



COLORADO
Department of Transportation

Colorado Transit Zero-Emission Vehicle Roadmap





CDOT's EV Goals

PD 14 Environmental Impact Objectives & Targets

CDOT will work collaboratively with other state agencies and local partners to **reduce statewide GHG pollution** from the transportation sector by 26% by 2025, 50% by 2030, 90% by 2050 relative to 2005 statewide GHG pollution levels.

Collaborate with other state agencies to **increase electric vehicle registrations** to support a future fleet of at least 940,000 light-duty EVs by 2030.

Work with other state departments, transit agencies, and electric utilities to meet the transit vehicle goals specified in its 2020 Electric Vehicle Plan to **convert the state transit fleet to 100% ZEV** by 2050, with an interim target of at least 1,000 ZEVs by 2030.

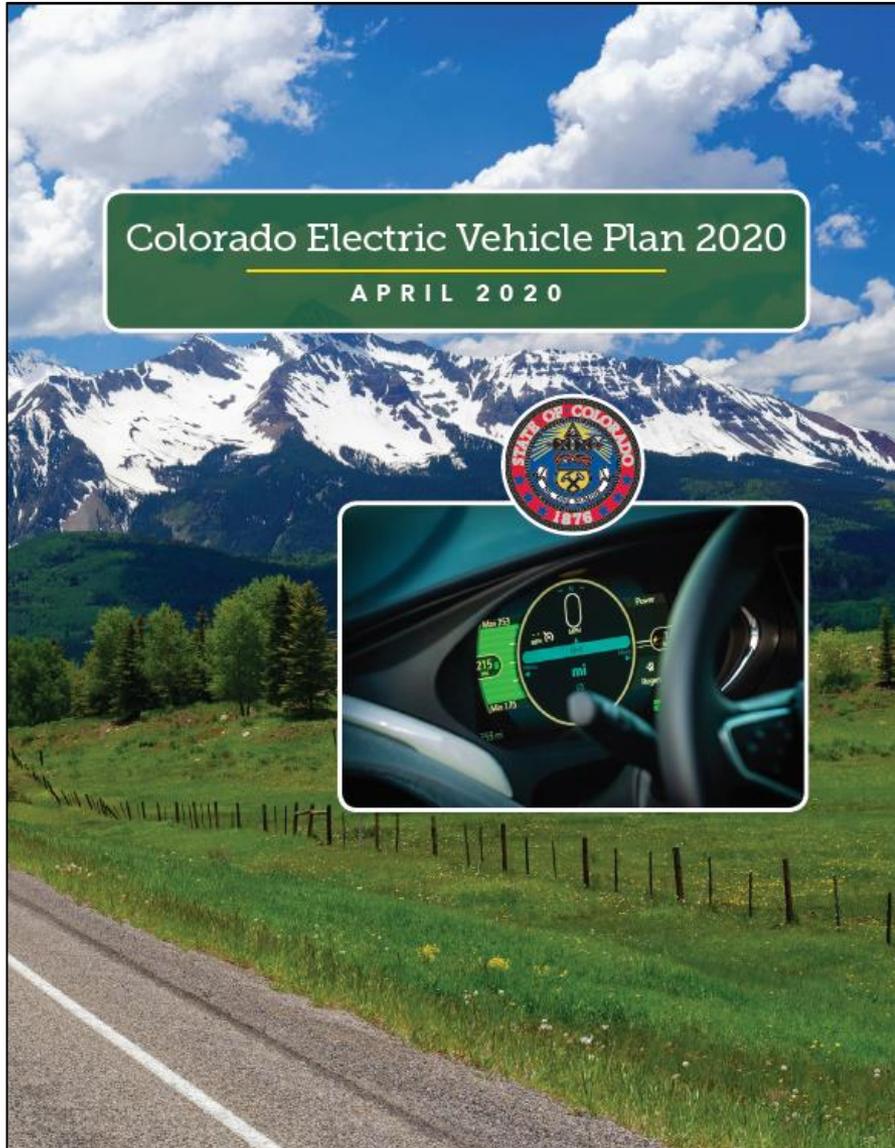
Collaborate with other state agencies, local governments, and private companies to **increase the percentage of total state highway miles within a 30-mile travel buffer of DC fast-charging stations** from 40% in FY 2020 to 100% by FY 2030.

Coordinate with other state agencies, the Colorado Scenic & Historic Byways Commission, local governments, and individual site hosts to **increase the number of Colorado Scenic & Historic Byways classified as electrified byways** from 3 in FY 2020 to 26 by the end of FY 2025.





Next Steps on 2020 Colorado EV Plan



The Colorado EV Plan was adopted in April 2020 and the implementation phase is ongoing.

There were a number of action items identified in the plan that are either *transit-focused* or that are likely to have a direct or indirect *impact* on transit.

CDOT DTR scoped these together into a **Transit Zero-Emission Vehicle Roadmap** to address multiple action items from a statewide perspective.



Transit ZEV Roadmap Scope Summary

1	Assess the current state of the Colorado transit fleet (vehicle number, size, fuel type, location, age) and how it aligns with available ZEV technologies.
2	Review the national transit ZEV market for best practices, key readiness indicators, and available vehicles and technologies.
3	Identify complimentary electric utility policies and investments necessary to support large-scale transit fleet transition.
4	Identify reasonable timelines and necessary funding levels to achieve the state's 1,000 transit vehicle target by 2030 and spur a widespread ZEV transition across all agencies by 2050.
5	Incorporate findings and recommendations of the Colorado Hydrogen Roadmap, EV Equity Study, and anticipated Innovative Clean Transit Rule analysis into the final product.



Transit ZEV Roadmap Timeline

Month	Activities
January	<ul style="list-style-type: none"> • Internal project kick-off with FHU and CDOT staff
February	<ul style="list-style-type: none"> • Collection / compilation of existing statewide transit fleet data • Initial literature review of other state / utility policies and best practices
March	<ul style="list-style-type: none"> • Briefings for TRAC and CEVC Transit Subgroup • Development of ongoing stakeholder engagement plans
April	<ul style="list-style-type: none"> • Refine statewide fleet, national best practices, and utility policy elements • Ongoing stakeholder engagement
May	<ul style="list-style-type: none"> • Assess and recommend potential policy and programmatic elements necessary to achieve the state's ZEV transit goals • Ongoing stakeholder engagement
June	<ul style="list-style-type: none"> • Model potential timelines and necessary funding levels for 2030 target • Ongoing stakeholder engagement
July	<ul style="list-style-type: none"> • Compile and finalize all sections, including recommended future tasks • Ongoing stakeholder engagement
August	<ul style="list-style-type: none"> • Incorporate (draft) findings of EV Equity Study, Hydrogen Roadmap, etc. • Finalize & share Transit ZEV Roadmap • Begin implementation of recommended tasks



Stakeholder Engagement

- Transit & Rail Advisory Committee (TRAC)
- Colorado EV Coalition (CEVC) Transit Subgroup
- CASTA
- Utility Partners
- Others?





Related Studies

Other related studies and plans whose findings will be incorporated:

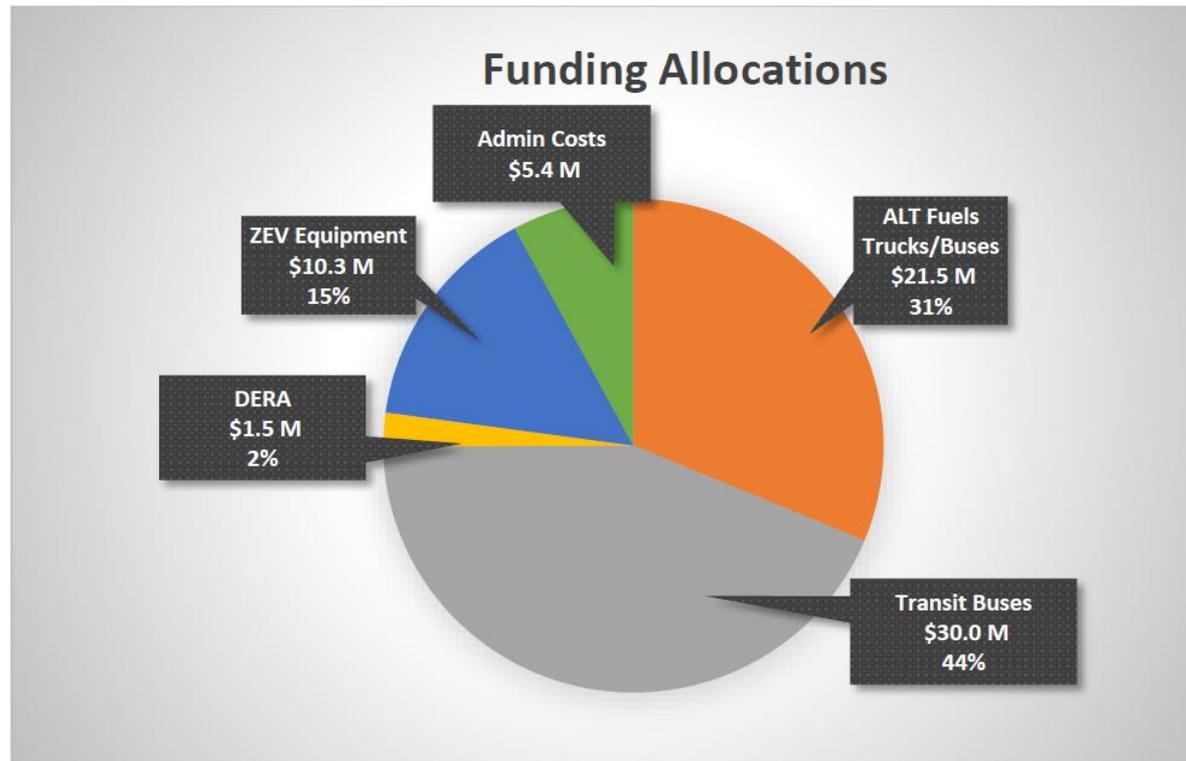
- The CEO has begun work on the Colorado Low-Carbon Hydrogen Roadmap to assess the potential market and benefits of this zero-emission fuel in Colorado, as well as the programs and policies needed to support its development.
- The CEO's EV Equity Study kicked off internally in March to determine how EV equity should be defined, the current state in Colorado, and the programs, policies, and data needed to improve it moving forward.





Volkswagen Settlement

- Colorado's portion of the \$2.7 billion environmental mitigation fund is anticipated to be approximately **\$68.7 million**.
- The designated lead agency is CDPHE, working in partnership with CDOT, CEO, and RAQC.





Settlement Program

\$30 million Transit Vehicle Replacements

- Led by CDOT DTR
- Scrap and replace transit buses with battery electric, hydrogen fuel cell, or renewable natural gas vehicles
- Public & private fleets
- Part of Consolidated Call for Capital Projects
 - 110% of incremental cost
 - includes EV charger





Settlement Program

Past & Current Grant Rounds

- Year 1 Awards:

–\$13,828,037

–6 agencies

- RTD
- Eagle County
- Transfort
- City of Boulder
- Mountain Metro
- Gunnison Valley RTA

–23 electric buses (with 20 EVSEs)

–1 CNG buses

–3 LPG buses

- Year 2 Awards:

–\$2,903,940

–3 agencies

- Via Mobility
- City of Boulder
- Transfort

–6 electric buses
(with 5 EVSEs)

- Year 3 Applications:

–\$7,555,312

–5 agencies

- Eagle County
- Town of Breckenridge
- Town of Vail
- Town of Winter Park
- Summit County

–13 electric buses
(with 12 EVSEs)



FY21 FTA 5339(c) “Low/No” Grants

Notice of funding availability (NOFA)
issued on February 11th, 2021

Total of **\$180 million available**
nationwide (roughly \$50 million more
than last year)

Eligibilities include:

- Low or No Emission vehicles
(purchase or lease)
- Charging/fueling equipment
- Construction or upgrade of
facilities supporting the above

Applications due **April 12th, 2021**



[Informational webinar](#) to be
held by FTA on March 4th,
2021 from 2:00 – 3:30 PM
ET.



Questions & Contact



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