

Federal Funding for Transportation Electrification



Electrification
Coalition

Electrification Coalition Founding

The **Electrification Coalition (EC)** 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.



Securing America's
Future Energy



Electrification
Coalition



The Problem

We are heavily dependent on an unstable oil market.

The U.S. is the **world's largest consumer** of crude oil and petroleum, accounting for nearly **20% of daily global oil demand** with only **4% of the world's population**.

- 90% of America's transportation sector is dependent on oil-based fuels.
- Transportation is responsible for approximately 70% of all U.S. petroleum consumption.



EV Adoption Programs Around the U.S.



Technical Lead

Climate Mayors EV Purchasing Collaborative



State EV Policy Accelerator

NV, MI, PA, VA, NC



Electrification Advisor

Bloomberg American Cities Climate Challenge



Lead Electrification Partner

Smart Columbus



Federal EV Infrastructure Program

State agency collaboration on EV infrastructure investments (NEVI fund)



Electric Freight Consortium

Private-sector collaboration



Federal Landscape

Historic Funding to support energy & transportation

- Bipartisan Infrastructure Law/Infrastructure Investments and Jobs Act
- CHIPS and Science Act
- Inflation Reduction Act

Regulation

EPA Proposed Emissions Standards

- Light Duty Standards
- Heavy-Duty Standards

IJA/BIL and IRA Unleash Billions

EV Charging

- **\$5 billion** for National Electric Vehicle Infrastructure (NEVI) Formula
- **\$2.5 billion** for Charging and Fueling Infrastructure (CFI) grants

MDHD Vehicles

- **\$5.6 billion** for Low or No Emission (Bus) Grant Program
- **\$5 billion** for Clean School Bus Program
- **\$3 billion** for Grants to Reduce Air Pollution at Ports
- **\$1 billion** for Clean Heavy-Duty Vehicles

Manufacturing

- **\$6 billion** for battery processing and manufacturing
- **\$40 billion** in loan authority for advanced energy manufacturing

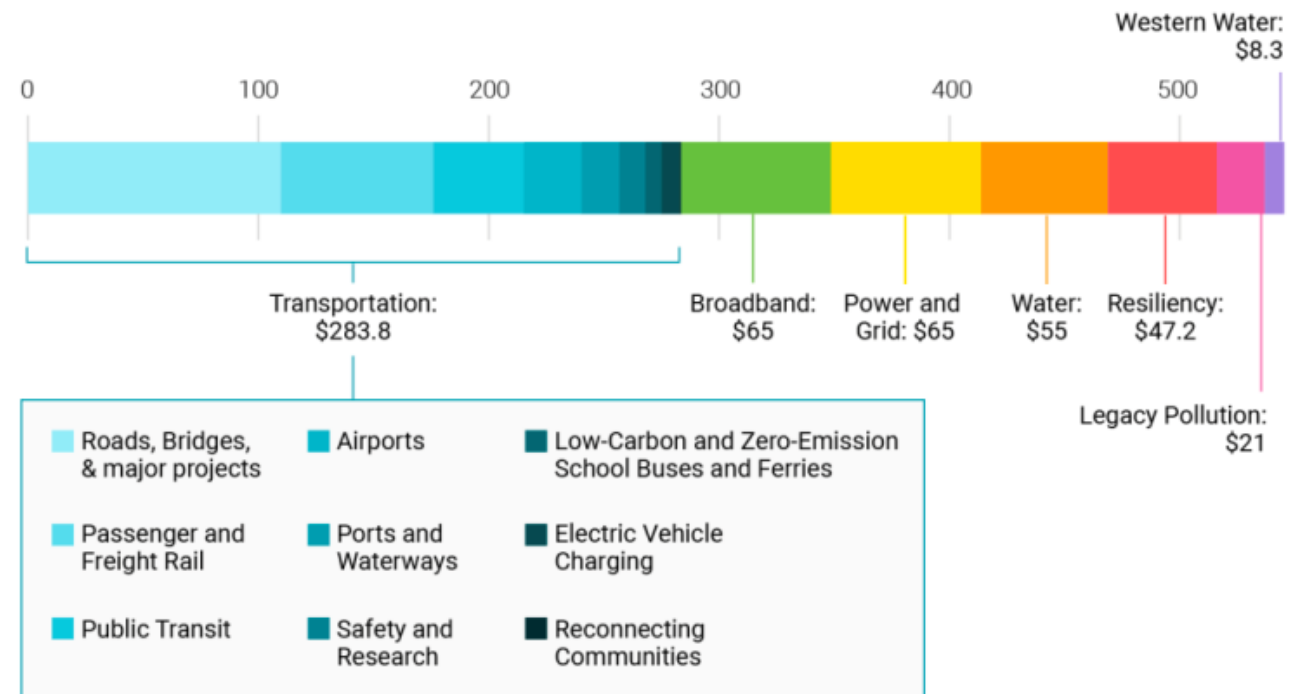
Tax Credits

- **\$7,500** for purchase of a new EV (\$4,000 for used)
- **\$40,000** Tax Credit for purchase of clean commercial vehicle
- **\$100,000** for fueling infrastructure in low-income and rural communities



Infrastructure Investment & Jobs Act

Figure 1. Topline above-baseline spending in IIJA (billions of USD)



Source: Bipartisan Infrastructure Investment and Jobs Act Summary

Inflation Reduction Act – By the Numbers

Figure 1. Energy supply receives about half of IRA resources, with significant investments in clean manufacturing and housing (billions of dollars)

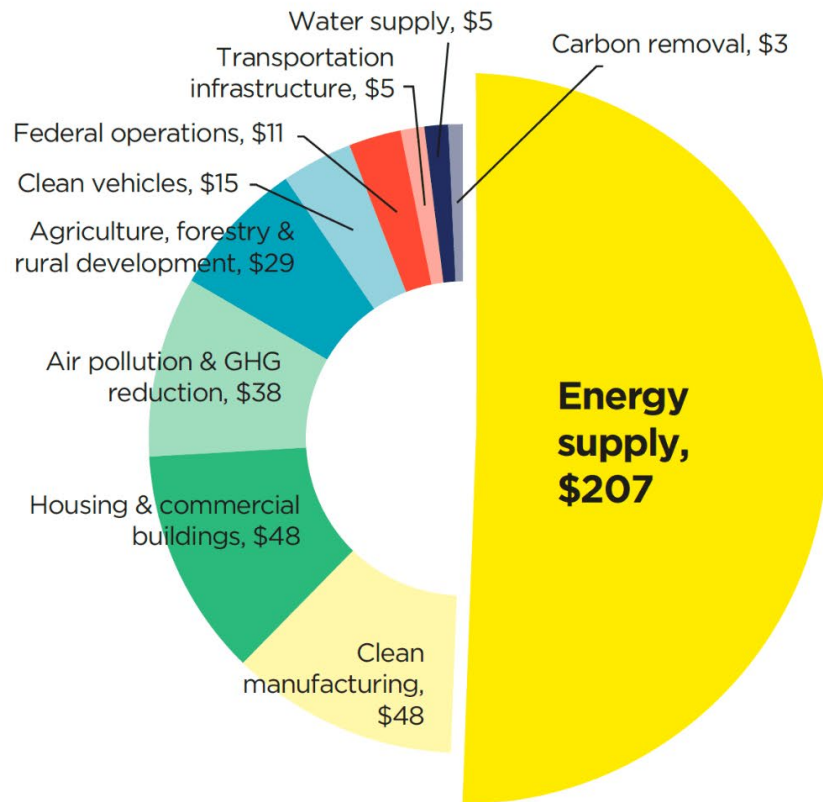
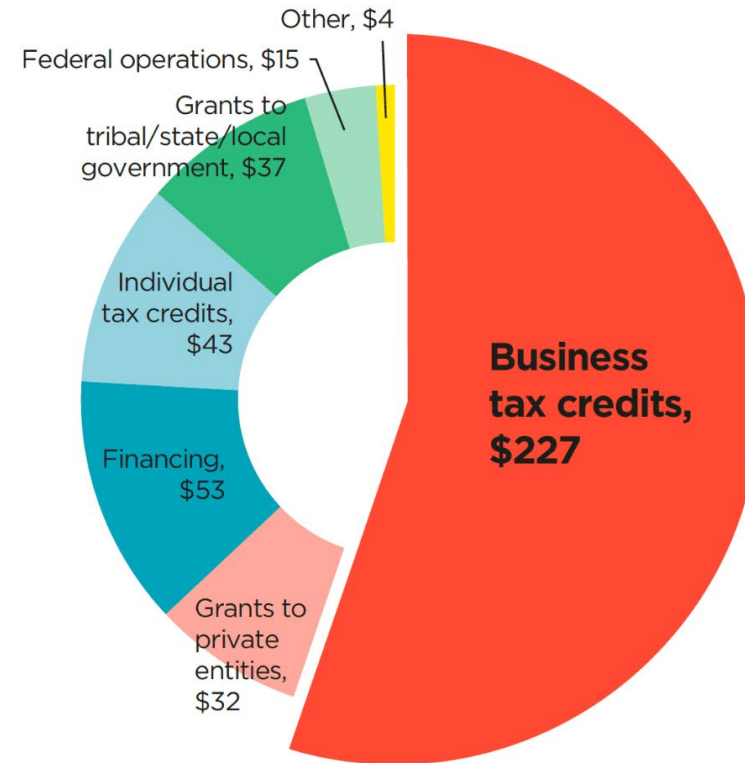


Figure 2. The largest share of IRA funding will be available as tax credits to businesses (billions of dollars)



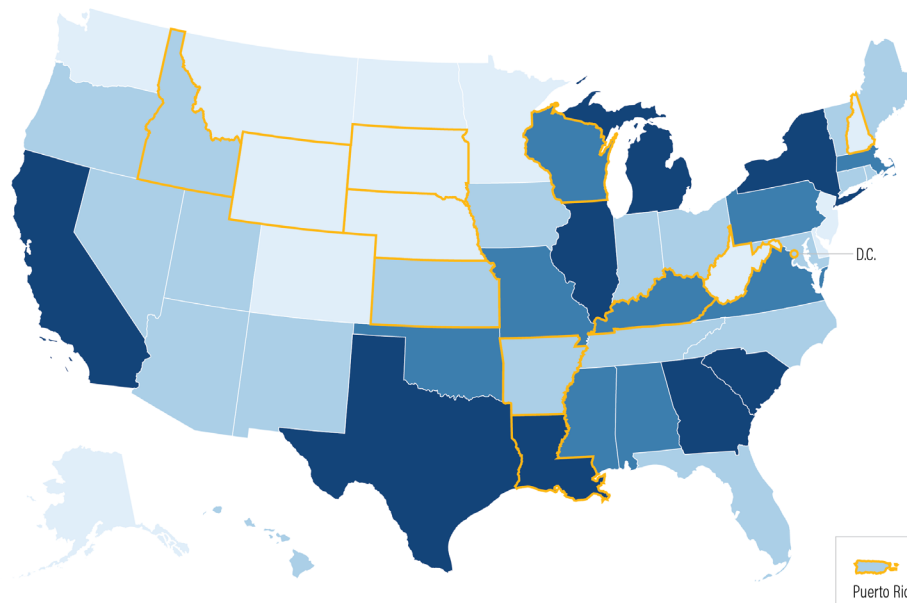
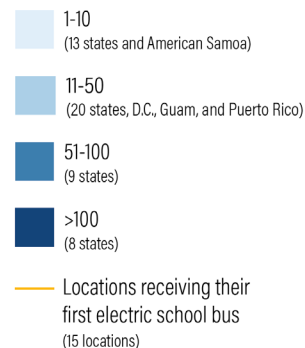
Inflation Reduction Act

- ✓ Light-Duty EV Tax Credit
- ✓ Used EV Tax Credit
- ✓ Commercial Clean Vehicle Tax Credit
- ✓ Advanced Technology Vehicle Manufacturing Loan Program
- ✓ Advanced Manufacturing Production Tax Credit
- ✓ Greenhouse Gas (GHG) Reduction Program
- ✓ Environmental and Climate Justice Block Grant
- ✓ Neighborhood Access and Equity Grant Program
- ✓ And much more!

EPA Clean School Bus Program – by the numbers

Electric School Buses Awarded in the Clean School Bus Program 2022 Rebates

Over 2,300 electric school buses awarded in total



Source: Awarded Clean School Bus Program Rebates | US EPA.

Note: State awards include awards made to tribal communities within that state.



2022 Rebate Awards

Nearly \$1 billion awarded to all 50 states, Indian tribes, territories

95% of awards were for electric school buses (ESBs)

5 school districts in NC were awarded 31 ESBs

2023 Grant Awards – Applications due August 22

\$400 million available

competitive grant process

open for applications April 24 – August 22, 2023

Eligibility

School districts, charter schools, Native nations, Tribal organizations, non-profit school bus associations, and school bus dealers/manufacturers

What is NEVI?



Joint Office of
**Energy and
Transportation**

\$5 Billion

EVSE build-out along highways

\$2.5 Billion

CFI - Competitive grants with
50% set aside for rural and
underserved communities

- Part of the IIJA/Bipartisan Infrastructure Law
- Formula based program
- South Carolina's NEVI Plan



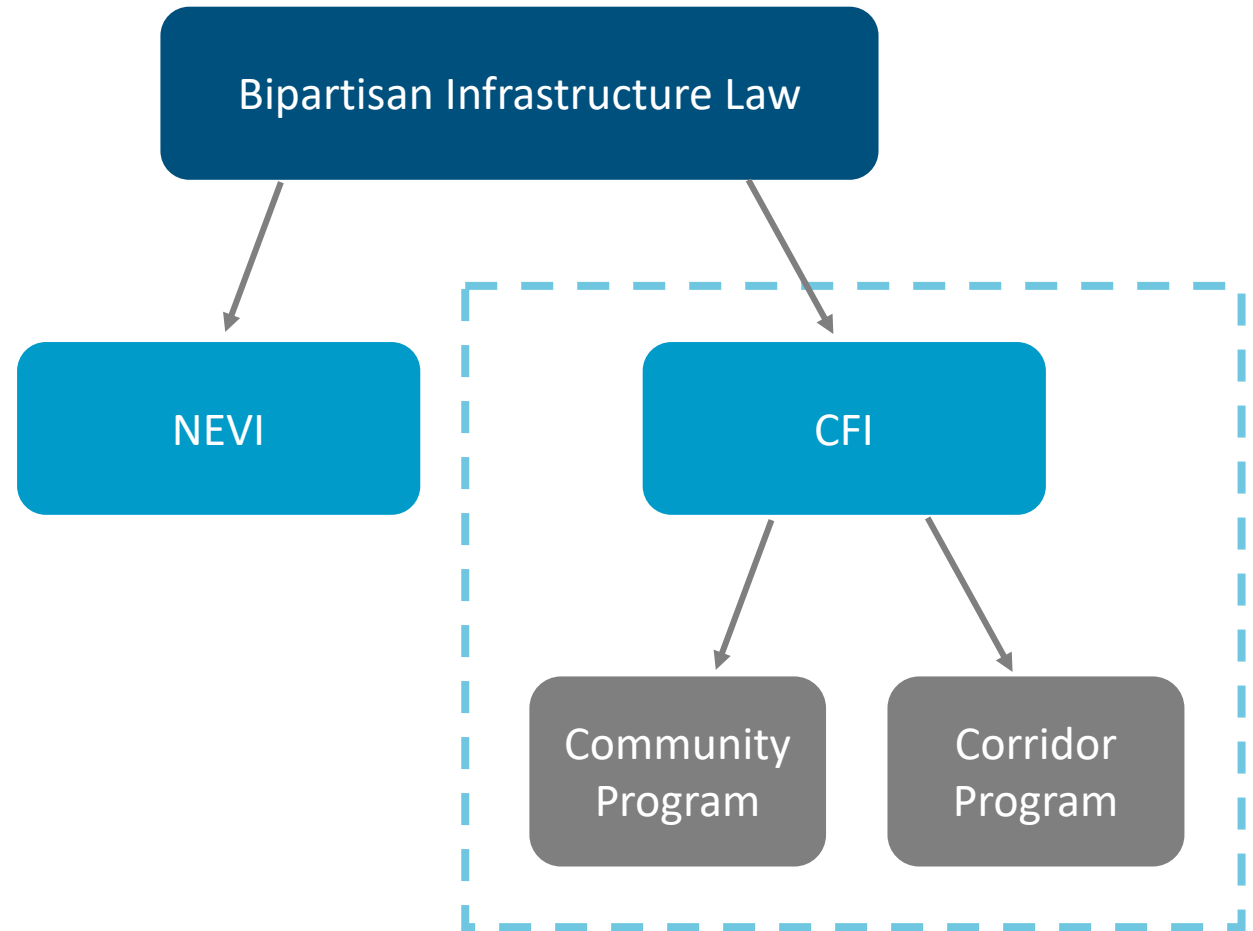
~ \$70 million
over 5 years

\$10/14.9 million
FY 2022/23

Charging and Fueling Infrastructure Grant (CFI) *The Other Side*

On March 14, The DOT released the Notice of Funding Opportunity for the Charging and Fueling Infrastructure Grant, detailing the breakdown of the remaining **\$2.5 Billion in funding** from the BIL.

- This funding is discretionary
- Divided between community and additional corridor deployment projects
- Available for public and quasi-public entities to pursue
- The standards can be found on [grants.gov](https://www.grants.gov) or the DOT's website



Competitive Application Tips

- **Tell Your Story** – Focus not just on the location of chargers, but how they will serve and be used by the community
- **Partnering and Scalability** – Consider what public, private, and non-profit partners can be involved in the application and approach
- **Be Clear on Timelines and Implementation Plans** – Applicants may need to secure private charging entities, site locations, or other project-specific details *after* the grant application is awarded
- **Leverage Community Engagement and Educational Engagement Opportunities** – up to 5% of funding for Community Program projects can be directed to EV and charging educational programming



EC Support

- On-call technical support
- Letter of support
- Review part of the application
- Partner on community engagement

Chips and Science Act

- \$280 Billion to boost domestic research and manufacturing of semiconductors in the United States.
 - \$39 billion in manufacturing incentives, including \$2 billion for the legacy chips used in automobiles and defense systems,
 - \$13.2 billion in R&D and workforce development
 - \$500 million to provide for international information communications technology security and semiconductor supply chain activities.
 - 25 percent investment tax credit for capital expenses for manufacturing of semiconductors and related equipment










Leveraging Federal Funding State Opportunities

- ✓ Prioritize funding and staffing to support implementation of federal programs
- ✓ Fund Workforce Development Programs
- ✓ Provide Match Funding/Complementary Funding to supplement NEVI
- ✓ Permitting and zoning policies
- ✓ Develop Public – Private Partnerships

EV Funding Finder

Step 1: I represent a...



 City	 Rural Area
 School	 Freight/Shippers and Carriers
 EV Advocate or Community Organization	 Business
 Non-Profit Transportation Group	 Individual
 State	

Step 2

Select Funding Scenarios

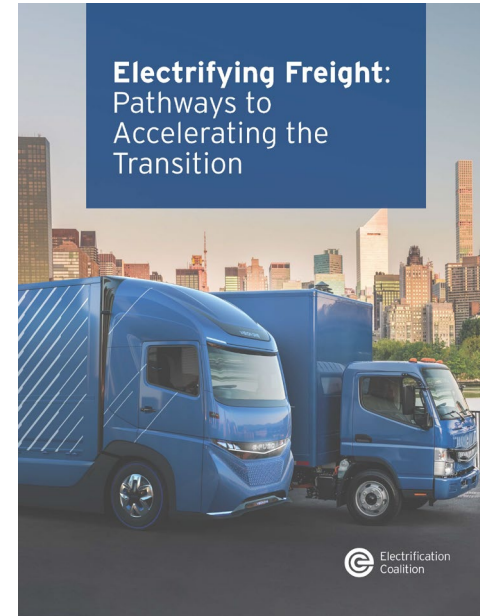
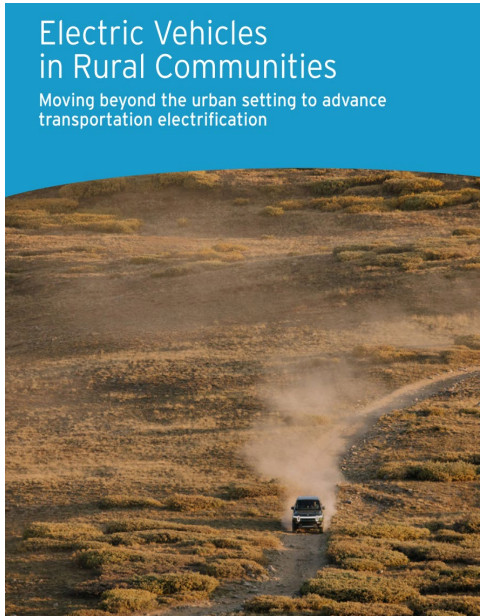
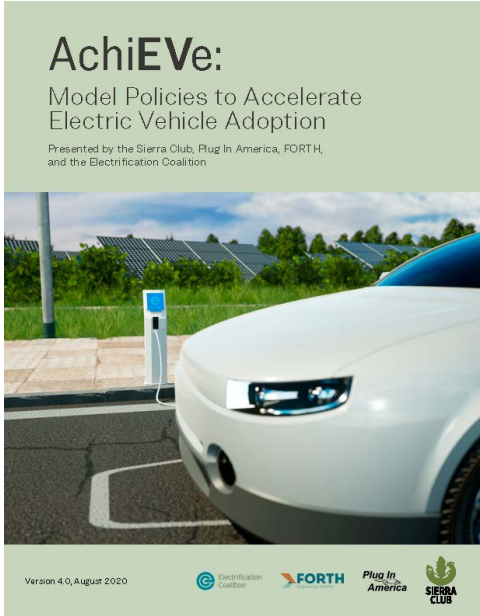
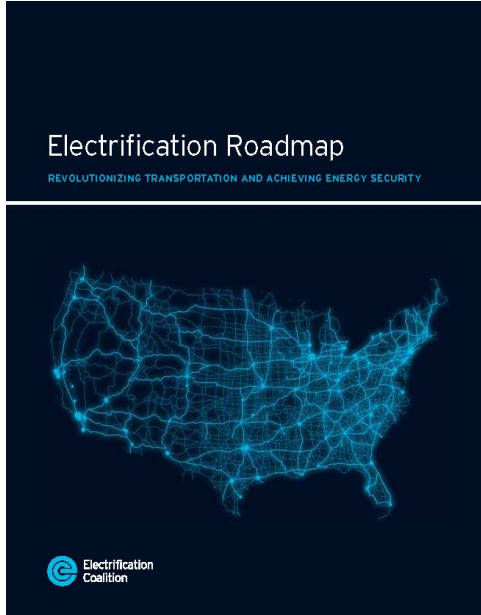
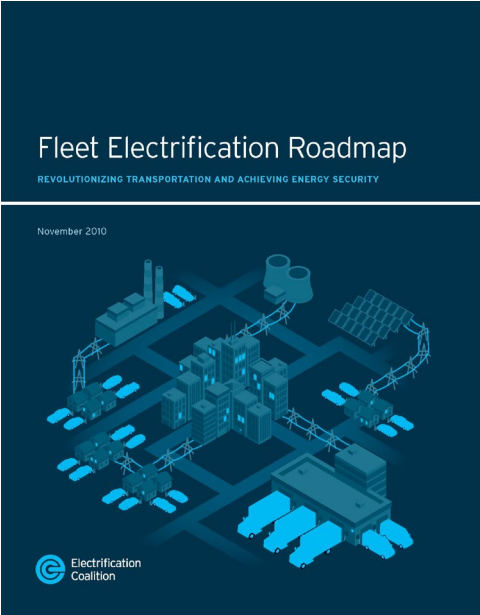
 Purchase or Lease a Light-Duty Vehicle Funds to purchase or lease a light-duty vehicle (ex: passenger car)	 Purchase Light-Duty Charging Infrastructure EV charging infrastructure incentives for light-duty vehicles	 Grid Upgrades Funding for updating and preparing the grid for at-scale EV adoption
 Purchase or Lease a Medium- or Heavy-Duty Vehicle Funds to purchase or lease a medium- or heavy-duty vehicle (ex: school bus)	 Purchase Medium- or Heavy-Duty Charging Infrastructure EV charging infrastructure for medium- and heavy-duty vehicles	 Access Support Planning Funding to ensure adequate planning of EV infrastructure
 Access Technical Assistance Funds to provide technical expertise to access EVs or EV infrastructure	 Electrify Ports Funding for shipping and transportation companies to electrify port transit	

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

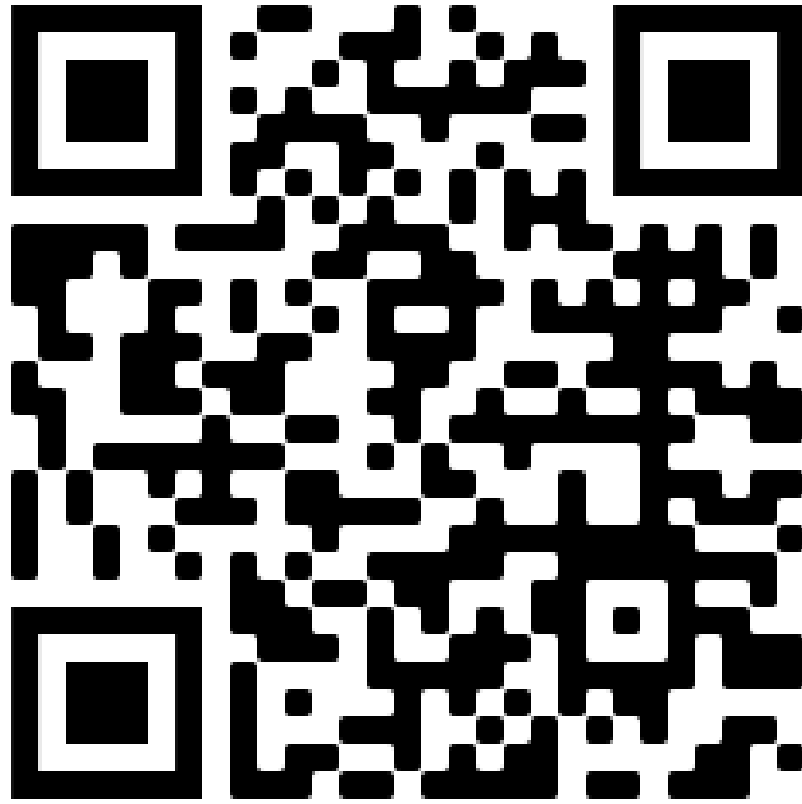
Mustang is a leading freight company that has a massive fleet of heavy-duty trucks. Mustang is responsible for thousands of miles each day and associated carbon emissions. Mustang works regularly with ports across the nation to ship its goods across seas. It should explore the following funding opportunities:

- **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 [Climate Program Portal](#).



EC Resources and Toolkits



Explore more resources at
www.electrificationcoalition.org

Thank You!



Electrification
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