

Electric Vehicle Plan Update & Transportation Sector Greenhouse Gas Emissions Impacts

House Transportation, Housing and Local Government Committee

March 11, 2026

Mike Salisbury, Director of Transportation Programs, Colorado Energy Office

Stephanie Shoup, Deputy Director, Regulatory Affairs, Air Pollution Control Division



COLORADO
Department of Public
Health & Environment



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Energy Office

Colorado EV Plan Background

- In 2018, Colorado released its first electric vehicle (EV) plan setting forth goals, actions and strategies to develop EV fast-charging corridors across the state and establishing a target of 940,000 EVs on the road by 2030.
- In 2020, Colorado updated and released the Colorado Electric Vehicle Plan 2020, which added new goals and actions.
- In 2023, Colorado released the 3rd iteration of the EV Plan, builds on the goals and actions of the 2018 and 2020 Plans.



March 2023



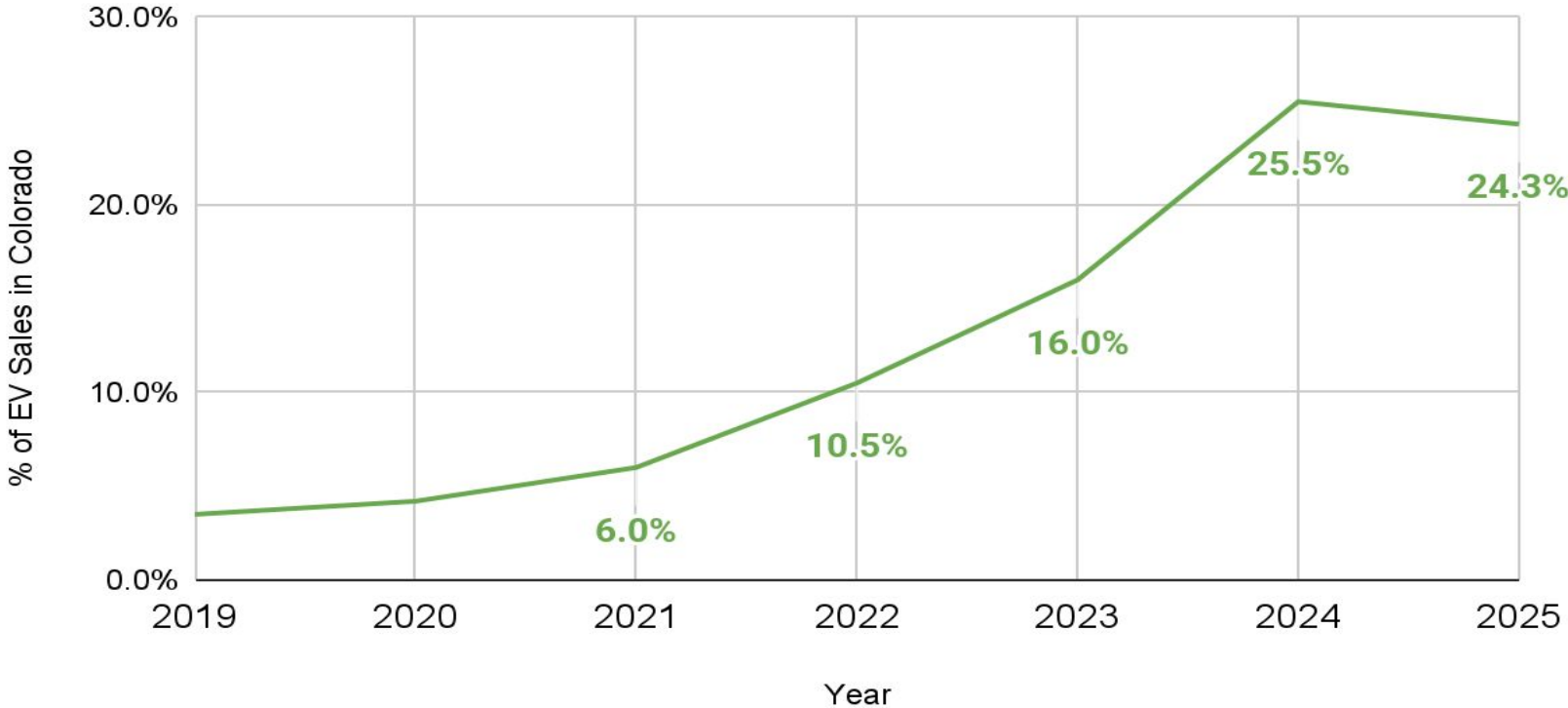
EV Plan EV Adoption Goals

- Increase adoption of EVs in the light-duty sector to approximately 940,000 vehicles by 2030, 2.1 million by 2035 and pave the way for reaching nearly 100% EVs by 2050.
- Increase the number of annual light-duty EV sales to 65,000 by 2025, which is over 25% of new vehicle sales
- Increase EV sales to at least 70% of new vehicle sales by 2030

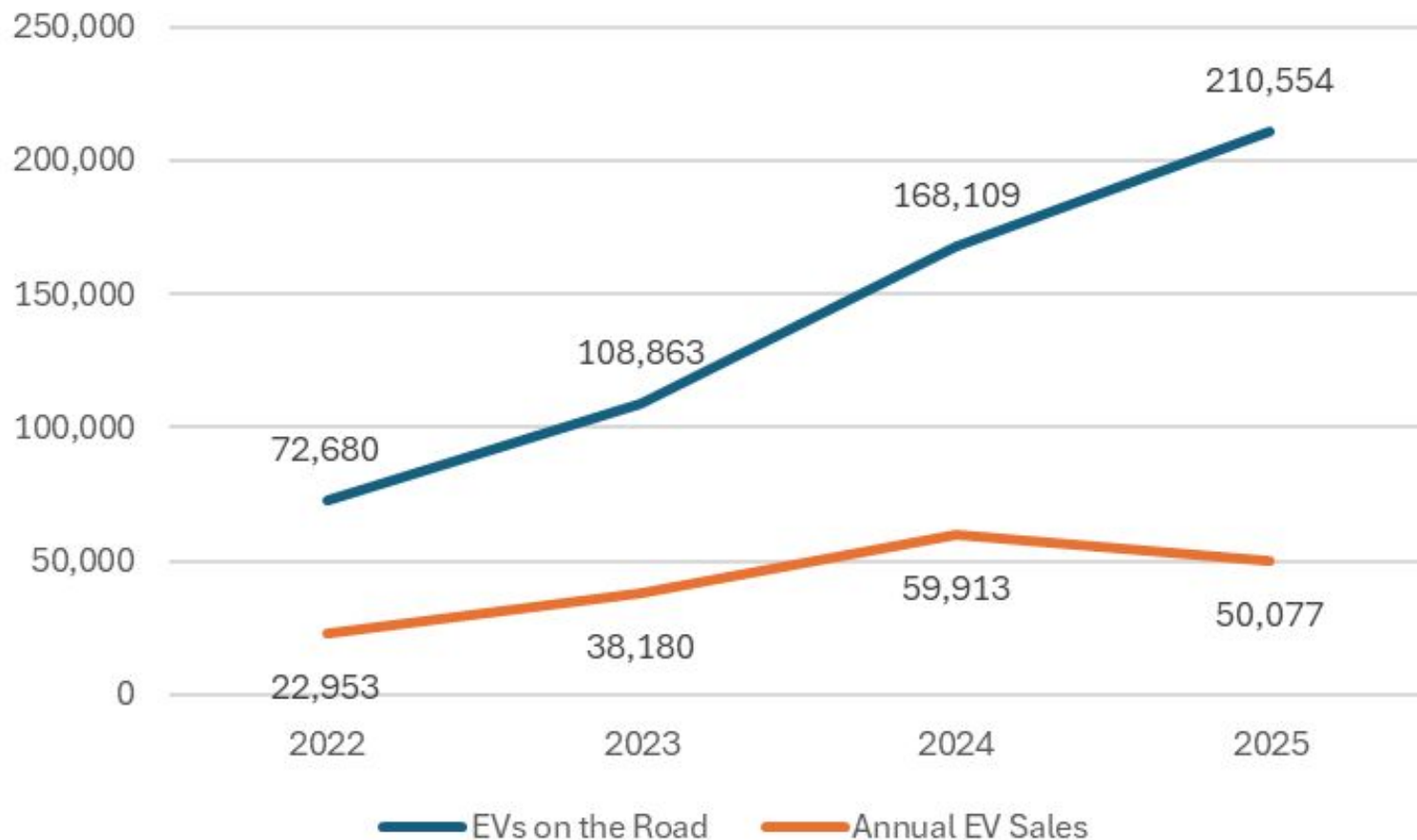


EV Market Snapshot

Percent EV of Colorado New Vehicle Sales, 2019-2025 (CADA)



Cumulative EVs on the Road and Annual EV Sales



EV Plan EV Charging Stations Goals

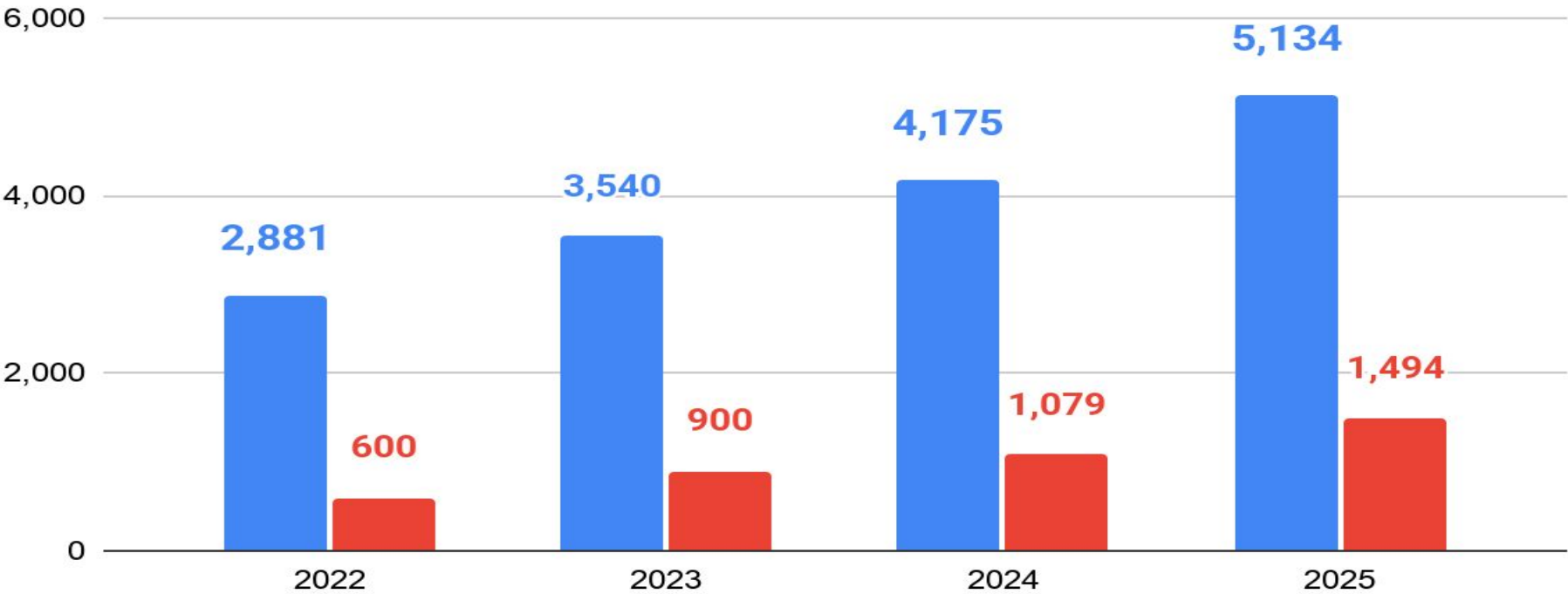
- Increase the number of charging ports awarded or installed to 1,700 DCFC and 5,800 public Level 2 by 2025, including awarding grants for at least 1,000 ports each year through 2025
- Complete the implementation of the state's National Electric Vehicle Infrastructure (NEVI) plan, fully expending Colorado's \$56.5 million allocation to construct DC fast-charging sites along federally designated EV corridors
- Increase the number of Colorado Scenic & Historic Byways classified as electrified byways from three in Fiscal Year 2020 to 23 by the end of Fiscal Year 2025 (20 Electrified)



Charging Stations in Colorado

Cumulative EV Charging Ports in Colorado

Level 2 Ports DC Fast Charging Ports



National Electric Vehicle Infrastructure Program

- Spent much of 2025 in litigation with the Federal government, now have access to our entire \$56.5 million allocation
- Awarded 42 sites for \$22 million
- 8 NEVI sites open at end of FY25



Medium and Heavy Duty Vehicles

- **EV Plan Goal:** Increase adoption of medium- and heavy-duty (M/HD) zero emission vehicles (ZEVs) to at least 30% of new sales by 2030, 35,000 on the road by 2030 and 100% of new sales by 2050. (From Clean Truck Strategy).
 - 8,000+ M/HD BEVs
 - State grants have funded over 140 M/HD BEVs
- **1,000 ZEV Transit vehicles by 2030**
 - 95 in service, 47 on order
- **2,000 electric school buses by 2027**
 - 70+ in service mostly funded through the state grant program
 - The state grant program ended and was reconstituted in the Clean Fleet Enterprise (CFE) where electric school buses are now eligible
 - In the first CFE round 4 entities requested 10 electric buses



EV Plan Goals for Electric Mobility

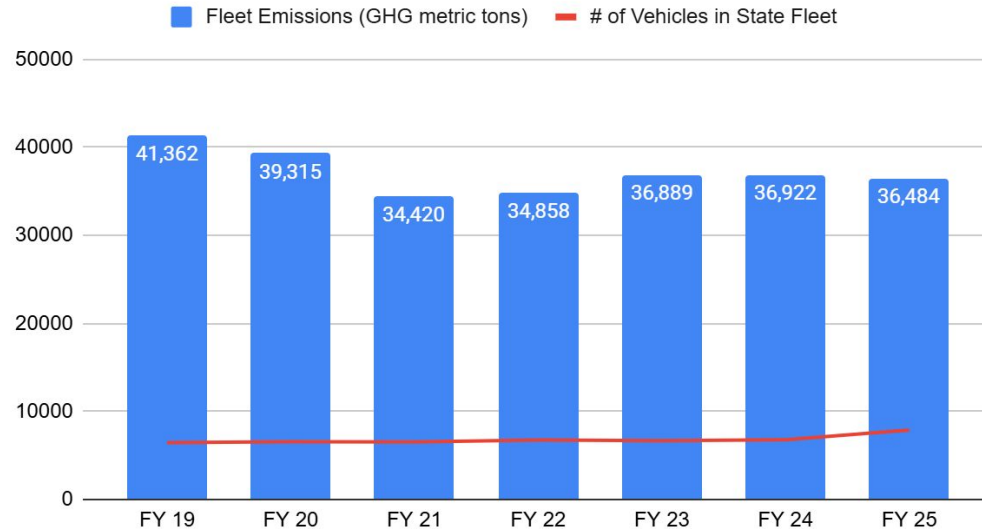
- Replace car trips with electric mobility options
 - Increase access to e-bikes to low- and moderate -income Coloradans by providing grants, rebates, and tax credits for at least 10,000 new e-bikes by 2025.
 - 7,966 e-bikes purchased via e-bike rebate; 15,600 purchased via e-bike tax credit in FY25
- Community Accelerated Mobility Program
 - 8 Technical Readiness grants implemented; 3 Implementation grants being deployed



EV Plan Goals: Electrification of the State Fleet

- Reduce GHG emissions by 32% in the State fleet by FY 2034 over the FY 2019 baseline
- Increase the number of electric vehicles in the State fleet to 1,250 by 2027.
 - 866 EVs in the State fleet by December 2025
 - 331 charging ports installed to support state fleets via SB21-230

State Fleet Emissions (GHG)



State Fleet vehicle count does not include vehicles excluded from the Greening Government EO (snow plows, State patrol cars, etc.)



EV Plan Equity Goal

At least 40% of funding for transportation electrification programs is invested in grants and rebates for disproportionately impacted communities and low- and moderate- income Coloradans.”

- Equity Focused Funding Allocation through the end of FY25:
 - CEO/Community Access Enterprise: 64%
 - CDOT/Clean Transit Enterprise: 54%
 - CDPHE/Clean Fleet Enterprise: 82%



Colorado's GHG Emissions Inventory

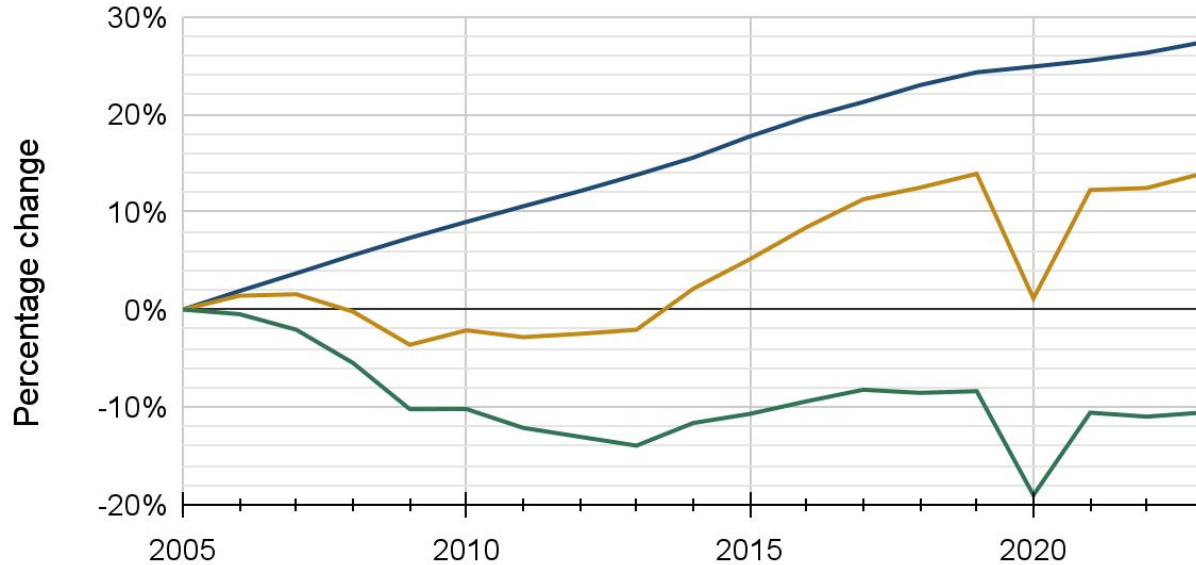
- CDPHE's Air Pollution Control Division publishes an updated statewide GHG inventory report every two years.
- Covers emissions within Colorado from 2005 and projects future emissions under different policy scenarios.
- The 2025 GHG Inventory Report (through 2023 emissions year) summary, brief overview, and full data set are available. Full report coming soon.



Transportation Sector Factors

Colorado changes since 2005

Population VMT VMT per Capita



2023 and changes since 2005

Vehicle Miles Travelled (VMT)

54.662 billion mi. per year
+6.700 billion mi. per year (+14%)

Population

5.901 million
+1.3 mil people (+27%)

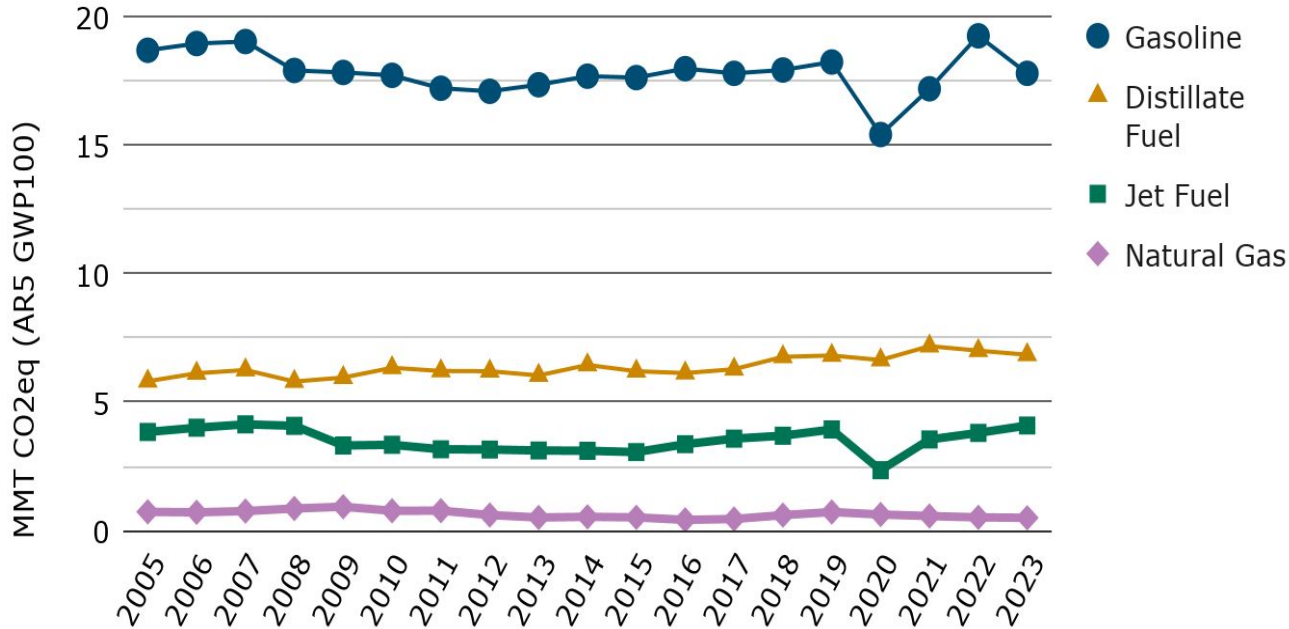
VMT per Capita

9,263 miles per capita
-1,092 miles per capita (-11%)



Transportation Sector Emissions

Historical Transportation Emissions by Fuel



Changes Since 2005

Total

+0.14 MMT CO₂eq (+0.5%)

Gasoline

-0.9 MMT CO₂eq (4.8%)

Diesel/Distillate Fuel

+1.0 MMT CO₂eq (+18%)

Jet Fuel

+0.25 MMT CO₂eq (+7%)

Natural Gas

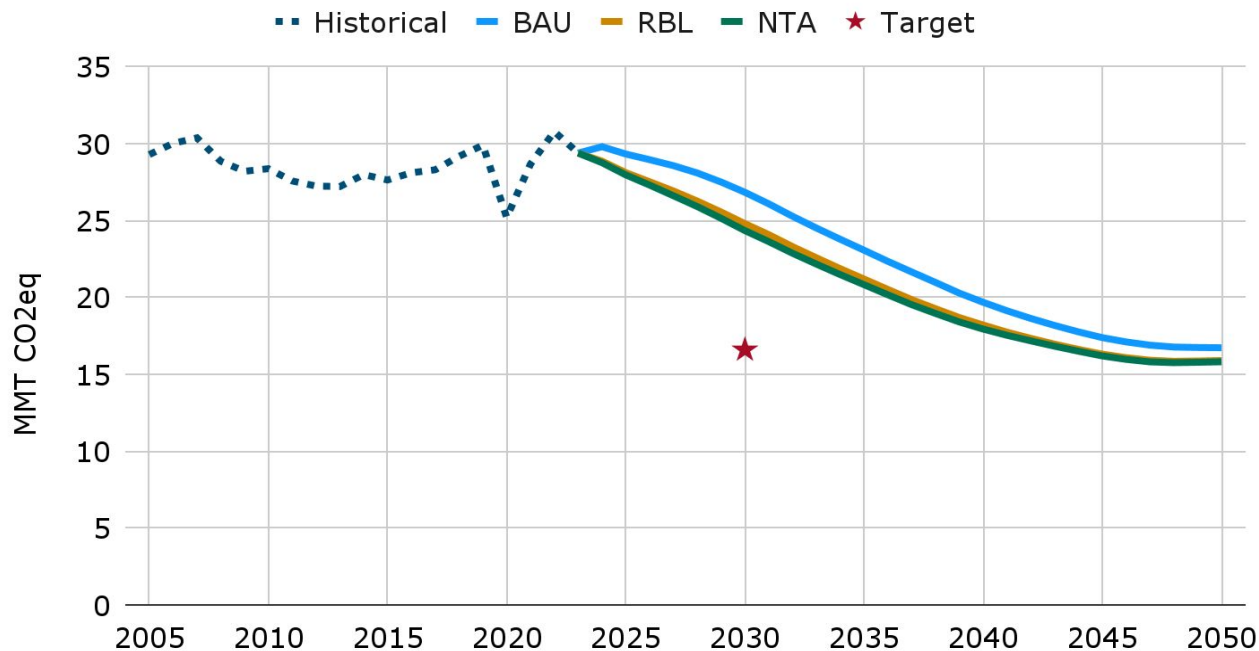
-0.23 MMT CO₂eq (-32%)

Emissions exclude transportation-related emissions from non-energy fossil fuel use. Aviation gasoline, HGL, and alternative fuels each emitted under 0.05 MMT CO₂eq annually. MMT CO₂eq (AR5 GWP100) is million metric tons carbon dioxide equivalent using 100-year global warming potentials from the IPCC's Fifth Assessment Report.



Transportation Sector Emissions

Transportation Historical and Projected Emissions



BAU, RBL, and NTA are projection scenarios from Roadmap 2.0. BAU = Business As Usual, RBL = Roadmap Baseline, NTA = Near-Term Actions. Target is 12.7 MMT CO₂eq reduction below 2005 levels (Roadmap 1.0 Near-Term Actions target). Does not include additional rules in development or proposed near-term actions.

Changes Since 2005

2020

-4.1 MMT CO₂eq (-14%)

2023

-0.09 MMT CO₂eq (-0.3%)

2025*

-1.3 MMT CO₂eq (-4.5%)

2030*

-4.9 MMT CO₂eq (-17%)

*Near-Term Actions Scenario

Emissions here include transportation-related emissions from non-energy use of fossil fuels.



An electric vehicle charging station stands on a concrete pad in a desert landscape. The station is white with a black charging port and a coiled black cable. It has an orange and white sign on top that reads "EV". The background features a large, layered rock formation on the left, a gravelly foreground, and a range of snow-capped mountains under a blue sky with scattered clouds.

Thank You!
Questions?