Mitigation Working Group Discussion

Electric Vehicle Purchasing Incentives

January 18, 2022
Must Go Beyond the 2030 GGRA Plan to Achieve Net-Zero

The 2030 GGRA Plan does not yet achieve the MCCC recommended target of net-zero emissions by 2045.

Additional GHG mitigation measures must be identified and implemented.
Transportation is the Largest Source of Emissions

40% of Maryland’s GHG emissions are from transportation

70% of transportation emissions are from passenger vehicles (cars, SUVs, pickups, etc.)

Emissions from passenger vehicles are twice as large as the next largest source

Source: Maryland’s 2030 GGRA Plan, 2017 Gross GHG Emissions by Sector
Decarbonizing Transportation is a Long-Term Challenge

Transportation will likely continue to be the largest source of emissions for the next 25+ years.

2030 GGRA Plan measures would decrease transportation emissions 25% by 2030 and 60% by 2045.

Additional measures will be needed.
GGRA Plan: Reduce Vehicle Miles Traveled (VMT)

“The 2030 GGRA Plan will reduce VMT by continuing and expanding investments in public transit systems… and bike and pedestrian infrastructure, while achieving the Smart Growth program’s compact development goal.”

Source: Maryland’s 2030 GGRA Plan, Miles Traveled on Maryland roads (labels added)
GGRA Plan: Transition to Electric Vehicles (EVs)

GGRA Plan Goals:
- Medium and Heavy Duty Vehicles: 30% EV by 2030, 100% EV by 2050 (sales target)
- Passenger Vehicles:
  Sales
    ~30% EV sales by 2025
    ~60% EV sales by 2030
  Stocks
    300,000 registered EVs by 2025
    600,000 registered EVs by 2030

Source: Maryland’s 2030 GGRA Plan, Vehicle Stocks
Currently Off-Track for Achieving the EV Goal

38,445 EVs registered as of September 30, 2021
182,874 tons of CO₂ emissions reduced annually

2025 EV Goal: 300,000 Registered EVs
Potential annual CO₂ reduction of 690,000 metric tons

2030 EV Goal: 600,000 Registered EVs
Potential annual CO₂ reduction of 1.61M metric tons

FY 2022 numbers are as of September 30, 2021. FY 2022 closes June 30, 2022.

Source: Maryland ZEEVIC Annual Report 2021
How are Other States Incentivizing EV Purchasing?

Guest Speaker:
Anne Blair, Senior EV Policy Manager
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