Move your Electrification Journey Forward



June 12, 2025





- Safety (Dean Kunesh)
- SolTrans Electrification (Pat Carr)
- New EV Fleet Advisory Services (Brandon Smith)
- EV Fleet Program (Jacob Panachaveettil)
- Q&A



Safety





Bee Safe this Summer!

When and where bees are active

- When
 - \circ In spring, summer
- Where
 - In trees, on grass, in sand
 - Under roof eaves
 - o On equipment





- Minor reaction
 Minor swelling, redness, pain
- Severe reaction
 - Shortness of breath, difficulty swallowing, and shock



What to do

- Bee Safety

- Minor reaction

 Wash the site with
 - soap and waterApply ice, ointment
- Severe reaction

 Seek medical attention
 Call 911



- Avoid
 - Wearing strong scents
 - o Making loud noises
 - Walking barefoot on grass or on sand



Transitioning to Battery Electric Buses for Municipalities and Small Operators

It's No Small Fleet

Pat Carr Electrification Project Manager, SolTrans

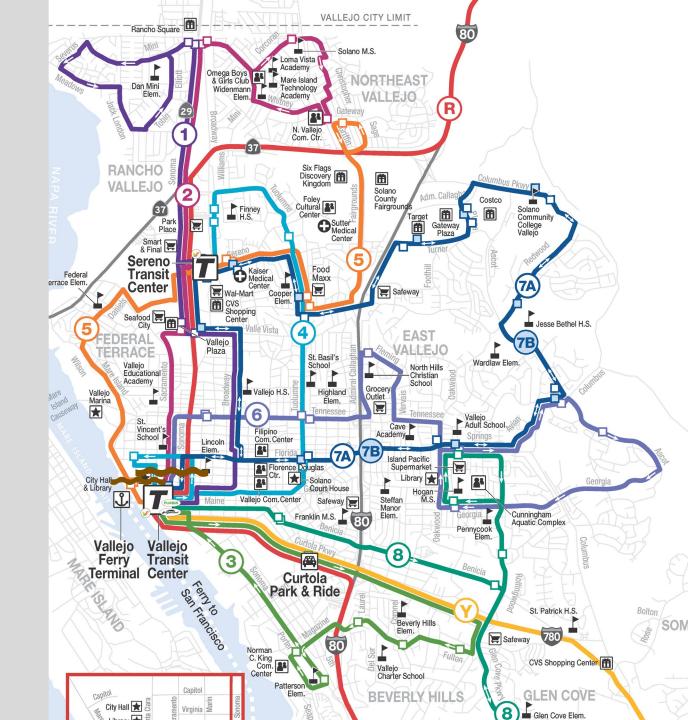
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About



- Located in Vallejo, Ca. in Solano County
- SolTrans became a JPA December 2010
- Employees: 14
- Operates 1 million trips annually on:
 - 12 local routes
 - 5 regional express routes
- 67 vehicles with plans to expand to 80
 - 16 diesel/electric hybrids
 - 21 CNG commuter coaches
 - 10 battery electric buses
 - 1 CNG low floor
 - 9 Diesel Commuter Coaches
 - 2 CNG & 8 unleaded paratransit vehicles



Initial Goals

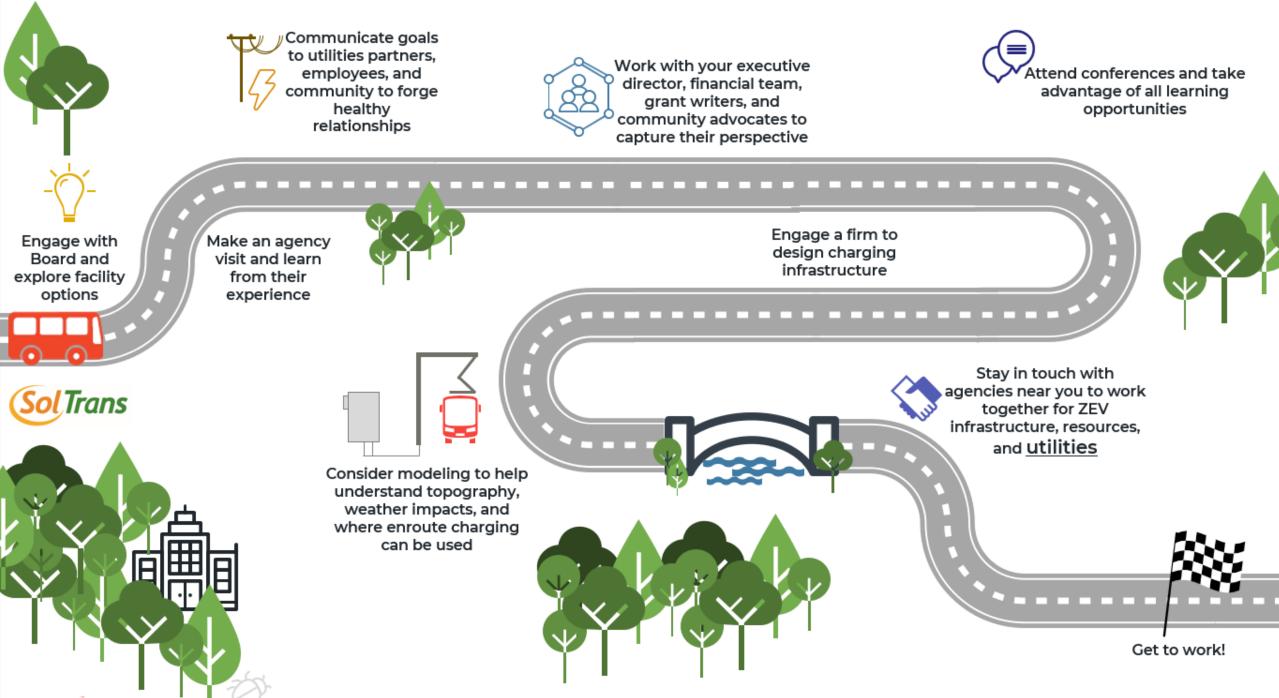
- 100% Battery Electric Bus by 2033
- Future ready electric charging infrastructure design
- Scalable
- Utilize renewable electric energy
- Regionalize opportunity charging
- Utilize solar power to offset
 expenses



REVISED GOALS

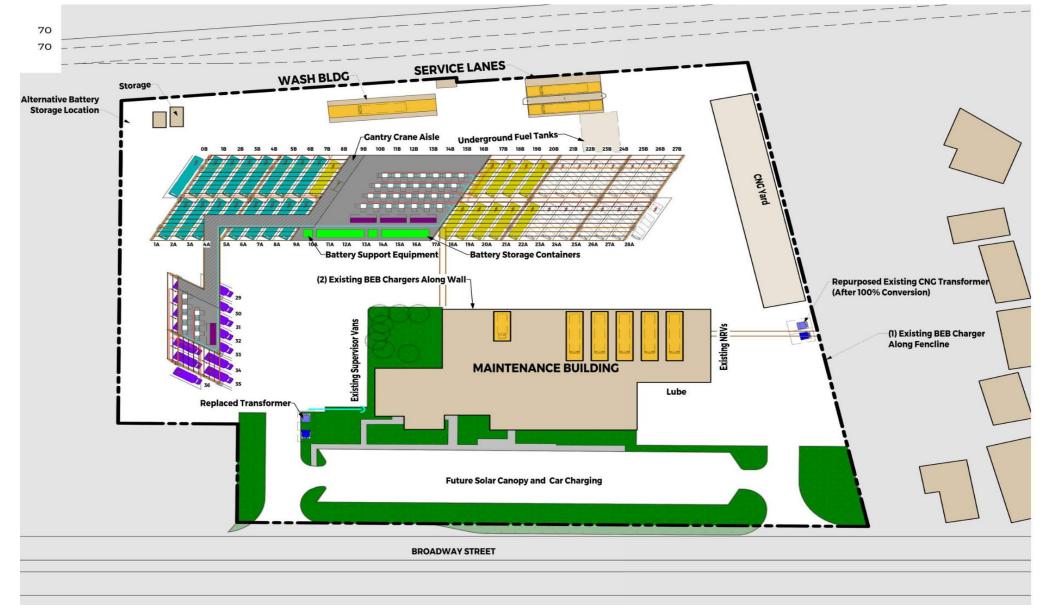
- 100% zero-emission by 2036 with a mixture of Battery electric and hydrogen fuel cell buses
- Future ready electric charging infrastructure to include energy storage and solar energy.
- Utilize renewable electricity
- Design and build hydrogen fueling infrastructure
- Replace current CNG fleet with Hydrogen Fuel Cell Buses



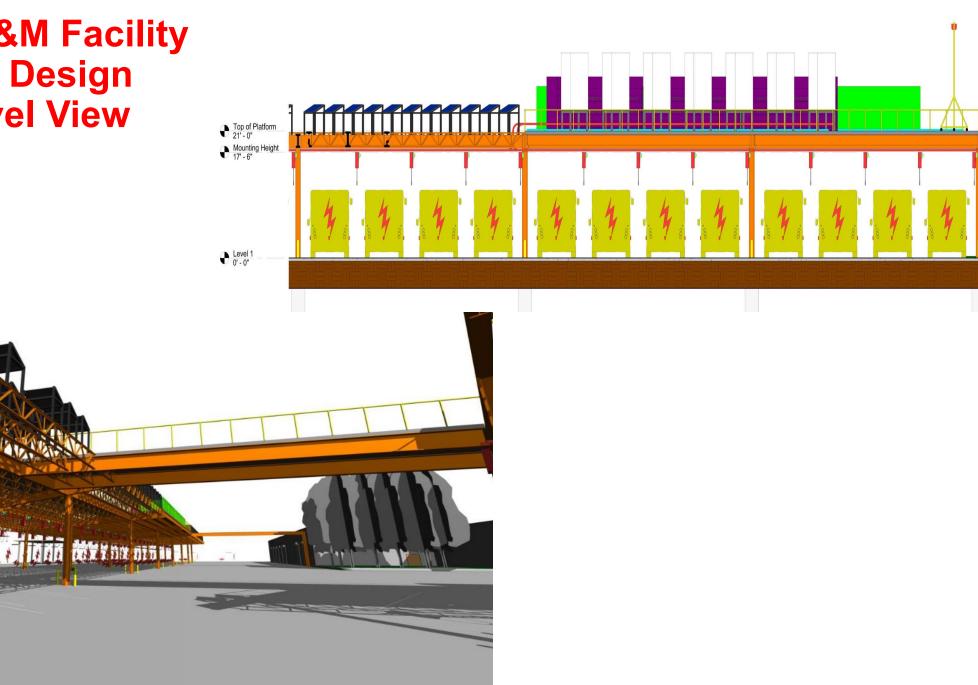


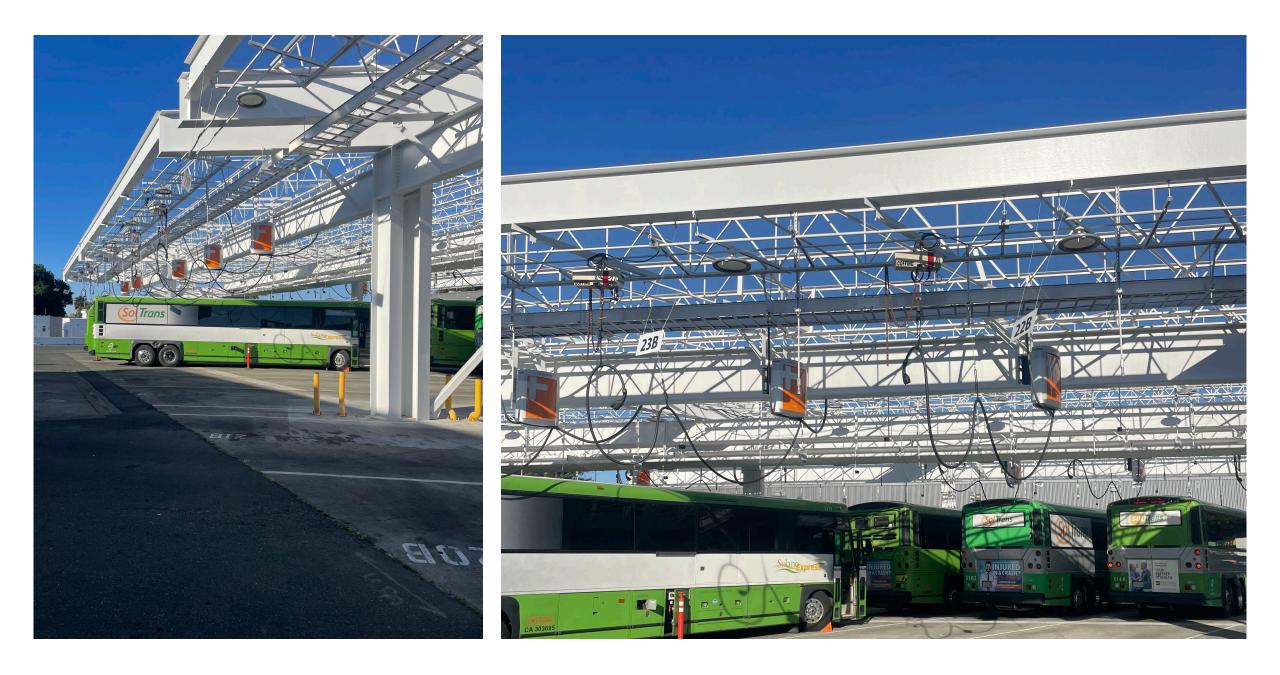
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SolTrans O&M Facility Conceptual Design

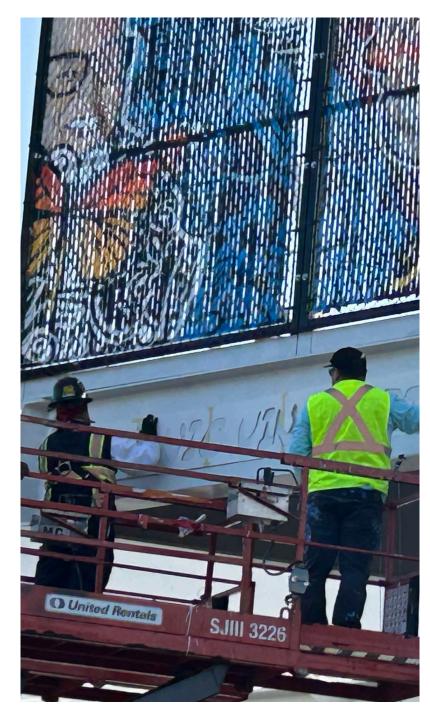


SolTrans O&M Facility Conceptual Design Ground Level View





















Lessons Learned

When you have to dig underground be prepared for surprises and to increase your budget

Supply Chain Issues – Have your contractor provide timelines, orders, etc...

Ensure your contract manager is experienced in all areas of the project

Maintain good relationships with your contractor, operators, maintenance, and management staff

Touch base with utilities and funding partners early and often which is critical if you have delays

Include PIO for community engagement and project outreach

BE PATIENT



Next Steps:

- Charge management
- Energize charging infrastructure
- Apply for funding to add energy storage and solar
- Plan for hydrogen electric buses



EV Fleet Advisory Services





PG&E's EV Fleet Advisory Services offers personalized guidance from a Fleet Advisor who can help you switch your medium- and heavy-duty fleets to electric vehicles (EVs).



One-on-One support throughout electrification



Zero cost to fleets



Accepting applications through 2026



Many medium- and heavy-duty fleets struggle with going electric, but PG&E's **EV Fleet Advisory Services** are designed to help you navigate these challenges:



Lack of in-house knowledge on electric vehicles, charging, or using electricity as a fuel

We offer one-on-one consulting with an EV Fleet Advisor throughout your electrification journey



Complex internal decision-making on projects that impact business

We provide you with education and support so that you can feel confident in the choices that you are making for your EV project



Confusion around utility processes and concerns about capacity or reliability

We cut through the confusion by acting as your utility liaison on all matters related to your EVs and the grid



Worry about the costs to operate an electric fleet

We help you estimate the total cost of ownership of EVs, identify external funding, and optimize your operations so that you don't overpay for electricity



Just getting started

- 1. Initiation: has first idea to electrify fleet
- 2. Information gathering: learns more about electrification and decides whether to proceed
- 3. Consensus building: seeks organizational support for electrification
- 4. Funding: applies for external funding and/or secures internal budget

5. Planning: determines details (locations, vehicles, chargers, utility needs, etc.)

Making a plan

- 6. Vendor selection: identifies suppliers for vehicles and chargers, contractors for infrastructure design and installation
- 7. Site design: hires electrical engineer to infrastructure design

Project is underway

- 8. Utility application: applies for utility service
- 9. Infrastructure construction: customer and PG&E build electrical infrastructure
- **10.Site energization**: installs chargers and energizes site

Site is operational

- **11. EV deployment and optimization**: learns to use vehicles and chargers, adjusts site operations as needed
- **12. Operational**: enters a steady-state mode of operating EVs and maintaining equipment
- **13. Expansion:** procures additional EVs and chargers



Just getting started

Our advisors can educate you on electrification basics, provide you with self-service resources, and perform a comprehensive analysis of your fleet

Making a plan

Our advisors can help you refine your site details to get your project going

Project is underway

Our advisors can assist you throughout your site construction when any questions or issues arise

Site is operational

Our advisors can help you optimize your operations so that you can maximize the benefits of your EVs



Eligibility Requirements

Basic Eligibility

Includes site review, capacity check, service application, and non-wires alternatives support

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Must be a PG&E non-residential electric customer



Operate at least one medium or heavyduty vehicle (class 2-8)



Agree to program <u>Terms and Conditions</u>

Full Eligibility

Includes all services (in addition to basic eligibility criteria)

Are located in an underserved community*

Belong to one of these sectors:



Schools



Transit Agencies



Municipalities



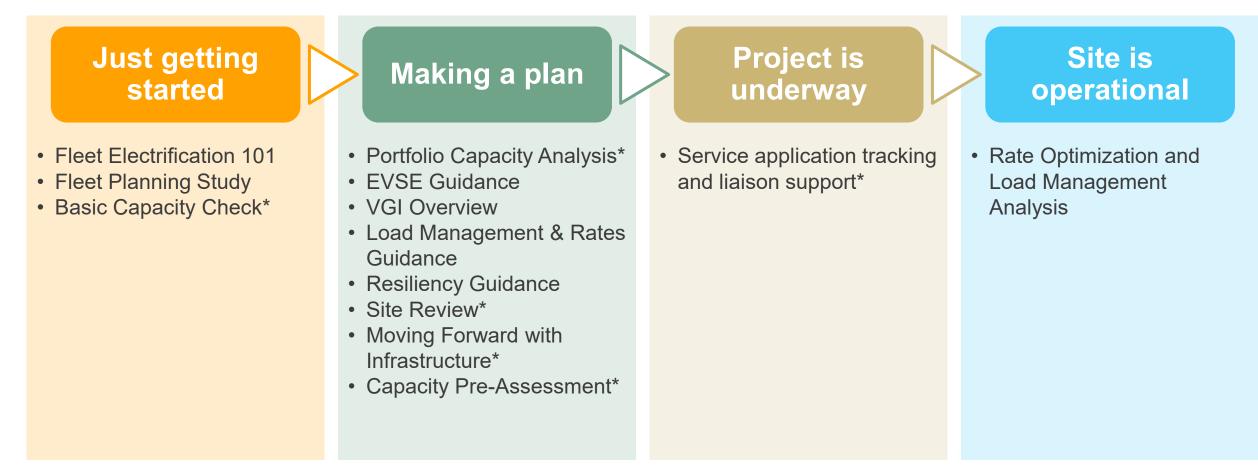
Small Businesses (<500 employees)

*Check with an advisor to see if your site is in an AB841 Underserved Community. More info can be found here.

Public



You can choose the services that make sense for you:



*These services are available to customers with basic eligibility, all other services are available only to customers with full eligibility



1	Submit your application	Apply here: <u>www.pge.com/evfleetadvisorsapplication</u> It's easy! We only ask for basic information such as your name, address, type of operation, and where you are in your EV project journey.
2	Eligibility check	PG&E's advisory team reviews your eligibility for the program and determines the types of services you can receive.
3	Intake call	A dedicated Advisor conducts an intake call with you to share detailed program information and learn more about your needs.
4	Service assessment	Your Advisor will present you with a list of services to choose from that align with your needs and goals.
5	Receive services	Your Advisor will schedule follow up sessions and discussions to deliver on the services that you choose.

Thank You

Brandon Smith Brandon.Smith3@PGE.com



SCAN ME for FLEET ELECTRIFICATION





EV Fleet Program



EV Fleet is a ratepayer-sponsored program that is designed to accelerate EV adoption for medium duty, heavy duty (MDHD EVs) and off-road vehicles

GOAL:

Support the deployment of >6,500 MDHD EVs



BUDGET: \$236 million



TIMEFRAME:

Enrolling sites through 2026 or until funding is fully subscribed



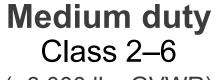
What vehicles are eligible?

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(>6,000 lbs GVWR)

School buses, cargo vans, box trucks, cutaways, work trucks, etc. Heavy duty Class 7–8

Heavy duty trucks, transit buses, drayage, etc. •

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Off road

Class 1 forklifts, tractors, construction equipment, TRUs, ground support equipment, cargo handling equipment, etc.

PG&E simplifies fleet electrification by offering:



Installation of electrical infrastructure up to the customer's meter **at no cost**



Incentives and rebates to offset out-of-pocket costs for construction and chargers



Comprehensive support throughout the completion of the EV charging project

Available incentives and rebates

		CUSTOMER	OWNED	
Utility assets Me (e.g.: powerlines, transformer)	ter Electric pan switchgear	el/		Plug-in electric vehicle
To the meter (TTM) infrastructure	Behind the meter infrastructure	(BTM)	EV supply equipment (EVSE)	
Fully paid for through the program (your EV meter will be connected to the grid for FREE)	Eligible for incentive up to capped amount based on vehicle type**		Schools, transit agencies and sites in disadvantaged communities may receive EVSE rebates	
	Vehicle type	Per vehicle incentive	EVSE power	Max. rebate amount*
	Transit buses and Class 8 trucks	\$9,000 per vehicle ⁺	Up to 50 kW	\$15,000 per charger
*Rebate not to exceed 50% of charger equipment. EVSE must meet minimum and standard requirements to be eligible for rebate.	Off-road vehicles	\$3,000 per vehicle [‡]	50.1kW–149.9kW	\$25,000 per charger
Fortune 1000 companies are not eligible. **Incentive not to exceed 80% of customer out-of-pocket costs. †Limited to 25 vehicles per site. ‡Limited to 50 vehicles per site.	School buses and Class 2-7 vehicles	\$4,000 per vehicle ⁺	150 kW and above	\$42,000 per charger

Eligibility requirements

Be a PG&E electric customer

This includes Direct Access and retail customers, as well as customers receiving power from a Community Choice Aggregator.

Acquire at least 3 2 eligible EVs



Customers must plan to put into operation a minimum of two medium duty, heavy duty or off-road electric vehicles over the next 5 years.

Own or lease the property

Applicants must have authority to install charging infrastructure on their site.



Agree to all requirements



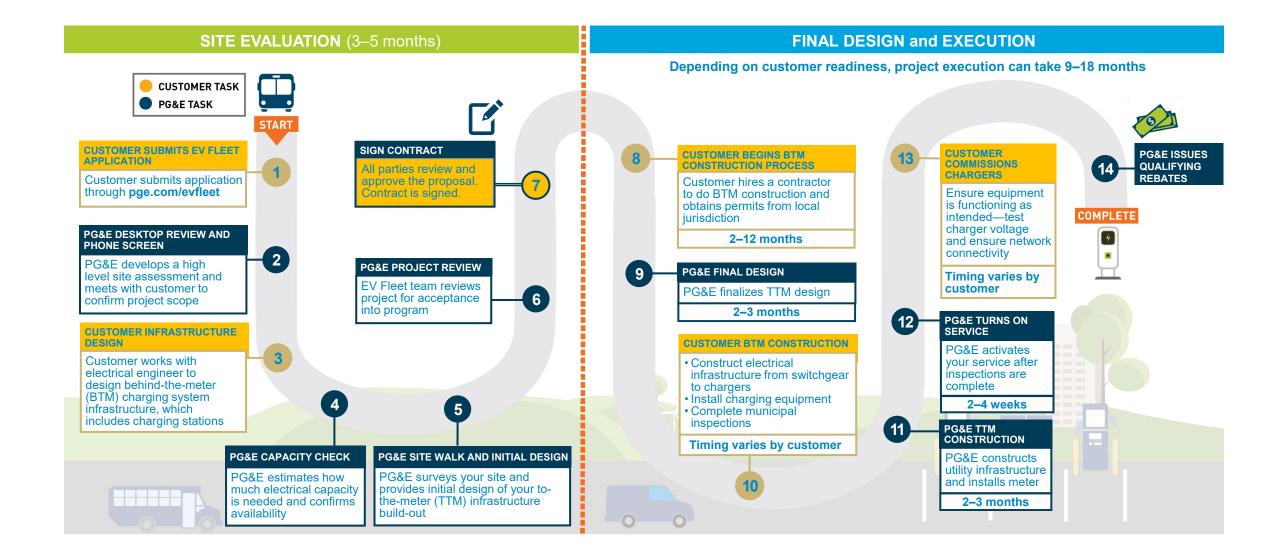
Customers must make a 10-year commitment to operate and maintain equipment, a 5-year commitment to provide EV usage data and agree to all terms and conditions.

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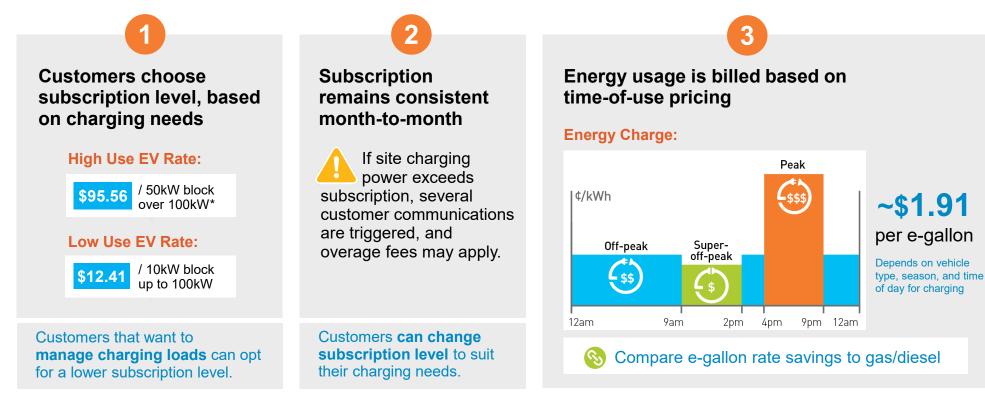
Ready to apply

1	Vehicle deployment plan	Quantity, make and model of EVs that you plan to deploy over the next 5 years
2	EV charger deployment plan	Quantity, make, model, power level and datasheet for each EV charger that you plan to deploy S Approved Product List (hosted by Southern California Edison)
3	Map of EV charger location	Map screenshot indicating the location where you plan to install your EV chargers
4	Secured funding for out-of-pocket costs	Grants or approved budget to cover cost of BTM infrastructure, vehicles and chargers
5	Leadership approval	Must have internal readiness to sign a contract to commit to the EV Fleet Program
6	Proof of vehicle procurement	Paid vehicle invoice, approved vehicle grant or a letter from board/owner/city council/etc
7	Permission from property owner	Property owner must be willing to sign an easement with PG&E for infrastructure installation

EV Fleet electrification process



Business EV rate structure



Visit the **Business EV Rate website** for more information

* Values for Business High Use EV Rate Secondary (BEV2-S) voltage. For Business High Use EV Rate Primary (BEV2-P) voltage, the price of each 50kW block is \$85.98. Please refer to the <u>Business EV Tariff</u> for exact values.

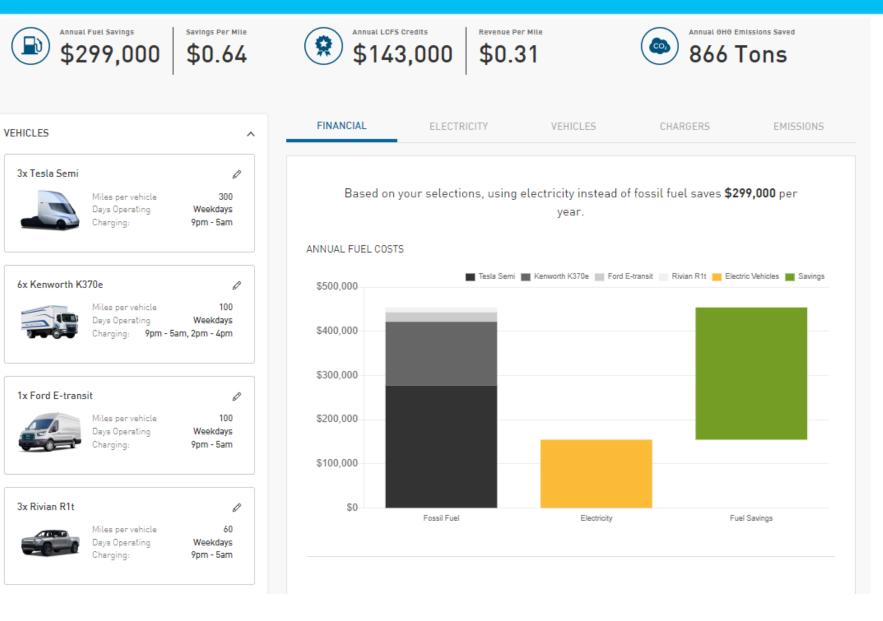




Note: Values shown for illustrative purposes. Please refer to the EV Fleet Savings Calculator at Fleets.pge.com for exact values.

Public







Annual Fuel Savings \$299,000	Savings Per Mile	\$143,000	\$0.31	Annual OHO Er 866 7	nissions Saved
VEHICLES	^	FINANCIAL ELECTRIC	VEHICLES	CHARGERS	EMISSIONS
3x Tesla Semi Miles per vehicle Days Operating Charging:	0 300 Weekdays 9pm - 5am		e have set your rate to Business H out the Business EV Rate Calculato		tion level of 11
6x Kenworth K370e Miles per vehicle Days Operating Charging: 9pm - 5	0 100 Weekdays 5am, 2pm - 4pm	The total monthly cost w BEV COST COMPONENTS	yould be \$12,874 , which incl and the subscription cha	irges.	arge to full Subscription 🔳 Energy
1x Ford E-transit Miles per vehicle Days Operating Charging:	0 100 Weekdays 9pm - 5am				
3x Rivian R1t Miles per vehicle Days Operating Charging:	60 Weekdays 9pm - 5am				

Note: Values shown for illustrative purposes. Please refer to the <u>EV Fleet Savings Calculator</u> at **Fleets.pge.com** for exact values.

Public



LCFS Calculator

The Low Carbon Fuel Standard is designed to decrease the carbon intensity of California's transportation fuel pool and provide an increasing range of low-carbon and renewable alternatives, which reduce petroleum dependency and achieve air quality benefits.
— Low Carbon Fuel Standard Homepage

The Low Carbon Fuel Standard (LCFS) is administered by the California Air Resources Board (CARB). Participation requires registration, which entities can do so here. The LCFS program is set to continue through at least 2030.

The calculation below is based on the methodology provided by CARB, which assumes a decreasing carbon intensity of fossil fuels. This tool makes no assumptions about a similar decreasing carbon intensity of the California Grid, therefore it is recommended to use the results of 2021 for a typical year.

The calculation below also assumes a flat LCFS credit price of \$150. This value is not guaranteed going forward and can change at any time. See the latest LCFS credit prices here. A single LCFS credit represents 1 metric ton of carbon, and credit prices are often referred to as \$ ____ /MT (dollars per metric ton).



Note: Values shown for illustrative purposes. Please refer to the EV Fleet Savings Calculator at Fleets.pge.com for exact values.



Q&A