

# Alaska EV Working Group



Electrification  
Coalition



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# Electrification Coalition Founding

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.



# The Problem



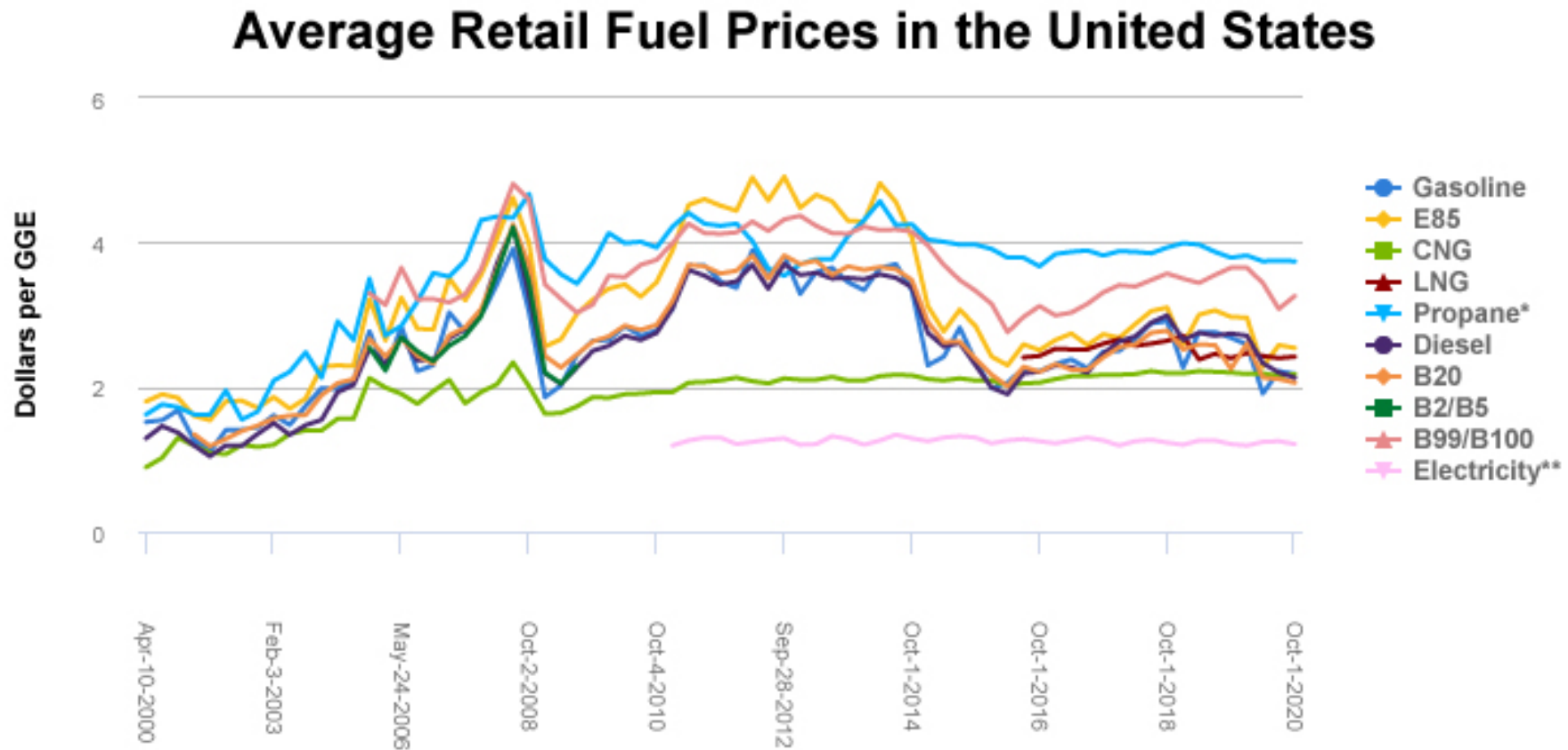
We are heavily dependent on an unstable oil market.

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**.

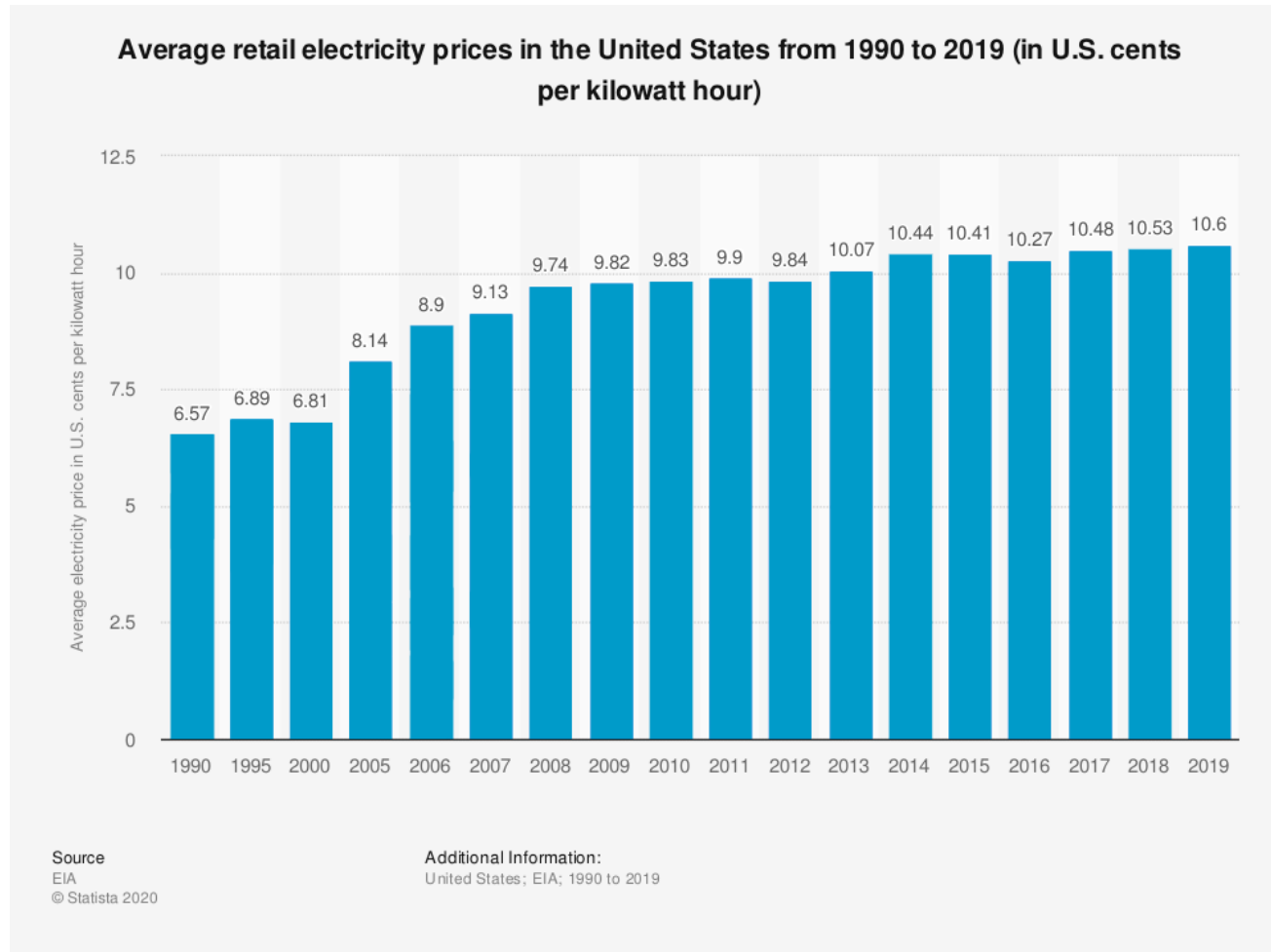
- 92% of America's transportation sector is dependent on oil-based fuels.
- Transportation is responsible for approximately 70% of all U.S. petroleum consumption.

# National Security

Because oil markets are manipulated by OPEC and other national oil companies, our dependence poses a significant **economic and national security risk**.



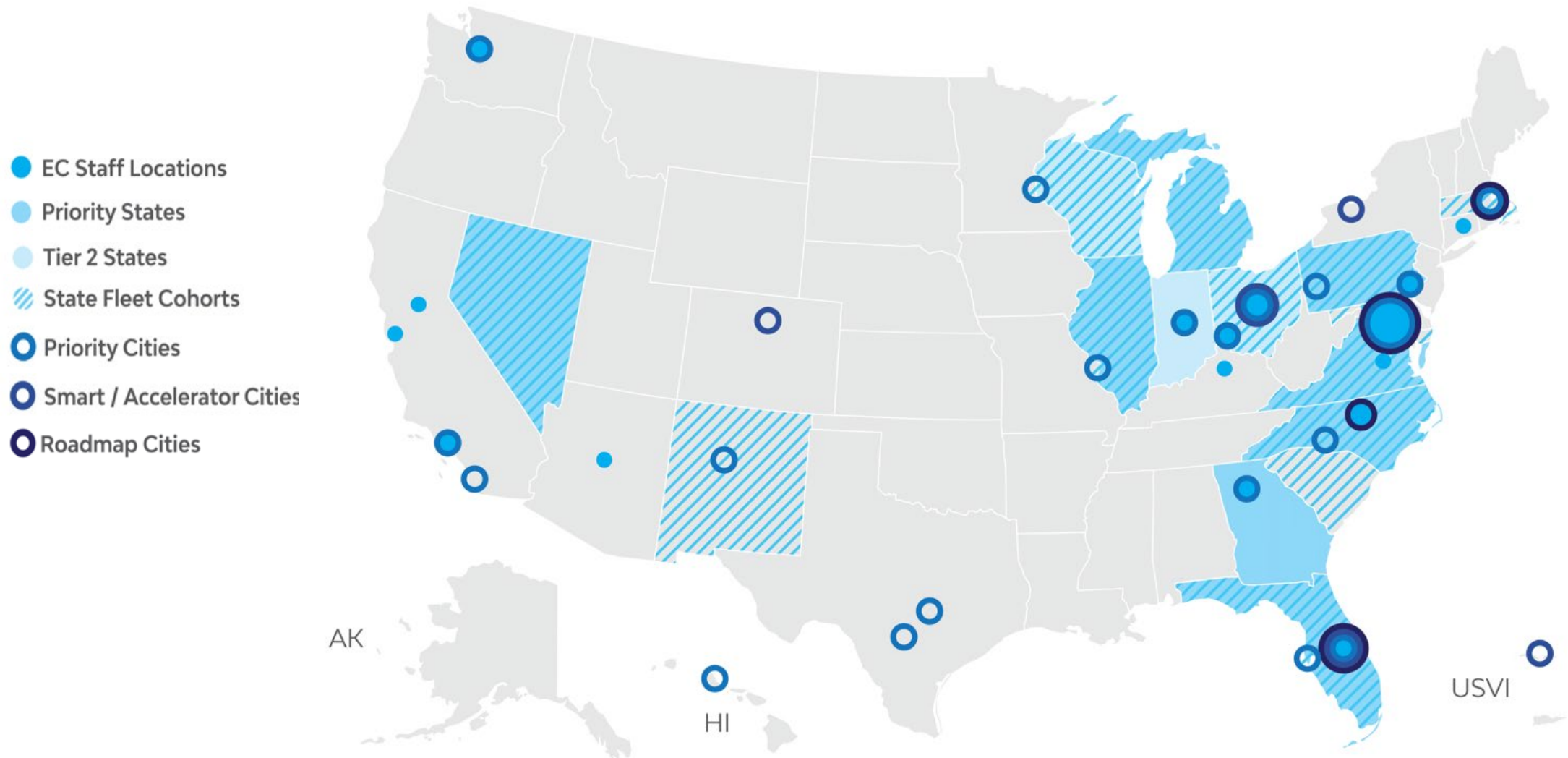
# The Case for Electrification



Electricity is 100% domestically produced, and rates have stayed **low and consistent**, insulating consumers and fleets from oil price volatility.

Electric mobility is one of the best scalable alternatives for reducing U.S. oil dependence, and they are the only vehicles that will get **cleaner over time**.

# The EC National Presence



# 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



## Project Lead

US Virgin Islands and Washington, DC  
Roadmaps



## Pilot Program Leader

Freight and Goods Delivery Electrification

# Why Electric Vehicles?



**National Security**



**Cost Savings**



**Public Health  
Benefits**



**Environmental  
Benefits**

# EV Myths - Busted



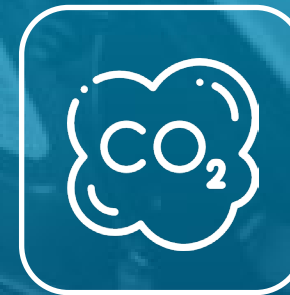
**"Charging electric vehicles is inconvenient and there aren't enough charging stations."**

It only takes a few seconds to plug in your EV, and they refuel while you're doing something else! Cars spend over 90% of their time parked, so they 'fill up' during their typical downtime. Plus, DC Fast Chargers make charging on long trips quick and convenient.



**"Electric vehicles are too expensive for the average consumer."**

While EVs have cost more in the past, battery costs are rapidly falling and many new EVs are now available below the average new vehicle cost of \$40,000. The used EV market is steadily growing and used models can be found for under \$15,000.



**"Electric vehicles aren't actually environmentally friendly because we burn fossil fuels to produce electricity."**

Even if electric vehicles are fueled by electricity derived from 100% coal, they cut greenhouse gas emissions by 50% or more. Why? EVs use energy more efficiently than traditional internal combustion engines.



# EVs in Cold Weather

## 1. Des Moines case study

- Collaboration to identify vehicles best suited for electrification
- City employee and fleet maintenance survey though and after the winter with encouraging results

## 2. Norway, Denmark, and Iceland have the highest EV adoption rates

- 64% of all vehicles on the road in Norway are electric

## 3. Improving Technology

- Technology is ever improving
- Proper use and best practices can preserve performance and range in winter conditions

# National Electric Vehicle Infrastructure Program (NEVI)

**\$5 Billion**

NEVI Formula Funding Program

**\$2.5 Billion**

Competitive Grant Program

- BIL: established Joint Office of Energy and Transportation
- Goals: support EVs, reduce pollution, create jobs, and build a charging network for everyone
- Federal objective: 500,000 new stations by 2030
- Funding: **distributed through 52 DOTs over 5 years**
- Win: All 52 jurisdictions submitted plans on time!

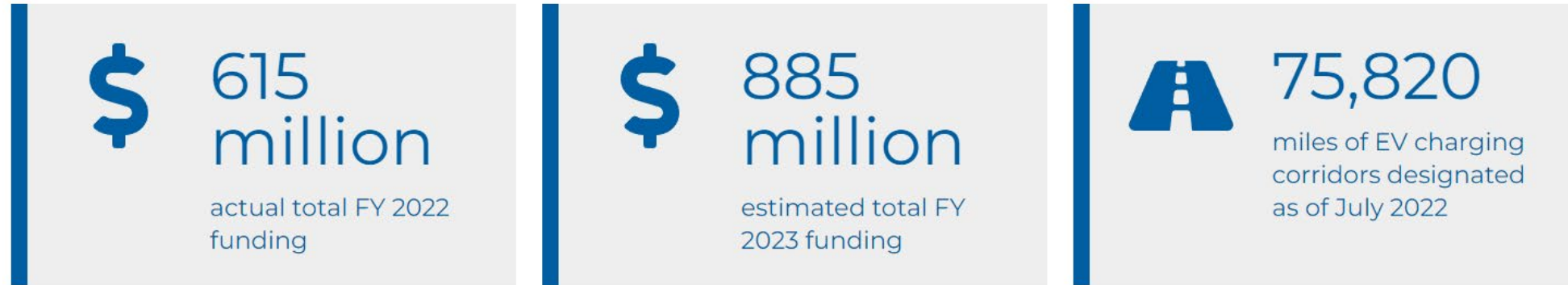


Joint Office of  
**Energy and  
Transportation**

# NEVI Program Top Takeaways

|                                                 |                                                                                                                                                                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location Requirements                           | <ul style="list-style-type: none"><li>• Alternative Fuel Corridors- state designated highways</li><li>• Years 2-5 will expand past AFCs</li><li>• 50 miles x 1 mile</li></ul>                                               |
| State Planning Requirement                      | <ul style="list-style-type: none"><li>• Every formula jurisdiction must compose a plan- all 52 submitted</li><li>• Details for deployment and stakeholder engagement</li><li>• Plans are to be updated every year</li></ul> |
| Benefits to Rural and Disadvantaged communities | <ul style="list-style-type: none"><li>• Justice40 considerations must be incorporated into state plans</li><li>• AFCs allow rural communities to receive stations</li></ul>                                                 |
| Eligible projects                               | <ul style="list-style-type: none"><li>• Procurement of EVSE, 5 years of operation and maintenance, community engagement, etc.</li></ul>                                                                                     |
| Minimum Standards (Released by FHWA)            | <ul style="list-style-type: none"><li>• Dictate minimum standards and specifications for charging stations</li></ul>                                                                                                        |

# What's Next for NEVI?



- All 52 jurisdictions have been approved!
- With approval – [states can now unlock funding](#) to be reimbursed for state staffing and planning activities and can also start deploying funding to build charging stations and execute their plans.
- Charging Station rules expected to be finalized expeditiously
- Details for the [\\$2.5 billion competitive grant program](#) expected soon!

# Alaska NEVI Plan Call-Out

1. Competitive grant program
  - Most common approach
2. Site host responsibility
  - Streamlining responsibility increases the reliability of the network
3. Upgrading existing stations
  - Supporting strong current infrastructure supports the reliability of the network
4. Wide range of stakeholders
  - J40 engagement, expansive agency and local gov engagement, and future engagement

# Federal Funding Opportunities

|                                              |            |                                                                                                                                      |
|----------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>NEVI Formula Funding</b>                  | <b>BIL</b> | <ul style="list-style-type: none"><li>• \$5 B for 52 jurisdictions dispersed over 5 years</li></ul>                                  |
| <b>Discretionary Grant Program</b>           | <b>BIL</b> | <ul style="list-style-type: none"><li>• \$2.5 B, complements NEVI formula funding, competitive grants</li></ul>                      |
| <b>GHG Reduction Program</b>                 | <b>IRA</b> | <ul style="list-style-type: none"><li>• \$27 B to leverage low-cost financing to deploy zero emission renewable technology</li></ul> |
| <b>Heavy-Duty Truck Rebates</b>              | <b>IRA</b> | <ul style="list-style-type: none"><li>• \$1 B in rebates for clean heavy-duty trucks</li></ul>                                       |
| <b>Neighborhood Access and Equity Grants</b> | <b>IRA</b> | <ul style="list-style-type: none"><li>• ~\$4 B, Discretionary grants to improve connectivity</li></ul>                               |
| <b>Tax Credits (30D)</b>                     | <b>IRA</b> | <ul style="list-style-type: none"><li>• Up to a \$7,500 tax credit on a new EV</li></ul>                                             |
| <b>Domestic Manufacturing</b>                | <b>IRA</b> | <ul style="list-style-type: none"><li>• \$2 B in grants to support domestic EV production</li></ul>                                  |





# Inflation Reduction Act:

## Transportation Electrification Spotlight

### 1. GHG Reduction Fund

- “Green bank model” with separate tracks meant to support different communities and technologies

### 2. Heavy-duty rebates

- For clean trucks and workforce development related to it

### 3. Tax Credits

- For new and used EVs
- Income caps for individuals to qualify. Commercial fleets eligible



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