

Meeting Summary
Innovation Pilot Framework (IPF)
Quarterly Stakeholder Meeting – June 2024

Date: June 12, 2024

Location: Virtual – Microsoft Teams Meeting

[Meeting Slide Deck](#)

Meeting Takeaways

- IPF Annual Pilot Update Report filed on 3/11/24.
- **Charge Up eBus – Yellow**: Participation agreements: 1 executed, 1 pending approval, 1 pending.
- **Charge Up Commercial -Yellow**: Participation agreements: 13 executed, 12 design. Completed site visits of all potentially feasible applicant sites.
- **EV-J and EV-P tariff – Green**: Continued interest in enrollment with pace limited by the installation of EV charging facilities. Using a targeted outreach approach with interested customers.
- **Data & Analytics Clearinghouse (DACH) – Green**: Program increment 05 completed on 5/31/24; Started Program Increment 06 on 6/3/24.
- **EV Telematics (Smart Charge Hawaii) – Green**: Continued focus on enrollment through localized outreach efforts. Large data set being processed for upload in DACH. Continuing to survey EV drivers and other stakeholders.

In-flight Pilot Updates

Charge-Up eBus

- Fewer applicants than expected with 1 participation agreement executed, 1 awaiting approval, and another pending with the customer unsure if they will proceed.
- Customer readiness, longer procurement timelines, and obtaining customer approvals for participant agreements have resulted in delays. In addition, some customers have withdrawn due to a variety of reasons including readiness to agree to the terms and conditions of the pilot.
- Some funding shifted from 2024 to 2025.
- Project completion expected to end in 2025.

Charge-Up Commercial

- Separately metered service requirement adds complexity and customer costs. Proposed meter placement designs at 6 sites were rejected since they do not meet Hawaiian Electric’s engineering standards.
- Limited feasible sites available.
- More customer withdrawals due to customer uncertainty of plans, higher installation costs above the cost cap established under the program, and data requirements.
- Plan to file PUC letter to request exemption from separately metered service and EV rate enrollment for sites that had rejected designs.
- 13 participation agreements were executed (9 on Oahu and 4 on Maui) out of a targeted 20 customer agreements.

EV Tariff Pilot Rates (Schedules EV-J and EV-P)

- Sustained interest by customers in new tariff rates.

- Separately metered service remains a cost barrier to enrollment.
- Enrollment stats:
 - 2 on Schedule EV-J (1 on Oahu and 1 on Hawaii island)
 - 4 on Schedule EV-P (3 on Oahu and 1 on Maui)
- With the increased enrollment, revenue is increasing, with the highest consumption during the mid-day period and the lowest consumption during the on-peak period. This rate is designed to incentivize this behavior.
- Data can help to inform program design and EV adoption trends.
- Continuing to explore ways to increase enrollment through targeted outreach program.

Data Analytics Clearinghouse (DACH)

- Just completed stage PI-5 and MVP R3 (100% complete on 5/31/24).
- Starting stage PI-6 ELS 1 with stage PI-7 ELS-2 and PI-8 ELS-3 remaining.
- Project on track for completion by 1Q 2025.
- Working with Hawaii Energy to resolve access issues due to Hawaii Energy policy issue with accepting guest accounts; alternative to setup as Hawaiian Electric contractors but that will require background checks.
- Plan to gather feedback on interest levels from stakeholders/participants to determine whether to extend and/or expand the pilot. Hawaiian Electric has until 8/30/24 to make request to PUC for additional IPF funding.
- Technology is at the forefront of working with large data sets but more instruction and interaction with stakeholders on how to use the portal is needed especially if the user is unfamiliar with using SQL and Python languages. It takes time to learn and ramp up to use the notebook environments in the DACH. Provide feedback if instructional videos or additional individual training sessions are needed.
- Pilot is running into resource issues by outside organizations. There is a lot of data and capabilities but stakeholder's time to use it is impacting usage.
- Continue to monitor costs to support and maintain portal, portal usage, and logins.
- Discussion and Questions:
 - Is there an explanation for the spikes (slide 21)?
 - Response: It could be due to higher usage after the stakeholder user sessions. There are a few heavy users, and they could be getting more comfortable with the DACH.

EV Telematics Pilot

- Enrollment of unique drivers increased from about 650 to 709 (as of 6/4/24). We hope to get to 800 in the next quarter.
- Devices connected (includes multiple EVs in household and smart chargers) increased from about 680 to 763 (as of 6/4/24).
- Participated in Earth Month Event at Kahala Mall and media opportunities (Hawaii News Now Daily, Spectrum News, Hawaii Public Radio, and KHON2) to promote pilot program and increase enrollment.
- Pilot Highlights:
 - Over 42,000 individual charging sessions and over 700,000 kWh dispensed.
 - Most of the charging occurred between 0900 and 1700.
 - About 70% of participants have Level 2 chargers at home.
 - Most EV drivers in pilot start charging at 60% State-of-Charge compared to 70% typical for the mainland. The difference is likely due to shorter driving distances in Hawaii (lower range anxiety).
 - Ending State-of-Charge is typically 90% due to maintaining battery health.
 - Planning to attend one-on-one interviews with EV Energy and pilot participants.
- Survey Findings:

- Majority of respondents learned about pilot through emails (47%) and through Facebook (18%)
- 82% of respondents felt the pilot incentive amount was reasonable.
- 84% of respondents live in single family homes (75% of this population also had PV panels).

Innovation Pipeline Framework (IPF) Pipeline Status

- No notable change in pipeline status since the last meeting IN March 2024. Immersive Learning using VR, DER Telemetry, and Falling Conductor/Early Fault Detection remain at 1st level vetting.
- Progress is being impacted by Hawaiian Electric's current financial situation and associated budget prioritization process.
- No immediate plans for filing any new Notice of Intent (NOI) in the next quarter.
- Discussion and Questions:
 - With importance of wildfire mitigation, is Hawaiian Electric looking at wildfire technologies?
 - Response: Yes. Earlier, Hawaiian Electric introduced to stakeholders the falling conductor/early fault detection technology for possible IPF piloting of a new wildfire mitigation solution. However, Hawaiian Electric is pursuing a federal grant (DOE's Grid Resilience and Innovation Partnerships initiative) for a multi-year pilot and deployment project. Hawaiian Electric will continue to explore innovative wildfire-related technologies for possible pilots under IPF and will be subject to its ongoing budget prioritization process.

Next Quarterly IPF Stakeholder Meeting: September 18, 2024