

# Funding Availability for Zero-Emission Vehicles

Today's webinar will start at:

10 a.m. PT / 1 p.m. ET

In Coordination With



## Before we get started

### Q&A

Submit your questions to the host using the Q&A box in the upper right-hand corner.

### Presentations

A recording of today's webinar will be posted on the ACT News website, and you will be emailed a link by early next week.

### Survey

A 30-second survey will pop-up at the end. We appreciate your feedback!

### Technical Issues

Contact Stephane Babcock at [Stephane.Babcock@gladstein.org](mailto:Stephane.Babcock@gladstein.org) or 424-363-0341 for assistance.



## Funding Availability for Zero-Emission Vehicles



**Brianna Lawrence**

*Vice President, Programs*  
**Gladstein Neandross and  
Associates**



# Overview

- Regulatory and Technology Reminders
- What can I get funding for?
- What funding is out there?
- Should I apply?
- What does it take to apply?
- What does the timeline look like?
- Q&A

# ZEV Drayage Fleet Overview

Transition all Class 7 and 8 trucks operating at California intermodal seaports and railyards to full ZE by 2035



How?

Extend current Drayage Truck Rule/Registry mechanism to prohibit non-ZE truck access

Starting 1/1/24, all new trucks registered in the Drayage Truck Registry must be ZE

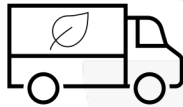
# Drayage Fleet Details



Must be registered in the Drayage Truck Registry (DTR).



- All current drayage trucks must achieve MY 2010 engine standards by December 31, 2022
- They will not be DTR compliant unless they visit a California seaport or railyard at least once in 2024 (and annually thereafter)



## **Starting January 1, 2024:**

- Only zero-emission trucks can be added to the Registry
- Beginning January 1, 2035, all drayage trucks must be ZEV

## **Current MY 2010+ engine trucks in DTR must:**



- Report odometer annually, once engine model year is 13 years old
- Retire when either (whichever first):
  - Mileage reaches 800,000 miles
  - 18 years old
- Remain active: visit a CA seaport or railyard at least 1x/yr in 2023+

# Examples of Class 8 EV Tractors



**Freightliner  
eCascadia**  
438 kWh  
190" WB  
Curb Weight:  
21,800 lbs (est)



**Volvo VNRe**  
565 kWh  
200" WB (est)  
Curb Weight:  
24,500 lbs (est)



**Peterbilt 579EV**  
400 kWh  
190" WB (est)  
Curb Weight:  
22,500 lbs (est)



**Kenworth T680E**  
396 kWh  
190" WB  
Curb Weight:  
22,500 lbs (est)



**BYD 8TT-ER**  
563 kWh  
167" WB  
Curb Weight:  
28,000 lbs (est)



**Lion Lion8T**  
653 kWh  
200" WB  
Curb Weight:  
26,000 lbs (est)

÷ 2.0 kWh per mile

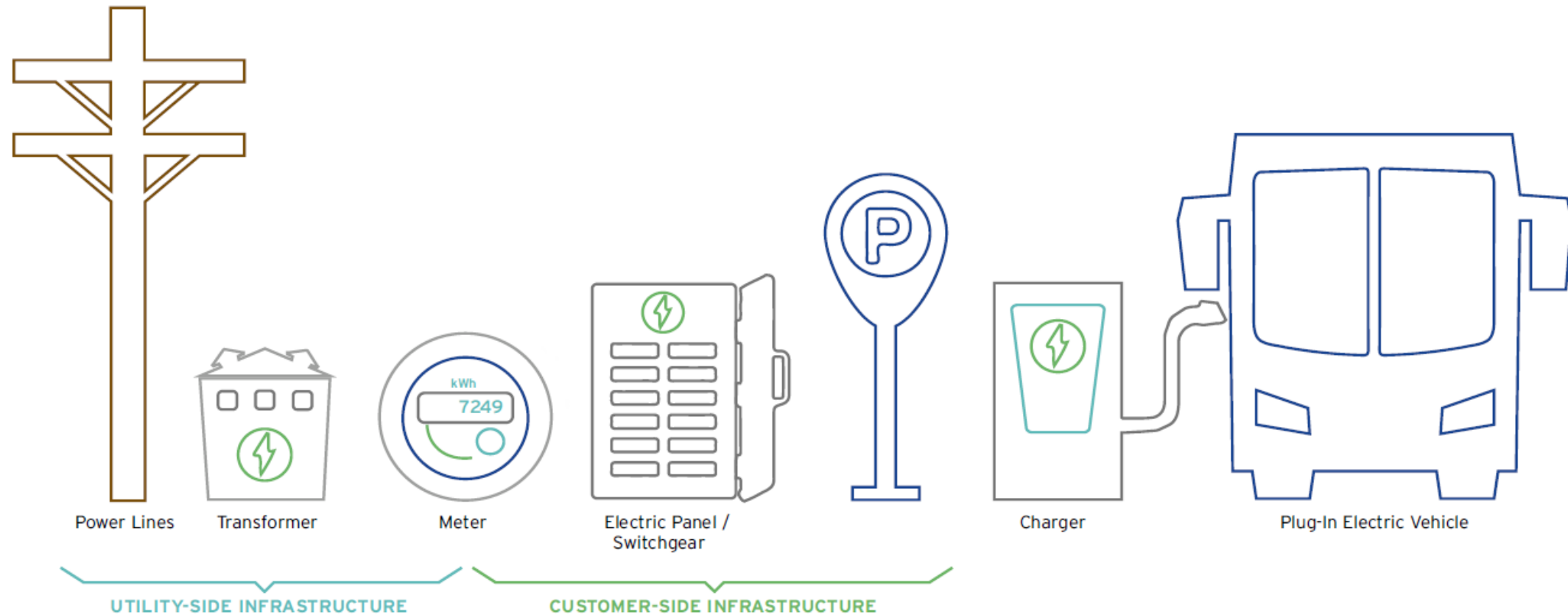
x 75% usable SOC

x 80% EOL Capacity

<b>Max Range (miles)</b>	<b>219</b>	<b>283</b>	<b>200</b>	<b>198</b>	<b>282</b>	<b>327</b>
<b>Typical Range (New)</b>	<b>164</b>	<b>212</b>	<b>150</b>	<b>149</b>	<b>211</b>	<b>245</b>
<b>Typical Range (EOL)</b>	<b>131</b>	<b>170</b>	<b>120</b>	<b>119</b>	<b>169</b>	<b>196</b>



# Infrastructure Components



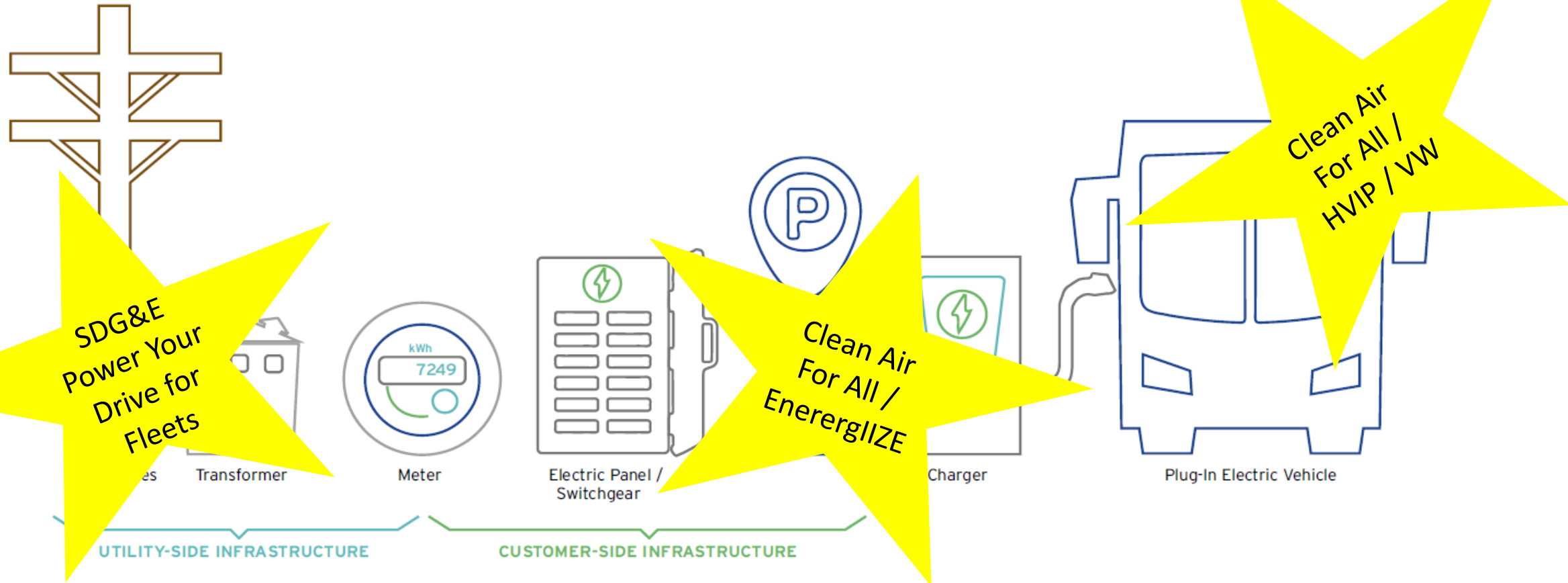
Source: SDG&E Power Your Drive for Fleets Charging Guidebook



## Key Recommendations

- **Understanding your daily use** of the trucks (average and peak mileage, dwell time and location, max cargo weight, etc) is critical to evaluating how EVs will fit in your fleet.
- If possible, **demonstrate an EV** in your fleet so that you understand its practical fit in your operations.
- **Maximizing utilization** of chargers usually minimizes total costs.
- Charging speeds are limited by the slowest link (grid supply, charger, vehicle, battery). Ensure you **know what performance to expect** from your vehicle and infrastructure combination.
- Not all vehicles charge at the same voltage, even if they meet the same charging standard (e.g. CCS-1). **Your chargers must match or exceed your vehicle requirements.**
- Utility supply can have long timelines. **Get started as soon as possible.**

# What can get funded?



# What's out there? \*

What's it for?	Local/State	Program	Status	Maximums
Infrastructure	Local	SDG&E Power Your Drive For Fleets	Open; first-come, first-served	100% up to the charger; potential charger rebate
Infrastructure AND Vehicles	Local	SDAPCD Clean Air For All	Building a contingency list	Up to 50% of vehicle and infrastructure costs
Vehicles	Local	SDAPCD Voucher Incentive Project	Under development; may not return in 2023	Varies by age/usage of existing vehicle
Vehicles	Local	SDAPCD Zero Emission Port Truck Pilot Project	Open; first-come, first-served	Up to 90% of costs or \$250,000
Infrastructure	State	EnergIZE – Fast Track	Under development	Up to 50% of costs or \$500,000
Infrastructure	State	EnergIZE – Jump Start	Under development	Up to 75% of costs or \$750,000
Infrastructure AND Vehicles	State	Innovative Small e-Fleet Program	Under development	Up to \$300,000 per ZEV
Vehicles	State	Hybrid and Zero Emission Truck Voucher Incentive Project (HVIP)	Open; first-come, first-served	\$150,000 base for drayage per ZEV
Vehicles	State	California VW Program for Class 8 Trucks	Open; first-come, first-served	\$200,000 per ZEV

*\*Does not include federal programs that require a public agency sponsor*

## And in every case, you should use this tax credit...

- Qualified Commercial Clean Vehicle
  - December 31, 2021- December 31, 2032
  - % of base vehicle cost OR incremental cost
  - \$7,500 cap for vehicles < 14,000 lbs.
  - \$40,000 cap for vehicles > 14,000 lbs.

### Other key points for EV credits:

- **No Buy America provisions for commercial**
- **No cap on credits**

# One of Many Examples of Maximizing Incentives

(Assumes fleet is in a DAC and has 10 or fewer vehicles)

SDG&E Power Your  
Drive For Fleets  
(100% of costs up to  
charger + **charger  
rebate**)

EnergIIZE  
**Jumpstart** (75% of  
costs of charger,  
software, and  
installation)

Federal Tax Credit  
(\$40,000 towards  
the ZEV)

SDAPCD CAFA or  
Pilot Program (up to  
\$410,000 towards  
the ZEVs)

HVIP (\$150,000  
towards the ZEV)

## Another Example of Maximizing Incentives

(Assumes fleet is in a DAC and has >10 vehicles)

SDG&E Power Your  
Drive For Fleets  
(100% of costs up to  
charger + **charger  
rebate**)

EnergIIZE  
**Jumpstart** (75% of  
costs of charger,  
software, and  
installation)

Federal Tax Credit  
(\$40,000 towards  
the ZEV)

SDAPCD CAFA or  
Pilot Program (up to  
\$410,000 towards  
the ZEVs)

**O  
R**

HVIP (\$150,000  
towards the ZEV)

## Third Example of Maximizing Incentives

(Assumes fleet is not in a DAC and has >10 vehicles)

SDG&E Power Your  
Drive For Fleets  
(100% of costs up to  
charger ~~± charger~~  
~~rebate~~)

EnergIIZE Fast Track  
(50% of costs of  
charger and  
software, ~~and~~  
~~installation~~)

Federal Tax Credit  
(\$40,000 towards  
the ZEV)

SDAPCD CAFA ~~or~~  
~~Pilot Program~~ (up to  
\$410,000 towards  
the ZEVs)

**O**  
**R**

HVIP (\$150,000  
towards the ZEV)



## Last Example of Maximizing Incentives

(Assumes fleet is not in a DAC and has 10 or fewer vehicles)

SDG&E Power Your  
Drive For Fleets  
(100% of costs up to  
charger ~~± charger~~  
~~rebate~~)

EnergIIZE Fast Track  
(50% of costs of  
charger and  
software, ~~and~~  
~~installation~~)

Federal Tax Credit  
(\$40,000 towards  
the ZEV)

SDAPCD CAFA ~~or~~  
~~Pilot Program~~ (up to  
\$410,000 towards  
the ZEVs)

HVIP (\$150,000  
towards the ZEV)

# Making a decision to apply

## **Before proceeding, be sure to check...**

- Am I an eligible applicant (based on entity type, size, etc.)
- Do I have enough time ahead of the due date to prepare an application?
- Is my project located in a priority area?
- Can I get enough funding for the vehicle or equipment to make the project financially feasible?
- Is scrappage required, and if so, do I have an eligible truck to scrap?
- Can I complete the project in the amount of time provided?



# Examples of Application Requirements

Vehicles	Infrastructure
New Vehicle Quote	Project Schedule
Compliance Certificate	Bids from Contractor(s) and Vendor(s)
Titles (existing vehicle)	Site Plan
Registration (existing vehicle)	Proof of Utility Coordination
Insurance (existing vehicle)	Proof of EV order or purchase
Photographs (existing vehicle)	Permitting Plan
Mileage Records (existing vehicle)	Deed or Lease
Applicant Information	Applicant Information

# Timelines



## Questions and Answers

Submit your questions to the host using the Q&A box in the upper right-hand corner.



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# FREE ZERO EMISSION TRUCK TECHNICAL ASSISTANCE

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## AVAILABLE TO FLEETS SERVING THE PORT OF SAN DIEGO

Available now through June 2023! Following a short discovery call to learn more about your operations and interests, GNA's team of funding, regulatory, and technical experts will work with you through a series of FREE calls to address your questions and provide guidance regarding zero emissions vehicles.



REGISTER HERE



# Thank You!

**What did you think of the webinar?  
Please fill out our 30 second survey.**

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