# Program Advisory Council Meeting Q3 2022





| Safety / Introductions                          | 10 Minutes |
|---|------------|
| EV Market Update                                | 5 Minutes  |
| Schools and Parks Programs Updates              | 10 Minutes |
| EV Fast Charge Program Updates                  | 10 Minutes |
| EV Fleet Program Updates                        | 10 Minutes |
| Additional Program Updates (VGI and Empower EV) | 10 Minutes |
| Questions                                       | 20 Minutes |



# **Safety**

- Fall is the time when kids return to school, the weather begins to change, and driving conditions can vary day to day.
- Be sure to:
  - Refresh your memory on school bus laws as they are now back on the road following summer break
  - Assess your vehicles condition and preparedness for the new season
  - Exercise extra caution as conditions, weather require

### BACK-TO-SCHOOL SAFETY

- Respect crossing guards.
- Share the road with school buses, pedestrians, and bikers.
- Know the school-bus laws: Stop when they stop to collect or drop off children, no matter where you are on the road. Opposing traffic must also stop.

### FALL CAR CARE

- Replace your wiper blades. Autumn driving hazards include rain and falling leaves that may obscure vision.
- Clean and replace any dimmed or burnt out lights.
- Test your defrost and heater to make sure they are in working order.
- Check and top off your coolant levels. This is best to do during the cold months.
- Check all fluid levels. While you're there, make sure everything else is topped off.
- ► Have your battery checked before the cold months arrive.



### FALL DRIVING TIPS

Follow these seasonal tips to avoid accidents, this fall.

- Be cautious when braking on leaves. If they are wet from rain or dew, they become very slippery.
- Adjust your drive time according to daylight savings. Avoid driving in the dark, as more fatal accidents occur then.
- Use sunglasses in the morning and evening to avoid sun glare, which is most common in autumn.

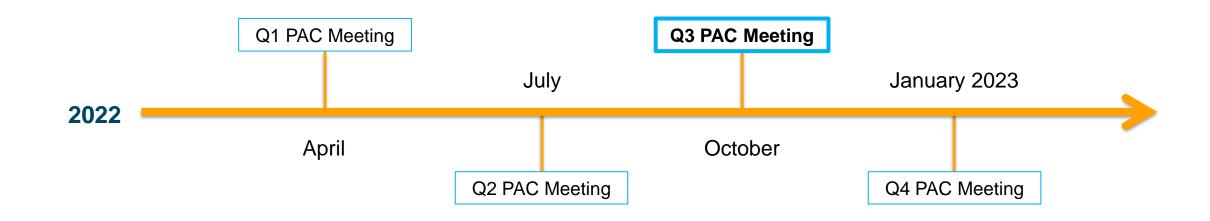




# Clean Transportation Program Advisory Council

### **Overview**

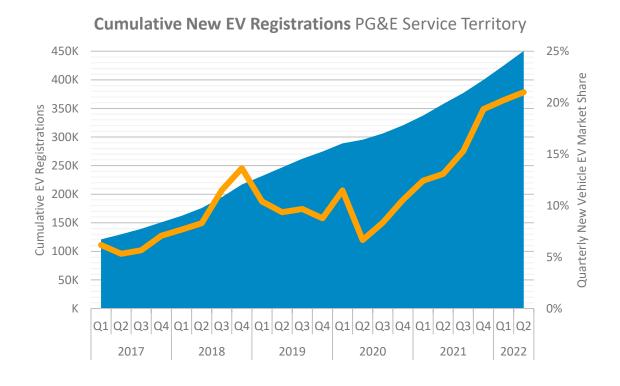
- PG&E has expanded our efforts on transportation electrification, with a number of filings, pilots and programs in progress
- CPUC has directed PG&E to consult a Program Advisory Council in the development of key
   TE pilots and programs to gain feedback from industry stakeholders
- This platform will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

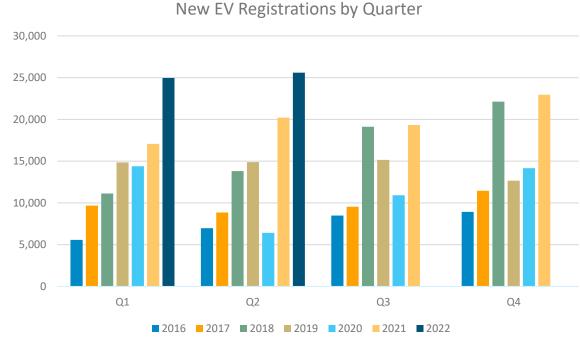




# **EV Market Update**







# **SB 350 Standard Review Projects**



# **EV Charge Schools & Parks Update**





## **EV Charge Schools Pilot Program Overview**



In support of AB 1082, EV Charge Schools will install **L2 charging infrastructure for passenger vehicles** at school facilities and educational institutions in support of 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 9/30/22**

|                         | Sites | Ports* |
|-------------------------|-------|--------|
| Applications            | 66    | 396    |
| <b>Contracted Sites</b> | 13    | 78     |
| Pre-Construction        | 3     | 18     |
| Constructed             | 1     | 6      |
| Activated               | 1     | 6      |

### **Lessons Learned/Best Practices**

### EV Curriculum

- Needed several participants to agree to one training time collectively
- Dynamic marketplace
  - Long equipment lead times due to supply chain challenges

### **Program Updates**

- Broke ground on first site in June 2022 and that site was activated in Q3 2022
- EV Curriculum complete
  - 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 |
|---------------|-----------------|
| \$1.43M       | \$4.33M         |



\*Targeting 6 ports per site Internal



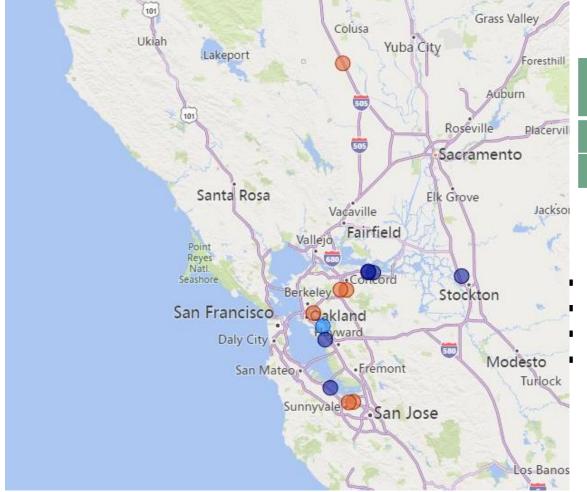
# **EV Charge Schools Contract + Site Update**



### Sites with signed contracts\*

#### **DAC Status**

- ADJACENT DAC
- IN DAC
- OUTSIDE DAC



|           | DACs | DAC<br>Adjacent | Non<br>DACs | Total |
|-----------|------|-----------------|-------------|-------|
| Contracts | 6    | 1               | 6           | 13    |
| Ports     | 36   | 6               | 36          | 78    |

- 1 contract signed in Q3 2022
- Good geographic dispersion
- Trending to achieve 40% DAC target
- Hard to reach communities are in program



# **EV Charge Parks Program Update**

### **Status as of 9/30/22**

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

### **Lessons Learned/ Best Practices**

- Establish more than one internal champion
- Diversify customer base

### **Program Update**

- Working on streamlined master agreement
- Preliminary site assessment list (34 State Parks) still under review with Parks
- State Parks requested to remove Fleet charging from scope of work, adjusting budget accordingly

### **Program Budget Overview**

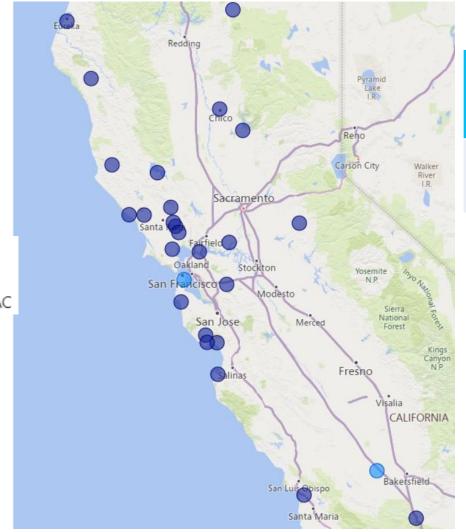
| Spend-to-Date | Remaining Funds |
|---------------|-----------------|
| \$431K        | \$5.11M         |





# **EV Charge Parks Site Update**

### Sites identified by PG&E



### **Program Scope**

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

Status

IN DAC

OUTSIDE DAC

# **EV Fast Charge**





# **EV Fast Charge Program Update**

### Status as of 9/30/2022

|                  | Sites | Ports |
|------------------|-------|-------|
| Applications     | 256   | 1156  |
| Contracted Sites | 32    | 170   |
| Final Design     | 20    | 102   |
| Constructed      | 9     | 39    |
| Activated        | 6     | 24    |

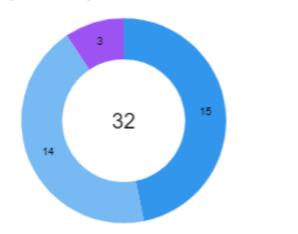
### **Program Budget Overview**

| Spend-to-Date | Remaining Funds |
|---------------|-----------------|
| \$7.9M        | \$14.5M         |

### **Lessons Learned:**

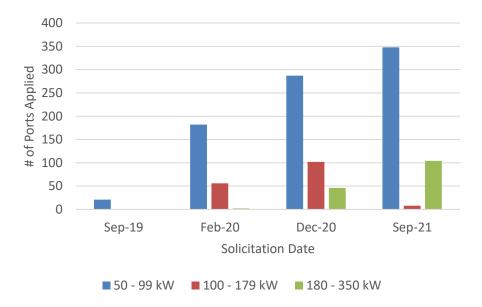
- Program is seeing more customers opting for 3<sup>rd</sup> party EVSE ownership.
- Customers have seen delays in activations due to lack of EVSE code readiness for credit card chip readers.

### **DAC Targets: Signed Contracts**





### <u>kW per Port Trend – All Applications Received</u>



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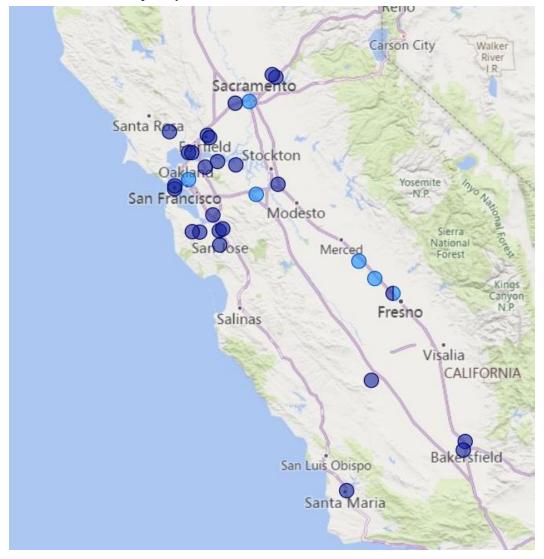


## Fast Charge Sites Contracted and Activated

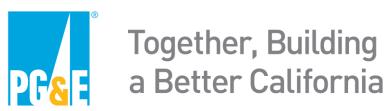
Activated sites and sites contracted by zip code

#### Status

- Activated Site
- Contract Signed



# **EV Fleet**





### **EV Fleet Program Update**

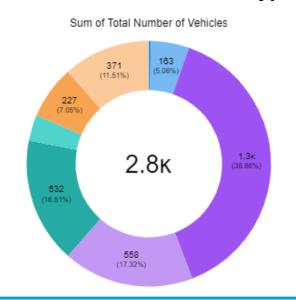
### Status as of 9/30/2022

|                               | Sites | EVs   |
|-------------------------------|-------|-------|
| Applications                  | 301   | -     |
| Viable Contracts <sup>1</sup> | 130   | 2,642 |
| Final Design                  | 84    | 1,500 |
| Construction Complete         | 41    | 499   |
| Activated                     | 36    | 428   |

### **Program Highlights**

- Continue to see very high pace of applications
- 57 of the 130 signed contracts (44%) are in DACs
- Program is seeing a good mix of vehicle types
- Program budget = \$236.3M; Spend-to-date = \$33.3M
- Joint T3 AL with SCE has been further suspended until May 1<sup>st</sup>, 2023
- Would like to expand School and Transit Bus EVSE Rebates to include public shuttle bus charging

### **Viable Contracts: Vehicle Type**





#### **Lesson Learned:**

- Local ordinances may inhibit a customer's ability to participate in the program
  - San Jose pole restrictions
  - San Francisco EV charger zoning
- Supply chain challenges are compounding 40 weeks for some transformers and 70 weeks for switchgears

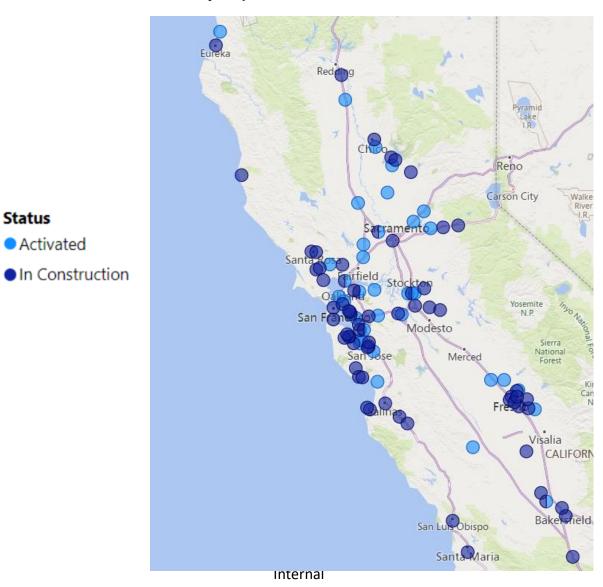


### **Fleet Construction and Activation**

Activated sites and sites in construction by zip code

Status

Activated



# Additional Program Updates



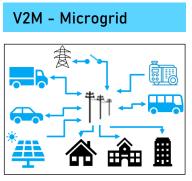


## **VGI Programs**

Objective: PG&E's VGI pilots will help determine cost-effective V2X solutions and pathways to scale deployment. Timeline: 2022 Q4 - 2025 Q3







|                              | V2X – Residential   | V2X – Commercial  | V2M – Microgrid   |
|------------------------------|---|---|---|
| Objectives                   | Enable residential customers to adopt LD EVs and split-phase bidirectional DC EVSEs, evaluate use of V2X technology for grid services and determine pathways to scale:  Year 1 - V2H Backup power Year 2 - V2G Customer bill management - V2G Real-time energy - V2G Renewable energy integration | Enable commercial customers to adopt LD/MD/HD EVs and 3-phase bidirectional DC EVSEs, evaluate use of V2X technology for grid services and determine pathways to scale:  Year 1 - V2B Backup power Year 2 - V2G Customer bill management - V2G Real-time energy - V2G Distribution upgrade deferral | Enable BTM-sited vehicles to charge/discharge in a PSPS-formed microgrid to support community resiliency. |
| No. of Pilot<br>Participants | 1,000   | 200   | Hundreds  |
| Total Budget                 | \$7.5 million   | \$2.7 million   | \$1.5 million   |

Internal

# **VGI Programs**

### **V2X Pilot Program Updates**

- Pre-Enrollment begins November 14
  - Customers will be able to pre-enroll in Pilot 1, Residential and Pilot 2, Commercial
  - Customers who have the required EV and charger will be able to reserve an incentive
  - All will be able to learn more about the pilots and indicate interest in participation
- Full-Enrollment expected to begin Q1 or early Q2, 2023 pending vehicle/charger availability
- VGI Dynamic Rate Advice Letter Pending Approval



### **Empower EV**

Financial support to help LMI residential customers receive EV charging equipment and upgrade residential service panels

### **Program Overview**

Audience: LMI Residential

• Incentive: \$500 for Lvl 2 charger, \$2,000

for SP upgrades

Timeline: 2023 - 2024

Status: Begin developing

\$4.13 M Program budget

2.000 Customers served

Q1' 23 Target launch date

### Eligibility

- Residential Customers
- Current or potential EV owners
- 400% or below FPL
- Home-owners or renters

### **Program Updates**

- CPUC issued Non-standard Disposition on Empower EV's Supplemental Advice Letter 9/26
- Empower EV's implementation plan is consistent with Decision 19-09-006
- PG&E will work with GRID Alternatives, 3<sup>rd</sup> Party Implementer and contracted electrician to collect and report program metrics

# Questions

