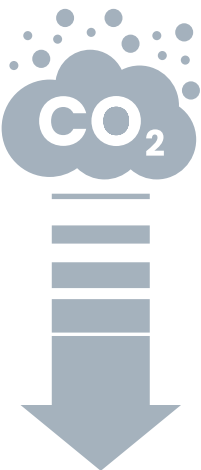


Air Quality (AQ) and Greenhouse Gas (GHG)

The Federal Boulevard BRT Project aims to reduce traffic congestion and provide a reliable transit choice, reducing impacts to air quality pollution in our community.



Reducing Emissions

This Proposed Action for will take cars off the road, leading to a major reduction in greenhouse gas emissions. Over its first 20 years is projected to prevent nearly:

- **27,000 metric tons** of greenhouse gas emissions (CO2e)
- That’s a **29% reduction** compared to not building the project

Cumulative Effect GHG Emissions

Emission Source	No Action Total GHG Emissions (CO2e) Metric Tons	Proposed Action Total GHG Emissions (CO2e) Metric Tons	Net Change Total GHG Emissions (CO2e) Metric Tons	Percent Change Total GHG Emissions (CO2e) Metric Tons
Direct Effects	-58,363.78	-74896.96	-16533.23	-26%
Indirect Effects	-33,860.39	-44208.65	-10348.26	-31%
Total	-92,224.17	-119195.61	-26971.44	-29%

Operational Criteria Pollutant Emissions

Pollutant	Baseline No Action (2030) Tons per Year	No Action (2050) Tons per Year	Proposed Action (2050) Tons per Year	Proposed Action Net Change vs No Action (2050) Tons per Year	Proposed Action Percent Change vs No Action (2050)
PM10 - Exhaust, Tire, Brake, Dust	-14.09	-17.09	-25.1	-8.01	-47%
PM2.5 - Exhaust, Tire, Brake, Dust	-0.1	-0.11	-0.16	-0.05	-44%

What does that really mean? That’s equivalent to:

- Taking nearly **300 cars off our roads, every single year, for 20 years.**
- Saving over **3 million gallons** of gasoline.
- The annual energy use of nearly **6,000 homes.**

Air Quality Enhancements

Fewer cars on the road means a direct improvement in our local air quality—the air we all breathe every day. The Proposed Project Action:

- **Reduces** harmful dust and particulate matter pollution by:
 - **47% for PM10 and 44% for PM2.5**
- Reductions are anticipated because the Proposed Action **displaces significantly more passenger vehicle miles than it adds** in bus miles.
 - Improves Community Health: This reduction helps protect public health, especially for vulnerable populations by lowering particulate matter pollution in the area.

Community Commitments

We are committed to delivering environmental benefits and enhancements.

- CDOT will perform air quality monitoring before and during construction to protect our communities.
 - All Project related air quality impacts during construction will be mitigated to protect the air quality of the people living directly adjacent to the corridor.
- After project completion, ridership and traffic data will be tracked to ensure the project is meeting its goal of creating a cleaner, healthier Colorado.

An air quality monitor on the Floyd Hill project collecting air quality data during construction

