

Meeting Summary
Innovation Pilot Framework (IPF)

Quarterly Stakeholder Meeting – September 2023

Date: September 6, 2023

Location: Virtual – Microsoft Teams Meeting¹

[Meeting slide deck](#)

Meeting Takeaways

- It is important for Hawaiian Electric to continue to move forward on important PUC/Company initiatives while we also support our communities on Maui.
- This meeting focused on providing quarterly updates for in-flight IPF projects. No new pilot concepts were introduced for discussion.
- Per D&O 41029, the Commission lifted the suspension on filing new pilot proposals (Notices) and elaborated on its expectations for the Innovation Pilot Framework.
- Active IPF Pilot project updates
 - Charge Up eBus: Fewer applicants and operators than expected. Changes to scope, schedule, and budget in response to customer feedback. E-Bus procurement requires 18+ months. PUC approved no-cost extension of project to 12/2025.
 - Charge Up Commercial: Evaluating and prioritizing sites for selection. Targeting selection of 20 sites in 2023.
 - EV-J and EV-P Tariffs: Continued interest in enrollment with pace limited by the installation of EV charging facilities.
 - Data Analytics Clearinghouse (DACH): Program Increment 1 completed on 5/30/2023. Increment 2 and Minimum Viable Product (MVP) 1 completed on 8/29/2023. Initial release of DACH platform is expected in October 2023.
 - EV Telematics Pilot: Public-facing website is live (<https://smartchargehi.ev.energy>). Customer outreach is ongoing. Plan to share EV Energy Dashboard in December 2023.
- Next quarterly IPF stakeholder meeting is scheduled for December 6, 2023 (1:00-2:30 PM).

Innovation Pilot Framework (General)

- The following information on the IPF can be found on Hawaiian Electric’s IPF website at <https://www.hawaiianelectric.com/about-us/innovation/innovation-pilot>.
 - IPF process and portfolio, including the Areas of Collaboration that will guide the development of potential pilot projects
 - View approved and upcoming pilot projects with links to PUC’s Decision and Orders and Hawaiian Electric’s Notice of Intent (NOI), Responses to IRs, and slide decks for pilot projects
 - Presentation Slides and meeting summaries from Public Stakeholder Meetings
 - IPF Annual Reports
 - Schedule for future IPF meetings

¹ Meeting notes reflect use of Chatham House Rule.

- Submission of new project ideas

Feedback on Pilot Project Pipeline

- Five pilot concepts under discussion (battery rental, virtual NEM, Smart Electric Panel, artificial intelligence-modeled vegetation risk assessment, and DER Telemetry and Control).
- No new pilot concept projects were introduced at this meeting. We are still interested in new ideas and project proposals for consideration from stakeholders. Submit project proposals to innovation@hawaiianelectric.com
- Hawaiian Electric asked attendees if anyone had a pilot concept to introduce or discuss. No ideas were mentioned.
- Five in-flight pilot projects (Charge Up Ebus, Charge Up Commercial, EV-J and EV-P tariff Pilots, Data Analytics Clearinghouse, Residential EV Telematics).
- Minor changes to IPF spending forecast with some costs from 2023 shifted into 2024 and 2025.

Status of Active Pilot Portfolio Projects

Charge Up e-Bus Pilot

- Fewer applicants (2) and bus operators than expected.
- Risks
 - Experiencing delays to procure bus and charging equipment due to supply chain issues (18+ months).
 - Longer timelines to obtain participation agreements, funding, permit timelines.
 - Rising material and labor costs.
 - Resource constraints.
- PUC approved project extension to December 31, 2025.
- Submitted a request to extend E-bus Tariff (expires December 2023).
- Delays have caused lower budget forecast for 2023 and shifting costs to 2024 and 2025.
- Execution of participation agreements is taking over a year; hope to work through by the end of 2023.

Charge Up Commercial Pilot

- Pilot is open to any non-bus commercial charging facilities with Level 2 charging.
- 54 applications received with 20 sites with 4-6 ports accepted. One site withdrew due to Lahaina fire. Three Hawaii Island sites withdrew due to the pilot commitment period.
- Hawaiian Electric is seeking a diverse set of participants, geographic locations, and types of businesses. More time will be needed to identify alternatives for withdrawn sites.
- Risks
 - Customers require more time for selection of Level 2 chargers and for reviewing terms and conditions for agreements.
 - Separately metered service adds complexity, and 10-year commitment requirements are challenging.
 - Lengthy permitting process.
 - Withdrawals for which alternative sites will be needed.

Discussion and Q&A

- Are commercial sites or commercial fleets eligible?

- Charge Up Commercial Pilot is open to any commercial site (does not need to be fleet).

EV-J and EV-P Tariff Pilot

- Current enrollment (Oahu only, none for Maui County and Hawaii Island)
 - 2 accounts for EV-J
 - 1 account for EV-P
- Additional enrollment depends on completion of EV charger installations.
- EV Tariff Revenue: Slightly higher due to change in approach for billing period.
- Risks:
 - Separately metering service requirement is a barrier for enrollment to EV-J and EV-P.

Data Analytics Clearinghouse (DACH) Pilot

- Minimum Viable Product (MVP) 1 completed and met with stakeholders to introduce three options for access to data, work with data, and provide feedback data access:
 - Web Portal: Open by request with potential future access options
 - Delta Sharing: Working initially with Hawaii Energy
 - Databricks Notebooks: Requires provisioning into Company network
- Provided overall feedback in September 2023 and planning workshop in October 2023 for initial release of DACH access options with dark release of a portal.
- MVP 2 starting with completion expected in December 2023.
- Will conduct another survey at the end of November 2023 to plan for next year.

EV Telematics Pilot Concept

- Over 600 out of 1,800 target signups of which 268 connected to EV Energy Platform.
- EV energy working on the remaining to get connected.
- Working with EV Energy to improve signups
 - Shorten application form to simplify.
 - Promoted pilot with physical flyers with QR codes to download the app and fill out form.
 - Promote through Hawaii Auto Dealers Association.
- Risks:
 - Lack of participation.
- Plan to share EV Energy Dashboard at next IPF quarterly meeting.

Discussion and Q&A

- In the Docket, is this IPF pilot project timed with the TOU pilot where a certain percentage of the participants would be part of the TOU pilot?
 - Yes. Data from this pilot will be provided to the working group that is working with the TOU pilot.

Overall questions:

- Will projects coming down the pipe, but are not active, be discussed in the next meeting?
 - Yes, we plan to discuss in the next meeting on December 6, 2023.