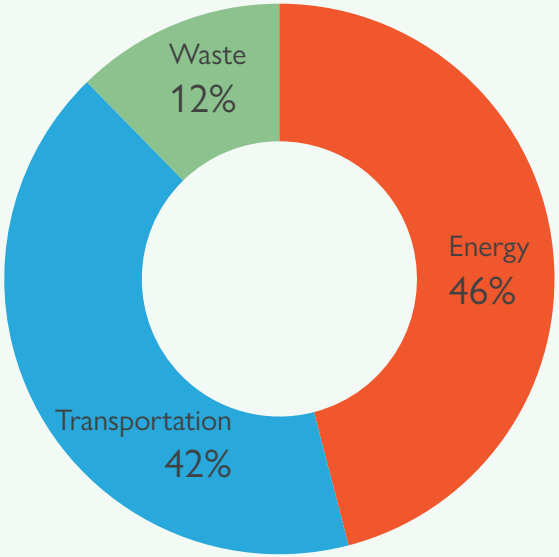
MEMPHIS AREA CLIMATE ACTION PLAN

The Memphis Area Climate Action Plan is a framework for achieving significant reductions in our community's carbon emissions and fostering a more equitable, healthy, and prosperous community. The plan provides information on existing emissions, sets short-, mid-, and long-term targets for reducing emissions, and outlines specific actions in three sectors - energy, transportation, and waste - to achieve these goals. View the full plan at www.memphisclimateaction.com.

Current Carbon Emissions (2016)



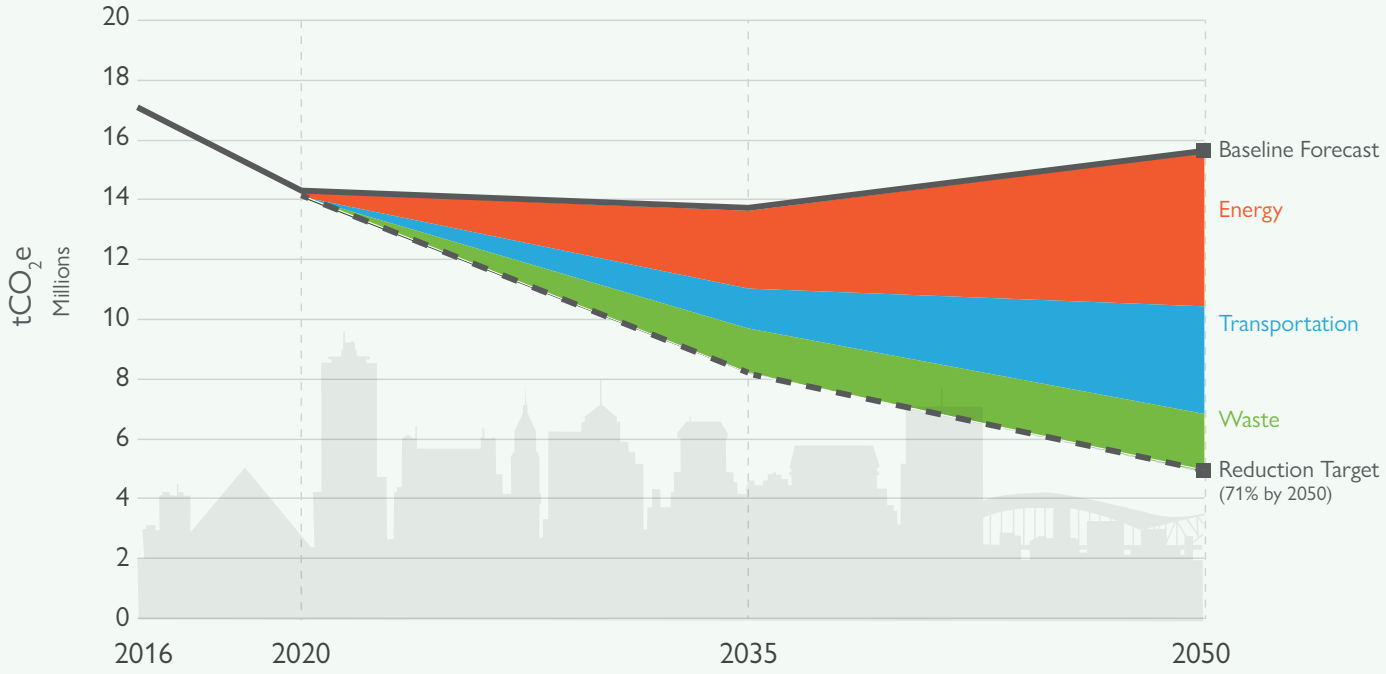
17,191,915
metric tons CO_2e

Carbon Emissions Reduction Targets

2020: -15%

2035: -51%

2050: -71%



ENERGY

Current Emissions (2016):	7,900,671 metric tons CO_2e	**Emissions Reduction Targets:**	2020: -21%	2035: -54%	2050: -81%

1 Improve Energy Efficiency of Buildings and Key Infrastructure

Action	Objective
Green Building Standards	Implement new green building regulations by 2022; full compliance by 2025.
Low-Income Housing Energy Efficiency	Increase # of low-income residences retrofitted by 500% by 2028; aim for a 30% reduction in energy usage per household.
Energy Efficiency Education and Outreach	Attain a 10% or greater reduction in average electricity use for residential and commercial sectors.
LED Streetlight Retrofit	Retrofit all streetlights to LED by 2030 or sooner, starting in 2025.
Residential Energy Efficiency Retrofits	Install energy-efficient space heating and cooling equipment and major appliances in 15% of all residences by 2025.

2 Transform Our Energy Supply

Action	Objective
Grid Decarbonization	Achieve 80% carbon-free energy in electricity supply by 2035; 100% carbon-free by 2050.

3 Increase Green Infrastructure and Community Resilience

Action	Objective
Urban Tree Canopy	Increase urban tree canopy coverage countywide to 60% by 2050.
Climate Mitigation and Adaptation Alignment	Identify and prioritize cross-cutting strategies for climate change mitigation and adaptation.

TRANSPORTATION

Current Emissions (2016):	7,171,416 metric tons CO_2e	**Emissions Reduction Targets:**	2020: -13%	2035: -44%	2050: -62%

1 Shift to Low-Carbon Transportation Modes and Reduce Reliance on Motor Vehicles

Action	Objective
Compact Land Use	Encourage denser, mixed-use development.
Complete Streets to Encourage Walking and Bicycling	Convert 10% of vehicle trips to bike/ped modes by 2030; convert 40% of vehicle trips to bike/ped modes by 2050.
Public Transit	Implement the 3.0 Transit Vision by 2022; increase ridership and improve frequency to meet MATA's long-range objectives; convert MATA's fleet to electric by 2050.
Transportation Demand Management (Commute Trips)	Reduce drive-alone commute trips by 10% by 2022; reduce drive-alone commute trips by 40% by 2050.

2 Set the Stage for Vehicle Electrification

Action	Objective
Electric Vehicles	Increase passenger vehicle travel using electric vehicles to 5% by 2025; 30% by 2035; 50% by 2050. Increase freight travel using electric vehicles to 3% by 2025; 20% by 2035; 50% by 2050.

WASTE

Current Emissions (2016):	2,119,828 metric tons CO_2e	**Emissions Reduction Targets:**	2020: -0.4%	2035: -63%	2050: -61%

1 Reduce Waste and Move Toward a Zero-Waste Future

Action	Objective
Yard & Wood Waste Diversion	Cut yard/wood waste destined for landfills by half by 2035.
Paper/Cardboard and Food Waste Reduction	Achieve a 20% reduction in paper/cardboard sent to landfills from commercial, institutional and industrial sectors by 2030; achieve a 10% reduction in food waste sent to landfills from these sectors by 2030.
Inorganic Waste Diversion	Increase the landfill diversion rate of construction & demolition waste and plastic waste.

2 Promote a Cultural Shift in our Community's Approach to Waste

Action	Objective
Tire Management and Collection Practices	Increase the use of recycled tire materials in building projects and reduce improper tire disposal through targeted programs.
Education and Outreach Efforts	Launch education & outreach campaigns to increase awareness of waste management and impacts.

3 Improve Practices and Technology at Wastewater Treatment Facilities and Landfills

Action	Objective
Methane Recovery and Landfill Gas Destruction	Extend the use of biogas controls to Class III and IV landfills by 2035. Improve the biogas capture rate at Class I landfills from 75% to 85% by 2020, and promote greater methane recovery over biogas flaring.