Program Advisory Council Meeting
Q1 2023
# Agenda

<table>
<thead>
<tr>
<th>Topic</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductions / Safety</td>
<td>10 Minutes</td>
</tr>
<tr>
<td>Electric Vehicle Charge 2 (EVC2)</td>
<td>5 Minutes</td>
</tr>
<tr>
<td>Schools &amp; Parks Programs Updates</td>
<td>10 Minutes</td>
</tr>
<tr>
<td>EV Fast Charge Program Updates</td>
<td>10 Minutes</td>
</tr>
<tr>
<td>EV Fleet Program Updates</td>
<td>10 Minutes</td>
</tr>
<tr>
<td>VGI Pilots</td>
<td>10 Minutes</td>
</tr>
<tr>
<td>2023 Residential Program Launch Update</td>
<td>5 Minutes</td>
</tr>
<tr>
<td>Q &amp; A</td>
<td>20 Minutes</td>
</tr>
</tbody>
</table>
Safety

Spring has Sprung!

- Don’t place hands inside toolbox without looking first
- Don’t wear loose clothing or jewelry around machinery
- Don’t use tools for anything other than what they’re designed to do

- Make sure ladder is on level ground and is secured before climbing
- Only take small items up/down ladder
- Never lean or reach away from ladder

- Beware of rocks, screws, metal wire fragments in lawn
- Turn off mower completely before clearing grass from mower
- Wear protective eyewear

- Stay indoors on dry, windy days
- Keep indoor air dry with a dehumidifier
- Close doors and windows at any time when pollen counts are high

- Wear gloves
- Watch for pests/insects
- Avoid repetitive motions and back bending
Clean Transportation Program Advisory Council

Overview

• PG&E has expanded our efforts on transportation electrification (TE) with a number of filings, pilots and programs in progress
• CPUC has directed PG&E to consult a Program Advisory Council in the development of key TE pilots and programs to gain feedback from industry stakeholders
• This platform will serve to gather insight and feedback on PG&E’s proposals and ongoing programs
EV Market Update

511,967 EVs registered in PG&E service territory through December 2022

Source: EPRI, Based on external registration data through December 2022

Cumulative New EV Registrations PG&E Service Territory

New EV Registrations by Quarter

Quarterly New Vehicle EV Market Share

Cumulative EV Registrations

Internal
Electric Vehicle Charge 2 (EVC2)
AB 1082, AB 1083 & SB 350
Standard Review Projects
EV Charge Schools & Parks Update
In support of AB 1082, EV Charge Schools will install **L2 charging infrastructure for passenger vehicles** at school facilities and educational institutions to further promote CA’s electrification goals.

### Program Summary

**Offering:** Make-ready infrastructure for L2 charging infrastructure for passenger vehicles at schools  
**Amount:** Rebates up to $11,500 (L2 single)/up to $15,500 (L2 dual) for schools program or utility-sponsored  
**Model:** Utility owned make-ready + customer or PG&E owned EVSE  
**Budget:** $5.76M from 2021 - 2023  
**Scope:** up to 22 schools, range of 88-132 L2 ports  
**Equity:** 40% of school project sites
EV Charge Schools Program Update

Status as of 3/31/2023

<table>
<thead>
<tr>
<th></th>
<th>Sites</th>
<th>Ports*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>71</td>
<td>426</td>
</tr>
<tr>
<td>Contracted Sites</td>
<td>13</td>
<td>78</td>
</tr>
<tr>
<td>Pre-Construction</td>
<td>6</td>
<td>36</td>
</tr>
<tr>
<td>Constructed</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Activated</td>
<td>1</td>
<td>6</td>
</tr>
</tbody>
</table>

*Targeting 6 ports per site

Program Updates

- Inclement weather affected construction of 2 sites in Q1 2023
- EV Curriculum complete and available online
  - Virtual curriculum training for schools in the program held in October 2022
  - Recorded training + curriculum to be made available to every K-12 school in PG&E territory

Program Budget Overview

<table>
<thead>
<tr>
<th>Spend-to-Date</th>
<th>Remaining Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1.96M</td>
<td>$3.20M</td>
</tr>
</tbody>
</table>

Lessons Learned/Best Practices

- **Program Interest**
  - Organic interest in the program despite a high rate of declining sites at pre-application

- **Dynamic Marketplace**
  - Extended supply chain lead times on switchgear
  - DSA approval times was impacted

- **Customer Engagement**
  - Customer delays due to layers of school district approvals
EV Charge Schools Contract + Site Update

Sites with signed contracts*

- Geographic dispersion of sites
- Trending to achieve the 40% DAC target
- Currently engaged with and performed outreach with pre-identified disadvantaged communities

<table>
<thead>
<tr>
<th>DAC Status</th>
<th>In DAC</th>
<th>Outside DAC</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contracts</td>
<td>6</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>Ports</td>
<td>36</td>
<td>42</td>
<td>78</td>
</tr>
</tbody>
</table>

* 3 DAC sites within same zip code
EV Charge Parks Program Update

Status as of 3/31/2023

<table>
<thead>
<tr>
<th></th>
<th>Sites</th>
<th>Ports*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Contracted Sites</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Pre-Construction</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Constructed</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Activated</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Program Update

- Working on streamlined Master Service Agreement
- Planning on strategy to visit sites and produce conceptual designs
- State Parks requested to remove dedicated State Parks Fleet charging from scope of work, adjusting budget and master agreement language accordingly

Program Budget Overview

<table>
<thead>
<tr>
<th>Spend-to-Date</th>
<th>Remaining Funds</th>
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<tr>
<td>$486K</td>
<td>$5.05M</td>
</tr>
</tbody>
</table>

Lessons Learned/ Best Practices

- Current progress dependent on engagement from the Parks Department
- Turnover at Parks Department has impacted review timelines
- DAC definition makes it inherently difficult to qualify Parks and Beaches (25%)
**EV Charge Parks Site Update**

- PG&E analysis identified 34 potentially eligible State Parks and Beaches sites for EV Charge Parks Program.
- Some dots represent more than 1 Park due to overlapping zip codes.

### Program Scope

<table>
<thead>
<tr>
<th>Scope</th>
<th>Time</th>
<th>Budget</th>
<th>Sites</th>
<th>DAC</th>
<th>Rebates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parks Program</td>
<td>2 years</td>
<td>$5.54M</td>
<td>State parks/beaches (fleet and public)</td>
<td>25% of sites</td>
<td>PG&amp;E Sponsorship</td>
</tr>
<tr>
<td>15 parks/beaches</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40 L2 ports</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 DCFC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Additional Program Components
- Awareness raising: Signage and PR efforts for parks/beaches
- Exploring opportunities to deploy chargers in Tribal Communities
EV Fast Charge
EV Fast Charge Program Update

Status as of 3/31/2023

<table>
<thead>
<tr>
<th></th>
<th>Sites</th>
<th>Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>256</td>
<td>1156</td>
</tr>
<tr>
<td>Contracted Sites</td>
<td>36</td>
<td>192</td>
</tr>
<tr>
<td>Constructed</td>
<td>14</td>
<td>66</td>
</tr>
<tr>
<td>Activated</td>
<td>10</td>
<td>44</td>
</tr>
</tbody>
</table>

Lessons Learned:
- Utilization across portfolio is increasing, however at vastly different rates between sites
- More customers are inquiring about pairing solar and storage with EVSE charging, presenting policy challenges

Program Budget Overview

<table>
<thead>
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<th>Remaining Funds</th>
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<tbody>
<tr>
<td>$10.1M</td>
<td>$12.3M</td>
</tr>
</tbody>
</table>

Portfolio-wide Utilization Trends

~17,000 charging sessions total

DAC Targets: Signed Contracts

GIS DAC Status
- IN DAC
- OUTSIDE DAC
- ADJACENT DAC

~36 contracts signed

- 3 (8.33%)
- 15 (41.67%)
- 16 (44.44%)
Fast Charge Sites Contracted and Activated

Activated sites and sites contracted by zip code

Status
- Activated Site
- Contract Signed
EV Fleet
EV Fleet Program Update

Status as of 3/31/2023

<table>
<thead>
<tr>
<th></th>
<th>Sites</th>
<th>MDHD EVs Committed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>379</td>
<td>-</td>
</tr>
<tr>
<td>Viable Contracts(^1)</td>
<td>170</td>
<td>3,526</td>
</tr>
<tr>
<td>Construction Complete</td>
<td>50</td>
<td>654</td>
</tr>
<tr>
<td>Activated</td>
<td>43</td>
<td>513</td>
</tr>
</tbody>
</table>

\(^1\) Viable contracts are all contracts signed to-date excluding cancelled and withdrawn

Program Highlights

- Applications continue to come in at a strong pace
- 74 of the 170 signed contracts (44%) are in DACs
- Program is seeing a good mix of vehicle types, medium duty vehicles are increasing in share
- Program budget = $236.3M; Spend-to-date = $38.4M
- PG&E filed a supplemental AL on 4/3/23 to provide additional evidence to support AL filed on 4/1/22
- EV Fleet team will attend ACT Expo in May

Viable Contracts: Vehicle Type

Lesson Learned:
Customers still struggle to understand complexity of projects and bring right decisionmakers to the table
- Charging needs and load profiles
- Costs for BtM infrastructure and how to fund
Team has been making process changes to nail down scope early on and provide customers with additional information
Activated sites and sites in construction by zip code

**Status**
- Activated Site
- Contract Signed
Additional Program Updates
Vehicle to Everything (V2X) Pilot Programs

**Pilot #1: Residential**

- **Incentives:** Up to $3,000 upfront incentives, up to $2,175 participation incentives
- **Eligibility:** Residential customer with split phase 240v electrical service
- **Enrollment target:** 1,000 customers

**Pilot #2: Commercial**

- **Incentives:** Up to $5,000 upfront incentives, up to $3,625 participation incentives
- **Eligibility:** Commercial customer with 3-phase electrical service
- **Enrollment target:** 200 customers

**Pilot #3: Microgrids**

- **Incentives:** Up to $3,750 participation incentives
- **Eligibility:** Residential and commercial customers connected to a multi-customer microgrid subject to Public Safety Power Shutoffs
- **Enrollment target:** 200 customers (eligible customers will be identified and contacted after application to Pilot #1 or #2 is submitted)
V2X Pilot enrollment is open now!

www.pge.com/VGI

- Download the application checklist (PDF, 362 KB) to find everything you need to enroll.

- Before you buy anything, use this key question guide (PDF 279 KB) to discuss your facility’s readiness for V2X with an electrician.

- Select a vehicle and its compatible charger from the eligible products list. NOTE: We are currently revising the list and will post an updated version soon.

NOTE TO MANUFACTURERS: If you want to see your product listed here, please contact vgipilotcommunications@pge.com.

PG&E will continue to update the V2X Pilot webpage with the most up to date about pilot eligibility and enrollment including new EV and EV charging equipment that becomes eligible.
2023 Residential Program Launch Update
Current Residential Program Portfolio

Low Carbon Fuel Standard (LCFS): CARB regulation to reduce emissions from transportation fuels via a carbon market.
- PG&E earns credits for providing low-carbon fuels and uses the non-ratepayer revenue to fund customer programs.

- The CPUC approved the LCFS programs in December 2021 and Empower in September 2019
- Programs #1, #2, and #5 are majority equity-focused; #4 is a resiliency program

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
<th>Amount</th>
<th>Launch Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1: Pre-Owned EV Rebate Program</td>
<td>Post-purchase rebate for pre-owned EVs. $1,000 base rebate, $4,000 for income-qualified customers.</td>
<td>$86.6M 2022-2024</td>
<td>Active (launched Feb 2023)</td>
</tr>
<tr>
<td>#2: MFH + Small Business Direct Install Pilot</td>
<td>Install low-power chargers (Level 1 and Level 2) at multifamily and small businesses with capacity on panel.</td>
<td>$25.2M 2022-2024</td>
<td>Setup Q2 launch target</td>
</tr>
<tr>
<td>#3: Residential Charging Solutions Pilot</td>
<td>Educational resources and financial support to install residential EV charging and avoid panel upgrades.</td>
<td>$7.3M 2023-2025</td>
<td>Setup Q3 launch target</td>
</tr>
<tr>
<td>#4: Resilient Charging Pilot (“evPulse”)</td>
<td>Software to communicate and/or actively manage EV charging prior to a PSPS event to ensure battery is fully charged.</td>
<td>$4.8M 2022-2023</td>
<td>Active (launched Aug 2022)</td>
</tr>
<tr>
<td>#5: Empower EV</td>
<td>Rebates to income qualified customers for home chargers and panel upgrades, plus tailored EV and rates education.</td>
<td>$4.1M 2022-2024</td>
<td>Setup Q2 launch target</td>
</tr>
</tbody>
</table>
Questions