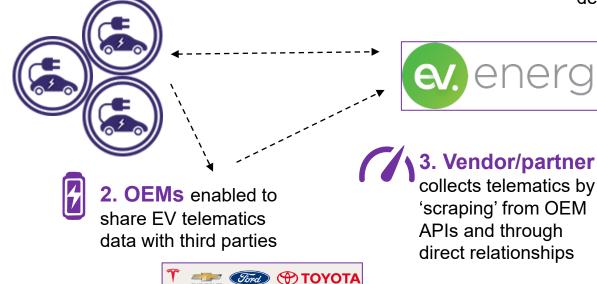
Division EoT **Project Manager Timur Tufail**

1. Drivers are already opted into data share arrangement via original equipment manufacturer's ("OEM") terms and conditions



4. Vendor/partner provides customer app where drivers can view charging and Pilot

details







5. Hawaiian Electric accesses dashboards and telematics data hosted on vendor's cloud-based portal 21

Desidential EV/ Televestice Dilet	Division	EoT
Residential EV Telematics Pilot	Project Manager	Timur Tufail

Description & Scope

The EV Telematics pilot (i.e., "Smart Charge Hawaii") uses emerging technology (i.e., real-time onboard EV telematics) to collect data on EV charging metrics and provide information on EV driving habits. The Pilot includes a customer-facing interface (i.e., a free app available for download on Google and Apple stores) as well as a utility-focused application (i.e., web-based dashboards displaying real-time customer charging data) developed by a third-party technology vendor (ev.energy). Participants receive a financial incentive for signing up and participating in the Pilot.

Objectives

The purpose of the pilot is to enroll up to 2,000 EV driving participants across our service area, collect telematics data, gain visibility into EV charging behavior data, and then share the data with internal and external stakeholders.

Major Deliverables

- · Participant charging behavior dashboards and raw data (cloud-based portal)
- · Feedback from stakeholders on usefulness of data
- Feedback from participants in the form of surveys/focus group interviews
- Quarterly PUC and stakeholder pilot updates (e.g., participant tracking, heat maps, EV charging trends etc.)
- Annual pilot update report

Risks

- · OEMs could limit access to telematics data for ev.energy
- · ev.energy could be acquired or go out of business
- Lack of participant sign-ups

Updated Forecast (on track)

\$000s	2023	2024	TOTAL
TOTAL	\$177	\$533	\$710

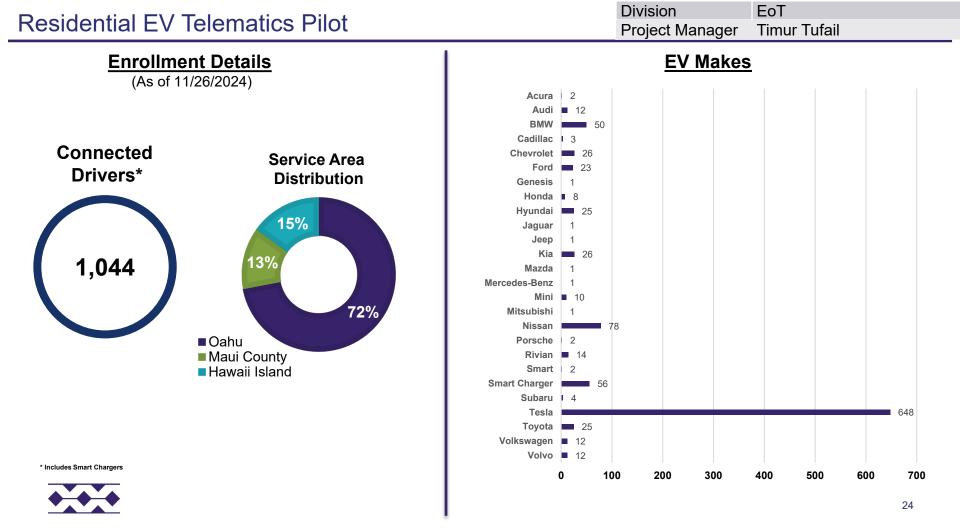


Division EoT Project Manager Timur Tufail

Implementation Timeline

Milestone	Timing*	Status
Public facing webpage design signed off by Hawaiian Electric	5/23/2023	Complete
Public facing webpage live	5/24/2023	Complete
Smart Charge Hawaii customer support live	5/24/2023	Complete
FAQs and customer support responses signed off by Hawaiian Electric	5/24/2023	Complete
Press release published	5/24/2023	Complete
Monitor participant sign-ups	June - November 2024	Complete
Outreach emails sent to selected customers for enrolment	June/July 2023	Complete
Web-based data dashboard built to collect and report pilot enrollment and charging data; walk-through with EoT team	July 2023	Complete
Send out \$75 enrolment incentives (or 5,000 HawaiianMiles)	October/November 2023	Complete
Focus group with up to 10 participants / Survey all participants	April - November 2024	Complete
Pilot close – data collection ends	December 2024	Pending
Send out the \$75 completion incentives (or 5,000 HawaiianMiles)	December 2024 / January 2025	Pending
Post-pilot survey all participants	December 2024	Pending
Wrap up, analysis and future planning	December 2024	Pending





Desidential EV/Telemetics Dilet	Division	EoT
Residential EV Telematics Pilot	Project Manager	Timur Tufail

Pilot Updates

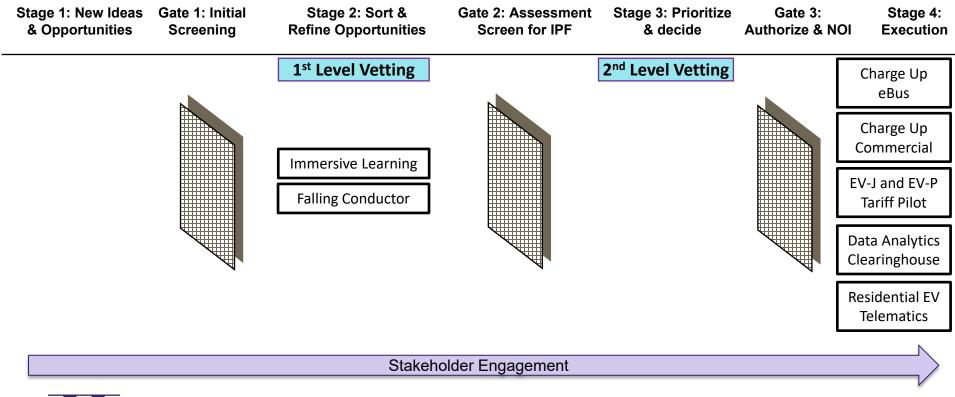
- Completed one-on-one focus interviews with 10 Smart Charge Hawaii participants:
 - Findings to be presented to Hawaiian Electric in December 2024 and will be included in annual IPF report
- Mid-year refresh of telematics uploaded into Data Analytics Clearinghouse:
 - Complete pilot data to be uploaded after pilot ends in December 2024
- SCHI sign-ups will continue through 12/31; however, incentives for new drivers will not be offered after 11/30
 - Drivers will be able to continue using ev.energy's app after pilot ends
 - Hawaiian Electric will no longer have access to ongoing telematics data or ev.energy's online platform after pilot ends
- Preparing post-pilot driver feedback survey:
 - ev.energy targeting first week of December 2024 for distribution
 - Feedback will be incorporated in the annual IPF report





Pilot Pipeline

Innovation Pilot Framework (IPF) pipeline status board





What's next?

- Next quarterly IPF stakeholder meeting: Mar. 19, 2025 (1:00-2:30pm)
- Save the dates (2025):
 - June 18 (1:00-2:30pm)
 - Sept. 17 (1:00-2:30pm)
 - Dec. 10 (1:00-2:30pm)



Innovation Pilot Framework Website

Website: <u>hawaiianelectric.com/IPF</u>

- General information
- Track progress of approved pilots
- Submit pilot ideas via the online form

Innov

Dur Process Submit Ideas & Prop Innovation Pilot Trequently Asked Q Contact Us Submit P Proposal We are Looking for Innovative pilot p

							s filed with the Commission on July 2		
		To maximize flexibility and for	Upcoming Pilot Pi ster innovation, we intend to utiliz o, discussions and inquiries initiate quests for proposals.	te a variety of mechanisms to se	cases, as assessing co Phase will also include shared learning and p	st effectiveness of a scale e the execution of approvi ossible expansion.	s (NOIs). Not all pilot concepts will be d-up solution may be a pilot project's ed pilot projects, and the review of th id upcoming innovation pilot projects.	primary objecti lose approved p	ive. The Implementation
ed p	oilots		VIEW PILOT	PROJECTS			Pilot Projects		
on	line form	As part of our ongoing commi	IS Related to Pilot itment to transparency and sharin uld like to be added to the mailing	g lessons learned about pilot p	Pilot Title Charge Up eBus Make-Ready	Status Active	Start Date - Target End Date 5/7/21 - 3/31/25	Actual/Total (thousands) \$87k/\$4,232	NOI/Order/Slides
ation		innovation@hawaiianelectric		Submit Your l		osals		s0k/s0	D&O No. 38157 (PDF)
		9/6/23 at 1-2:30 p.m. HST	Pilot portfolio status update (S	end of the form, you may indicate that you information internally within the company t address, and other information that you pro	are interested in participating in our to the appropriate subject matter ex ovide in your submission to our innor	Innovation Pilot Framework. Our teat berts for an initial assessment. All pers ation Website will be kept confidentia	sonal data, including your name, address, email al and used only for the purpose of processing and	\$0k/\$4,984	D&O No. 38194 (PDF)
	Innovation Pilot Frame	6/7/23 at 1-2:30 p.m. HST 3/8/23 at 1-2:30 p.m. HST	Pilot portfolio status update (. Pilot portfolio status update (I	next steps, including but not limited to exe	cution of non-disclosure agreements	scope discussions, negotiations, etc.	c), we will contact you to discuss how to proceed with on. For more information on these next steps, please	\$0k/\$2,758	NOI (PDF) Slides (PDF)
	On December 23, 2020, the Hawaii Public Utilities Commission ("HPU other things, included a Pilot Process to "Foster innovation by estabil that test new technologies, programs, business models, and other an	12/7/22 at 1-2:30 p.m. HST 8/31/22	Pilot portfolio status update (I Public stakeholder meeting to	Contact Information: "	*			TBD	Slides (PDF)
IS	This page provides links to the relevant orders establishing the Innov Collaboration, as well as links and information related to approved an	6/1/22	2022) (PDF) Public stakeholder meeting to 2022) (PDF)	· Trak Netter		al Nerre			
	Goals and Guiding Principles	10/19/21	Stakeholder engagement mee	* Business Phone	Mak	• Phone			
ct	This Framework will be guided, in part, by the Commission's overall P of (1) a customer-centric approach, (2) administrative efficiency, and	9/28/21 9/7/21	Stakeholder engagement mee Stakeholder engagement mee	for nor-US o Country (optional)	Alasta or legal residents of the United Sta	tes, please provide your country of sitioerah	is or incorporation (for legal entities):		
ive and for IPF.	Framework is designed to achieve the following guiding principles: In Learning, Customer-focused, Speed and Ownership. Learn more abor Service document (Exhibit 1).	8/24/21	Stakeholder engagement mee		ng is being requested to assist Mexatien Bi an Electric will need to consider in its evalu-	atris in determining whether there may be a stick of your Submission.	expert rules and regulations		
posals.	Areas of Collaboration (AOC) Hewelie Extric, in collaboration with the Commission, the Consum PBB Docks, icentified the Inlining Areas of Collaboration IAOC under be IPI. In selecting projects uncer the IPI, we will give strong terreft Low-to-hooder increm LVII consumer from arcout best Extra the Internet of the Internet of the IPI and the IPI Workplan.	tractic devices with the Cammission, the Cammission and Cammissi and Cammission and Cammission and Cammissian and Cammission and C				* Saes			
	1. Decarbonization		•	Technology Innovation	ı Idea/Product Sub	mission:			29
2 Customer Resources and Services			• I	A Select the priority area	and medify which initia	tive applier to your innov	ative technology or folution that	1	

meets our technology need

Pilot Projects Listings





THANK YOU