



# 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 <sub>2</sub> e Emissions Reduced in 2050 to support CAP Goals	
Cost	
Community Benefits	
Implementation Authority and Responsibilities	
Funding Opportunities	
Criteria Air Pollutant Reduced in 2030/2050	
Implementation Timelines and Milestones	
Metrics for Tracking Progress	
Workforce Analysis	



# 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](#)

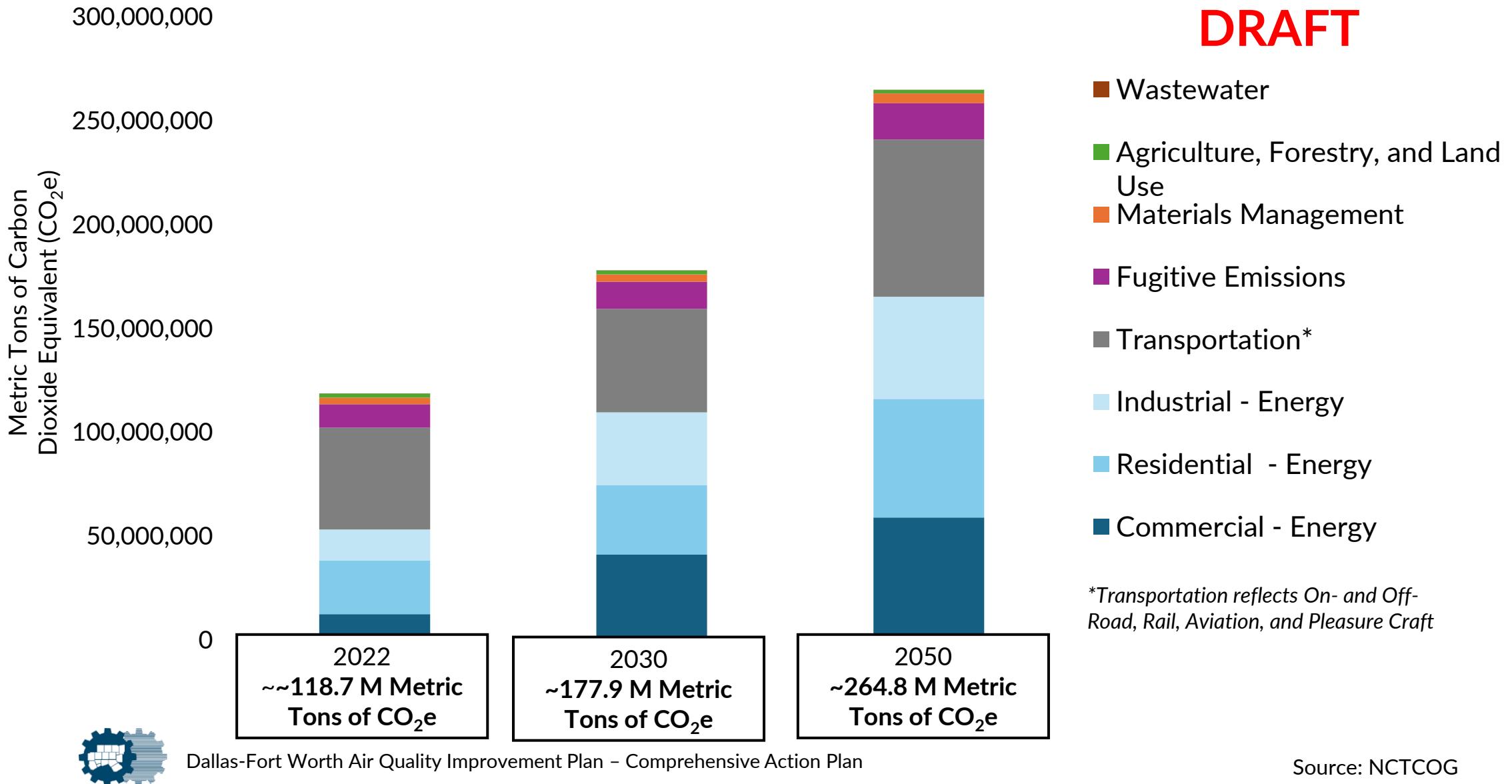
[Population Growth](#)

[Employment Rate of Change](#)



# Emissions Inventory and Projections Results

All sectors, Carbon Dioxide Equivalent (CO<sub>2</sub>e), Metric Tons/Year NCTCOG 16-county area



# 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%
<b>Total</b>	<b>50%</b>	<b>123%</b>

## Forecasted Changes by 2050



<sup>1</sup>Increase in Electricity Demand of 214%



<sup>2</sup>Increase in Vehicle Miles Traveled of 81%



<sup>3</sup>Increase in Water Demand of 97%

<sup>1</sup>ERCOT 2025 Long-Term Load Forecast Reports, [www.ercot.com/gridinfo/load/forecast](http://www.ercot.com/gridinfo/load/forecast)

<sup>2</sup>NCTCOG 2050 Demographic Forecast; [www.nctcog.org/executive-director/nctcog-executive-board](http://www.nctcog.org/executive-director/nctcog-executive-board) – November 2024 Item 15

<sup>3</sup> 2026 Region C Water Plan; [https://www.twdb.texas.gov/waterplanning/rwp/plans/2026/C/RegionC\\_2026\\_RWP\\_Volumel.pdf](https://www.twdb.texas.gov/waterplanning/rwp/plans/2026/C/RegionC_2026_RWP_Volumel.pdf)





# 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

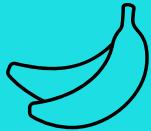
- Surveyed local governments, waste facility permit holders, and other stakeholders
  - Survey was distributed from July 15, 2025, to August 22, 2025.
- Engaged with NCTCOG's Resource Conservation Council for input on targets.
- Consulted NCTCOG's Regional Solid Waste Management Plan 2022-2042 and Organic 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 CO<sub>2</sub>e emissions; ~ 1,200,000 metric tons of CO<sub>2</sub>e in 2050



### Organic Material

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

Provides ~20% of CO<sub>2</sub>e Reduction Goal



### Construction and Demolition

- Expand Regional Construction Material Recycling Efforts

Provides ~2% of CO<sub>2</sub>e Reduction Goal



### Waste Disposal Facilities and Processes

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

Provides ~21% of CO<sub>2</sub>e Reduction Goal



### Recycling

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

Provides ~56% of CO<sub>2</sub>e 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](http://www.publicinput.com/dfwAQIP) for more information and for draft documents



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