

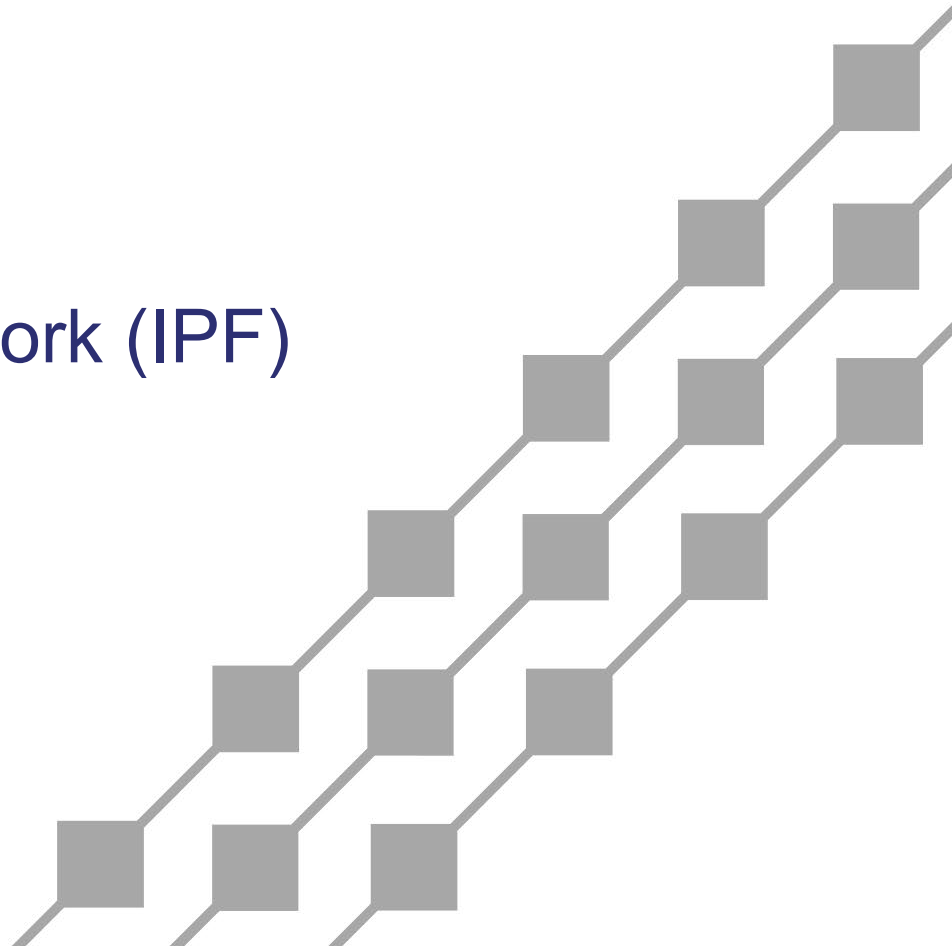
**FOR DISCUSSION PURPOSES ONLY**



**Hawaiian  
Electric**

# Innovation Pilot Framework (IPF) Portfolio Update

September 18, 2024



# Agenda

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**September 18, 2024 (1:00 - 2:30 PM HST)**

- ◆ In-flight pilot updates
- ◆ Status of IPF pipeline





# In-Flight Pilot Updates

# Key Takeaways

## Status:

- Data Analytics Clearinghouse: Filed pilot status update letter (non-extension) on 9/5
- Charge Up Commercial: PUC approved requested modification on 9/9

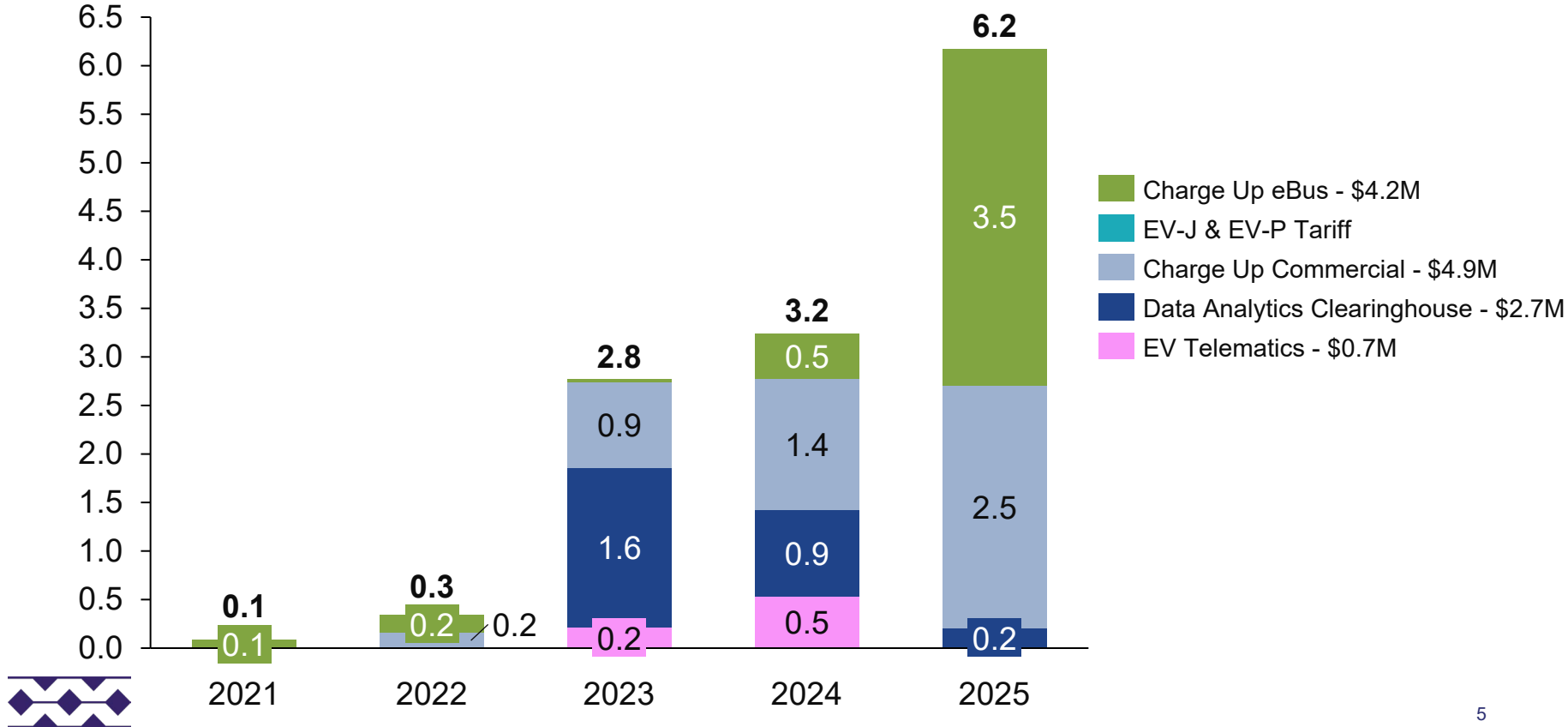
## Active pilots:

- **Charge Up eBus** – **Green**: Executed 3 Participation Agreements. 2 designs in progress and 1 completed design pending permit approval.
- **Charge Up Commercial** – **Yellow**: Executed 15 Participation Agreements and 13 Designs. Tracking for 18 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 extended to 9/23/24; Program Increment 07 in planning with proposed end date 12/13/24.
- **EV Telematics (Smart Charge Hawaii)** – **Green**: Continued focus on enrollment through localized outreach efforts. Large data set refreshed and being uploaded into DACH. Focus interviews of EV drivers scheduled for end of September.



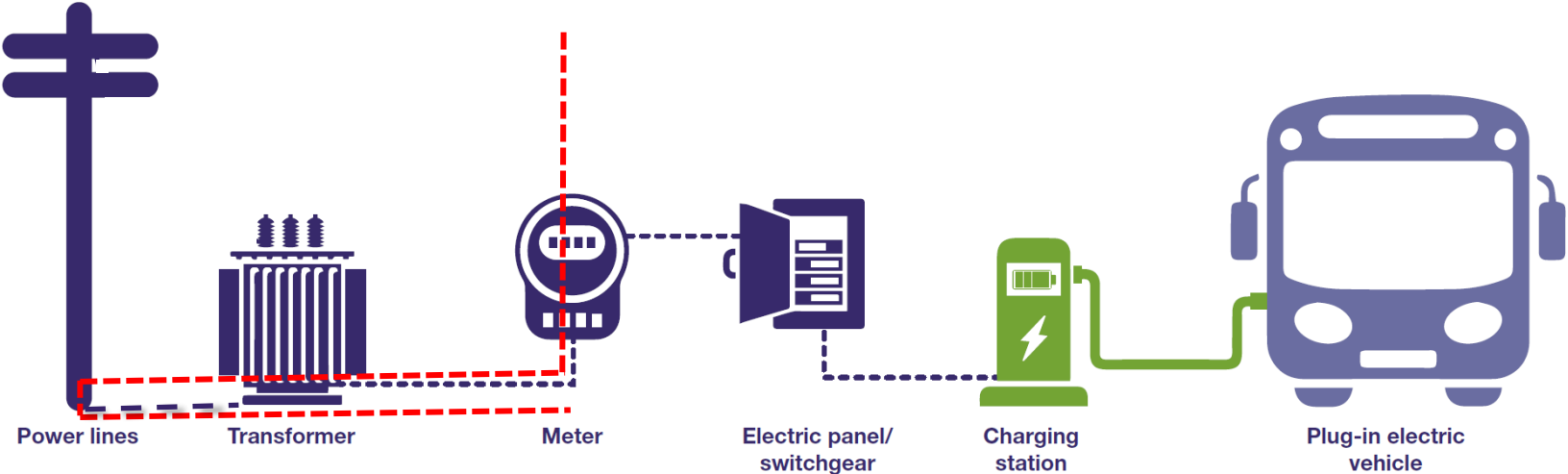
# Active Pilots (latest forecast)

\$millions



Totals may not foot due to rounding

# Make-Ready infrastructure as it applies to eBus and Commercial pilots



Traditional Utility Infrastructure

Hawaiian Electric Owned Make-Ready Infrastructure

Hawaiian Electric Owned Public Charging

## Anticipate 3 eBus and 18 Commercial Sites

- eBus (launched Q1 2022, extended through 2025)
- Commercial (launched Q4 2022, extended through 2025)



## 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

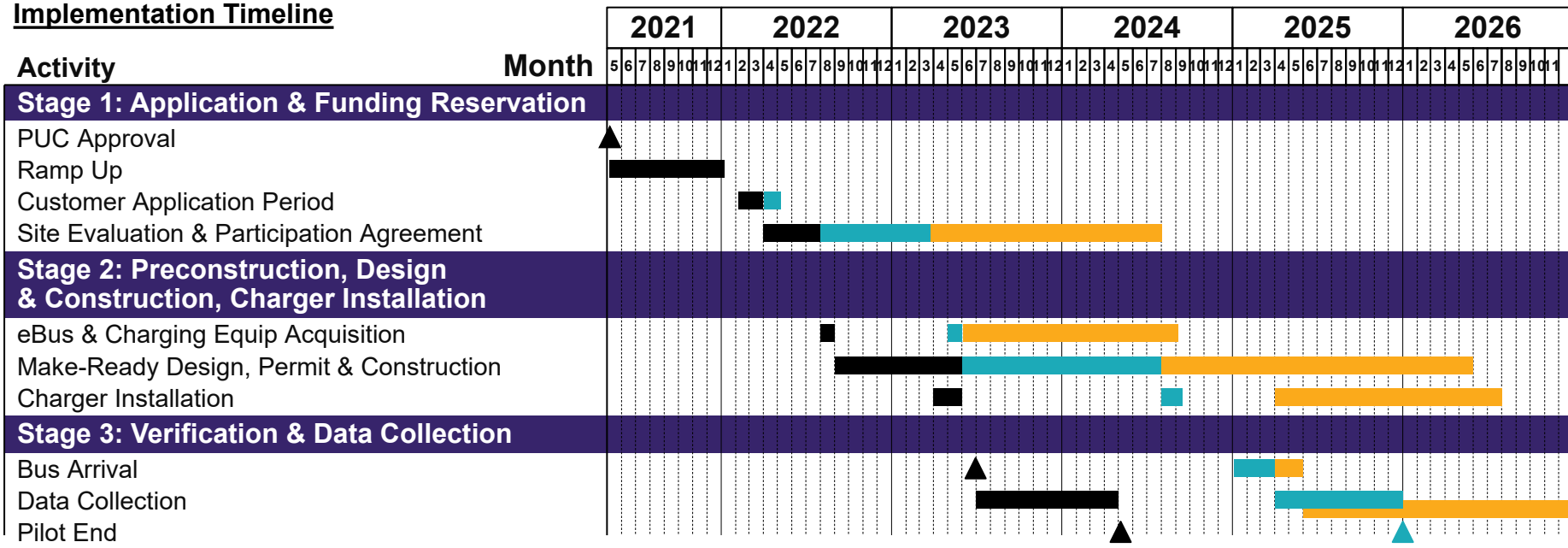
- Implementation Process/Customer Journey
- Final Program Design Report & Appendices
- Annual Updates/Spring Reports
- Infrastructure for up to 20 charging ports at customer sites

## Risks

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



## Implementation Timeline



■ 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. Currently anticipating 18+ months.
- Risk for longer than expected permit timelines.





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	51%
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**

**58%**

**Updated Forecast (on track)**

U2408

\$000s	2021	2022	2023	2024	2025	TOTAL
<b>TOTAL</b>	<b>87</b>	<b>183</b>	<b>29</b>	<b>464</b>	<b>3,469</b>	<b>4,232</b>



## 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.

## Updates

- PUC approved extending pilot through December 31, 2025
- Modifications to the pilot program:
  - 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
- 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.

## 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 Charging Ports	10

Schedule KPIs (as of 8/31/24)	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 Participation Agreement	854 Executed	613 Executed	145 Executed
Days in permitting review	Design pending customer approval	124	Design pending customer approval
Days in construction			
Days to install and commission charging equipment (customer)			



## Description & Scope

Provide make-ready charging infrastructure to eligible fleets, MUDs and commercial sites. Pilot is targeting 18 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 18 sites

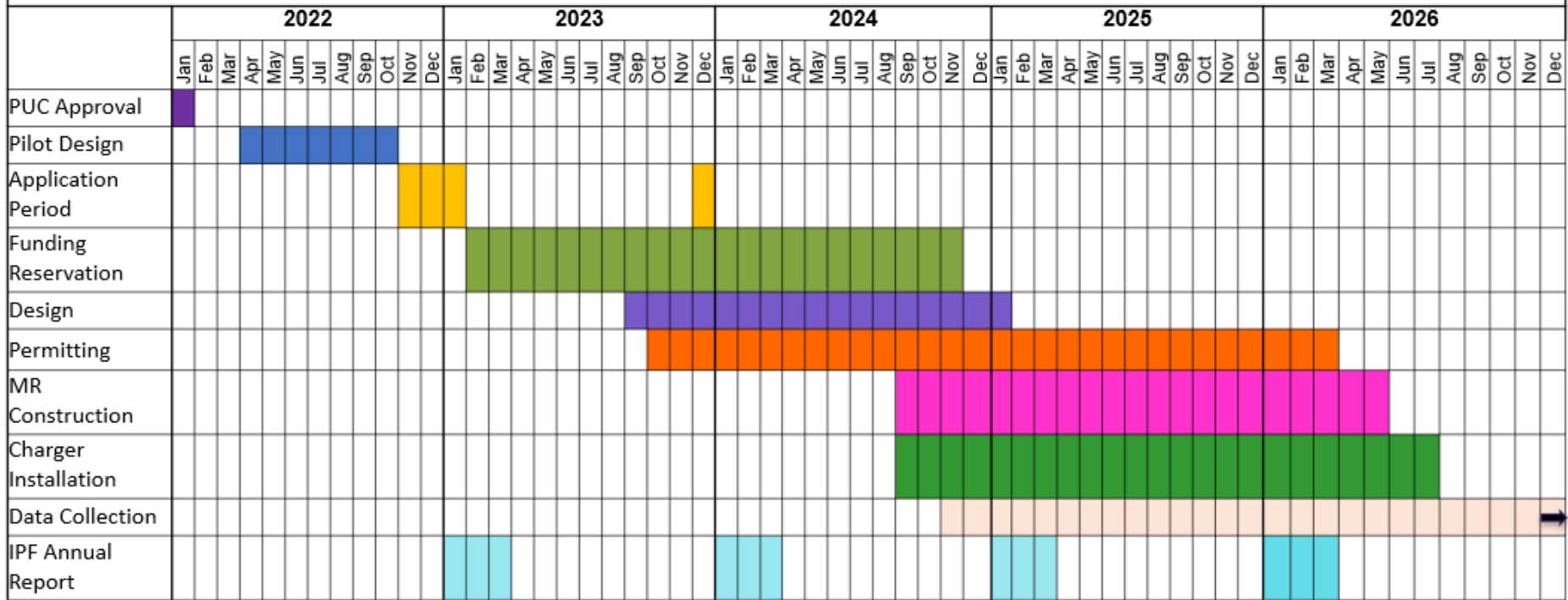
## Risks:

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



## Implementation Timeline

**Commercial Charge Up - Estimated implementation timeline with extension to end of 2026 (18 sites)**



**Factors contributing to the need for Implementation Schedule adjustments:**

- Long permit timelines (1 permit approved – 10 months)
- Reopened application portal for 12/23 (gained additional 4-7 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	97%
Participation Agreements Executed	10/1/24	83%
Final Design	12/1/24	73%
Make-Ready Construction Complete	12/1/25	
Charger Installation Complete	12/1/25	6%
Data Collection	12/1/25	
Final Report	3/31/26	
<b>Overall</b>		<b>60%</b>

## Updated Forecast (on track)

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



## Observations & Lessons Learned

- eBus pilot informed Commercial Make Ready implementation
  - Cost cap
  - Reduce data requirement
- Anticipate 18 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
  - 1 permit approved thus far (10 months)

# Charge Up Commercial

## Updates

- PUC approved waiving separately metered service and EV rate enrollment requirements for sites with no alternative, install sub-meter in lieu of dedicated meter (6-8 sites)
- Considering filing for an extension
  - No cost extension
  - Construction and materials and internal labor pushed out

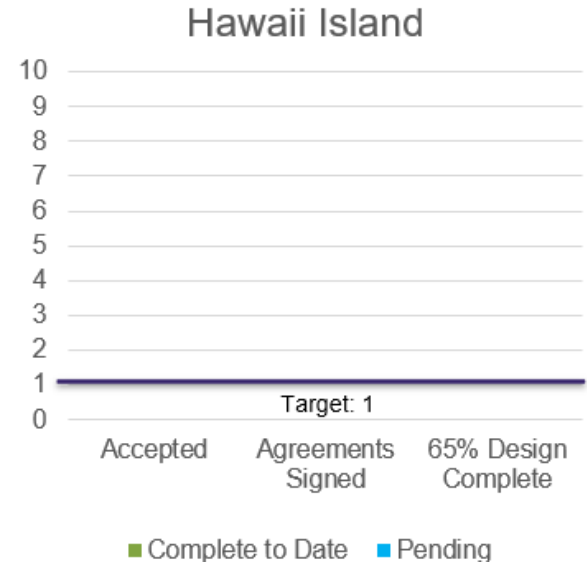
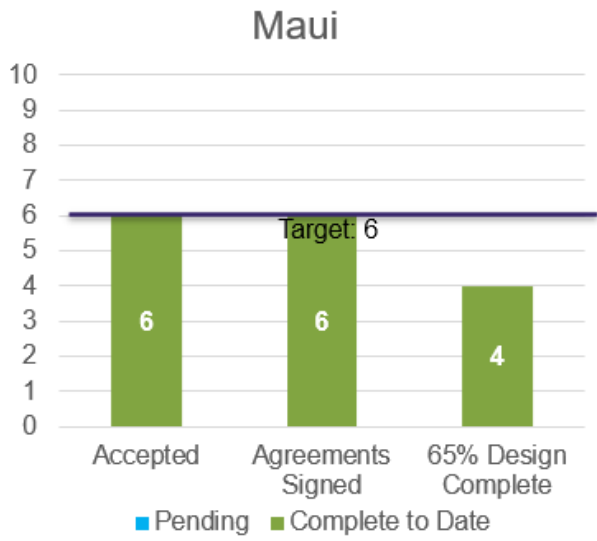
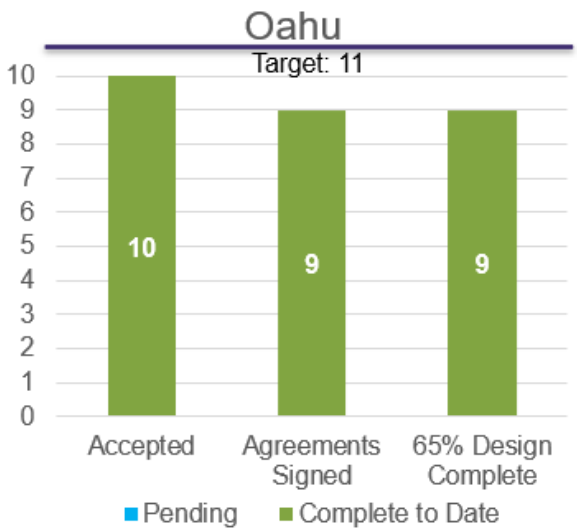
## Next steps:

- 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	35
Applications Withdrawn	16
Applications Pending	2
Participation Agreements Executed	15

## 2024 Target: 18 agreements



## 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

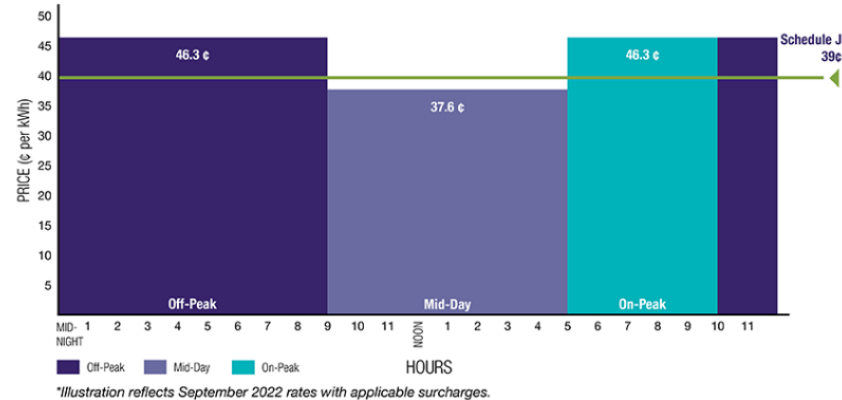
## Major Deliverables:

- Annual reports

**GREEN status.**

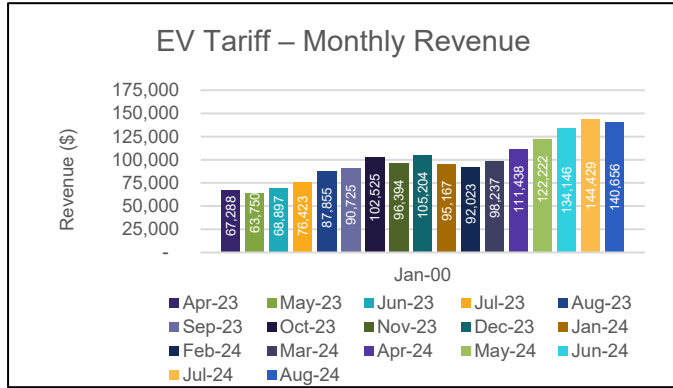
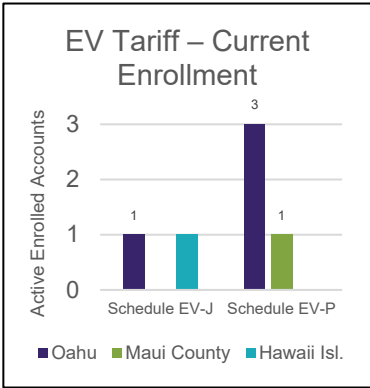
No budget.  
No deliverables schedule beyond annual reports.

**O'ahu EV-J Compared to Schedule J**  
(For illustrative purposes only)



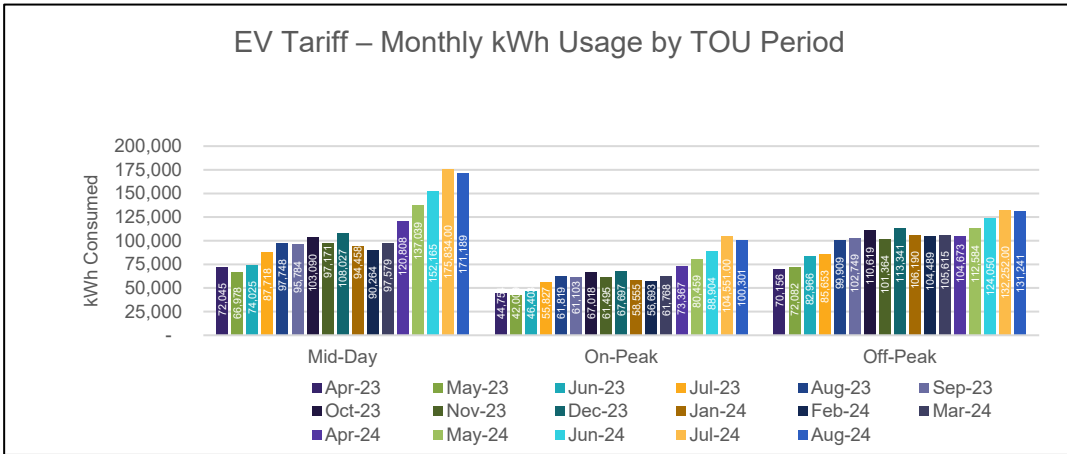


# EV-J and EV-P Tariff Pilot



### Key Risks & Takeaways:

- Sustained interest from eligible customers.
- Enrollment rate 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 separately-metered service remains a barrier to enrollment for some.
- There is an opportunity to increase enrollment by using revenue-grade 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: 3 accounts
  - Maui County:
    - EV-P: 1 account
  - Hawaii Island:
    - EV-J: 1 account
- Continuing to explore ways to facilitate enrollment process

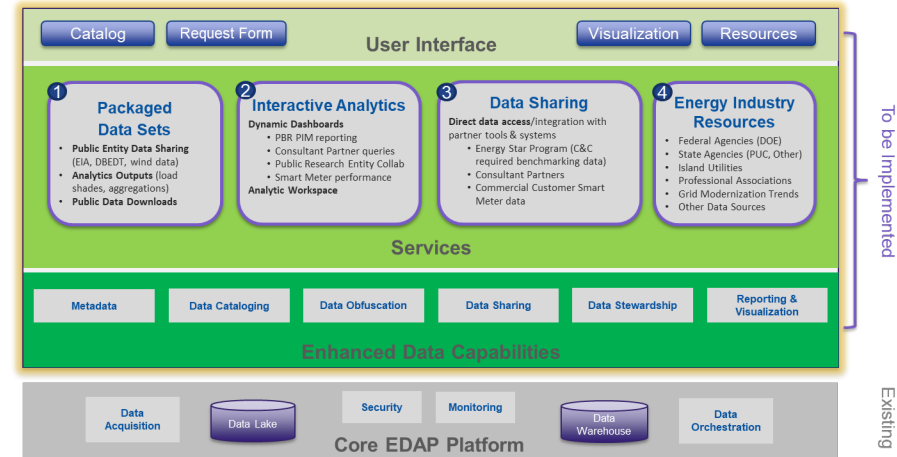


## Description & Scope:

- 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 decision-making**, and other data analysis & reporting needs

## Objectives:

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

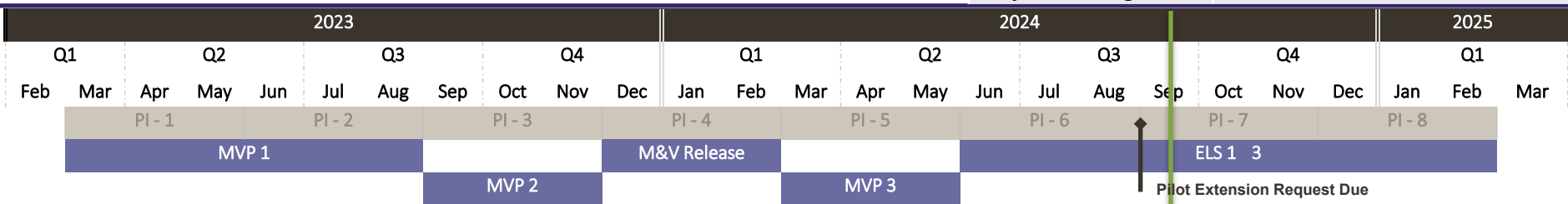


## Major Deliverables:

- 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

# Data Analytics Clearinghouse (DACH) - Timeline

Division	Enterprise Architecture & Planning
Project Manager	Joel Wasson



## Status Update (Sep-24): Green

Program Increment 06 extended to 09/23/24

Program Increment 07 in planning with proposed end date 12/13

- Filed "Hawaiian Electric Companies' Data Analytics Clearinghouse Pilot Status Update" 09/05
- Released to portal Site Types interactive reports providing interactive report of energy consumption patterns and the impact of rooftop solar installations across different site types (e.g., Office, Apartment, Shopping Centers, Hotels, Hospitals, Single-Family Home etc.)
- AMI data refreshed through Q2.2024
- Working with Hawaii Energy to enable guest accounts and delta sharing options dependent on their available technology

## Next steps:

- Finalize infrastructure work and portal alternatives during PI 07
- Continue review session with participants & update data sets as requested and based on internal priorities
- Draft Annual Pilot Update indicating direction for clearinghouse functions in 2025

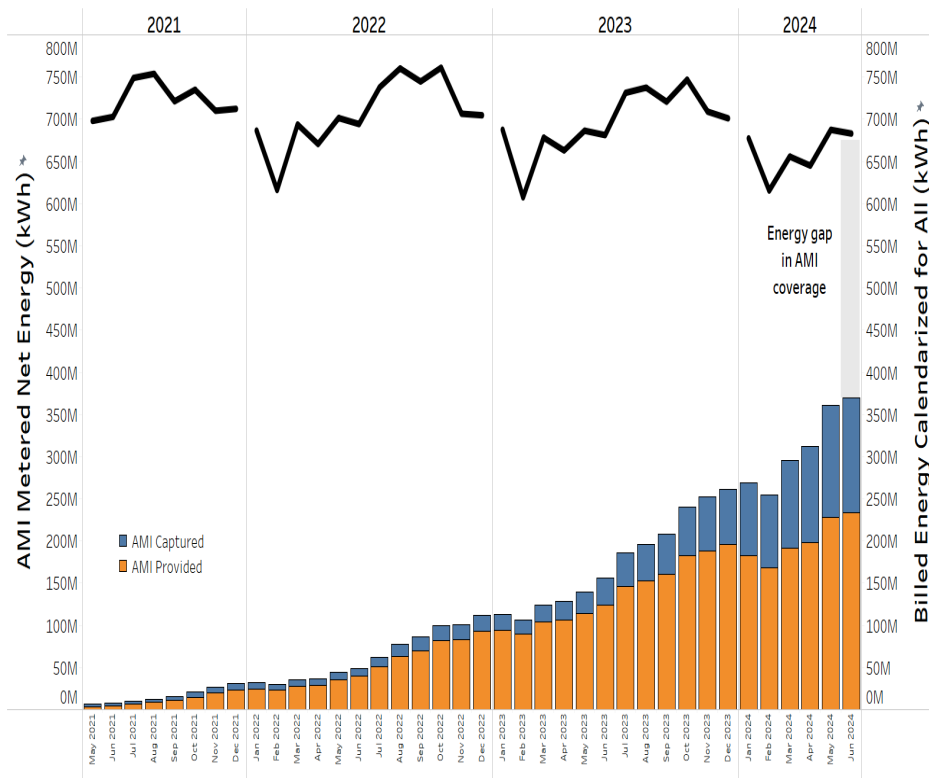
Major Deliverables	%	Start	Target
<b>Project Initialization</b>	100%	2/6/23	2/27/23
<b>PI-1</b>	100%	2/27/23	5/30/23
<b>PI-2 &amp; MVP R1</b>	100%	5/31/23	8/29/23
<b>PI-3 &amp; MVP R2</b>	100%	8/30/23	12/3/23
<b>PI-4 M&amp;V Release</b>	100%	12/4/23	3/1/24
<b>PI-5 &amp; MVP R3</b>	100%	3/4/24	5/31/24
<b>PI-6 ELS - 1</b>	85%	6/3/24	8/30/24
<b>PI-7 ELS - 2</b>	0%	9/23/24	12/13/24
<b>PI-8 ELS - 3 (TBD)</b>	0%	TBD	TBD

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

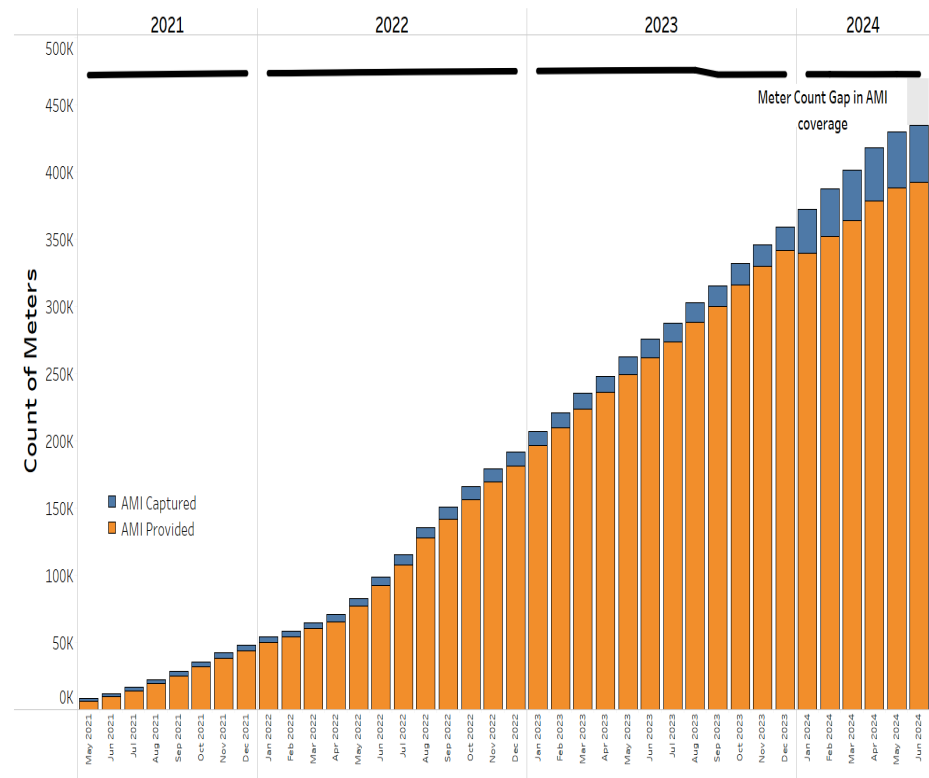
\$000s	2023	2024	2025	Total
Updated Forecast	1,645	877	209	2,731

# Sample Analysis on AMI vs non-AMI data

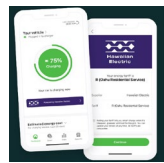
Innovation Pilot - AMI Dataset Information - Energy Value Comparison Anonymized vs. AMI Metered vs. Total Billed Datasets



Innovation Pilot - AMI Dataset Information - Counts - Comparison Anonymized vs. AMI Metered vs. Total Billed Datasets



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

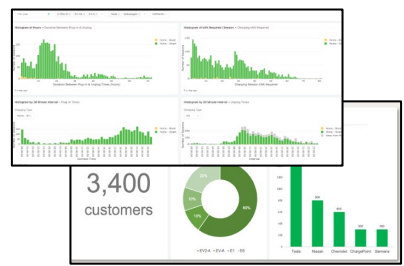


**4. Vendor/partner** provides customer app where drivers can view charging and Pilot details



**2. OEMs** enabled to share EV telematics data with third parties

**3. Vendor/partner** collects telematics by 'scraping' from OEM APIs and through direct relationships



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



### 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



## 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	Ongoing
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 - September 2024	In progress
Pilot close – data collection ends	December 2024	Pending
Send out the \$75 completion incentives (or 5,000 HawaiianMiles)	December 2024	Pending
Post-pilot focus group with up to 10 participants / Survey all participants	December 2024 or January 2025	Pending
Wrap up, analysis and future planning	December 2024	Pending



\*Dates may be subject to change

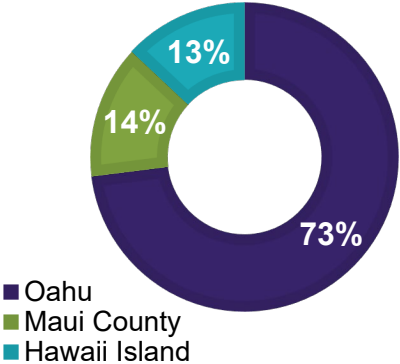
## Enrollment Details

(As of 9/11/2024)

### Connected Drivers\*



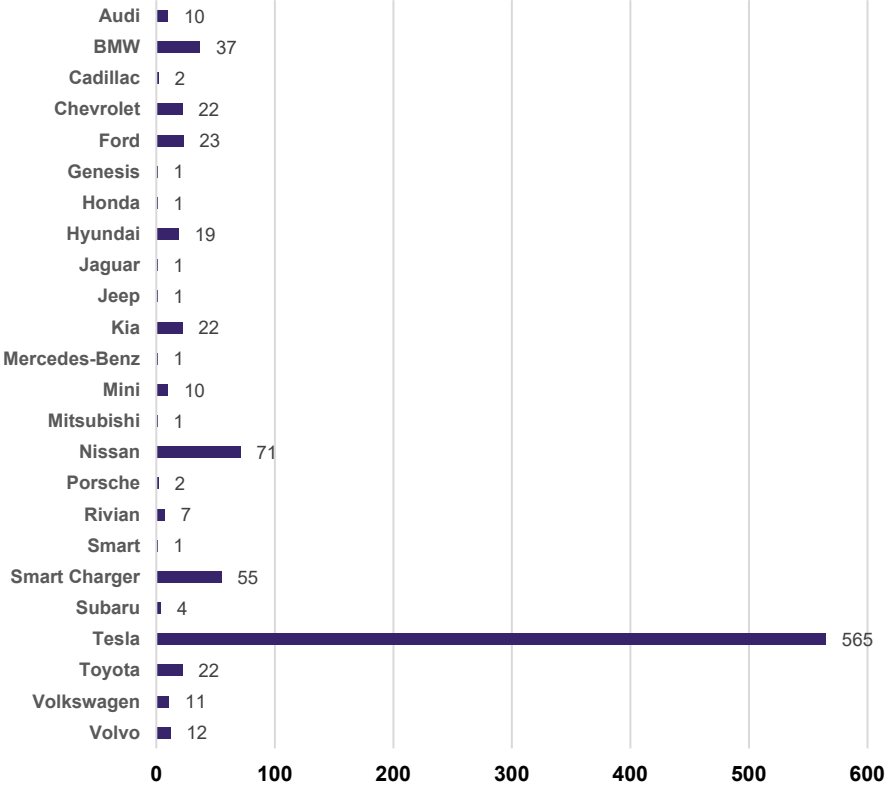
### Service Area Distribution



\* Includes Smart Chargers



## EV Makes





## Pilot Updates

- KHON2/Living808 Live TV Segment with Kelly Simek led to boost in enrollment
- **One-on-one focus interviews scheduled with Smart Charge Hawaii participants end of September**
  - Intended to collect qualitative feedback on pilot design and experience
- **Mid-year refresh of telematics data being uploaded into Data Analytics Clearinghouse**
- **Smart Charge Hawaii Promotional Activities:**
  - Building Industry Association of Hawaii Home Building & Remodeling Show (Aug 9 – 11)
  - Utility Planning for EVs on the Grid – EUCI Conference (Sept 17 – 18)
  - National Drive Electric Week - Oahu, Hawaii Island, and Maui events (Oct 5)
- **ev.energy platform improvements**
  - Customer facing app enhancements (e.g., improved charge session graphs, location onboarding improvements, reduced steps to connect to app)
  - New integrations with OEMs and vehicles will benefit drivers on waitlist (to be formally announced Sept 23)
- **Pursual of federal funding to continue Smart Charge Hawaii post-pilot**
  - ev.energy leading proposal to expand on Smart Charge Hawaii and test out managed charging solutions
  - Currently at early application stage – awaiting feedback from DOE





# Pilot Pipeline

# Innovation Pilot Framework (IPF) pipeline status board

Stage 1: New Ideas  
& Opportunities

Gate 1: Initial  
Screening

Stage 2: Sort &  
Refine Opportunities

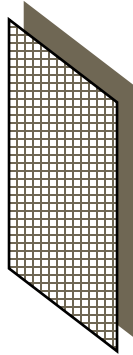
Gate 2: Assessment  
Screen for IPF

Stage 3: Prioritize  
& decide

Gate 3:  
Authorize & NOI

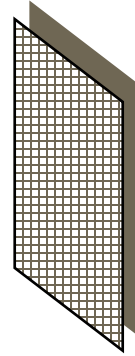
Stage 4:  
Execution

1<sup>st</sup> Level Vetting

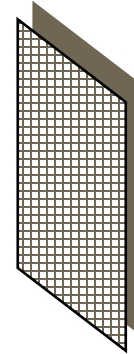


Immersive Learning

Falling Conductor



2<sup>nd</sup> Level Vetting



Charge Up  
eBus

Charge Up  
Commercial

EV-J and EV-P  
Tariff Pilot

Data Analytics  
Clearinghouse

Residential EV  
Telematics

Stakeholder Engagement



# What's next?

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- ◆ Next quarterly IPF stakeholder meeting: Dec. 4 (1:00-2:30pm)
- ◆ Save the dates in 2025:
  - Mar. 19 (1:00-2:30pm)
  - June 18 (1:00-2:30pm)
  - Sept. 17 (1:00-2:30pm)
  - Dec. 10 (1:00-2:30pm)



# Innovation Pilot Framework Website

Website: [hawaiianelectric.com/IPF](http://hawaiianelectric.com/IPF)

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

## Innovation

Innovation

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Our Process

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Submit Ideas & Proposals

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Innovation Pilot

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Frequently Asked Questions

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Contact Us

### Innovation Pilot Framework

On December 23, 2020, the Hawaii Public Utilities Commission ("the Commission") issued a Pilot Process to "foster innovation by establishing that test new technologies, programs, business models, and other approaches that may be beneficial to customers and the State of Hawaii."

This page provides links to the relevant orders establishing the Innovation Pilot, as well as links and information related to approved pilots.

#### Goals and Guiding Principles

This Framework will be guided, in part, by the Commission's overall IPF of (1) a customer-centric approach, (2) administrative efficiency, and (3) a framework designed to achieve the following guiding principles: Innovation, Customer-Focused, Speed and Ownership. Learn more about the Framework in the Innovation Pilot Framework document (Exhibit 1).

#### Areas of Collaboration (AOC)

Hawaiian Electric, in collaboration with the Commission, the Consumer Protection Docket, identified the following Areas of Collaboration (AOC) under the IPF. In selecting projects under the IPF, we will give strong preference to Low-to-Moderate Income (LMI) customers from across the State.

Click below for a description of each AOC. To learn more about the IPF, visit [www.hawaiianelectric.com/ipf](#).

1. Decarbonization
▼

2. Customer Resources and Services
▼

### Approved and Upcoming Pilot Projects

To maximize flexibility and foster innovation, we intend to utilize a variety of mechanisms to solicit pilot projects. These mechanisms include, but are not limited to, discussions and inquiries initiated by us or third-party stakeholders, public meetings, and formal requests for proposals.

[VIEW PILOT PROJECTS](#)

### Public Meetings Related to Pilot Projects

As part of our ongoing commitment to transparency and sharing lessons learned about pilot projects, we hold quarterly meetings. If you would like to be added to the mailing list and meeting invitations, please email [innovation@hawaiianelectric.com](mailto:innovation@hawaiianelectric.com).

Date	Meeting Slides
9/6/23 at 1-2:30 p.m. HST	Pilot portfolio status update (PDF)
6/7/23 at 1-2:30 p.m. HST	Pilot portfolio status update (PDF)
3/8/23 at 1-2:30 p.m. HST	Pilot portfolio status update (PDF)
12/7/22 at 1-2:30 p.m. HST	Pilot portfolio status update (PDF)
8/31/22	Public stakeholder meeting to discuss the IPF (PDF)
6/1/22	Public stakeholder meeting to discuss the IPF (PDF)
10/19/21	Stakeholder engagement meeting (PDF)
9/28/21	Stakeholder engagement meeting (PDF)
9/7/21	Stakeholder engagement meeting (PDF)
8/24/21	Stakeholder engagement meeting (PDF)

### Docket Filings and Workplan

[Innovation Pilot Framework Workplan \(PDF\)](#)  
 • October 20, 2022 – PUC Order 38663 opening IPF repository  
 • October 20, 2022 – PUC Order 38665 establishing a protection order

## Pilot Projects Listings

The IPF process is described in the Pilot Process filed with the Commission on July 26, 2021. The Implementation Phase will include pilot proposals filed as Notice of Intent (NOI). Not all pilot concepts will be cost effective or show positive business cases, as assessing cost effectiveness of a scaled-up solution may be a pilot project's primary objective. The Implementation Phase will also include the execution of approved pilot projects, and the review of those approved projects for the purpose of shared learning and possible expansion.

This status board tracks the progress of new and upcoming innovation pilot projects.

Pilot Title	Status	Start Date - Target End Date	Actual/Total (thousands)	NOI/Order/Slides
Charge Up eBus Make-Ready	Active	5/7/21 - 3/31/25	\$87k/\$4,232	D&O No. 37769 (PDF)
				D&O No. 38157 (PDF)
				D&O No. 38194 (PDF)
				NOI (PDF) Slides (PDF)
				Slides (PDF)

### Submit Your Ideas & Proposals

Please use this form to complete a submission to Hawaiian Electric's Innovation team. All information submitted through this web portal should be non-confidential. At the end of the form, you may indicate that you are interested in participating in our Innovation Pilot Framework. Our team will review all submissions and distribute information internally within the company to the appropriate subject matter experts for an initial assessment. All personal data including your name, address, email address, and other information that you provide in your submission to our Innovation website will be kept confidential and used only for the purpose of process and responding to your submission. If we are interested in learning more about your company, technology, or products, we will contact you to discuss how to proceed with next steps. However, but not limited to execution of non-disclosure agreements, scope discussions, negotiations, etc.

You will receive a direct email reply from the Innovation team within 10 business days from the date of your submission. For more information on these next steps, please see our process.

**Contact Information: \***

\* First Name  \* Last Name

Title  \* Email

\* Business Phone  \* Mobile Phone

\* For non-US citizens or legal residents of the United States, please provide your country of citizenship or residency (or legal address).

Country (optional)

\* The foregoing is being requested to assist Hawaiian Electric in determining whether there may be export rules and regulations that may apply to your technology or solution.

**Company Information:**

\* Company Name

\* Business Address

\* City  \* State

\* Zip Code  \* Country

\* Business Website

\* Company Description

No. of Full Time Employees:

**Technology Innovation Idea/Product Submission:**

A. Select the priority area and specify which initiative applies to your innovative technology or solution that meets our technology needs.





**THANK YOU**