

# Effectiveness of Transportation Investments in Reducing Green House Gas Emissions

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# Key Transportation Indicators for Reducing Greenhouse Gas Emmission

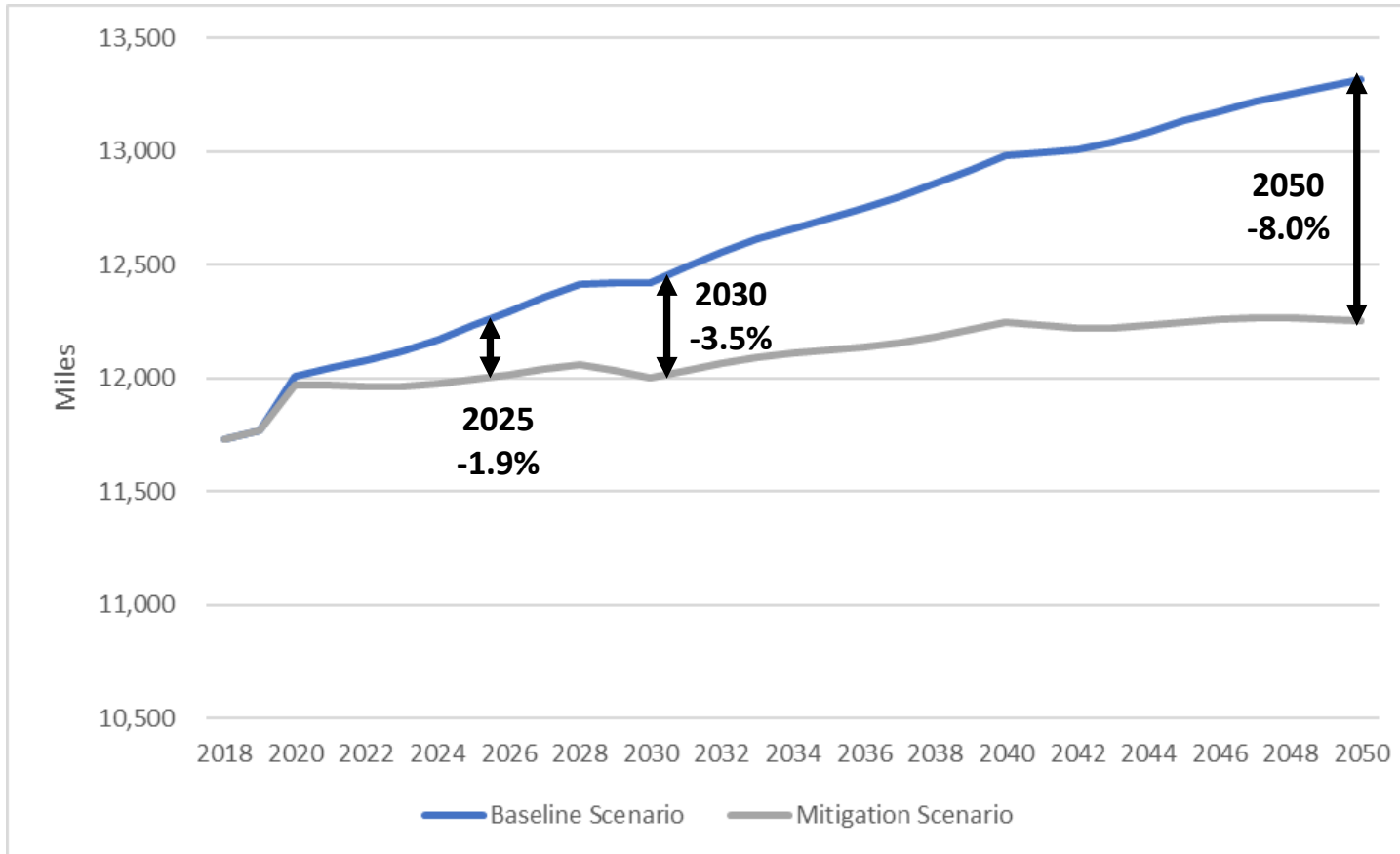
Measures	2025	2030	2050
Number of EVs	27,000	126,000	643,500
EV Share of Sales	17%	68%	100%
VMT Reduction from Baseline – Transportation System Strategies	1.9%	3.5%	8%
EV share of VMTs	5%	23%	93%
EV Managed Charging	27%	50%	TBD

## **VT Pathways Analysis Report 2.0, February 11, 2022**

Prepared for VT Agency of Transportation by the CADMUS Group and  
Energy Future Group

# Strategies to Reduce Vehicle Miles Travelled

- Changing travel Mode
- Reducing Trip Length
- Eliminating Trips



Vehicle Miles Traveled per Capita in Baseline and Mitigation Scenarios (VT Pathways Report, Figure 29)

# Ability to Forecast GHG Reduction

Strategy	Type	Confidence in Current GHG Reduction Forecasts	Comments
Current EV Incentive Program	Alternative Fuel	Medium	Based on incentives available and experience
Optimize EV Incentive Programs	Alternative Fuel	Medium	Analysis expected from EV Incentive Program Administrator
EV Charging Station Deployment	Alternative Fuel	Low	Difficult to quantify relationship to EV purchase decision
Enhance or Expand Transit	Mode Change	Medium	Ridership estimates routinely provided for new services
Increase Rail Capacity	Mode Change	Medium	Passenger and freight forecasts routinely provided for rail projects
Employer Based TDM	Mode Change, Trip Elimination	Low	Difficult to predict multiple incentive programs and employer and employee participation
Walking and Biking Infrastructure	Mode Change	Low	Difficult to predict use of specific facilities
Smart Growth	Mode Change, Trip Length	Low	Currently lack VT specific data. Starting study.
Telework	Trip Elimination	Medium	Recent surveys can inform forecasts