



# Maryland Department of Transportation Climate Programs & Priorities

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Just Transition Working Group  
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# Presentation Outline

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- Overview of MDOT's 2023 climate action priorities
- Overview of the Clean Corridor Coalition
- Summary of MDOT's workforce-specific programs

# Maryland Department of Transportation

## Mission Statement

The Maryland Department of Transportation is a customer-driven leader that delivers safe, sustainable, intelligent, exceptional, and inclusive transportation solutions in order to connect our customers to life's opportunities.



## Office of Climate Change Resilience and Adaptation



ASSISTS WITH MDOT-WIDE  
CLIMATE RESILIENCY  
PLANNING



DEVELOPS STRATEGIC  
PARTNERSHIPS



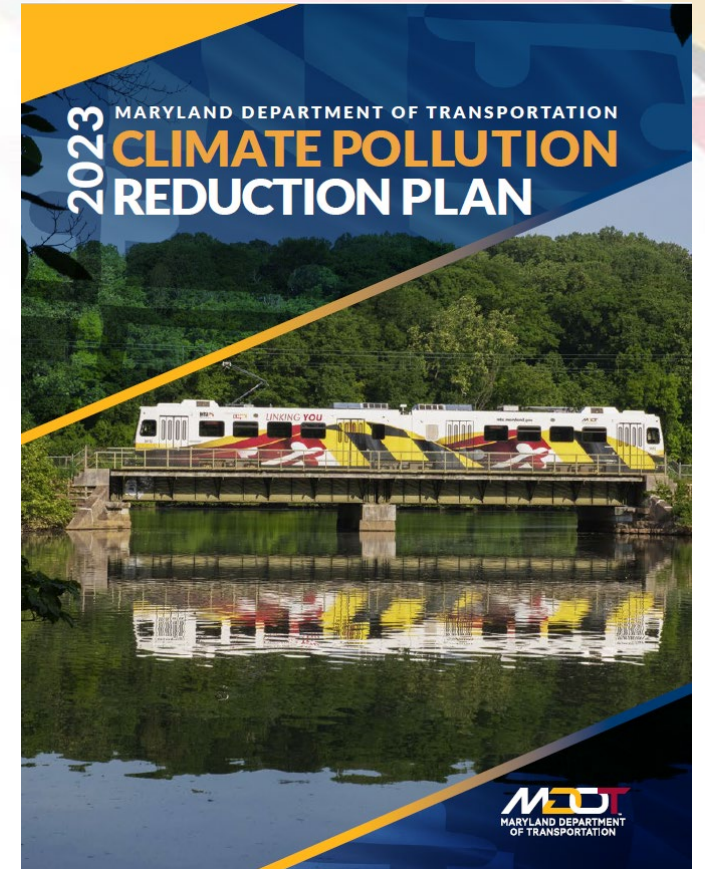
SUPPORTS INNOVATION  
THROUGH ACTION

# MDOT's GHG Planning



# CPRP Background and Purpose

- Maryland's Climate Pollution Reduction Plan (CPRP)
  - **Includes policies** to reduce greenhouse gas (GHG) emissions 60% by 2031
  - **Top-down approach** to achieving economy-wide reductions across all sectors
- MDOT Climate Pollution Reduction Plan
  - **Complementary** sector-specific plan
  - **Bottom-up approach** to develop **sector-specific strategies**
  - **Blueprint** for reducing transportation sector GHG emissions
- Transportation emissions already **reduced by 15%** (from 30.7% in 2006 to 26.2% in 2022)



# Types of Strategies Considered



## VMT Reduction:

Reducing trips by carbon intensive modes of transportation, such as driving alone, by providing alternatives to single occupancy vehicles.

18\* VMT Reduction Strategies



## Transportation Technology:

Lowering the consumption of fossil fuel per mile traveled by promoting vehicle and alternative fuel technologies.

15 Technology Strategies



## Congestion Mitigation:

Reducing congested and unreliable travel leading to more efficient travel with lower emissions.

7 Congestion Strategies

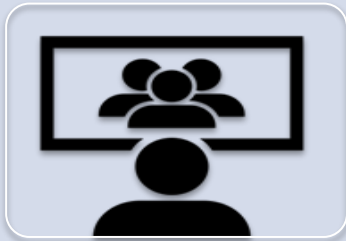


## Sustainable Design, Materials and Practices:

Advancing clean energy, the use of sustainable construction materials and ensuring that the transportation system is resilient.

# VMT Reduction

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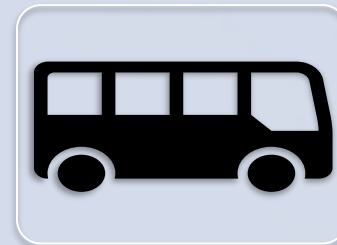
## **Avoid - Trip reduction**

- Transportation demand management, parking pricing initiatives, and telework



## **Avoid - Trip consolidation**

- Carpooling, vanpooling, trip chaining, freight consolidation.



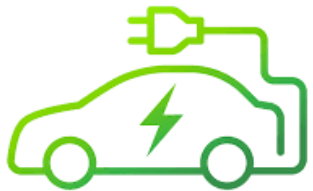
## **Shift - Mode shift**

- Transit (bus, rail, and intercity transit), bicycle and pedestrian infrastructure, freight rail

# Transportation Technology

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- Maryland has a **3-pronged approach** to electrification: **Infrastructure Deployment (NEVI), Advanced Clean Cars II, and Incentives for EV / EVSE**



Zero-emission light  
duty vehicles



Zero-emission  
transit buses



Zero-emission  
school buses



Zero-emission  
trucks



# Other Strategies

- Remaining **19% of reductions** are from other strategies
  - Congestion mitigation
  - System efficiency, and
  - Other technology impacts
- Congestion Reduction has **positive air quality and health impacts**



## Example Strategies

Coordinated Highways Action Response Team (CHART)

Transit Oriented Development (TOD)

Transportation Systems Management and Operations (TSMO)

Connected and Automated Vehicle (CAV) technology

# Resilience and Adaptation

## Transportation Resilience Improvement Plan

- This plan guides strategic investments in critical infrastructure, to proactively identify and address actions, and better aligning adaptation and mitigation efforts into the broader MDOT climate objectives.

The **Resiliency Task Force** works collaboratively across the MDOT enterprise to move MDOT's system forward on four key strategies:

1. Identifying efficiencies and interdependencies
2. Documenting asset vulnerabilities and resource gaps
3. Recommending resilience improvement strategies and
4. Facilitating increased collaboration across the enterprise



# Clean Corridor Coalition

- Coalition made up of New Jersey (lead), Connecticut, Delaware and Maryland.
- C3 will initiate strategic planning and accelerate transformative investments in zero-emission medium- and heavy-duty vehicle (ZE-MHDV) charging infrastructure along the I-95 corridor and adjacent roadways from Connecticut to Maryland.
- This corridor contains large population centers, major ports and freight facilities, and was identified as a 'Phase 1' priority in the federal government [National Zero-Emission Freight \(ZEF\) Corridor Strategy](#)
- C3 is in its infancy, with the proposal receiving confirmation of funding during the summer of 2024, deployment of initiatives is expected in 2026 – 2029.

**CLEAN CORRIDOR COALITION (C3)**

A PROPOSAL FOR ZE-MHDV INFRASTRUCTURE ALONG THE I-95 CORRIDOR

SUBMITTED TO  
ENVIRONMENTAL PROTECTION AGENCY

Maryland  
Department of the Environment

MDOT  
MARYLAND DEPARTMENT OF TRANSPORTATION

SUBMITTED BY  
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION:  
401 EAST STATE STREET  
TRENTON, NEW JERSEY 08625

CONNECTICUT DEPARTMENT OF ENVIRONMENT & ENERGY

APRIL 1, 2024

# Clean Corridor Coalition: Workforce Development Summary

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- The proposal contained a workforce development component, including training and support services for workers. The timeline roll-out is expected to occur between 2026 to 2029.
- Across the Coalition, 400 new workers are expected to be trained in construction + maintenance of MDHV infrastructure with a specific focus on low-income and disadvantaged communities (LIDAC). Wraparound services will be provided, including transportation, childcare, housing, food, technology, and stipends.
- The Coalition will build upon already existing workforce development programs
  - Maryland Minority Business Enterprise
  - Maryland Equitable Charging Infrastructure Partnership
  - MDOT and MDL are in collaboration with nonprofits in Baltimore to train young people in EV + EV infrastructure.

# Workforce Development

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- MDOT serves as the [official certification agency](#) for the Minority Business Enterprise (MBE) Program.
- [Maryland Equitable Charging Infrastructure Partnership](#) - led by Maryland Clean Energy Center, this will provide training and financing to underrepresented groups, leading to 600 EV Infrastructure Training Programs (EVITP) certified electricians through IBEW programs (Sept. 12, 2024)
- MDOT and MDL in partnership – MDOT is committed to continuing the partnership with MDL to implement existing and deploy novel approaches to workforce development
- [VetsFleet](#) is an innovative initiative dedicated to empowering veterans with cutting-edge skills for green energy era. MDOT is in early discussions with VetsFleet to target veterans in training programs



# MARYLAND DEPARTMENT OF TRANSPORTATION

**Follow up questions should be directed to:**

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