

Program Advisory Council Meeting

Q1 2023



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Agenda

Introductions / Safety	10 Minutes
Electric Vehicle Charge 2 (EVC2)	5 Minutes
Schools & Parks Programs Updates	10 Minutes
EV Fast Charge Program Updates	10 Minutes
EV Fleet Program Updates	10 Minutes
VGI Pilots	10 Minutes
2023 Residential Program Launch Update	5 Minutes
Q & A	20 Minutes

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**



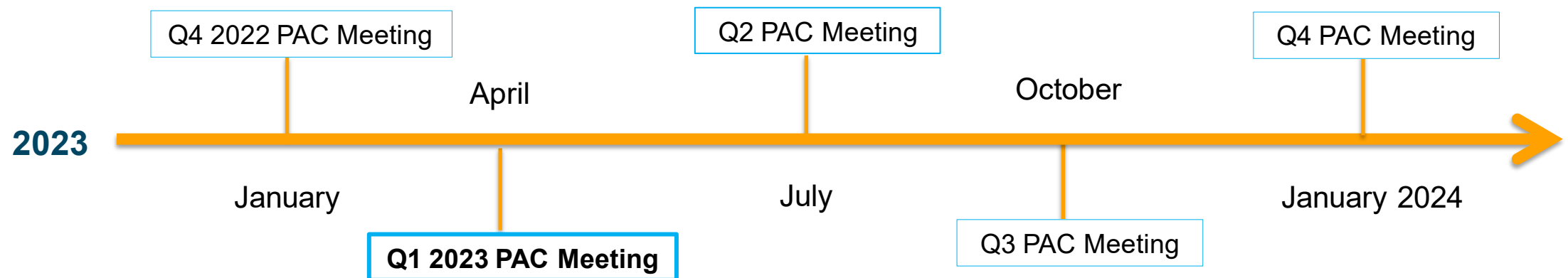
- Wear gloves
- Watch for pests/insects
- **Avoid repetitive motions and back bending**



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



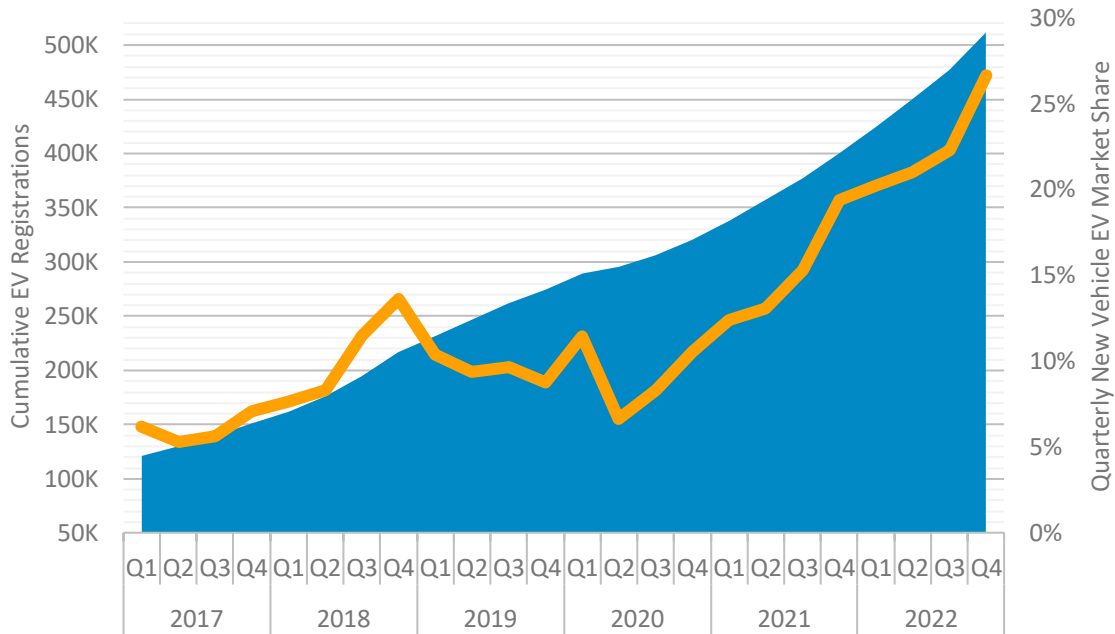


EV Market Update

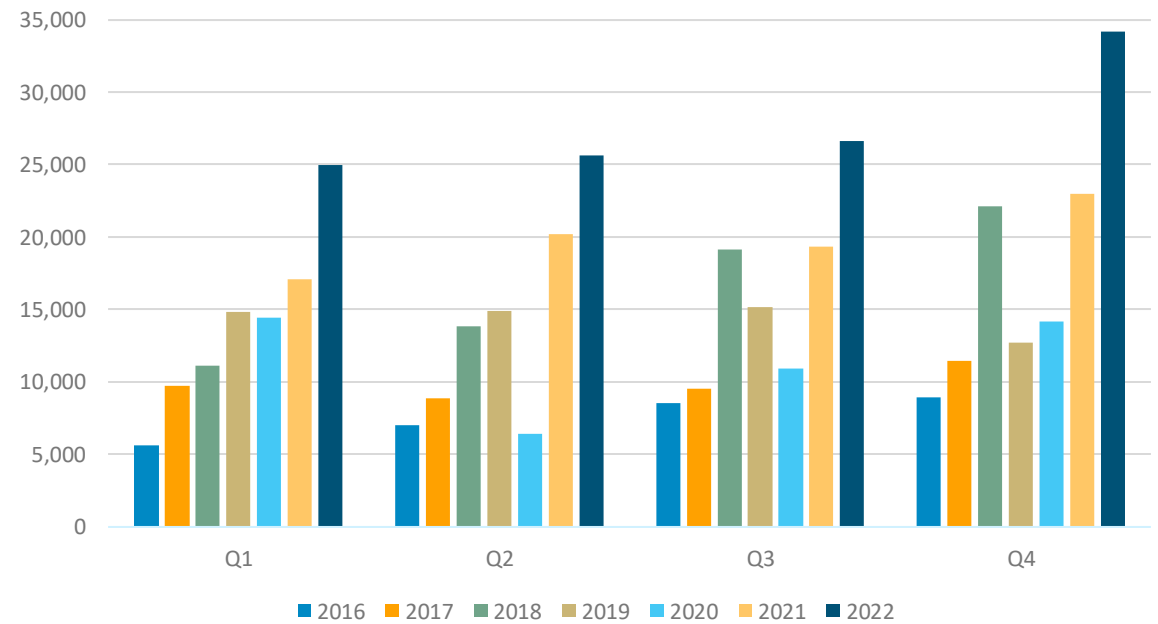
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EVs registered in PG&E service territory through December 2022

Cumulative New EV Registrations PG&E Service Territory



New EV Registrations by Quarter



Electric Vehicle Charge 2 (EVC2)



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AB 1082, AB 1083 & SB 350

Standard Review Projects



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EV Charge Schools & Parks Update



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- 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



PG&E pays for and owns "make-ready" infrastructure

Status as of 3/31/2023

	Sites	Ports*
Applications	71	426
Contracted Sites	13	78
Pre-Construction	6	36
Constructed	1	6
Activated	1	6

*Targeting 6 ports per site

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

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

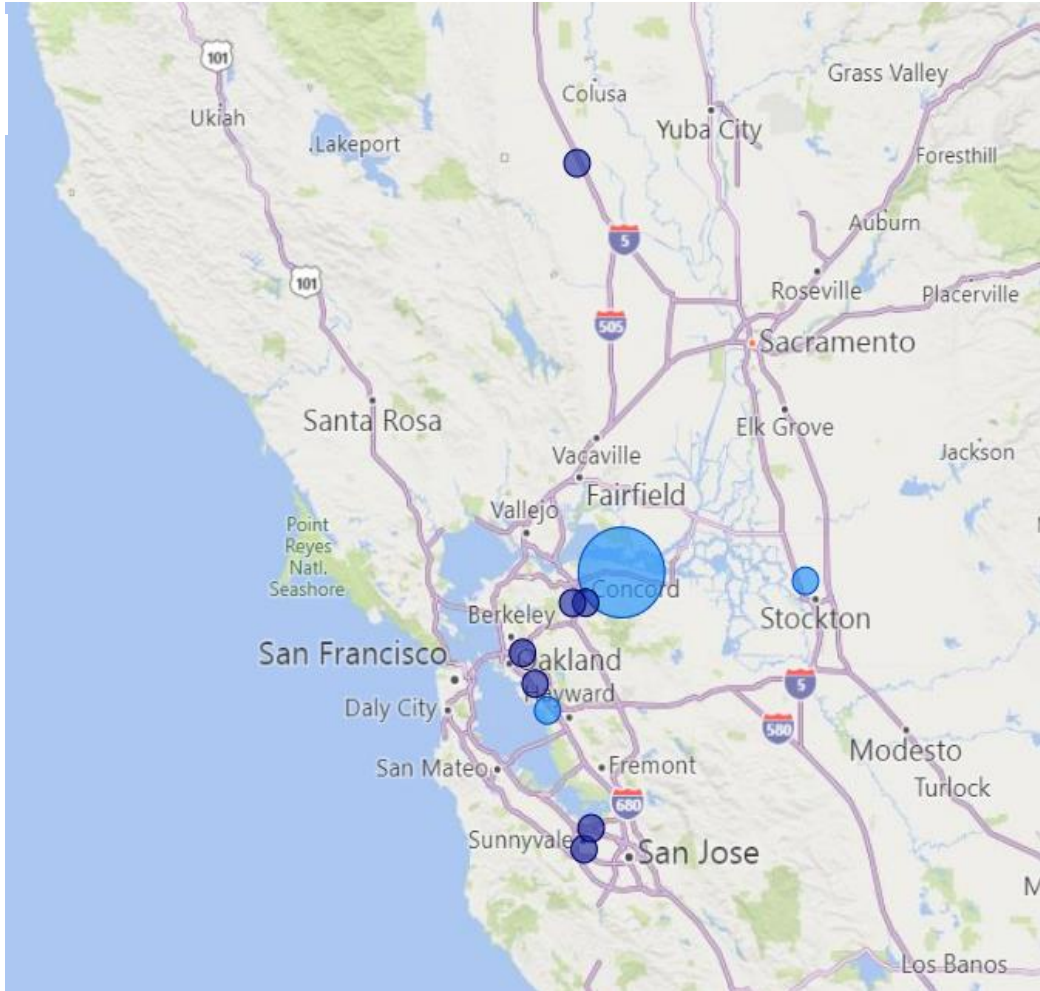
Program Budget Overview

Spend-to-Date	Remaining Funds
\$1.96M	\$3.20M



Sites with signed contracts*

DAC Status
● IN DAC
● OUTSIDE DAC



* 3 DAC sites within same zip code

	In DAC	Outside DAC	Total
Contracts	6	7	13
Ports	36	42	78

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



EV Charge Parks Program Update

Status as of 3/31/2023

	Sites	Ports*
Applications	0	0
Contracted Sites	0	0
Pre-Construction	0	0
Constructed	0	0
Activated	0	0

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%)

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

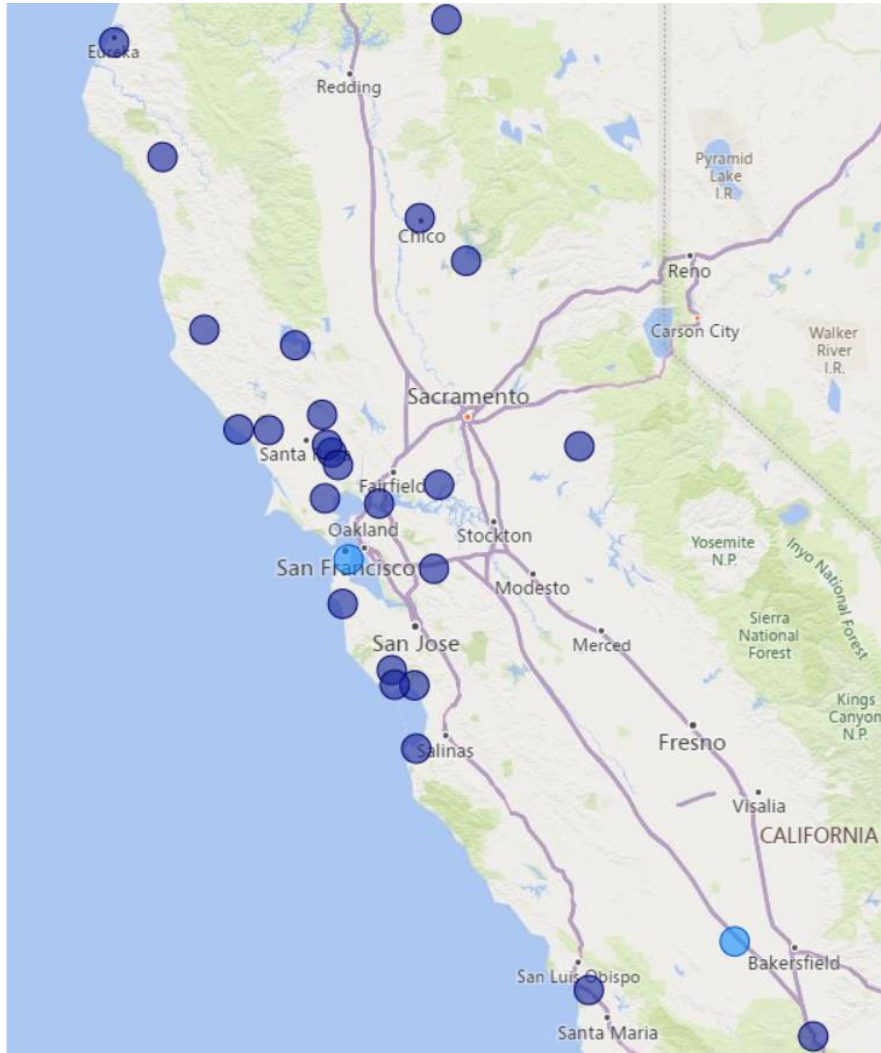
Spend-to-Date	Remaining Funds
\$486K	\$5.05M





EV Charge Parks Site Update

Sites identified by PG&E



Program Scope

	Scope	Time	Budget	Sites	DAC	Rebates
Parks Program	15 parks/beaches 40 L2 ports 3 DCFC	2 years	\$5.54M	State parks/beaches (fleet and public)	25% of sites	PG&E Sponsorship

Additional Program Components

- Awareness raising: Signage and PR efforts for parks/beaches
- Exploring opportunities to deploy chargers in Tribal Communities

- 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

EV Fast Charge



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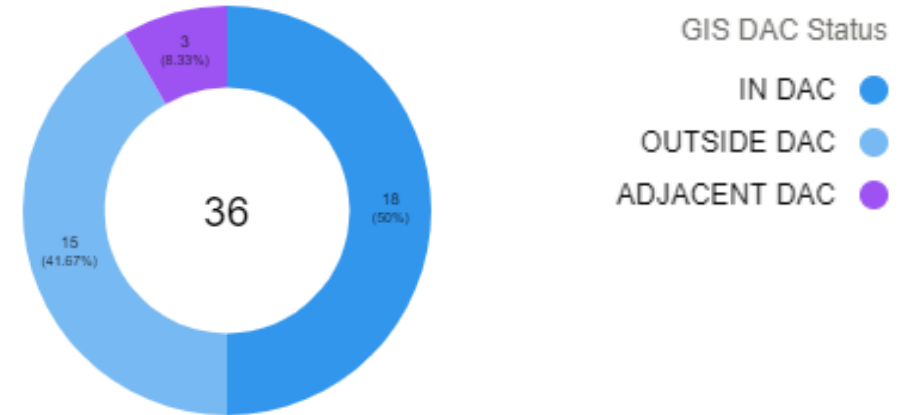


EV Fast Charge Program Update

Status as of 3/31/2023

	Sites	Ports
Applications	256	1156
Contracted Sites	36	192
Constructed	14	66
Activated	10	44

DAC Targets: Signed Contracts

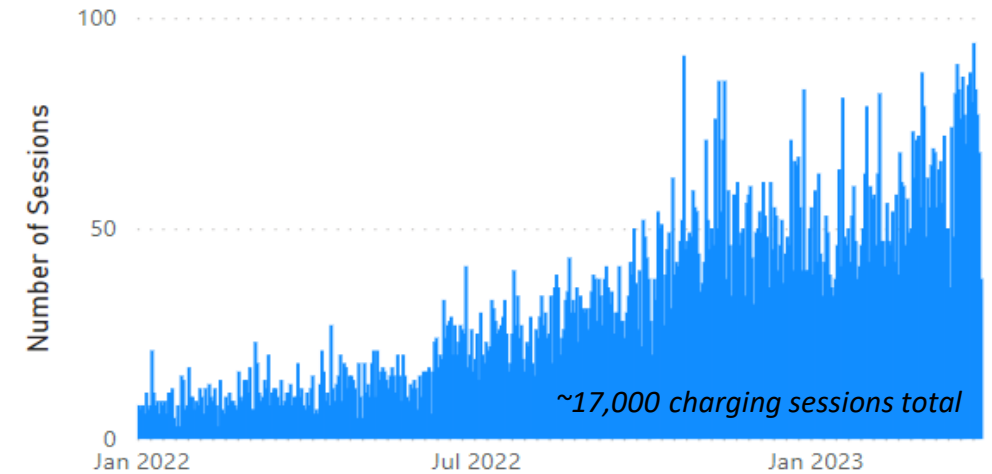


Program Budget Overview

Spend-to-Date	Remaining Funds
\$10.1M	\$12.3M

Portfolio-wide Utilization Trends

Number of Sessions by Date



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

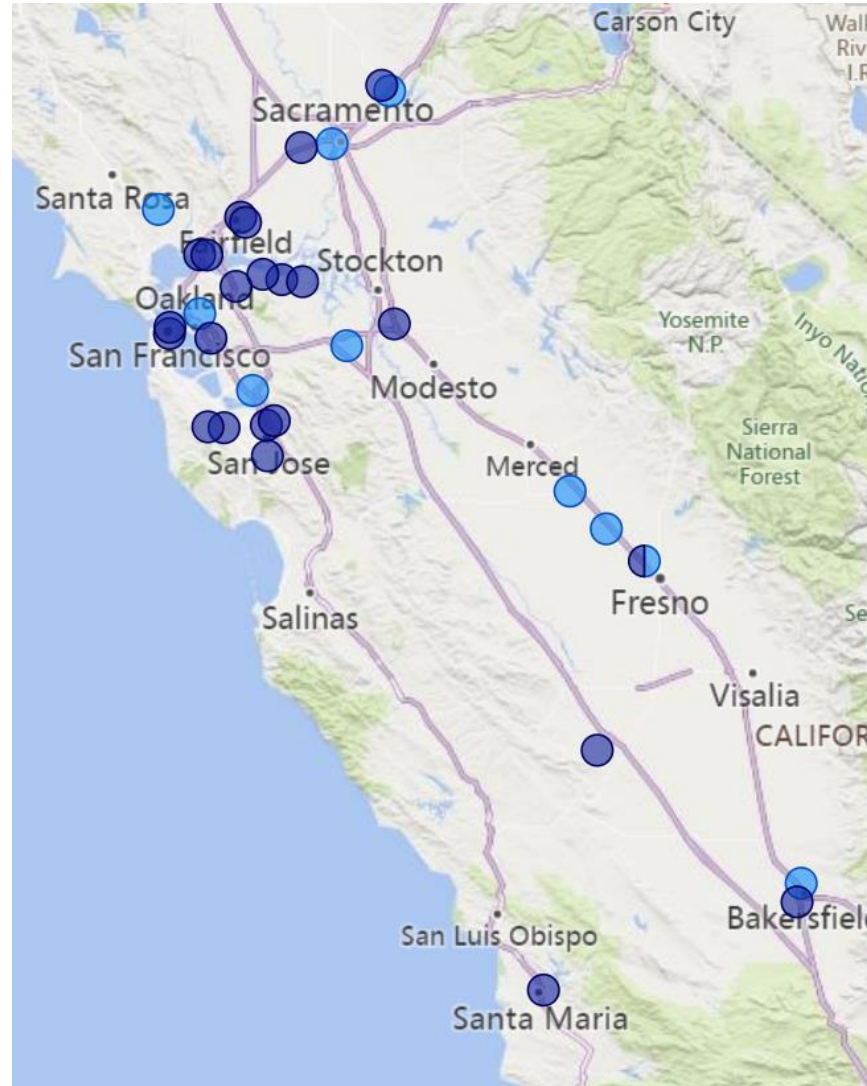


Fast Charge Sites Contracted and Activated

Activated sites and sites contracted by zip code

Status

- Activated Site
- Contract Signed



EV Fleet



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EV Fleet Program Update

Status as of 3/31/2023

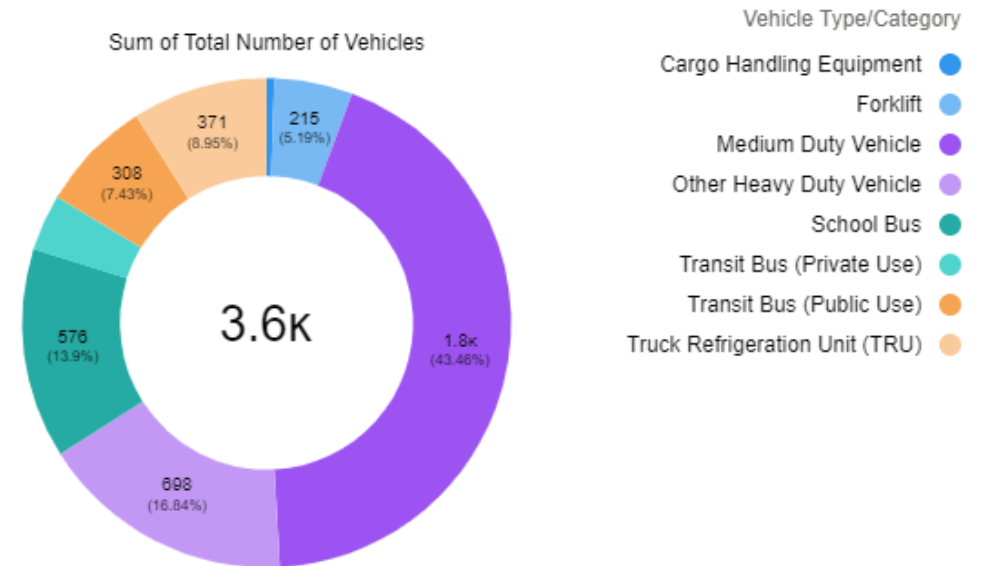
	Sites	MDHD EVs Committed
Applications	379	-
Viable Contracts ¹	170	3,526
Construction Complete	50	654
Activated	43	513

¹Viable 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

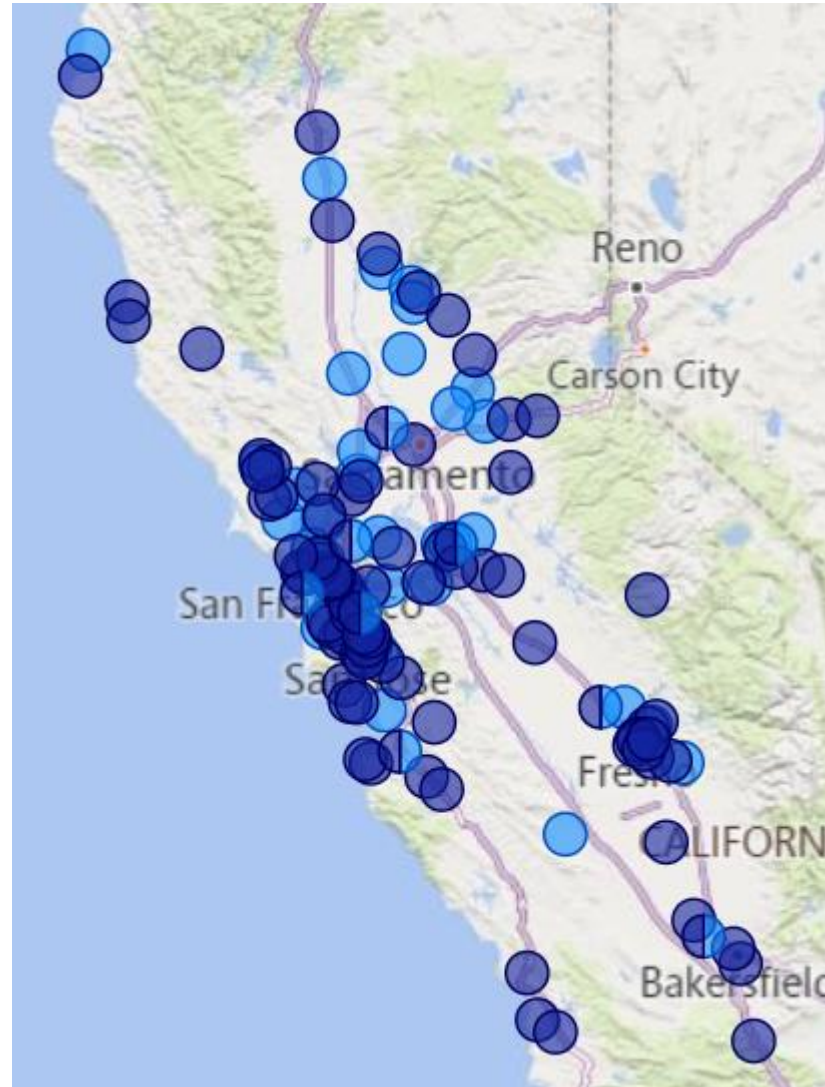
- Charging needs and load profiles
- Costs for BtM infrastructure and how to fund

Team has been making process changes to nail down scope early on and provide customers with additional information

Fleet Construction and Activation

Activated sites and sites in construction by zip code

- Status**
- Activated Site
 - Contract Signed



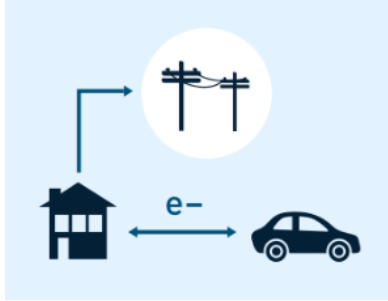
Additional Program Updates



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Vehicle to Everything (V2X) Pilot Programs

Pilot #1: Residential

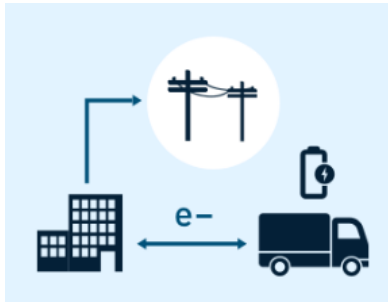


Incentives: Up to \$3,000 upfront incentives, up to \$2,175 participation incentives

Eligibility: Residential customer with split phase 240v electrical service

Enrollment target: 1,000 customers

Pilot #2: Commercial

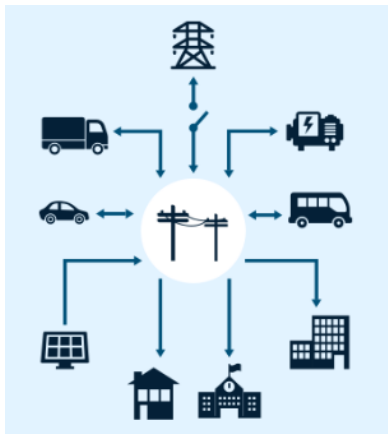


Incentives: Up to \$5,000 upfront incentives, up to \$3,625 participation incentives

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 #1 and #2 Enrollment Update



Vehicle to Everything pilot programs

V2X Pilot enrollment is open now!

www.pge.com/VGI

PROGRAM DETAILS

UNDERSTANDING THE TECHNOLOGY

GETTING STARTED

- 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



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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

LCFS-Funded Programs

#1: Pre-Owned EV Rebate Program

Post-purchase rebate for pre-owned EVs. \$1,000 base rebate, \$4,000 for income-qualified customers.



\$86.6M
2022-2024

Active (launched
Feb 2023)

#2: MFH + Small Business Direct Install Pilot

Install low-power chargers (Level 1 and Level 2) at multifamily and small businesses with capacity on panel.



\$25.2M
2022-2024

Setup
Q2 launch target

#3: Residential Charging Solutions Pilot

Educational resources and financial support to install residential EV charging and avoid panel upgrades.

\$7.3M
2023-2025

Setup
Q3 launch target

#4: Resilient Charging Pilot (“evPulse”)

Software to communicate and/or actively manage EV charging prior to a PSPS event to ensure battery is fully charged.

\$4.8M
2022-2023

Active (launched
Aug 2022)

#5: Empower EV

Rebates to income qualified customers for home chargers and panel upgrades, plus tailored EV and rates education.



\$4.1M
2022-2024

Setup
Q2 launch target

Questions



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