

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

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Date: March 20, 2024

Location: Virtual – Microsoft Teams Meeting

[Meeting Slide Deck](#)

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**Meeting Takeaways**

- IPF Annual Pilot Update Report filed with the Hawai'i Public Utilities Commission (HPUC) on March 11, 2024.
- Charge-Up eBus Project: One participation agreement executed in December 2023 with discussions with a second applicant underway. eBuses expected to arrive in mid-late 2025.
- Charge-Up Commercial: HPUC approved the Companies' request to extend the pilot to December 31, 2025 and removed the requirements for a dedicated metering and enrollment in Commercial EV rates for primary-metered customers. Executed 12 participation agreements.
- EV-J and EV-P: Continued interest in enrollment, with pace limited by the installation of EV charging facilities. Continuing outreach to new customers to increase enrollment.
- Data & Analytics Clearinghouse (DACH): The HPUC approved extension of the deadline for the request for a pilot extension/expansion to August 30, 2024. Program participants received guest accounts and access to the Portal and Collaboration Workspace. Measurement and Verification (PI-4) has been completed and Minimal Viable Product (PI-5 and MVP) R3 has started.
- EV Telematics: Continued focus on increasing enrollment through localized outreach. Large data set available to DACH. Driver feedback surveys to EV drivers and stakeholders expected to start in April 2024.
- Three (3) prioritized Stage 1 pilot concepts (Immersive Learning using Virtual Reality, DER Telemetry & Control, and Falling Conductor De-Energization) have proceeded to Pilot Development.

**In-flight Pilot Updates**

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**Charge-Up eBus**

- One participation agreement executed in December 2023 with discussions with a second applicant underway.
- Delays in procurement and long bus-build timelines (18+ months due to supply chain issues) continue. Arrival of buses expected in mid-late 2025.
- Permitting issues expected to take longer than expected to be resolved.

**Charge Up Commercial**

- On March 7, 2024, the HPUC issued Order No. 40650 approving the extension of pilot project to December 31, 2025, and removed the dedicated metering and Commercial EV rate enrollment requirements for primary-metered customers. Approval was subject to an additional reporting condition that the Company must file with the HPUC on the number of applicants who dropped out and

declined, and for what reasons. These changes will enable more participation, including from Hawai'i Island, in which the Company does not have any participation agreements to date.

- Re-opened application portal in December 2023 to increase enrollment.
- Challenges with higher costs (above \$90k limit per site) for primary-metered customers to deploy dedicated metering of EV charging.
- 13 of 20 projected total sites have been accepted. Of the 22 site applicants that applied, 9 are pending.
- Discussion and Questions
  - Why does implementation schedule show “Data Collection” ending at year-end 2025?  
Response: Although not shown, the data collection period should extend beyond 2025 to reflect 5 years of data collection. While data collection continues beyond 2025, the Company will use the Pilot data to inform future decisions.

**Schedule EV-J and EV-P Tariff**

- Enrollment limited by development of EV Charging infrastructure (depends on construction completion).
- Infrastructure for separate meter, dedicated for EV charging, is a challenge. Enrollment prerequisite of closed building permit (per tariff) has been delaying enrollment in the EV rates.
- Continuing outreach to new customers to increase enrollment.
- Current enrollment

Island	EV-J	EV-P	Total
Oahu	1	3	4
Maui County	0	1	1
Hawaii island	0	0	0
<b>Total</b>	<b>1</b>	<b>4</b>	<b>5</b>

- Discussion and Questions
  - What are the actual EV charging rates to customers as compared to utility EV energy rates?  
Response: The Company does not have information on what participants are charging.

**Data Analytics Clearinghouse (DACH)**

- On March 7, 2024, the HPUC issued Order No. 40648 which approved an extension of the deadline for the request for an extension of this pilot to August 30, 2024.
- Program Increment 04 (PI-4) Measurement and Verification phase has been completed.
- Program Increment 05 (PI-5) Minimal Viable Product R3 has started.
- Guest accounts and access to portal and Databricks collaboration workspace to Program participants.
- Deep Dives will be conducted over the next few months.

**EV Telematics Pilot**

- Continued focus on increasing enrollment through local outreach.
- Enrollment: 656 participants out of targeted 2,000 with 688 devices connected with 74% on Oahu, 14% on Maui, and 12% on Hawaii island.
- 1<sup>st</sup> tranche of incentives (\$75 or 5,000 Hawaiian Miles) paid.
- Data set has been prepared and made available to Data Analytics Clearinghouse for analysis. Data is also available through Excel to stakeholders upon request.
- In April 2024, focus group meetings and quarterly driver feedback surveys will start to better understand drivers.

## **Innovation Pipeline Framework (IPF) Pipeline Status**

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- Three (3) pilot concepts (Immersive Learning using Virtual Reality, DER Telemetry & Control, and Falling Conductor De-energization) have proceeded to Pilot Development (1<sup>st</sup> level vetting). The status on the remaining pipeline concepts remains unchanged.
- Hawaiian Electric's pilot plans are being impacted by its ongoing budget prioritization process that we discussed at our last quarterly meeting in December 2023.
- Hawaiian Electric does not expect to file Notices of Intent (NOI) for new pilots for this quarter. Also, the timing of future NOIs is uncertain at this time.

**Next Quarterly IPF Stakeholder Meeting: June 12, 2024**