



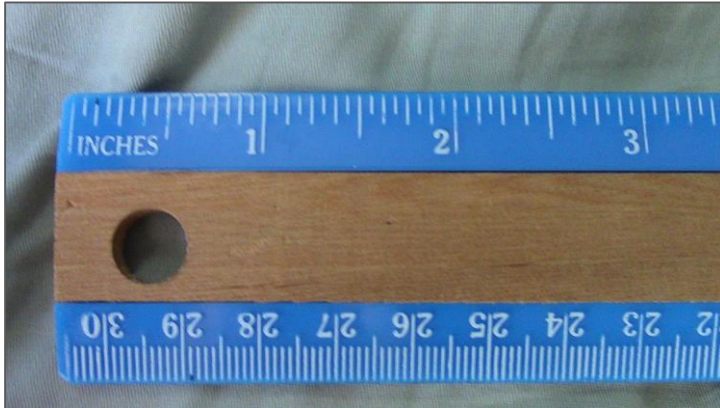
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Transit Emissions Dashboard

If you can't measure it, you can't improve it.

(Lord Kelvin, William Thompson, Peter Druker)



March 12, 2021

Update to the Transit and Rail Advisory Committee

Lisa Streisfeld

Colorado Department of Transportation

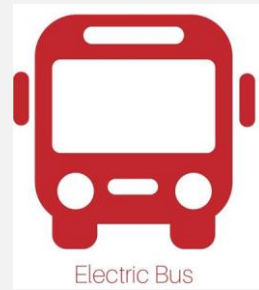
Office of Innovative Mobility



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Transit Emissions Dashboard



The Division of Transit and Rail and Office of Innovative Mobility staff are working with a consultant team to develop a multi-platform online dashboard to track data for:

- Transit fleet conversion to zero emission vehicles (ZEVs)
- Transit ridership
- Transit vehicle miles traveled
- Statewide emissions for Bustang/Outrider trips
- Avoided emissions per passenger vehicle mile traveled
- Trend data for transit emission reduction over time

First phase with Bustang/Outrider data and future phases to add select Colorado transit agencies



What is a Dashboard?

Interactive website for users to access data using a Graphic User Interface-GUI
Users can specify parameters to view data: timeframe, transit agencies, location
Graphically display results in tables and charts
Often built on platforms such as Microsoft Power BI, Tableau, Google Analytics, etc.
Examples:

[Your CDOT Dollar](#)

[Colorado COVID 19 Cases](#)

[Colorado Higher Education](#)



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Transit Emissions Dashboard Goals

- Provide monthly transit ridership and transit emissions information to state agencies and elected officials.
- Demonstrate the impact the Volkswagen Settlement and other grant funds are having on electrifying the fleet of buses and document the emission reductions.
- Track CDOT's performance in meeting the goals of House Bill 19-1261 to reduce GHG emissions by 26% by the year 2025.
- Serve as baseline data on GHG emissions which may be accessed in the future to document carbon offsets by CDOT.
- Motivate transit agencies to replace their operational fleet with electric and other low or zero emission vehicles.
- Motivate the traveling public to reduce their trips in single occupancy vehicles, increase transit use, and reduce emissions.

Transit Emissions Dashboard Project Schedule

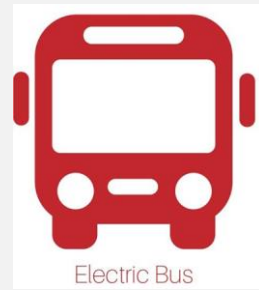
Project Initiation and Define Outcomes	January 2021
Data Discovery and Metrics Analysis: Transit Vehicles Ridership Data Route data Identify Emission Assumptions for MOVES Model	Winter 2021
Stakeholder Coordination (DTR, Climate Change Program Manager, CDPHE-APCD, Advanced Mobility Partnership (AMP), others)	Throughout
Develop Proof of Concept for Platform Using Bustang and Outrider Data	Winter 2021
Refinement of Proof of Concept	Spring 2021
Incorporate 2-3 Additional Transit Agencies into Dashboard	Spring 2021
Finalization of Dashboard	Summer 2021
Maintenance of Dashboard	Yearly
Future phases?	TBD



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