EDTA
Electric Drive Transportation Association

EDTA INNOVATION AGENDA

E-MOBILIZING AMERICA

Electric mobility is poised to transform the transportation sector. In personal vehicles, trucks and transit, shared rides and equipment, the increasing use of electricity is already providing clean, high-performing, low-cost fuel options.

Electric mobility is also critical for economic and energy security and an essential response to climate change. Displacing oil with electricity in transportation increases our national and global environmental security by reducing carbon and other pollutants.

To lead the transformation and capture these benefits, federal policy can catalyze innovation throughout supply chains and spur public and private investment in next-generation electric drive vehicles and infrastructure.

KEY E-MOBILIZATION POLICIES WILL:

- **Scale** the passenger vehicle market;
- **Accelerate** commercial fleet adoption;
- **Expand** infrastructure to support local, regional and interstate charging and refueling options;
- **Build** the essential connection between the 21st century electricity and transportation sectors, and
- **Advance** next-generation technology and the supply chain through research, development and deployment.

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SCALE THE PASSENGER VEHICLE MARKET

- **Promote investment in advanced transportation** throughout the supply chain with consistent, performance-based incentives for electric drive vehicles and infrastructure.
- **Update the federal Sec. 30(D)** plug-in electric drive vehicle credit to allow it to continue to expand vehicle offerings and diverse market entrants.
- **Extend the Sec. 30(B) consumer credit** for fuel cell vehicles for a period comparable to plug-in vehicles.
- **Reinstate incentives** for increasing the residential and commercial scale alternative fuel vehicle infrastructure that will **power the next-generation** transportation sector.
- **Provide a multi-year extension** of the Sec. 30(C) credit for alternative fuel infrastructure.
- **Maintain regulatory incentives** for electric vehicles in fuel economy and greenhouse gas standards to promote investment in advanced technologies that can provide the highest efficiency and emissions reductions benefits:
  - **Continue zero-emission treatment for BEVs and FCEVs;**
  - **Maintain compliance multipliers for these vehicles in any revision to the regulatory framework.**
- **Recognize the benefits of EVs** and efficiency in any updated infrastructure funding mechanisms, including the Highway Trust Fund.
- Update federal authority to **recognize technology advances and support access to High-Occupancy Vehicle lanes for electric drive vehicles**. Public-private partnerships should maintain HOT/HOV treatment for advanced technology vehicles.

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ACCELERATE COMMERCIAL FLEET ADOPTION

- **Expand the fuel diversity** of the commercial fleet with restored incentives for medium- and heavy-duty electric drive vehicles; ensure incentives recognize next-generation costs and technologies for alternative fuel trucks and buses, including medium- and heavy-duty hybrid, plug-in and fuel cell vehicles.

- **Provide resources for state rebate funds** for purchases of electric drive trucks in federal transportation programs.

- **Expand Department of Transportation programs** that support electric transit, including full funding for the Federal Transit Administration's Public Transportation Innovation program, which advances **innovative public transportation projects** through research, development, demonstration and deployment, and evaluation of technologies of national significance to public transportation.

- **Grow the U.S. manufacturing base** by reinvigorating the Advanced Technology Vehicles Manufacturing (ATVM) program with expanded eligibility for medium- and heavy-duty vehicle and component manufacturing facilities.

- **Lead the world in advanced transportation**. Reduce oil use and operating expenses in federal fleets with electric drive light-, medium- and heavy-duty vehicles while growing American competitiveness in the global energy technology race; facilitate the adoption of electric drive vehicles, and charging and refueling infrastructure, in state, local, utility and private fleets. Support innovative uses of electric transit and vehicle sharing:
  - **Update federal fleet requirements and expand incentives for fleet turnover;**
  - **Provide additional federal funding support for infrastructure projects and expand collaborations with non-federal infrastructure projects;**
  - **Establish and expand fleet manager education and training initiatives; and**
  - **Support education and assistance for installation of workplace infrastructure by private employers.**

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EXPAND INFRASTRUCTURE TO SUPPORT LOCAL, REGIONAL AND INTERSTATE CHARGING AND REFUELING OPTIONS

- **Establish a national infrastructure bank**, public-private partnerships or federal mechanism to support expansion of electric vehicle infrastructure, including DC fast charging, and networks in diverse areas, including those that support seaports, inland ports and freight movement; include charging and refueling infrastructure grants for capital and operating expenditures.
- Expand the Department of Transportation's Low/No Emissions program to **accelerate new technology adoption** in the truck fleet.
- Work with infrastructure stakeholder groups, including truck stop operators, to **advance alternative fuel corridor** nominations and expand corridors overall.
- **Provide a funding mechanism** to expand the Department of Transportation's Alternative Fuel Corridors program.
- Increase funding for the Department of Energy's **Clean Cities program**.
- Expand funding for the **Congestion Mitigation and Air Quality Improvement** (CMAQ) program.
- **Provide federal support** for local, state and regional infrastructure planning collaborations.
- Support state and local efforts to build out infrastructure, in both commuter and transportation corridors, to **serve an increasingly electrified, automated, and connected transportation sector**. Ensure that urban, commuter and long-distance needs are considered.
- **Allow greater access to federal lands**, such as national parks, for charging and refueling infrastructure.

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BUILD THE ESSENTIAL CONNECTION BETWEEN THE 21ST CENTURY ELECTRICITY AND TRANSPORTATION SECTORS

- **To promote grid enhancement**, including security, demand response and energy storage capabilities, fund vehicle grid integration, vehicle-to-grid, secondary-use batteries and hydrogen storage demonstrations with private partners.
- **Increase collaboration** among stakeholders, including electric utilities, hydrogen producers and distributors, vehicle manufacturers, charging infrastructure providers and communities, to expand charging and hydrogen fueling infrastructure at the state and local levels.
- **Reduce regulatory and policy obstacles** to build the connection: Advance policies to accelerate investment in electric drive and hydrogen infrastructure to support light-, medium- and heavy-duty vehicles.
- **Promote a robust infrastructure market** for vehicle manufacturers, utilities, equipment service providers and support industries that ensure a consistent user experience, customer choice, and innovation.
- Work with the EPA's ENERGY STAR program to **identify effective timing and scope of action** on energy efficiency standards for DC fast charging equipment.
- **Coordinate with building codes** and LEED stakeholders to expand recognition of the benefits of electric drive infrastructure and promote its installation in new and existing buildings.
- **Encourage connection standardization**: Work with private standard setting organizations, such as the Society of Automotive Engineers (SAE), Institute of Electrical and Electronics Engineers (IEEE) and National Electrical Manufacturers Association (NEMA), to facilitate increased standardization, while preserving rights of innovation and competition in infrastructure development.

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ADVANCE NEXT-GENERATION TECHNOLOGY AND THE SUPPLY CHAIN THROUGH RESEARCH, DEVELOPMENT AND DEPLOYMENT

- **Pave the innovation path** by increasing federal agency research on electrification (via battery and fuel cell), automation, and connectivity technologies and deployment strategies.
- **Fund robust Department of Energy, Department of Defense** and other agency research and development of battery, fuel cell and hybrid technologies.
- **Increase emphasis** on multi-level demonstration and deployment efforts of light-, medium, heavy-duty and non-road vehicles, and secondary-use batteries.
- Expand ARPA-E and other public-private partnerships to develop pre-commercial breakthroughs and **grow the U.S. lead in the global advanced transportation technology race.**

These policies will bolster U.S. leadership in the global race for electric mobility technology, grow jobs and increase economic resilience through fuel diversity, while reducing carbon emissions.

ABOUT

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MISSION

The Electric Drive Transportation Association (EDTA) is the trade association promoting battery, hybrid, plug-in hybrid and fuel cell electric drive technologies and infrastructure. EDTA conducts public policy advocacy, education, industry networking, and conferences. EDTA's membership includes the entire electric drive value chain including vehicle, battery and component manufacturers; electricity providers; smart grid and infrastructure developers. Collectively, our members are developing and deploying the technologies that will advance the electrification of transportation.

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