

# STRATEGIC ENERGY ACTION PLAN+ PLAN AT A GLANCE



Since 2015, Charlotte has been committed to addressing climate change through its participation in the Global Covenant of Mayors for Climate and Energy. This dedication led to the creation of the city's first Strategic Energy Action Plan (SEAP) in 2018, a comprehensive framework designed to guide Charlotte toward a low-carbon future. The SEAP+, an update to the 2018 SEAP, reaffirms and builds Charlotte's commitment, reflects on progress made, and charts a course for continued innovation and collaboration.

# Our Mission

*Charlotte will lead, as a global city, by continuously improving, protecting, and preserving the environment, its community, and economy, while ensuring equity and resilience - for today's and future generations.*

## Our Goals and Objectives

### Community-wide goals



Charlotte will reduce community-wide greenhouse gas emissions 72% (to 3.56 mt CO<sub>2</sub>e per capita) by 2035 and reach net-zero by 2050.



600 MW of distributed renewable energy generation will be installed in Charlotte by 2035.

### Municipal goals

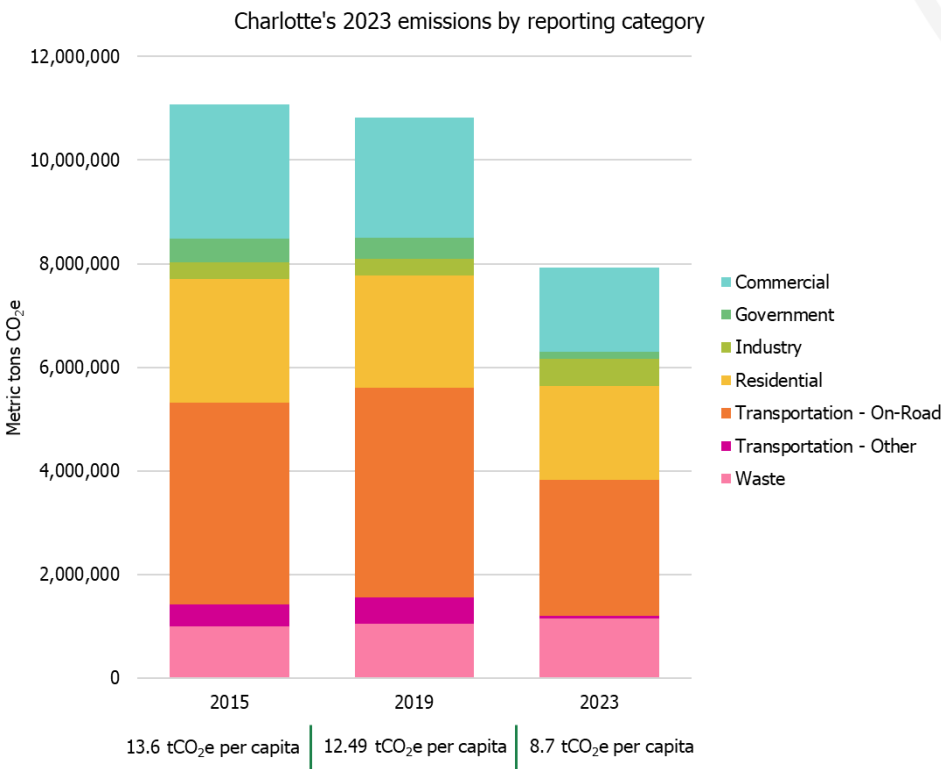


The city will source 100% of its electricity use in municipal buildings from zero carbon sources by 2030 and reach net zero emissions in municipal buildings by 2050.



The city will reach net zero emissions in its light-duty fleet by 2035 and in its entire fleet by 2050.

## Our Greenhouse Gas Emissions



### Key Points:

- The updated GHG Emissions Inventory has Charlotte on a trajectory to meet the city's current 2050 goal.
- This inventory is aligned to the Global Protocol for Community-Scale emissions and includes stationary energy, transportation, and waste.
- Per Capita GHG Emissions reduced by 30% 2019-2023.

# Our Focus Areas



## **BUILDINGS**

What we can do to build and power our residential and commercial buildings.

Strategy 1: Source 100% of electricity use in municipal buildings from zero carbon sources by 2030 and reach net zero emissions by 2050.

Strategy 2: Transition residential buildings to be zero carbon by 2050

Strategy 3: Transition non-residential (commercial & industrial) buildings to be zero carbon by 2050



## **ENERGY GENERATION**

What we can do to influence where we get our energy.

Strategy 4: Reach net-zero emissions from electricity generation by 2050.

Strategy 5: Strive toward 600MW of distributed renewable energy generation in Charlotte.

Strategy 6: Develop a suite of educational tools.



## **TRANSPORTATION**

What we can do to support the Strategic Mobility Plan's mode share goal and access to sustainable modes of transportation.

Strategy 7: Reach net-zero emissions in municipal light-duty fleet by 2035 and in the entire fleet by 2050.

Strategy 8: Support reaching a 50-50 mode share by 2040, per the Strategic Mobility Plan (SMP).

Strategy 9: Facilitate rapid uptake of zero-carbon mobility options



## **CROSS SECTIONAL**

What we can do to support strategies that are essential to achieving our goals, but do not fall directly within other focus areas.

Strategy 10: Continue to develop a smart data approach.

Strategy 11: Promote waste reduction and diversion throughout Charlotte.

Strategy 12: Establish Public-Private-Plus partnerships.

Strategy 13: Coordinate and support Tree Canopy Action Plan.

Strategy 14: Promote climate resilience throughout Charlotte.

Strategy 15: Support efforts to optimize water usage.