

# OVERVIEW: AN ACTION PLAN FOR MEDIUM- AND HEAVY- DUTY VEHICLE ENERGY AND EMISSIONS INNOVATION



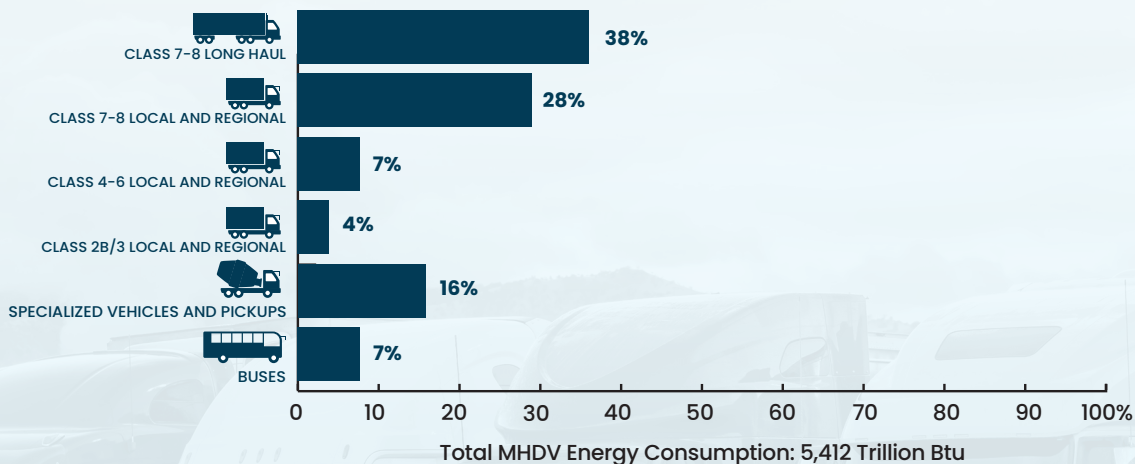
The Medium- and Heavy-Duty Vehicle (MHDV) Action Plan builds on the U.S. National Blueprint for Transportation Decarbonization to define actions that demonstrate and scale solutions to reduce costs, increase choice for fleets and businesses, and achieve substantial emissions reductions in the MHDV sector in the United States.



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## ENERGY CONSUMPTION BY U.S. ON-ROAD COMMERCIAL MHDVs (CLASS 2B-8)

Long-Haul Class 7 and 8 trucks, because of their heavy weight and intensive utilization, represent 39% of energy consumption in the MHDV sector. Combustion of fuels from the MHDV sector contribute to harmful air pollution that can lead to heart disease, asthma, and premature death.



## KEY ACTIONS



Implement the **Global Memorandum of Understanding** on Zero-Emission Medium- and Heavy-Duty Vehicles supporting industry's transition to increase the use of zero-emission vehicles.



Advance innovative approaches to **achieve cost parity** between electric and hydrogen long-haul heavy-duty trucks and existing internal combustion engine long-haul trucks by 2030.



Implement the all-of-government **National Zero-Emission Freight Corridor Strategy** to quickly deploy reliable, affordable MHDV charging and fueling infrastructure.

# Near-Term Actions for Achieving Substantial Emissions Reductions for the MHDV Sector by 2050

## Deploy Fueling Infrastructure

- Invest in the strategic deployment of the National Zero-Emission Freight Corridor Strategy, including a phased and coordinated deployment of high-speed charging/zero-emission refueling infrastructure within key freight hubs and along corridors.
- Scale production of hydrogen as a transportation fuel through the U.S. Department of Energy Regional Clean Hydrogen Hubs Program and the National Clean Hydrogen Strategy.

## Conduct Stakeholder Engagement and Build Partnerships

- Host net-zero-emission MHDV charging and refueling infrastructure stakeholder workshop(s) to coordinate local, state, regional, and federal actions to streamline the charging and refueling infrastructure deployment process.

## Support Research, Development, Demonstration, and Deployment (RDD&D)

- Continue to expand RDD&D activities for net-zero-emission vehicles and component technologies to enable lowered costs, improved performance, and expanded zero-emission vehicle model offerings.
- Designate a National Multimodal Freight Network.

## Supporting U.S. Workers and Communities



**MHDVs and related industries employ more than 8 million Americans**

**Action:** Support and encourage on-the-job training, reskilling, and apprenticeships to retain essential workers and educate the next generation of workers.



**More than 72 million Americans live along major roadways**

**Action:** Collaborate with communities, industry, utilities, and local government on MHDV planning, investments, and deployment of net-zero-emission MHDVs and infrastructure.

The MHDV Action Plan is part of a set of action plans that implement the U.S. National Blueprint for Transportation Decarbonization to realize a clean, safe, accessible, and affordable transportation system. Scan the QR code to learn about the other action plans.



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