



Infrastructure Investment and Jobs Act: Transportation Electrification Summary

David Terry and Cassie Powers
NASEO
September 17, 2021



+ Infrastructure Investment and Jobs Act



- Passed U.S. Senate in August
- Anticipated to pass the U.S. House and be signed into law this fall
- Funding for energy and transportation infrastructure programs and projects
- Additional funding potentially available through separate reconciliation package
- See NASEO summary for full list of energy-related sections: <https://www.naseo.org/news-article?NewsID=3644>

+ EV and Alternative Fuel Infrastructure

Amount	Program	Notes
\$2.5 billion	Grants for Charging and Fueling Infrastructure	<ul style="list-style-type: none">- Through U.S. DOT- Grants up to \$15 million- 20% cost-share- Half for corridor stations; half for community grants with priority to rural, LMI, and MUD- States, local, public entities eligible
\$5 billion	National EV Formula Program	<ul style="list-style-type: none">- Formula to State DOTs- Focus on Alternative Fuel Corridors. Funds available for community charging after corridors have been built-out

+ EV and Alternative Fuel Infrastructure

Amount	Program	Notes
\$300 million	Joint Office of Energy and Transportation and EV Working Group	<ul style="list-style-type: none">- Office to coordinate TA and programs between agencies- EV Working Group to provide recommendations to the administration. To include a representative from State Energy Offices
\$500 million	SEP	<ul style="list-style-type: none">- SEP Formula funding to State Energy Offices (in addition to FY22 SEP appropriations)- May be used for programs to increase transportation energy efficiency and accelerate use of AFVs

+ Battery and Manufacturing Research, Development, and Demonstration

Amount	Program	Notes
\$6.135 billion	Battery processing and manufacturing	<ul style="list-style-type: none">- Support domestic supply chain of battery production- \$60 million for battery recycling research, development and demonstration programs (states eligible)- \$50 million for state and local programs- 50% cost-share requirement
\$200 million	EV battery recycling/second-life applications program	<ul style="list-style-type: none">- RD&D of second-life applications/technologies, and process for final recycling/disposal- Includes funding for grant program
\$750 million	Advanced Energy Manufacturing and Recycling Grant Program	<ul style="list-style-type: none">- Funding for advanced energy manufacturing facilities, including those that manufacture EVs/EVSE

+ Grid and Electric System Considerations

Amount	Program	Notes
\$3 billion	Deployment of technologies to enhance grid flexibility	<ul style="list-style-type: none">- Funding for enhancing grid flexibility, including V2G
N/A	Demonstration of EV battery second-life applications for grid services	<ul style="list-style-type: none">- Project to demonstrate applications for EV batteries as aggregated energy storage installations
N/A	Data collection on EV integration with electricity grids	<ul style="list-style-type: none">- Led by EIA- Expanding data collection on EVs and the grid
N/A	Considerations of measures to promote greater electrification of the transportation sector	<ul style="list-style-type: none">- State PUCs shall promote transportation electrification through rate design- Goals to promote affordable/equitable charging; improve customer experience; accelerate third party investment; recover marginal costs of electricity delivery

+ Buses and Fleets

Amount	Program	Notes
\$500 million	Grants for EE and RE Improvements at Public School Facilities	<ul style="list-style-type: none">- Schools eligible- AFV infrastructure and vehicles eligible
\$5 billion	Clean School Bus Program	<ul style="list-style-type: none">- \$2.5 billion for ZEV buses- \$2.5 billion for AFV buses
N/A	Carbon Reduction Program	<ul style="list-style-type: none">- Projects to reduce environmental and community impacts of freight movement; support AFV deployment; reduce transportation emissions at ports
\$3.838 billion	Grants for Buses and Bus Facilities - Fleet Transition Plan	<ul style="list-style-type: none">- At least 25% of funds for low- or no-emissions buses- Required applicants to submit zero emission transition plan addressing workforce transition, costs, and other indicators



+ Ports and Ferries

Amount	Program	Notes
\$250 million	Reduction of Truck Emissions at Port Facilities	<ul style="list-style-type: none">- Study port electrification- Study emerging technologies- Fund projects that reduce port related emissions
\$250 million	Electric or Low Emitting Ferry Pilot Program	<ul style="list-style-type: none">- Grants for purchase of electric and alt fuel ferries
\$2.25 billion	Port Infrastructure Development Program	<ul style="list-style-type: none">- Projects that improve resiliency at ports- Includes ZEV infrastructure for drayage; MHD trucks/locomotives that service ports; and related grid upgrades

+ Additional Research and Studies

Amount	Program	Notes
\$400 million	Critical Minerals Mining and Recycling Research	<ul style="list-style-type: none">- Grants for supply chain resiliency basic research- To advance innovative critical minerals mining, recycling, and reclamation strategies and technologies
N/A	Study on Impact of EVs	<ul style="list-style-type: none">- Study to look at cradle-to-grave impacts of EVs
N/A	Study on Impact of Forced Labor in China on EV Supply Chain	

+ Contact Information

*Contact Cassie Powers, NASEO Managing Director of Programs,
with questions:
(cpowers@naseo.org)*

