



CENTER FOR  
TRANSPORTATION  
AND THE ENVIRONMENT

# Zero-Emission Transportation Funding Opportunities

**Morgan Cox** | *she/her*  
Lead Grant Writer  
[morgan@cte.tv](mailto:morgan@cte.tv)

# Agencies/Programs



- U.S. Department of Transportation (DOT)
- U.S. Department of Energy (DOE)
- U.S. Environmental Protection Agency (EPA)
- Federal Transit Administration (FTA)
- National Academy of Sciences
- Alaska Energy Authority
- Volkswagen Mitigation Trust (VW)



Federal Transit  
Administration



## **Low or No Emission Vehicle Program (Low-No):**

The Low-No Program supports the acquisition of zero-emission and low-emission transit buses and the supporting infrastructure required to operate the buses.

## **Eligible Applicants:**

- States (including territories and Washington DC)
- Local governmental authorities, and Indian tribes
- Designated recipients



# Department of Transportation (DOT)



**Buses & Bus Facilities (B&BF):** The Buses and Bus Facilities Program supports capital projects to replace, rehabilitate, purchase, or lease buses and related equipment, or to rehabilitate, purchase, construct, or lease bus-related facilities. Low-No and B&BF are released annually.

## **Eligible Applicants:**

- Designated recipients that allocate funds to fixed route bus operators,
- States (including territories and Washington DC)
- Local governmental entities that operate fixed route bus service
- Indian tribes



# Federal Transit Administration (FTA)



## **Tribal Transit Program:**

- Indigenous American Tribes
- Alaska Native villages, groups, or communities
- \$8.9 million in funding available in FY23

## **Eligible Applicants:**

Federally recognized Indigenous American Tribes or Alaska Native villages, groups, or communities located in rural areas with a population of 50,000 or less are eligible to apply.



# Department of Transportation (DOT)



## Electric and Low-Emitting Ferry Program:

- Approximately \$220 million in funding available
- Purchase of electric or low-emitting ferries
- The electrification of or other reduction of emissions from existing ferries
- Related charging or other fueling infrastructure to reduce emissions or produce zero onboard emissions under normal operation



# 2023 Alaska Awards



State	Applicant	Project	Award
Alaska	Alaska Department of Transportation & Public Facilities (DOT&PF)	Improve transportation to rural port communities while reducing emissions and improving the sustainability of the Alaska ferry system.	\$46,214,008
Alaska	DOT&PF	Funding to build a new ferry to replace a nearly 60-year-old vessel.	\$68,488,384
Alaska	DOT&PF	Replacement of aging ferry vessels with diesel-electric hybrid vessels and develop the functional design of a new vessel.	\$8,591,616
Alaska	DOT&PF	Operation of the Alaska Marine Highway System, which runs 3,500 miles and serves 35 communities that face low transportation access and high transportation costs.	\$44,823,800

# 2023 Alaska Awards



State	Applicant	Project	Award
Alaska	DOT&PF	Funding to modernize four Alaska Marine Highway System (AMHS) vessels, ensuring reliable service, improving state of good repair, and continuing quality transit services.	\$72,065,545
Alaska	DOT&PF	Funding to upgrade the dock infrastructure in five rural Alaskan communities. The upgrades will allow ferries to continue service to three small, disadvantaged, rural communities and two rural hub communities, including replacing 40-year-old infrastructure at the Auke Bay Ferry Terminal.	\$45,483,214



## **Rebuilding American Infrastructure with Sustainability and Equity (RAISE):**

- \$1.5 billion in competitive grants available in FY23
- Seeks to fund surface transportation infrastructure projects with a significant local or regional impact
- Funds are for capital and planning projects
- The minimum award for urban projects is \$5 million and the minimum award for rural projects is \$1 million
- \$15 million for projects located in historically disadvantaged communities or areas of persistent poverty

# 2022 RAISE Grant Awards



State	Applicant	Project	Award
Alaska	City and Borough of Juneau	Complete design and document development for the Juneau Douglas North Crossing.	\$16,454,000
Alaska	Organized Village of Kake	Complete planning and design activities for roadway improvements between Kake and Petersburg.	\$10,000
Alaska	DOT&PF	Conduct a statewide assessment that aims to remove barriers to equity and reconnect communities.	\$934,867
Alaska	Bristol Bay Native Association	Planning and engineering to connect the communities of Aleknagik, Ekwok, Koliganek, and New Stuyahok.	\$380,000

# Department of Transportation (DOT)



## **Strengthening Mobility and Revolutionizing Transportation (SMART) Grants Program:**

- \$100 million appropriated annually for fiscal years 2022-2026
- Purpose-driven innovation to build data and technology capacity and expertise for State, local, and Tribal governments

Eligible projects must demonstrate at least one of the following: Coordinated automation, connected vehicles, sensors, systems integration, delivery/logistics, innovative aviation, smart grid, or traffic signals



## **Bipartisan Infrastructure Law:**

- Invests \$350 billion in highway programs over 5 years (FY2022– 2026)
- Creates more than a dozen new highway programs
- Creates more opportunities for local governments and other entities



## National Electric Vehicle Infrastructure Formula Program (NEVI):

- 1B annually FY2022 – 2026
- Deploy EV charging infrastructure
- Establish an interconnected network to facilitate data collection, access, and reliability

## Eligible Projects:

- Directly related to the charging of a vehicle
- EV charging infrastructure that is open to the public
- EV charging infrastructure authorized for commercial motor vehicle operators from more than one company



## Discretionary Grant Program for Charging and Fueling Infrastructure (\$7 million)

- \$300M - \$700M FY2022 - 2026
- Competitive grant program
- Infrastructure along corridors
- At least 50 percent of this funding to be used in:
  - Rural Areas
  - Low- and moderate-income neighborhoods
  - Communities with a low ratio of private parking spaces



## Reduction of Truck Emissions at Port Facilities:

The Reduction of Truck Emissions at Port Facilities program is providing funding to reduce truck idling and emissions at ports, including through the advancement of port electrification.

- \$80M available annually from FY 2022 - 2026

## Eligible Activities:

- Equipment and Materials
- Technology Demonstrations and Deployment
- Climate and Sustainability



# Department of Energy (DOE)



## **EPA Clean Ports Program:**

EPA announced a technical Request for Information on zero-emissions heavy-duty vehicles and port equipment to inform the development of the new Clean Heavy-Duty Vehicles and Clean Ports Programs in the Inflation Reduction Act.

EPA specifically requested information on the following technologies:

- Zero-emission class 6 and 7 heavy-duty vehicles.
- Zero-emission port equipment.
- Associated charging and other fueling infrastructure.





# Department of Energy (DOE)



## **Vehicle Technologies Office:**

- Annual solicitation
- DOE seeks to drive innovation in the transportation sector with this funding
- Various areas of interest (AOI) defined in each year's solicitation
- Typically has AOIs that encourage community participation

## **Examples of AOIs from the FY 2023 opportunity include:**

- Hydrogen Combustion Engines
- Reducing Soft Costs of Electric Vehicle Infrastructure to Enable Widespread Deployment



# Environmental Protection Agency



## Clean School Bus Program and Rebate Program:

- \$5 billion over the next five years for competitive grant program (FY 2022-2026)
- \$500 million through the 2022 Clean School Bus Rebates for zero-emission and low-emission school bus rebates as the first funding opportunity
- The rebate program is expected to reopen in 2023
- Both replace existing school buses with zero-emission and low-emission models

Eligible applicants: State and local governments, eligible contractors and nonprofit school transportation associations.



# Environmental Protection Agency



## **The Diesel Emissions Reduction Act (DERA):**

- Alaska's DERA grants are administered by EPA's West Coast Collaborative
- Vehicles that are being replaced have to be scrapped
- Fleet expansion through this funding is not permitted
- Prioritization goes towards projects that help achieve the goals of President Biden's Justice40 initiative



# Transportation Research Board



## **Airport Cooperative Research Program:**

- \$650,000 available for preparing for hydrogen-powered aircraft and other vehicles at airports
- ACRP will be issuing an RFP for this research in the Nov/Dec timeframe

**Objectives:** (1) provide airports with an overview of the market for and trends related to hydrogen-powered aircraft and other vehicles; (2) develop a guide to help airports understand the potential for these activities at their facilities; and (3) identify likely facility, operational, safety, and staffing requirements needed to accommodate the transportation, use, and storage of hydrogen at airports.

# Alaska Energy Authority



## State Energy Program:

- Electric transmission
- Distribution planning
- Planning activities
- Programs that help reduce carbon emissions in all sectors of the economy
- Accelerate the use of alternative transportation fuels and vehicle electrification.



**Eligible projects:** Energy conservation measures, renewable energy measures, and programs to increase deployment of clean energy technologies in buildings, industry, and transportation.

# Alaska Specific Incentives



## **State Incentives:**

- Alaska's National Electric Vehicle Infrastructure (NEVI) Planning
- Idle Reduction Weight Exemption

## **Utility/Private Incentives:**

- Residential Electric Vehicle Charging Station Credit – Chugach Electric Association
- Commercial Electric Vehicle Charging Station Rebates – Chugach Electric Association
- Electric Vehicle Rebate – Alaska Power and Telephone
- Electric Vehicle Charging Station Rebate – Alaska Power and Telephone
- Electric Vehicle Time-of-Use Rate – Alaska Electric Light & Power

# Volkswagen Mitigation Trust



Alaska is a beneficiary of \$8.125 million from the federal Volkswagen (VW) Settlement for VW's installation of illegal software in diesel vehicles designed to cheat emission tests.

The State proposed to allocate the funding in the following ways:

- Electric Vehicle (EV) Charging Infrastructure - 15%
- School Bus Replacement - 60% (closed)
- Public Transit Bus Replacement - 10% (closed)
- Replacement of Diesel Engines Used for Prime Power - 15%

# Thank you.

## Questions?

[morgan@cte.tv](mailto:morgan@cte.tv)

