

ENACTED PROGRAMS CHAMPIONED BY CHAIRMAN MANCHIN TO SUPPORT VEHICLES AND TRANSPORTATION PROJECTS IN WEST VIRGINIA

The Inflation Reduction Act of 2022

» **Funding and Incentives for Domestic Vehicle and Vehicle-Related Manufacturing.**

- **48C Advanced Energy Manufacturing Investment Credit:** Expanded and extended this investment tax credit to retool, expand, or build new facilities that make or recycle energy-related products, including a \$4 billion carve out for use in communities where coal mines have closed or coal power plants have retired.
- **ATVM Loans:** Provided \$3 billion to leverage as much as \$20 billion in direct loans through the Department of Energy's (DOE) Advanced Technology Vehicle Manufacturing (ATVM) Loan Program to build new facilities or retool facilities in the United States for the manufacturing of eligible vehicles or components. This funding can be used to manufacture light-, medium-, and heavy-duty vehicles, locomotives, maritime vessels including offshore wind vessels, aviation, and hyperloop along with their components.
- **Title 17 Loan Guarantees:** Unlocked up to \$40 billion in loan guarantees and provides \$3.6 billion in credit subsidy to support the cost of those loans through DOE's Title 17 Loan Guarantee Program. Through this program, DOE can provide access to debt capital by issuing loan guarantees for projects that use innovative technology and avoid, reduce, utilize, or sequester greenhouse gas or air pollutants. This funding can be used to support eligible mining, extraction, processing, recovery, or recycling of critical materials projects.
- **Domestic Manufacturing Conversion Grants:** Provided \$2 billion grants through the Department of Energy for the domestic production of plug-in hybrids, EVs, hydrogen fuel cell vehicles and other efficient vehicles.
- **45X Advanced Manufacturing Production Credit:** Created a new production tax credit for critical minerals, batteries and battery components to help us onshore this important supply chain. This credit can cover 10% of production cost for critical minerals, 10% of production cost for electrode active materials (cathodes, anodes etc.), \$35 per kwh for battery cell, \$10 per kwh for battery module that uses cells or \$45 per kwh for modules that do not use cells.

» **Securing Clean Vehicle Supply Chains and Expanding the U.S. Clean Vehicle Market.**

- **Clean Vehicle Credit:** Revised Electric Vehicle and Hydrogen Vehicle consumer tax credits to provide a credit for up to \$7,500 credit for a new EV, plug-in hybrid or hydrogen vehicle. The new version institutes income and vehicle price caps and lifts the original manufacturer's cap. Under the new law, a consumer can receive a partial or full credit by purchasing a vehicle that meets certain requirements, including final assembly in North America and related to sourcing and manufacturing of critical minerals and battery components.
- **Previously-Owned Vehicle Credit:** Opened up the clean vehicle market to the average American by creating a new credit of up to \$4,000 for the purchase of a used electric vehicle, plug-in hybrid, or hydrogen fuel cell vehicle.

» **Incentives for Businesses and Cities to Transition to Cleaner Vehicles.**

- Created a new tax credit for the purchase of clean commercial vehicles. The maximum amount is \$7,500 for a vehicle weighing rating less than 14,000 pounds, or \$40,000 otherwise (e.g., school buses, heavy-duty municipal vehicles).
- Extended and expanded an existing tax credit for installing fueling equipment for natural gas, propane, hydrogen, electricity, E85, or diesel fuel blends. The credit is worth up to 30% of the cost of the project but cannot exceed \$100,000 only applies to qualifying property located in low-income or non-urban census tracts, including in WV.
- Provided \$1 billion for a grant and rebate program to support the replacement of existing buses, garbage trucks, and other similarly sized vehicles with zero-emission vehicles, as well as the construction and operation of associated charging or fueling infrastructure.

Infrastructure, Investment, and Jobs Act of 2021

» **Invests in a Domestic Battery and Vehicle Supply Chain.**

- Established a Battery Material Processing, Manufacturing and Recycling Grant Program at DOE which

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appropriates \$3 billion for battery material processing and \$3 billion for the battery manufacturing and recycling. Also creates RD&D program within DOE for battery recycling and second-life applications.

- Appropriated \$750 million program for small- and medium-sized manufacturers to enable them to build new or retrofit existing manufacturing and industrial facilities to produce or recycle advanced energy products, including battery and vehicle components, in communities where coal mines or coal power plants have closed.

» ***Cleaner School Buses.***

- Provided \$5 billion over 5 years for school districts and other eligible school bus operators and contractors to begin replacing school buses with clean, American-made, zero-emission buses.

» ***Builds out a Network of Alternative Refueling Stations.***

- Provided \$5 billion in dedicated funding for EV charging infrastructure. This funding will be provided to states through formula grants. West Virginia is set to receive \$6.8 million per year for 5 years.

- Provides \$2.5 billion in competitive grants for a Charging and Fueling Infrastructure Program through the Department of Transportation (DOT) to strategically deploy publicly accessible electric vehicle charging infrastructure, hydrogen fueling infrastructure, propane fueling infrastructure, and natural gas fueling infrastructure along designated corridors and accessible locations.

CHIPS+ Act of 2022

» ***Invests in Domestic Production of Semiconductors.***

- Appropriated \$52.7 billion for domestic semiconductor research, development, manufacturing, and workforce development. This includes \$39 billion in manufacturing incentives, including \$2 billion for the legacy chips used in automobiles and defense systems.

- Provided a 25% investment tax credit for capital expenses for manufacturing of semiconductors and related equipment.

Energy Act of 2020

» ***Supports Sustainable Transportation R&D.*** Authorized \$2.5 billion for DOE's Sustainable Transportation programs, including vehicles, bioenergy, and hydrogen and fuel cell R&D.