



Dallas-Fort Worth Air Quality Improvement Plan Comprehensive Action Plan

North Central Texas Council of Governments

11.18.25



Comprehensive Air Quality Planning

Dallas-Fort Worth Air Quality Improvement Plan: Comprehensive Action Plan (CAP)*

Outlines through 2050:

- Comprehensive Emissions Inventory and Projections
- Targets and Measures to Improve Air Quality in All Sectors

Includes:

- Comprehensive Stakeholder Engagement
- Air Quality Planning for All Emissions of Local Concern
- Integrating NCTCOG Regional and Statewide Efforts**

Potential Impact of Regional Growth:



Nonattainment and
Conformity Lapse



Section 185 Fees (*Failure to
Attain Fees*)



Constrained Resources and
Lacking Infrastructure



Health Impacts

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

**TCEQ's Comprehensive Roadmap to Reduce Emissions <https://www.tceq.texas.gov/agency/climate-pollution-reduction-grants>




EPA CAP Guidelines and Requirement Overview

Emissions Inventory (EI) and Projections

- All Sectors (*to the extent possible*)
- All counties/region covered by CAP
- Short-term Projections (i.e. 2030 or 2035)
- Long-term projection (i.e. 2050)

Target

- Be actionable, ambitious, and achievable
- Take into consideration local conditions (**not previously adopted National targets**)
- Consider technical/economic feasibility

Measure Requirement(s)	Included Today?
Description, including clear responsible parties	
Quantified CO ₂ e Emissions Reduced in 2050 to support CAP Goals	
Cost	
Community Benefits	
Implementation Authority and Responsibilities	
Funding Opportunities	Revisions from Priority Plan Underway
Criteria Air Pollutant Reduced in 2030/2050	
Implementation Timelines and Milestones	
Metrics for Tracking Progress	
Workforce Analysis	Coming Soon



Key Data Sources For EI and Projections

When possible NCTCOG Used Sources Which:

- Are specific to NCTCOG region; or Texas specific;
- Had already been vetted/approved/included in other plans;
- Assumed no/minimal improvements to current emission rates (*to be conservative*)

Materials Management

NCTCOG Materials Management Plan

North Central Texas Organic Waste Gap Analysis Study

EPA Facility Level Information on Greenhouse Gases Tool

Population Growth

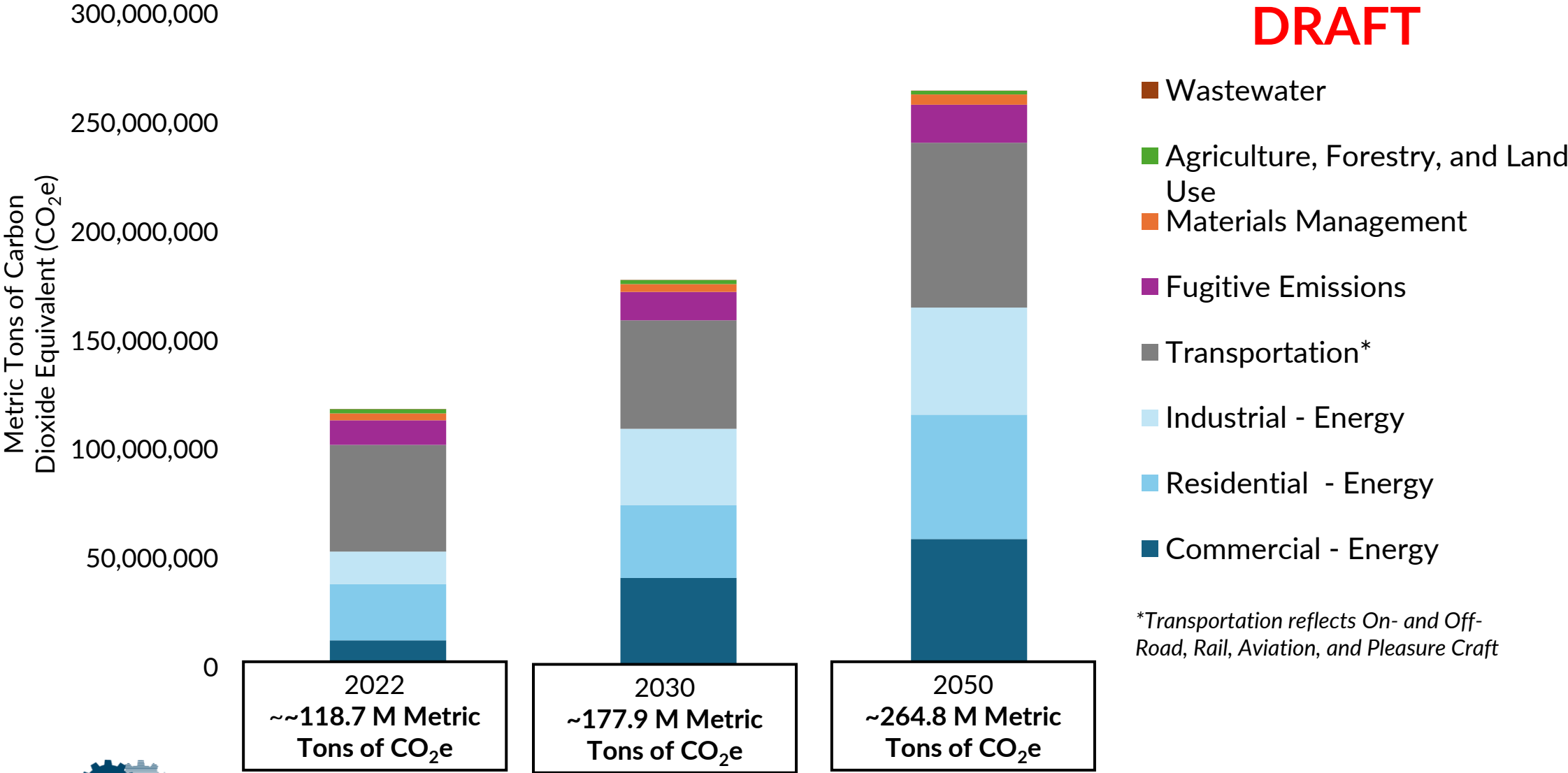
Employment Rate of Change



Emissions Inventory and Projections Results

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

DRAFT



Emissions Inventory and Projections

Percent Change In NCTCOG 16-County Carbon Dioxide Equivalent Emissions		
Sector	2022-2030	2022-2050
Commercial- Energy	229%	371%
Residential- Energy	29%	121%
Industrial – Energy	135%	229%
Transportation	2%	55%
Materials Management	13%	46%
Agriculture, Forestry, Land Use	-7%	-20%
Fugitive Emissions	16%	55%
Wastewater	15%	53%
Total	50%	123%

Forecasted Changes by 2050



¹Increase in Electricity Demand of 214%



²Increase in Vehicle Miles Traveled of 81%




³Increase in Water Demand of 97%

¹ERCOT 2025 Long-Term Load Forecast Reports,
www.ercot.com/gridinfo/load/forecast

²NCTCOG 2050 Demographic Forecast; www.nctcog.org/executive-director/nctcog-executive-board – November 2024 Item 15

³ 2026 Region C Water Plan;
https://www.twdb.texas.gov/waterplanning/rwp/plans/2026/C/RegionC_2026_RWP_Volume1.pdf



A worker wearing a yellow hard hat, black gloves, and an orange safety vest with reflective stripes is pushing a large yellow wheeled bin into the back of a green recycling truck. The bin has two large black wheels. The truck's interior is visible, showing some black plastic bags. The scene is outdoors with trees in the background.

Materials Management Targets and Measures

Methodology to Selecting Material Management Measures

Step 1: Review Priority Action Plan Measures Against EPA Requirements for Comprehensive Action Plan

Step 2: Compare Measures for consistency with NCTCOG's Regional Solid Waste Management Plan 2022-2042.

Step 3: Update Measures and Collect Input from Stakeholders/Committees

Step 4: Receive Approval from the Resource Conservation Council



Development Materials Management Targets

- Surveyed local governments, waste facility permit holders, and other stakeholders
 - Survey was distributed from July 15, 2025, to August 22, 2025.
- Engaged with NCTCOG's Resource Conservation Council for input on targets.
- Consulted NCTCOG's Regional Solid Waste Management Plan 2022-2042 and Organic Waste Gap Analysis Study, as well as TCEQ's 2022 Municipal Solid Waste Report.



Materials Management Overview

DRAFT: Materials Management Sector Target:

25% Reduction of 2050 CO₂e emissions; ~ 1,200,000 metric tons of CO₂e in 2050



Organic Material

- Expand Compost Opportunities to Increase Waste Diversion Efforts
- Divert Organic Waste Into Waste-to-Energy Systems

Provides ~20% of CO₂e Reduction Goal



Construction and Demolition

- Expand Regional Construction Material Recycling Efforts

Provides ~2% of CO₂e Reduction Goal



Waste Disposal Facilities and Processes

- Implement Western Regional Resource Management Center
- Implement Landfill Gas Collection & Management Systems

Provides ~21% of CO₂e Reduction Goal



Recycling

- Upgrade Existing Facilities to Optimize Load Weights
- Construct Additional Recycling Centers Across the Region
- Expand Tire Recycling Efforts

Provides ~56% of CO₂e Reduction Goal

For more information regarding these measures please see Materials Management Handout.



DALLAS-FORT WORTH AIR QUALITY IMPROVEMENT PLAN

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

Upcoming Meetings/Input Opportunities:

Go to www.publicinput.com/dfwAQIP for more information and for draft documents



Contact Us



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