

Grants and Incentives for Trucks and Infrastructure







DEPOTS Electric Truck Bootcamp Series

- **1.** Best Practices for Utility-Fleet Relationships (April 25th)
- 2. Grants and Incentives for the Trucks and Infrastructure (May 16th)
- **3. Electric Truck Developments** (May 30th)
- 4. Faster Charging Opportunities and Challenges at 350KW and higher (June 13th)
- 5. Opportunities to Extend BEV Range (June 27th)
- **6.** Electricity Resiliency and Availability (July 11th)
- 7. Current and Future Regulations for Zero Emission Trucks (July 25th)
- 8. Managed Charging to Improve Availability, Cost and Range (August 8th)
- 9. Scaling Charging Infrastructure Equipment (August 22nd)

10.Electric Depot Site Planning and Construction (September 5th)

2021 Bootcamp is still available at: https://runonless.com/electric/bootcamp-electric/



2023 DEPOT Fleets



Update from The Run Planning...

Follow the Fleets, Drivers, OEMs, EVSEs, Utilities and more at:



RunOnLess.com and on Twitter @RunOnLess



Today's Bootcamp Sponsor







Quiz for Today's Session

Completing Today's Quiz:

- Go to runonless.com and click back into the session
- Click 'Take Quiz' button
- Create username and password to keep track of your progress
- Spend a few minutes answering the questions and receive your 2023 RoLE - DEPOT badges





What You Should Know

Q&A

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

Recording

A recording of today's webinar will be available on runonless.com

Technical Issues

Contact Stephane Babcock at stephane.babcock@gladstein.org







Today's Bootcamp Speakers

Grants and Incentives for Trucks & Infrastructure

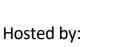


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Paul Rosa Senior Vice President, Procurement & Fleet Planning Penske





Sam Spofforth Clean Cities Project Leader National Renewable Energy Laboratory (NREL)





Rental Leasing Logistics

Grants and Incentives

Why are they important? Why are they needed?

Paul Rosa, senior vice president of procurement and fleet planning

PENSKE TRUCK LEASING

Penske Truck Leasing is a leading global transportation services provider, operating and maintaining more than 400,000 vehicles at thousands of locations.

Penske has been **operating alternative fuels fleets for 25+ years**, investing in maintenance, training, and facilities.



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WHY GRANTS AND INCENTIVES...





WHY GRANTS AND INCENTIVES... BEV CONSIDERATIONS

- Increased acquisition costs
- Complementary
 infrastructure required
- Residuals unknown
- TCO not at parity with ICE





WHY GRANTS AND INCENTIVES... INFRASTRUCTURE CONSIDERATIONS

- Building modifications and/ or upgrades frequently needed
- Expensive hardware (charger cabinet, etc.) and software costs
- High costs in construction (permits, breaking ground, etc.)
- Infrastructure maintenance costs often overlooked
- Unknown hardware life





WHY INCENTIVES AND GRANTS ARE NECESSARY



PENSKE



Rental | Leasing | Logistics

Truck and Infrastructure Funding Opportunities

Run on Less Electric Depot May 16, 2023 Tom Brotherton CALSTART







Types of Incentives

Tax Credits

 Easy to figure out, but funding comes a year later when you file taxes

Grants

More work to pull together, but more flexible

Vouchers

Point-of-purchase immediate discount

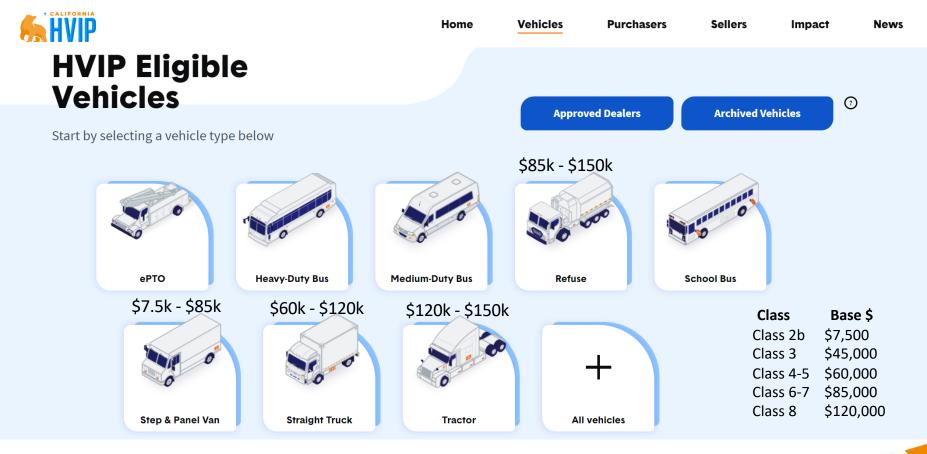


About California HVIP

The California Air Resources Board (CARB), in partnership with CALSTART, launched the **Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)** in 2009 to accelerate the adoption of cleaner, more-efficient trucks and buses.

Vouchers apply directly at time of purchase!





Search at CaliforniaHVIP.org



California HVIP

Funding available NOW

- HVIP Standard: \$312M available
- Drayage Truck: \$117M available
- Innovative Small E-Fleet coming summer 2023 \$33M
- Transit: **\$111M** available
- Public School Bus Set-Aside coming summer 2023 \$117M



Equipment Eligible for California EnergIIZE Incentives:

\$183 million

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









- Level 2 Electric Vehicle Supply Equipment (EVSE)
- DC Fast-Charge EVSE
- Wireless Charging Infrastructure
- Charge Management Software

Compressors

- Liquid and Gaseous Pumps
- Piping and Pipelines •
- **Dispenser with Hose** and Nozzles
- High-Pressure Storage **On-site Production**
 - Chillers

- Switchgear
- **Electrical Panel Upgrades** ٠
- Wiring and Conduit
- Meters



- www.CaliforniaHVIP.org
- www.EnergllZE.org
- https://calstart.org/voucher-incentive-programs-2023
- https://calstart.org/resources/#trucksresources

Tom Brotherton CALSTART tbrotherton@calstart.org





Federal Funding & the EV Funding Finder

Will Marshall, Freight Electrification Program Associate May 16, 2023



Electrification Coalition



About the Electrification Coalition

The **Electrification Coalition** is a nonpartisan, nonprofit organization dedicated to driving the policies and actions that will electrify all modes of transportation to protect economic and national security, public health, and American jobs.



Bipartisan Infrastructure Law & Inflation Reduction Act

- Prior to IRA and BIL, the federal government invested a total of \$3.32 billion in transportation electrification
- Other sources of investments
 - VW Settlement nearly \$5 billion in for ZEV-related investments
 - Utility Investment more than \$3.47 billion
- The BIL and IRA made historic federal investments of more than \$79.5 billion in transportation electrification
 - **BIL**: \$32.5 billion eligible to support electric vehicles, plus \$10.5 billion for grid upgrades and battery development.
 - **IRA**: \$47 billion eligible to support vehicles (not including tax credits or loan programs)
- 30x increase in federal TE investment (not including tax credits)



EV Funding Finder

The EV Funding Finder is a user-friendly tool to identify federal transportation electrification funding opportunities.

The EC created the EV Funding Finder to:

- Answer the question, "Where is the money and how do I get it?"
- 2. Capitalize on unprecedented investment in transportation electrification from the federal government
- 3. Support efficient, effective, and equitable deployment of funds to reach ambitious goals

The EV Funding Finder:

- Lowers the barrier to entry to identifying and accessing federal funding opportunities for transportation electrification
- 2. Shows how funding opportunities can be stacked and which alternative routes can be utilized to fund projects
- 3. Provides case studies that show potential use of funds





EV Funding Finder

A user-friendly tool to identify federal funding opportunities

The future of transportation is electric, given the massive benefits everyday Americans, businesses, local governments, cities and states stand to gain. Not only does electric transportation save drivers money through stably priced fuel, but it also benefits air quality, public health, and the job market. With unprecedented investment at the federal level to aid in the electric transportation transition, businesses, local governments, cities, and states have an exciting opportunity to participate in this transition. But they must work together.

All of the funding available can make identifying and applying for the proper funding streams daunting. This tool helps eligible recipients sort through available federal funds for transportation electrification and helps recipients understand how investments can be matched. It can also help users identify where technical assistance is available.

Duty Vehicle

Step 1: I represent a...





Access Technical Assistance

Electrify Ports companies to electrify port transit

EV Funding Finder Results

Freight-shippers / Purchase a medium or heavy duty vehicle, Purchase a medium or heavy duty EVSE

Case Study: Freight company Mustang is looking to electrify its fleet

Mustang is a leading freight company that has a massive fleet of heavy-duty trucks. Mustang is responsible for thousands of miles each day and associated carbon emissions. Mustang works regularly with ports across the nation to ship its goods across seas. It should explore the following funding opportunities:

- Commercial Clean Vehicle Tax Credit (45W): As a commercial entity. Mustang can qualify for a tax credit of up to 30% of the cost of an electric heavy-duty truck.
- Carbon Reduction Program: Mustang can work with a state to access funds from the Carbon Reduction Program to purchase electric vehicles and equipment.
- Port Infrastructure Development Program: Mustang can work with an associated port to access funds from the Port Infrastructure Development Program. Together, Mustang and a port can gain funds for electrification planning, technical assistance, and grid upgrades.

Please note that the case study above is imaginary and that funding pathways will be updated by the EC monthly. Results are comprehensive, but may not be reflective of imminent program changes. EV Funding Finder users should also be sure to inquire about state-specific incentives that could further support projects. For additional information on deadlines and RFPs, check out the <u>Climate Program</u> **Portal**.

trification

Purchase a medium or heavy duty vehicle Carbon Reduction Program Congestion Mitigation and Air Quality Improveme Clean Heavy Duty Vehicle Program Commercial Clean Vehicle Tax Credit (45W) Community Facilities Direct Loan Diesel Emissions Reduction Act Environment and Climate Justice Block Grants Electric or Low Emitting Ferry Pilot Program Federal Land Access Program Grants to Reduce Air Pollution at Ports Greenhouse Gas Reduction Fund Low or No Emission Vehicle Program Neighborhood Access and Equity Grants Port Infrastructure Development Program Rural Economic Development Grants

Voluntary Airport Low Emissions Program

To accomplish your transportation electrification project consider utilizing or applying to:

Purchase a medium or heavy duty EVSE

Alternative Fuel Vehicle Refueling Property Tax Credit

(3

Airport Zero Emission Vehicle Program

Carbon Reduction Program

Conservation Innovation Grants

Community Facilities Direct Loan

Clean Heavy Duty Vehicle Program

Environment and Climate Justice Block Grants

Electric or Low Emitting Ferry Pilot Program

Federal Land Access Program

Greenhouse Gas Reduction Fund

Grants to Reduce Air Pollution at Ports

Low or No Emission Vehicle Program

National Highway Freight Program

Neighborhood Access and Equity Grants

Public Works and Economic Adjustment

Port Infrastructure Development Program

Reduction of Truck Emissions at Port Facilities

Rebuilding American Infrastructure with Sustainability

and Equity Grants

Rural Economic Development Grants

Surface Transportation Block Grants

State Energy Program

Thank you!

Will Marshall

Program Associate, Freight Electrification wmarshall@electrificationcoalition.org

Funding Application and Administration Best Practices



Sam Spofforth, Clean Cities Project Leader, National Renewable Energy Laboratory,

On Detail to U.S. DOE VTO Technology Integration Team

Roadmap 2023

May 16, 2023



Clean Cities Coalition Network

- Local
- Trusted
- Connected





Our Work:

- Education
- Technical Support
- Project Support
- Assistance to Access Funding



Preparing for Funding Opportunity
 Application Development
 Contracting
 Award Performance & Administration
 Post Award Obligations (if applicable)

Preparing for Funding Opportunity

- Build Relationships & Prospective Partnerships
- Acquire or Update Federal Registrations
 - Grants.gov; Sam.gov
- Define Project Concept and Goals
- Build Conceptual Budget

Application Development

- Build Application Team:
 - Team Lead, Narrative, Forms & Budget, Partner Communications / Letters of Commitment
- Follow Solicitation Exactly
 - Attend to Language: "may," "must," "encouraged;" Scoring Criteria
- Secure Needed Match Commitments; Budget Conservatively
- Submit Early!

Contracting

- Expect Contracting Process to Take Time...
- Statement of Project Objectives (SOPO)
- Budget (Including Cost Share)
 - Budget Enough to Administer Award
- Federal "Terms and Conditions" (TAC)
- Prime Obligations and "Flow Down" Requirements

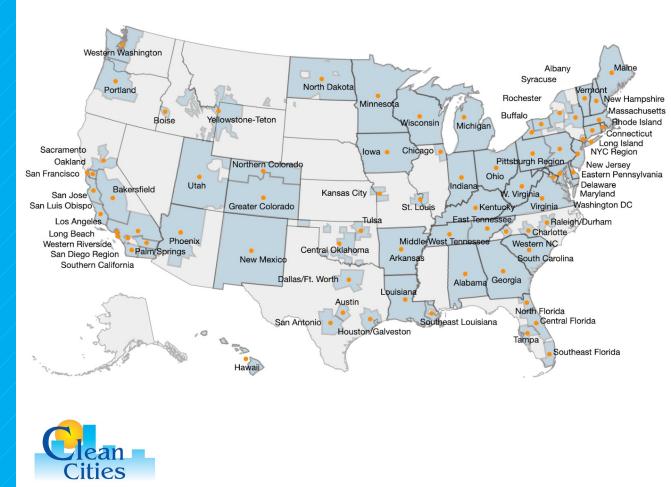
Performance and Administration

- Set Up Internal Systems & Procedures
- Financial
- Performance
- Cadence of Internal & External Meetings
- Work with Your Federal Project Officer
- Understand Post-Award Obligations (if any)

75 Unique Coalitions; Over 15,000 Combined Stakeholders:

- Statewide or Regional/Local
- Independent Non-Profits or Housed in Larger Organization
- DOE Working to Strengthen and Expand Network

cleancities.energy.gov





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cleancities.energy.gov



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Hosted by: **Mike Roeth**

Executive Director, NACFE















Let's Stay Connected... ... And charged up!



NACFE (& Spanish: NACFE LATAM)

<u>NACFE</u>

<u>@NACFE_Freight & @RunOnLess</u>







NORTH AMERICAN COUNCIL FOR FREIGHT EFFICIENCY

NACFE.org

