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Document Title:	EnergIIZE Utilities and Me - PGE and SDGE Funding Workshop			
Description:	EnergIIZE Commercial Vehicles Project Utilities and Me - PGE and SDGE Funding Workshop slide deck from 7/10/2024 presentation. A recording of the workshop is viewable at the link below. https://vimeo.com/1008433576			
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COMMERCIAL VEHICLES



Utilities & Me: MDHD EV Infrastructure Installation and Funding

> July 10, 2024 1pm PT



Agenda

Торіс	Speaker
Welcome!	Lauren Fleming, EnergIIZE
PG&E EV Infrastructure Support	Dean Kunesh , PG&E
SDG&E EV Infrastructure Support	Christopher Roberts, SDG&E
EnergIIZE Overview & Available Funding	Lauren Fleming & Aidan Anthony, EnergIIZE
Question Panel and Q&A	All Presenters



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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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Medium duty Class 2–6 (>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

EV charging project breakdown

-			
	Utility assets M (e.g.: powerlines, transformer)	eter Electric panel/ switchgear	Charger Plug-in electric vehicle
	To the meter (TTM) infrastructure	Behind the meter (BTM) infrastructure or make-ready	EV supply equipment (EVSE)
Who constructs, owns, and maintains?	PG&E	The customer	The customer
Who pays for?	PG&E	The customer	The customer
Available rebates/incentives?	N/A—fully paid for by PG&E	Incentives may be available to offset your out-of-pocket costs	Charger rebates available for transit agencies, schools, and some sites located in disadvantaged communities

Available incentives and rebates

		CUSTOMER-OWNED				
	Utility assets Me (e.g.: powerlines, transformer)	eter Electric pan switchgear	el/	Charger F	Plug-in electric vehicle	
	To the meter (TTM) infrastructure	Behind the meter infrastructure	(BTM)	EV supply equ (EVSE)	ıipment	
	Fully paid for through the program (your EV meter will be connected to the grid for FREE)	Eligible for incentive amount based on ve	up to capped hicle type**	Schools, transit a in disadvantaged receive EVSE re	agencies and sites d communities may bates	
		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 a **Incentive not to exceed 80 †Limited to 25 vehicles per s	re not eligible. % of customer out-of-pocket costs. site.	School buses and Class 2-7 vehicles	$4,000 \text{ per vehicle}^{\dagger}$	150 kW and above	\$42,000 per charger	
‡Limited to 50 vehicles per s	site.					

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 2 eligible EVs

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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.

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



Grid capacity for EV projects



Does PG&E have enough grid capacity to serve my EV chargers?

Good news! Only about 15% of EV Fleet projects face capacity challenges, and we have different strategies for providing power for these sites.

Interested in learning more about capacity at your site?



Check out PG&E's Integration Capacity Analysis (ICA) maps

Frequently asked questions



EVs are expensive—are there grants that can help me pay for them?

Yes, check out our list of available grants at fleets.pge.com/grants



How do I plan for the future when I'm not sure how many EVs I'll get?

It's good to plan for the number of vehicles and chargers that you are fairly certain you'll need over the next 5 years. You can only apply to the program once per site, so future upgrades to your electrical service will be at your own expense. The program also allows you to futureproof your site by installing a larger switchgear. **Talk to your Onboarding Specialist to learn more.**



How can I address concerns around power reliability?

Events that lead to power outages are **usually known in advance**, which means you can make sure all of your vehicles are fully charged before they happen. Additionally, backup battery storage systems can be useful for emergency situations.



Can I install solar panels on my EV meter?

Yes, as long as all of your chargers are smart chargers so that you can meet data reporting requirements. Generally off-road vehicles like forklifts and TRUs do not use smart chargers, so these projects cannot install solar.

Business EV rate structure



S 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.







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EV Fleet Savings Calculator

Annual Fuel Savings \$299,000	Savings Per Mile	Annual LCFS Cr \$143	,000 \$0.3	^{мпе} 1	Annual OHO En	nissions Saved
EHICLES	^	FINANCIAL	ELECTRICITY	VEHICLES	CHARGERS	EMISSIONS
3x Tesla Semi Miles per vehicle Days Operating Charging:	300 Weekdays 9pm - 5am	To maximize BE	V rate inputs, we have set yo blocks . Check out the Busir	our rate to Business Hi g ness EV Rate Calculator	gh Use EV, with a subscrip to explore your options.	tion level of 11
6x Kenworth K370e Miles per vehicle Days Operating Charging: 9pm - 5a	0 100 Weekdays am, 2pm - 4pm	The total mo	onthly cost would be \$ and the	12,874, which inclue a subscription char	udes the cost to recharge .	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.



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 <u>EV Fleet Savings Calculator</u> at **Fleets.pge.com** for exact values.





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





RATE COMPARISON - BEV AND COMMERCIAL RATES



RATE ELEMENTS

RATE SELECTED
BEV

Rate Element	Charge	Units	Cost
Energy (\$ per kWh)	\$0.20	60,578	\$11,823
Subscription (\$ per block)	\$95.56	11	\$1,051
Overage (\$ per kW)	\$3.82	0	\$0
Total	\$12,874		

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

Public

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Thank you!

Dean Kunesh

Dean.Kunesh@pge.com



\delta EV Fleet Website

- PG&E Integration Capacity Analysis (ICA) Map
- S EV Fleet Application
- S Approved List of Chargers
- S Request to add Chargers to APL
- S Requesting Letter of Support
- Srd Party Authorization Form

- S EV Permit Streamlining Map
- S EV Fleet Terms and Conditions
- S EV Fleet Easement
- S PG&E Service Territory Map
- SPSPS Map and Outage History
- S PG&E Power Mix
- Standard (LCFS)



Clean Transportation Programs

Christopher Roberts Sr. Customer Solutions Advisor



Power Your Drive for Fleets

Installation & Ownership Options





Power Your Drive for Fleets

Fleet-Friendly Pricing & Charger Rebates



Who is eligible for the charger rebate?

- School buses
- Transit buses
- Sites located in areas of opportunity

Maximum rebate amounts per charger power level

EVSE power	Max. rebate amount*
Up to 19.2kW	\$3,000 per charger
19.3kW up to 50kW	\$15,000 per charger
50.1kW up to 150kW	\$45,000 per charger
150.1kW and above	\$75,000 per charger

*Eligible sites will receive a rebate for each qualified charger for the lesser of 50% of the cost of the charger or the maximum amount based on power output as detailed above, not to exceed 50% of the cost of the charger.

Benefits of the EV-HP Rate

- Eliminates Demand Charges
- Lower, Fixed Rates
- Simpler Billing Through a Monthly Subscription Plan

SAVINGS FROM ELECTRIFYING A



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Complimentary Support Transportation Electrification Advisory Services (TEAS)



SDG&E is dedicated to helping fleets transition to EVs

Small businesses, educational institutions, tribal communities, transit agencies, and municipalities may receive dedicated help electrifying medium and heavy-duty fleets.



GET STARTED TODAY

Begin the journey to electrification by filling out the TEAS interest form. This quick step allows SDG&E to better understand your needs and schedule personalized consultation.



TAILORED RESOURCES

Whether you're looking for specific solutions, education on electrification, or have unique challenges, SDG&E is ready to provide assistance precisely for you.



TRUSTED ENERGY ADVISORS

SDG&E has TEAS advisors standing by to support every aspect of your electrification journey, as well as tools and other electric vehicle experts to work through any roadblocks.



TEAS.SDGE.COM

- Fill out the TEAS interest form
- Get quick resources for starting your electrification journey
- Learn how to overcome common electrification roadblocks



Fleet Electrification Planning Transportation Electrification Advisory Services (TEAS)



Designed to meet the unique needs of each fleet

An SDG&E TEAS advisor collaborates closely to develop personalized strategies, helping fleets navigate the complexities of vehicle selection and charging infrastructure.



EV SELECTION AND CHARGING INFRASTRUCTURE

Fleets explore a variety of electric vehicle options that could meet their needs as well as customized options on the types and quantities of charging equipment needed.



CAPACITY ANALYSIS & SITE PLANNING

Fleets also explore the current infrastructure potential to support new technologies, as well as gain insights into the site layout and load requirements.



LOAD MANAGEMENT AND RATE OPTIMIZATION

Fleets dive into strategies to manage energy loads efficiently to minimize charging costs, as well as work with an advisor to understand available energy pricing plans.



Additional Support

- Where to start with transitioning
- External Funding Information
- Advanced Clean Fleets (ACF)



Pre-Energization Support Transportation Electrification Advisory Services (TEAS)

Get comprehensive support to assist with a smooth start

SDG&E TEAS advisors provide pre-energization support that focuses on preparing for an EV project and gathering details required to begin the electrification transition.



UNDERSTANDING NEEDS & MAKING CONNECTIONS

SDG&E TEAS advisors facilitates connections to other SDG&E teams needed to support a request-for-service application, simplifying the process of integrating new systems.



PROVIDER SELECTION SUPPORT

Fleets receive guidance from an SDG&E TEAS advisor on essential electrification considerations before connecting with an electric vehicle service provider (EVSP).



CAPACITY & INFRASTRUCTURE UPGRADES

SDG&E TEAS advisors also help understand current capacity available for a project, as well as support fleets through the process of upgrading service to meet long-term needs.



TEAS.SDGE.COM

- Fill out the TEAS interest form
- Get quick resources for starting your electrification journey
- Learn how to overcome common electrification roadblocks



Post-Energization Support Transportation Electrification Advisory Services (TEAS)



Support does not end with activation of an EV site

SDG&E is committed to enhancing fleet operations over time, encouraging effective energy consumption, and providing support for adapting to new technologies.



LOAD MANAGEMENT

Implement and maintain plans to efficiently manage energy loads and minimize the cost to charge a fleet's vehicles based upon usage data.



RATE OPTIMIZATION

SDG&E TEAS advisors also provide guidance on electric vehicle (EV) rates based upon usage patterns, and can help fleets better understand how to optimize.



LEVERAGING LOW CARBON FUEL STANDARD (LCFS)

Fleets can also take advantage of Low Carbon Fuel Standard (LCFS) opportunities to benefit operations and a company's bottom-line.



Emerging Tech

- Stay at the front of EV innovation ••••
- Learn about V2X capabilities
- Get support for Automated Load Management options

LOVELECTR



Want to learn more about the program?

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sdge.com/fleets & sdge.com/teas

Ready to talk to a customer solutions specialist?

ctprograms@sdge.com

Thank you for your time today.



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EXAMPLE 1 COMMERCIAL VEHICLES

Energy Infrastructure Incentives for Zero-Emission Commercial Vehicles



Overview of EnergIIZE

Energy Infrastructure Incentives for Zero-Emission Commercial Vehicles

Provides incentives for zero-emission vehicle (ZEV)

infrastructure equipment for medium-duty and heavy-duty

(MDHD) battery-electric and hydrogen fuel cell vehicles

operated and domiciled in California.

Funding is released in distinct lanes, each representing

a key area of the commercial ZEV landscape. Vehicles

must be Class 2b-8, off-road applications are

considered on a case-by-case basis.



Clean Transportation Program.



EnergIIZE Eligible Costs

Eligible costs are from customer side make-ready, where it is not currently offered by utilities, to the vehicle plug/nozzle.

EnergIIZE funds can be stacked (used in conjunction) with utility make-ready programs.



EV

Infrastructure

Make Ready

- Eligible EVSE listed on <u>Approved</u> <u>Product List</u>
 - Level 2 Chargers
 - Direct Current Fast-Charging (DCFC)
 - V2G and Wireless Charging
- Networking
- Software
- Maintenance
- Warranty
- Switchgear
- Electrical Panel Upgrades
- Meters
- Stub-outs



EnergIIZE Standard Funding Lanes



go and may already have prior experience applying for commercial MDHD EV funding.

infrastructure project for commercial MDHD fuel cell vehicles.

criteria and will be allotted more time to submit required documents.

available or shared charging stations for commercial MDHD EVs.



EnergIIZE Set-Aside Funding Lanes



The Set-Aside lanes pair EnergIIZE infrastructure funding with vehicle funding through the <u>Hybrid and Zero-</u> <u>Emission Truck and Bus Voucher</u> <u>Incentive Project (HVIP)</u>.

Transit and Drayage lanes open now!





Open July 16!

EV Jump Start

The project must meet one of the following criteria:

- Project site will be in a <u>Disadvantaged Community</u> (DAC) or Low-Income Community (LIC)
- Public Transit System serving a DAC or LIC
- Public School District serving economically disadvantaged students
- Tribe or tribal serving entity
- Small business as identified in the California State Legislative Code
- Certified Minority Business Enterprise
- Non-profit organization

The project may be for public, shared, or private commercial fleet use by MDHD EVs.

Open Now!

Transit

- Included in the CARB Innovative Clean Transit (ICT) program's list of compliant transit agencies
- California city or county government, transportation district/transit district, or public agency
- California Native American Tribe, California Tribal Organization, or Non-Governmental Organization Serving Tribal entities
- Must show proof of HVIP vehicle purchase or HVIP voucher request by Step 3 of the EnergIIZE process



Open Now!

Drayage

- Fleet that performs drayage operations, according to HVIP definition
- CaaS developers serving drayage fleets
- Must show proof of HVIP vehicle purchase or HVIP voucher request by Step 3 of the EnergIIZE process



Incentive Structure

Applicant Lane	EV Fast Track	EV Public Charging	Hydrogen	EV Jump Start
Application	First Come, First Serve	Competitive	Competitive	Competitive
Incentive Structure	50-75% of Total Eligible Adjusted Project Costs	50-75% of Total Eligible Adjusted Project Costs	50-75% of Total Eligible Adjusted Project Costs	75% of Total Eligible Adjusted Project Costs
Maximum Award	\$500k-750k	\$500k-750k	\$3M-4M	\$750k



Set-Aside Lanes Incentive Structure

Drayage

Lane Characteristics	EV	Hydrogen Fueling	Mixed Fuel	
Maximum Incentive Offering	75 percent of Total Eligible Adjusted Project Costs Incurred*			
Maximum Award	\$750,000	\$2,800,000	\$1,400,000	

If meeting equity criteria:

Lane Characteristics	EV	Hydrogen Fueling	Mixed Fuel	
Maximum Incentive Offering If Meeting Equity Criteria**	90 percent of Total Eligible Adjusted Project Costs Incurred*			
Maximum Award If Meeting Equity Criteria**	\$1,000,000	\$3,920,000	\$1,960,000	

If installing more nozzles:

Lane Characteristics	EV	Hydrogen Fueling	Mixed Fuel	
Maximum Incentive Offering If Installing More Nozzles	90 percent of Total Eligible Adjusted Project Costs Incurred*			
Maximum Award If Installing More Nozzles	\$1,000,000 if installing 10 or more nozzles	\$3,050,000 if installing 4 or more nozzles	\$1,650,000 if installing 10 or more nozzles (combined, not per fuel type)	



Transit

	EV	Hydrogen Fueling	Mixed Fuel
Maximum Incentive Offering	75 percent of Adjusted Project Costs Incurred*		
Maximum Project Cap	\$500,000	\$2,000,000	\$1,000,000

	EV	Hydrogen Fueling	Mixed Fuel
Maximum Incentive Offering If Meeting Equity Criteria*	90 percent of Adjusted Project Costs Incurred*		
Maximum Project Cap If Meeting Equity Criteria**	\$750,000	\$2,800,000	\$1,400,000







COMMERCIAL VEHICLES

Resources

- For interested applicants: <u>https://calstart3.my.site.com/apply/s/</u> (Application Portal)
- For vendors & installers:

Apply to be an approved Project Partner to apply and/or install infrastructure for fleets at https://www.energiize.org/partners

• Find more stackable funding opportunities at https://fundingfindertool.org/

Contact Us



infrastructure@calstart.org



877-ENR-GIZE 877-367-4493



www.EnergIIZE.org







When stacking EnergIIZE and utility programs, who should I contact first?





When stacking EnergIIZE and utility programs, how does reimbursement work?





What can applicants do to be prepared before their first conversation with the utility?







What are common reasons for project delays?





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Please submit your questions using the Q&A function!