



**Hawaiian
Electric**

Public Electric Vehicle Charger Expansion

Application Filed: October 29, 2021

Docket No. 2021-0173

Current Status

EV-U Program Concept



Current Public Charging

EV-U Pilot

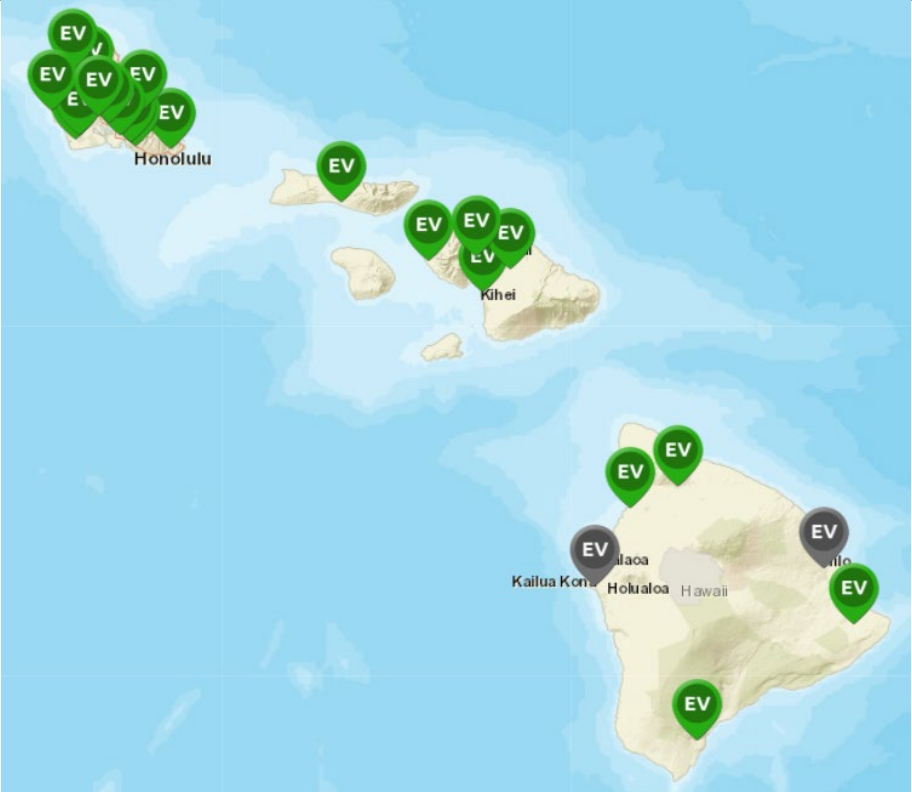
- ◆ 2013 5-year pilot for 25 metered sites across service territory
- ◆ 2017 5-year pilot extension through June 2023
- ◆ 2019 Backbone Study shows 7x need for public charging by 2030
- ◆ As of 2021, installed 21 sites and will have 25 around early 2022

EV MAUI

- 2019 PUC approves transition of 4 sites to EV MAUI program
- Different rate schedule than EV-U
- 2020 4 locations are in operation under EV MAUI



Company's Existing DC Fast Charging Locations



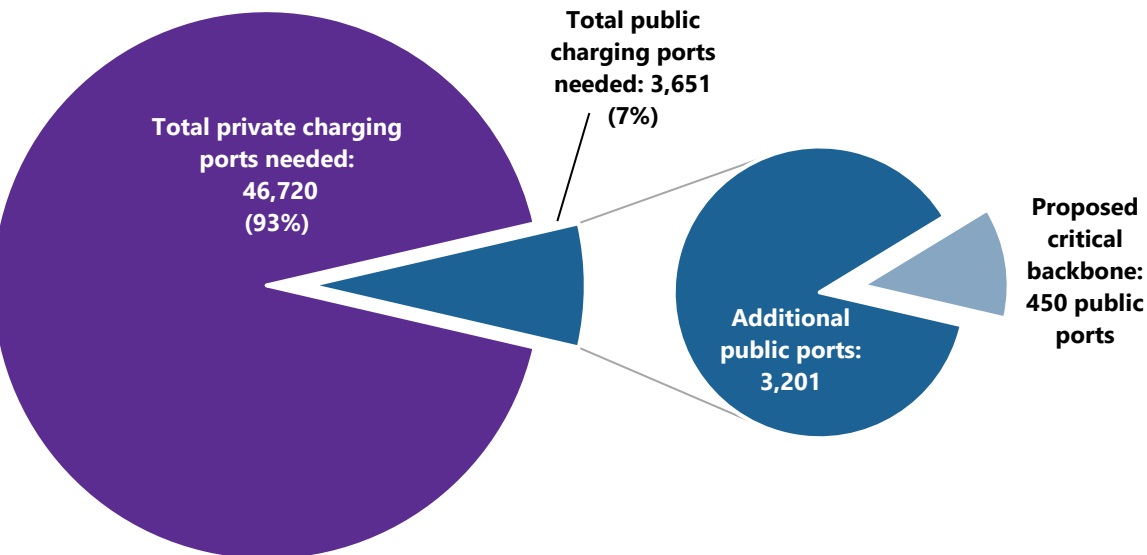
Current Status

EV-U Expansion



Project Scope

- ◆ Provide 150 single port DC Fast Charging Stations and 150 dual port Level 2 charging stations for public use.
 - Represents 28% of anticipated 2030 DCFC need
 - Represents 10% of anticipated Level 2 2030 charging need



- ◆ Cover a minimum of 75 sites across the service territories.
- ◆ Preferred site configuration of two (2) single-port DCFCs and one (1) dual-port Level 2 charging station.



Project Scope Ctd.

- ◆ Level 2 charging stations may also support areas with low utilization until a need is shown for DC fast charging or in areas where space may be limited.
- ◆ Company aims serve as a trusted advisor throughout the installation, energization of the EV charging stations, and maintain the EV charging stations in a reliable manner.
- ◆ Market Education and Outreach is budgeted to ensure continued success of project.



Key Takeaways

- ◆ The Project will expand Company owned and operated public electric vehicle (“EV”) charging stations across our service territories from 2023 through 2030
- ◆ Scope serves small part of identified need for charging by 2030.
- ◆ Maintenance and repair of chargers
- ◆ Proposed updated EV-U rate
- ◆ Total cost is projected at \$79M



Justification / Benefits

- ◆ Aligned with Corporate Strategic objectives
- ◆ Aligned with national, state, and counties' clean transportation policy.
- ◆ Responsive to Commission's prior stated view that “a more permanent structure for public commercial EV charging, rather than a term-limited pilot, would send a stronger signal of support [for long-term growth in EV infrastructure, thereby encouraging continued EV market development].”
- ◆ Incentivizes EV adoption, which in aggregate promotes rate affordability in the long term.
- ◆ Creates new engagement pathways to customers.



Charge Up Hawaii Findings

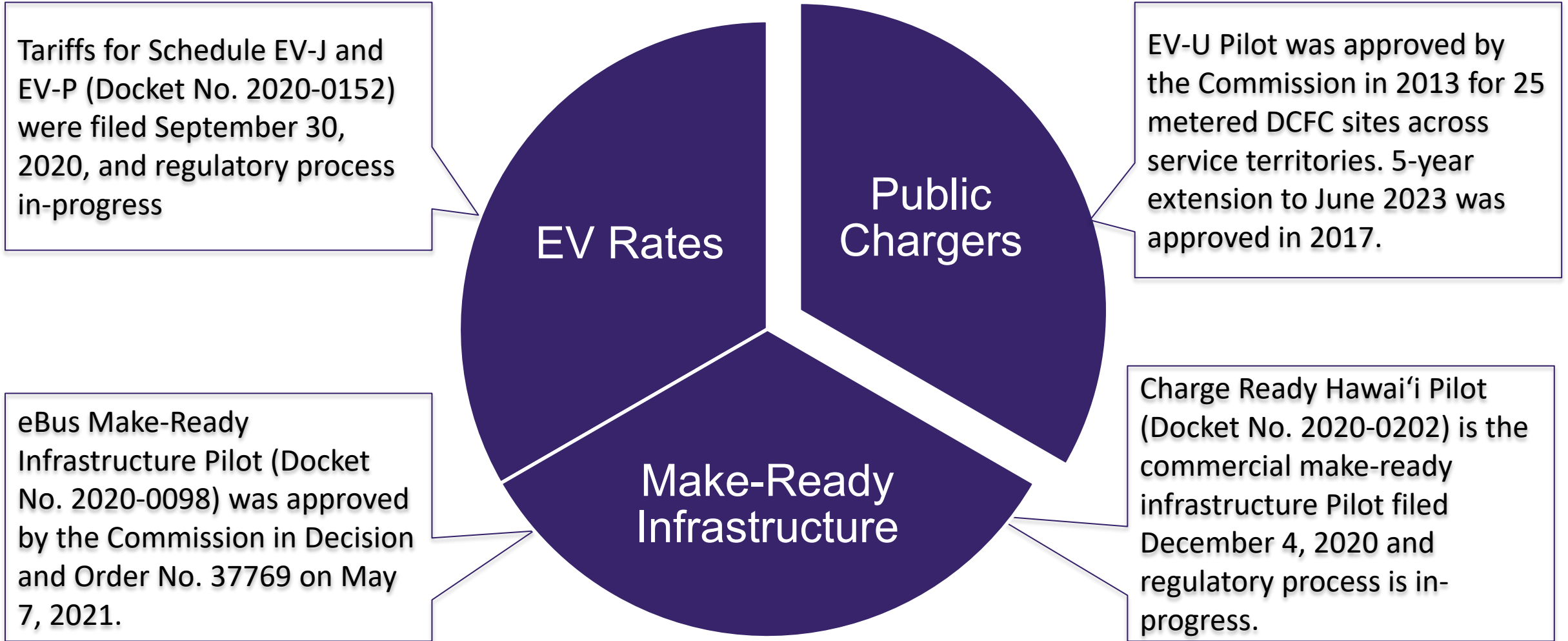
- ◆ 2,045 Survey Responses
- ◆ 1,812 suggested charging station locations
 - 1,136 Oahu pins
 - 335 Hawaii Island pins
 - 297 Maui pins
 - 32 Lanai pins
 - 12 Molokai pins

Census tracts with highest number of pins

Neighborhood	Census Tract	Number of Pins
Ala Moana	37	69
Kakaako	38	38
Ka'u	212.02	37
Kula	303.01	35
Kawaihae-Waikoloa	217.04	32
Lana'i	316.01	32
Hawaii Kai Marina	1.08	29
Civic Center	39	29
Hilo: Keaukaha-Pana'ewa	206	27
Hana	301	26
Pa'auhau-Pa'auilo	220	26



Aligned with other EoT Programs





Mahalo.

Questions?