PG&E's Clean Energy Transportation Portfolio

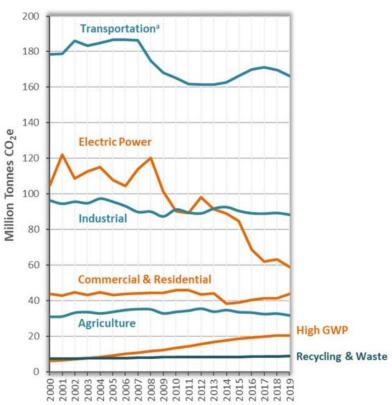
November 2021



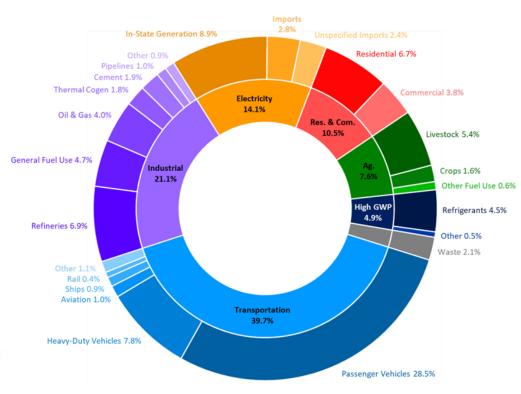


Importance of Transportation Electrification

California GHG Emissions Trend¹



2019 California GHG Emissions¹



State Goals²:

100% ZEV sales of passenger vehicles by





2035

100% ZEV operations for drayage and off-road by





2035

100% ZEV operations for MHD vehicles by





2045

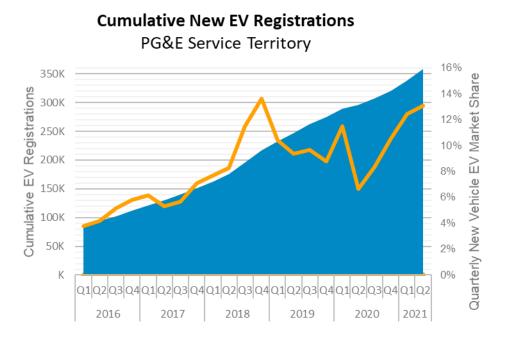


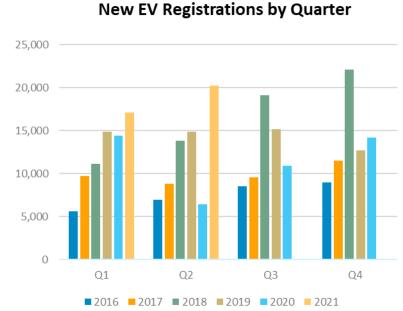
Source: 1. California Air Resources Board https://ww2.arb.ca.gov/ghg-inventory-data



EVs in PG&E Service Territory







EVs in Yolo County: 3,584

EVs in Sacramento County: 20,824



Opportunity to Support EV Adoption and Affordability

 PG&E is committed to accelerating EV adoption and maintaining affordability of customer rates through the increased electric load from EVs.

Mechanics of EV Load Growth & Affordability



PG&E invests in infrastructure to enable EV charging...

...and electric load grows as demand from electric vehicles increases

As electric load increases more than the investment, customer rates could go down

PG&E Encourages EV Adoption and Load Growth

- Use trusted energy advisor role to inform and educate customers of benefits of EVs
- Reduce TCO through affordable charging rates and non-ratepayer funded rebates
- Improve business operations and electric system readiness to deliver best-in-class utility service
- Offer targeted customer programs provide subsidized infrastructure installation and hands-on assistance



Customer Education and Outreach



Start your research

- Use the EV Checklist for resources to learn more about EVs.
- Visit PG&E's Electric Vehicle <u>webpage</u> to learn about the different EV models and types currently available



Understand the costs and the available incentives

- Use the <u>EV Savings Calculator</u> to estimate costs, savings, and incentives
- Check out <u>Access Clean California</u> to find state-funded programs and benefits



Learn about your charging options

- Learn about charging options that will suit your needs and the steps to install a charger in your home at pge.com/evcharging.
- Use PlugShare's interactive map to plan your trip and find options for charging on the go at <u>plugshare.com</u>



Decide on your rate plan

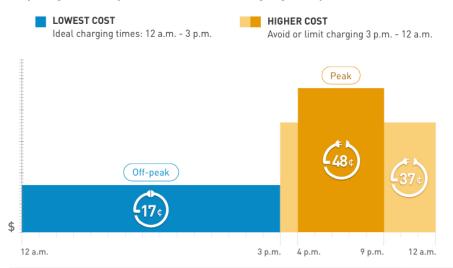
PG&E offers special rates for EV owners in addition to standard residential rates. Find a rate that best fits your needs at ev.pge.com



Residential and Commercial EV Rates

EV2-A Home Charging

Whole home time-of-use rate offering customer \$1.60 per gallon equivalent when charging off-peak



EV-B Home Charging

Separate meter for their home and EV charging. Time-of-use rate equivalent to \$1.27 per gallon when charging off-peak



Business EV rate (BEV)

The BEV eliminates demand charges and instead uses a monthly subscription pricing model to enable:

- More affordable charging
 - TOU pricing encourages charging at low-cost time for the grid
- Simpler pricing structures
- Improved certainty and budgeting

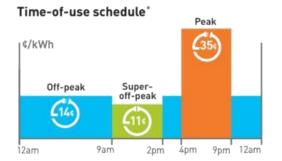
High Use EV Rate:



Low Use EV Rate:



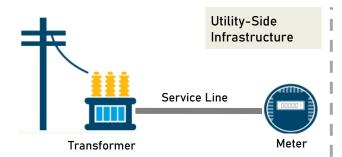
Energy Charge:





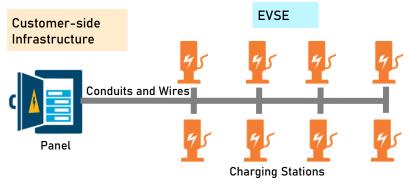
Transportation Electrification Infrastructure Efforts

PG&E supports EV charging infrastructure deployment through grid readiness and interconnections and specific customer EV programs.

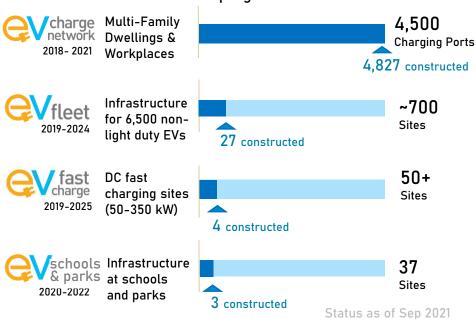


PG&E's utility-side of EV infrastructure efforts:

- Implementing Electric Rule 29 which will cover additional service extension costs for commercial customers installing EV infrastructure.
- Assessing cost-effective ways to make proactive investments to ready grid for high EV adoption
- Improving business operations and interconnection times to deliver best-in-class utility service.



PG&E's current customer EV programs:





Upcoming EV Programs



EMPOWER EV

\$4.13M from 2021-2023

- Equity program to support EV adoption among lowand-moderate income (LMI) customers with a home charger and panel upgrade rebate.
- Program will also test effective outreach strategies to LMI customers.
- Expected launch in Q4 2021.

LMI Customers (<400% FPL) to receive:

\$500

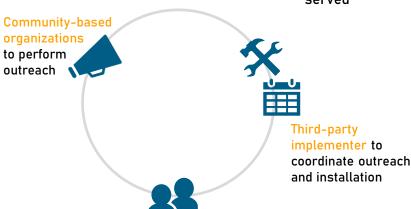
For a L1 or L2 charger

\$2,000

For a panel upgrade

2,000

Target number of customers served



Customer

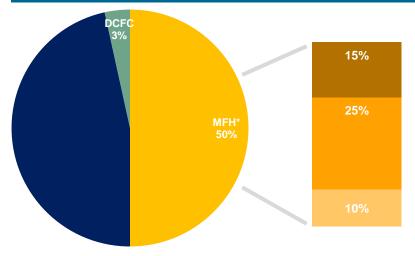


EV Charge 2 (Proposed Oct 2021)

\$276M from 2023-2028

- PG&E has proposed a five-year, \$276M program extension to support installation of approximately 16,000 charging ports
- Emphasis is on multi-location support of multifamily housing (MFH) residents
- Program design is built on lessons learned from EVCN, including significant unmet need

Proposed Customer Segments, by Number of Ports



ncludes public destination L2 and DCFC (50+ kW) sited near MFHs.



PG&E EV Programs in Action!

EV Fast Charge

PG&E installed 4 DC Fast Chargers open to the public at 7-11 in West Sacramento in Feb 2021.

The chargers are ChargePoint's Fast Charge model capable of 125 kW.



San Joaquin Regional Transit District (RTD) Pilot (2018-2020)

PG&E partnered with RTD to demonstrate the lower TCO for MHD electric fleets.

Five 60 kW depot chargers were installed, and demand management was implemented for the existing overhead chargers to support RTD's 17 electric buses.



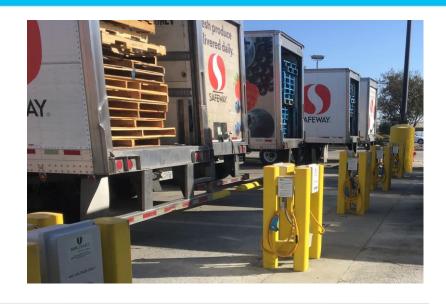


PG&E EV Programs in Action!

Albertson's Idling Reduction Technology Pilot (2020)

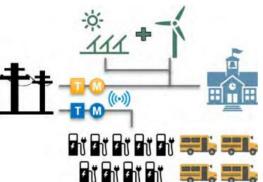
PG&E partnered with Albertson's to demonstrate idle-reduction technologies for transportation refrigeration units (TRUs)

25 eTRUs were installed at the Albertson's distribution center in Tracy.



Pittsburg Unified School District (2019)





PG&E partnered with Pittsburg Unified School District to install nine L2 chargers and charge management software to integrate onsite renewables



Statewide

Non-ratepayer EV Programs

 PG&E participates in the Low Carbon Fuel Standard (LCFS) Program and uses the revenue generated through the program to further support EV adoption through a statewide program and five proposed PG&E-specific programs.



CA Clean Fuel Rewards Program

A statewide program to provide up to \$750 point-of-purchase incentive for the purchase or lease of a new EV

Pre-Owned EV Rebate Program



\$1,000 rebate for customers who purchase a pre-owned EV; additional \$3,000 rebate for income qualified customers

4

Resilient Charging Pilot



Detect, enroll and automate EV charging, testing customer valuation of incentive levels for direct load control in advance of PSPS events



Fund third-party to install low-power chargers (Level 1 and Level 2) at MUDs and small businesses that have excess capacity on panel



Residential Charging Solutions Pilot

Education and financial support to help customers install EV chargers while avoiding or lowering cost of panel and/or grid upgrades



Research and Innovation Fund

Fund nascent technology proof-of-concept pilots or research studies to support EV adoption and charging

Questions

