



Dallas-Fort Worth Air Quality Improvement Plan

North Central Texas Council of Governments

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UNHEALTHY

35 75 115 150 250

19°C 64%

Dallas-Fort Worth Air Quality Improvement Plan*

Purpose: Identify opportunities for achieving reductions in carbon dioxide equivalent (CO₂e) emissions and pollutants of local concern to achieve comprehensive air quality improvement

Contents:

Emissions Inventory for CO₂e in 2022

Emissions Inventory of Criteria Pollutants of Local Concern, Including Nitrogen Oxides (NO_x), Fine Particulate Matter (PM_{2.5}), Volatile Organic Compounds (VOC)

Projections of Emissions in 2030 and 2050

Targets to Reduce Future Emissions

41 Measures to Support Targets

Evaluation of Community Benefits/Workforce Impacts if Measures are Implemented

**The DFW AQIP development is supported by funding from Environmental Protection Agency's (EPA) Climate Pollution Reduction Grants (CPRG): Planning Grants*



Need for Comprehensive Planning



Nonattainment and Section 185 Fees



Health Impacts



Population Increase of 63% by 2050*



Vehicle Miles Travel Increase of 81% by 2050*



Water Demand Increase of 116%** by 2070**



Electricity Demand Increase of 214% by 2050***

*NCTCOG 2050 Demographic Forecast; www.nctcog.org/executive-director/nctcog-executive-board - November 2024 Item 15

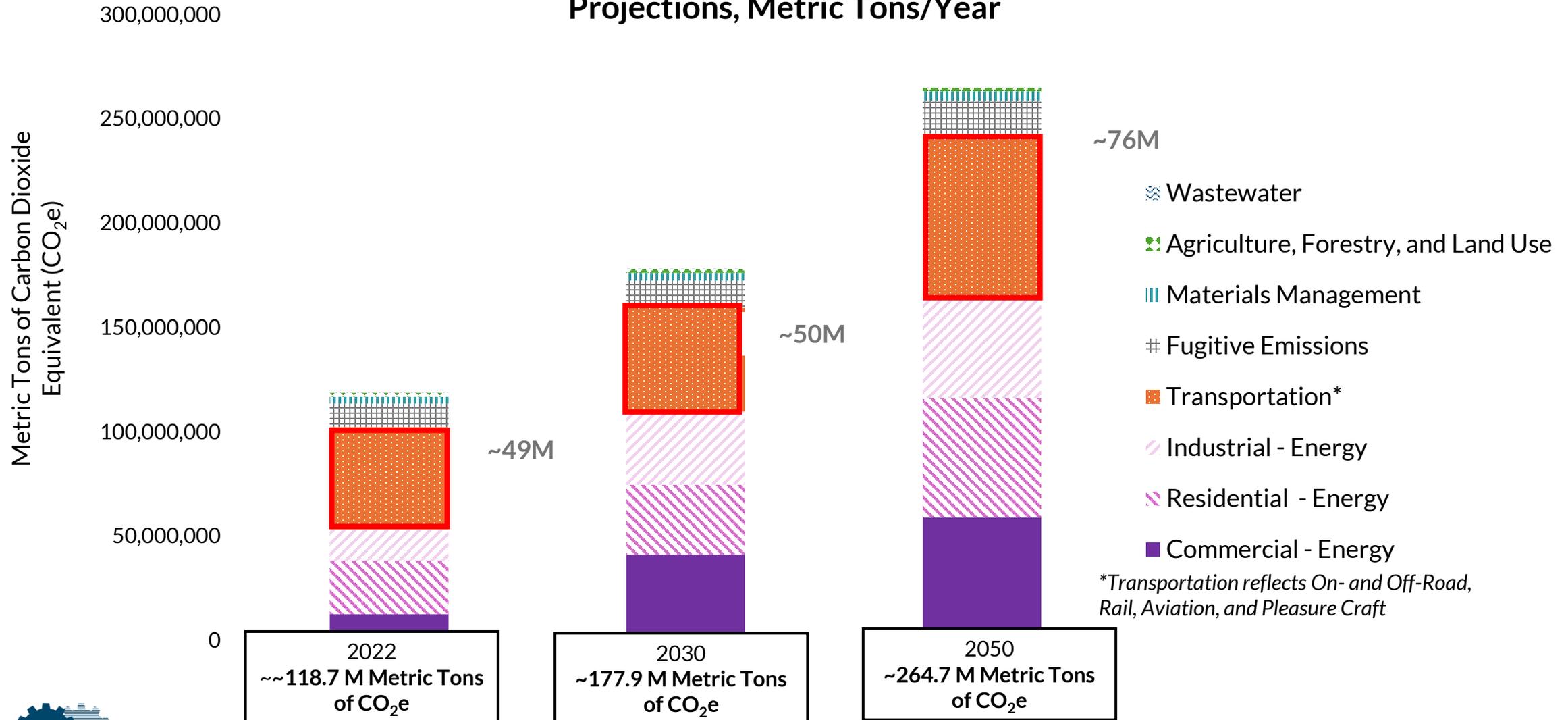
**2026 Region C Water Plan; https://www.twdb.texas.gov/waterplanning/rwp/plans/2026/C/RegionC_2026_RWP_Volume1.pdf

***ERCOT 2025 Long-Term Load Forecast Reports, www.ercot.com/gridinfo/load/forecast



DFW AQIP Emissions Inventory and Projections

2022 Carbon Dioxide Equivalent (CO₂e) Emissions Inventory and Projections, Metric Tons/Year



Establishing a Future Target

Transportation Conformity

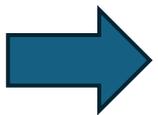
Required by the Clean Air Act section 176(c) (42 U.S.C. 7506(c))



25% Nitrogen Oxides reductions needed for 2050 MTP Analysis Year

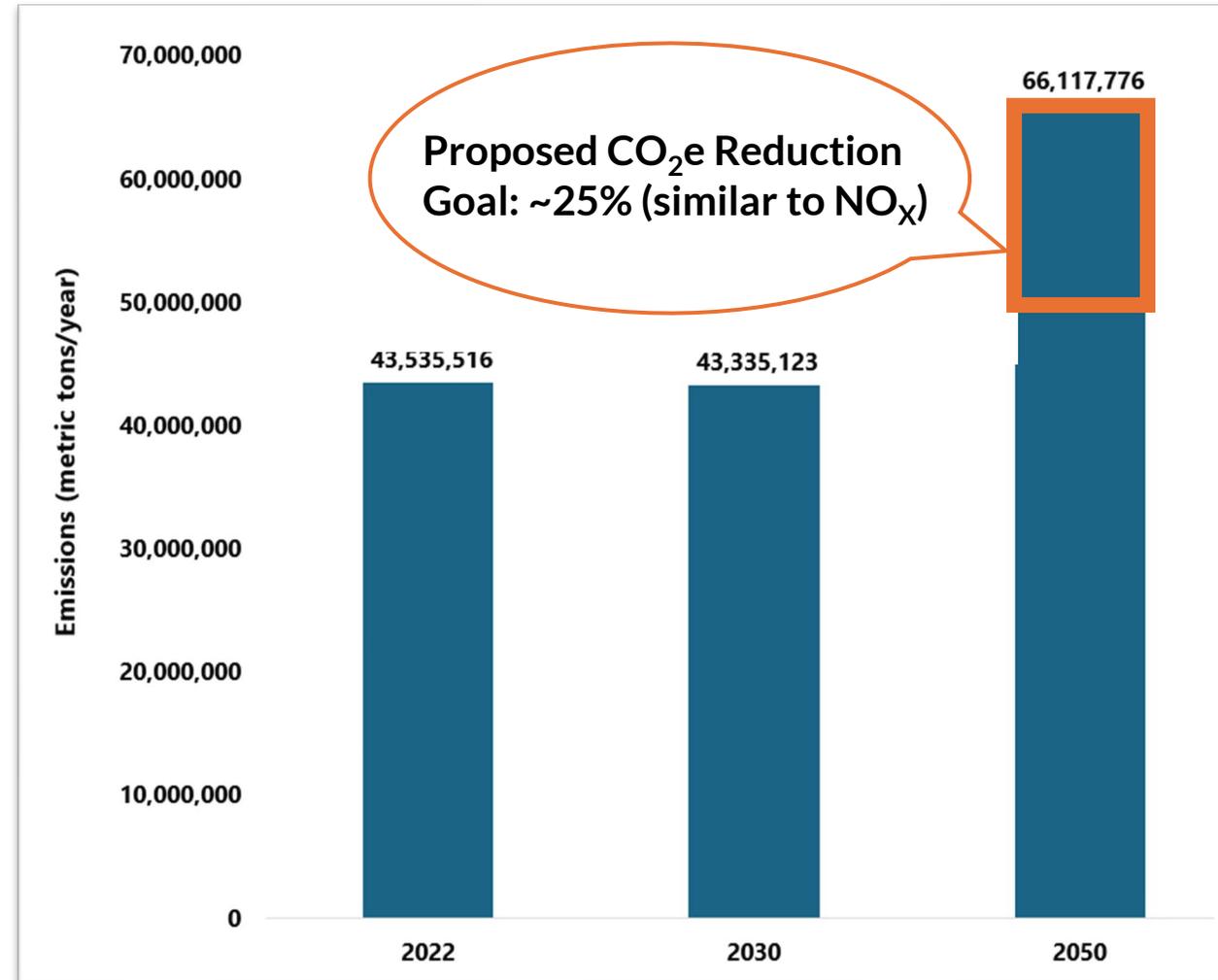
Proposed Multi-Pollutant Emissions Reduction

Nitrogen Oxides (NO_x), Volatile Organic Compounds (VOC), Particulate Matter (PM_{2.5}), and Carbon Dioxide Equivalent (CO₂e)



25% Emissions reduction by 2050 Horizon Year

On-road, Carbon Dioxide Equivalent (CO₂e), Metric Tons/Year, NCTCOG 16-county area



Transportation Measures: Category 1

Vehicle/Equipment Technology Upgrades



Provides ~ 50% of CO₂e Emission Reduction Goal

Most Reductions

Least Reductions



Expand Use of On-Road Alternative Fuel Vehicles



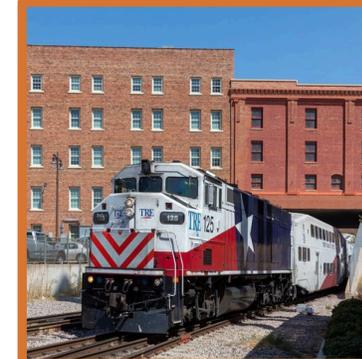
Expand Use of Alternative Fuel Non-road Equipment



Expand Sources and Use of Low-Emitting Liquid Fuels



Reduce Emissions from Airports



Reduce Emissions from Locomotives



Implement Regional Emissions Compliance Program



Transportation Measures: Category 2

System Operations



Provides ~ 20% of CO₂e Emissions Reduction Goal

Most Reductions

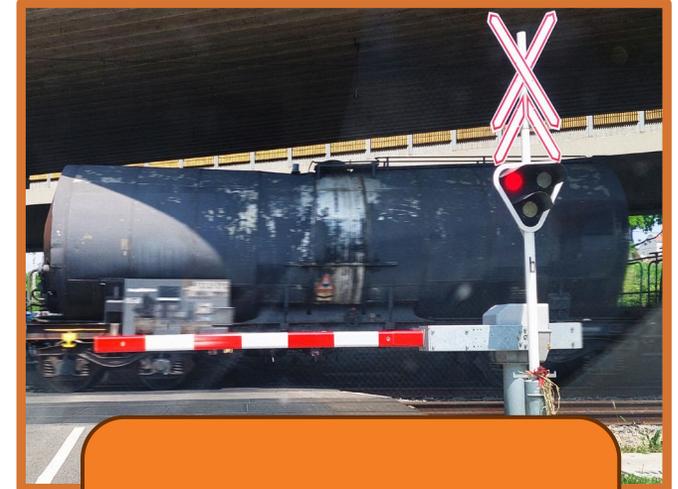
Least Reductions



Enhance Regional Traffic Signal Operations



Optimize Transportation System Efficiency



Optimize Truck and Rail Flow



Transportation Measures: Category 3

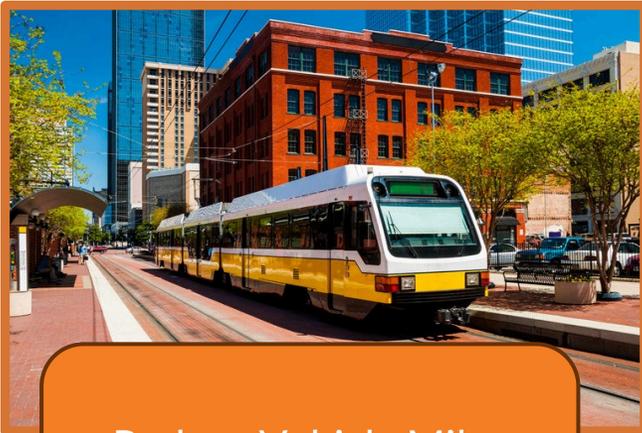
Mode Shift and Land Use



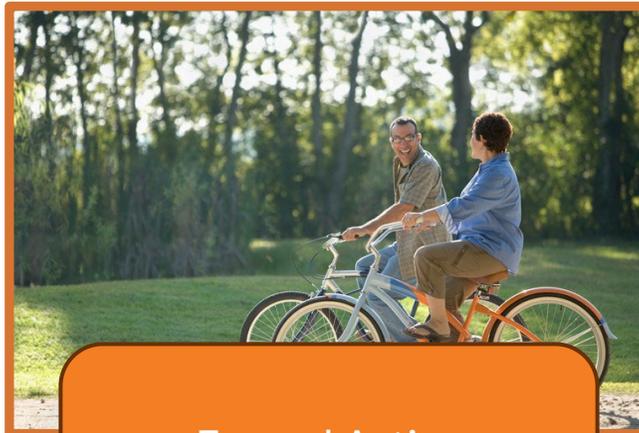
Provides ~ 30% of CO₂e Emissions Reduction Goal

Most Reductions

Least Reductions



Reduce Vehicle Miles Traveled



Expand Active Transportation Network



Enhance Access to Transit Service



Other DFW AQIP Measures



Energy

5 Measures



Materials Management

8 Measures



Water, Wastewater, and Watershed Management

11 Measures



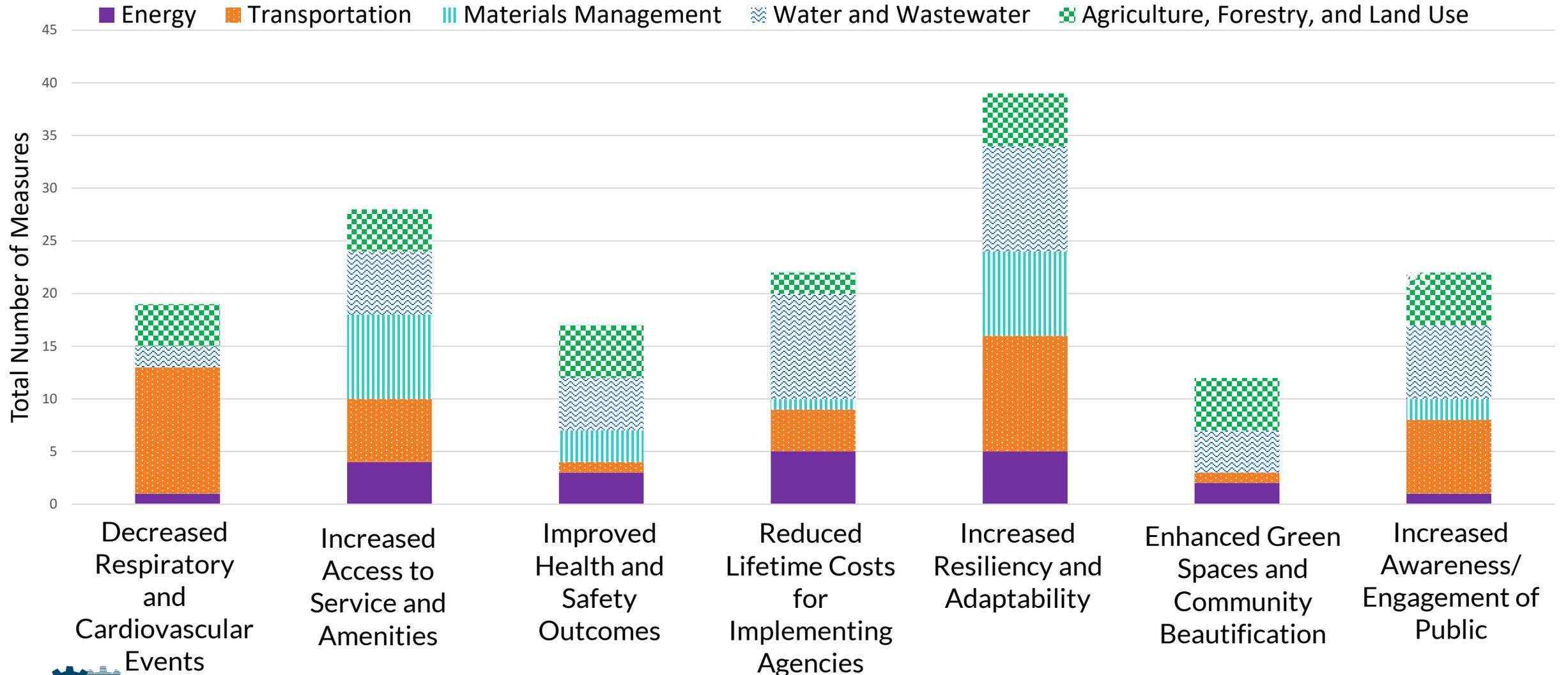
Agriculture, Forestry, and Land-Use

5 Measures



DRAFT: Community Benefits

Community Benefits from DFW AQIP Measures



DALLAS-FORT WORTH AIR QUALITY IMPROVEMENT PLAN

Funded through the Environmental Protection Agency's Climate Pollution Reduction Grants

Go to www.publicinput.com/dfwAQIP - The Plan to view Draft Documents

- Feedback Requested By **March 15, 2026**
- Survey and Updated Documents Coming Soon!
 - Feedback requested in particular on Community Benefits and Workforce Analysis
- Sign Up to Receive Email Notifications Of Updates



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