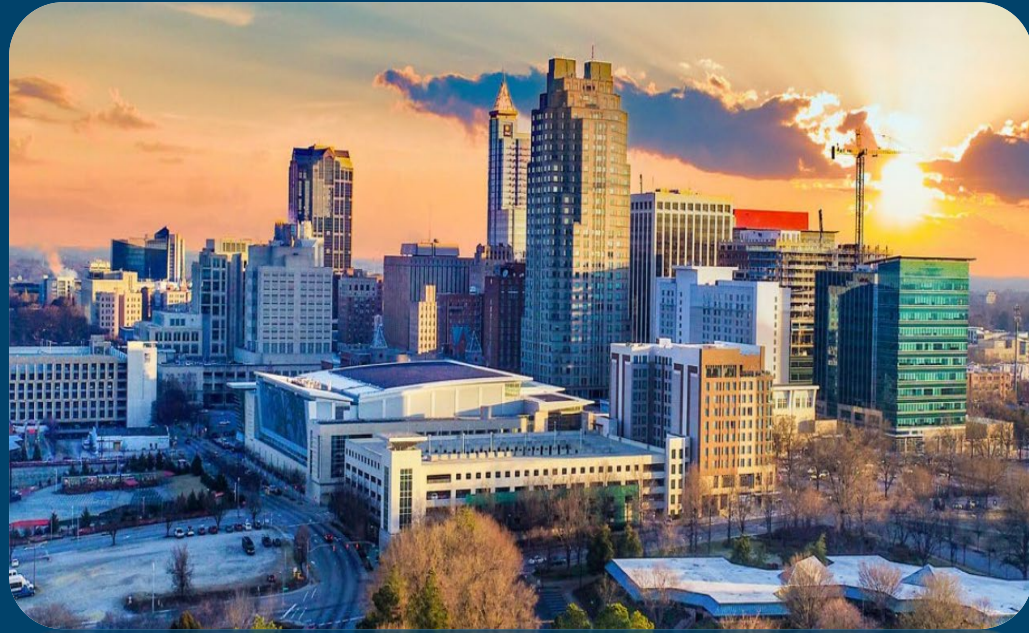


Office of Sustainability

2025
Community Climate
Action Plan (CCAP)
Implementation Update





Raleigh

Climate action takes the support of our community!

Thank you to our partners!



Office of Sustainability



City of Raleigh Partner
Departments and Leaders



Community Partners





Agenda

- Community Climate Action Plan Background
- 2025 Climate Implementation Report Highlights
- Future Highlights for Climate Action
- Questions and Discussion

Raleigh Climate Action History

- ❖ **2007:** Raleigh City Council endorsed the U.S. Conference of Mayors' *Climate Protection Agreement*
- ❖ **2010:** Sustainability initiated Raleigh's first greenhouse gas (GHG) emissions inventory
- ❖ **2012:** *Climate Energy Action Plan:* Raleigh's municipal operations
- ❖ **2016:** Updated municipal and community GHG emissions inventories
- ❖ **2018:** *Triangle Regional Resilience Assessment*
- ❖ **2019:** *Transportation Electrification Study*
City Council *Greenhouse Gas Emissions Goal* set – 80%  by 2050
- ❖ **2021:** *Community Climate Action Plan* adopted by City Council
- ❖ **2023:** *First Community Climate Action Plan Implementation Report* taken to City Council
- ❖ **2024:** Completed Raleigh's EV Implementation Strategy Rollout



Community Climate Action Plan

Objectives:

Strategy categories aligned with high impact to address:

- Reducing GHG emissions
- Addressing social, community and health impacts
- Building community resilience to the impacts of climate change

Strategies:

Implementation focused on Action and Impact:

- Buildings & Energy
- Transportation & Land Use
- Resilience & Cross Cutting

The Impacts of Climate Change

The consequences are felt unevenly by people across our community

Building Community Resilience to the Impacts of Climate Change

We are seeing more extreme and unpredictable weather, including:

- Higher temperatures, longer heat waves, more warm nights
- Extreme precipitation, flash flooding
- More unpredictable winter weather
- Increase in ocean temps, more frequent hurricanes and tropical storms
- Longer, more severe droughts



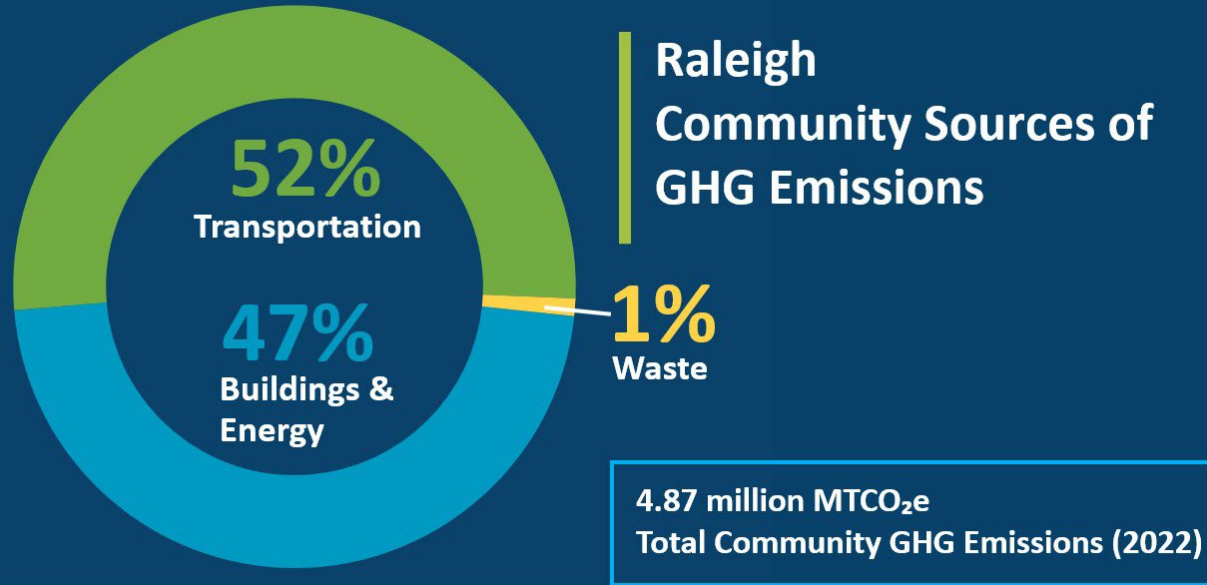
Social, Health and Economic Impacts of Climate Change

The consequences of climate change can be felt most strongly by those with the least responsibility for GHG emissions, such as:

- Low-income people
 - People living in the floodplain
 - People living in sub-standard housing
 - People who work outside
 - People with health sensitivities
- In Raleigh, as in most US cities, these are largely communities of color
- Past decisions made by government and others in power have contributed to many of the issues we see today (including lack of investment and access to resources, etc.)

80% Reduction in GHG emissions by 2050

Community-wide



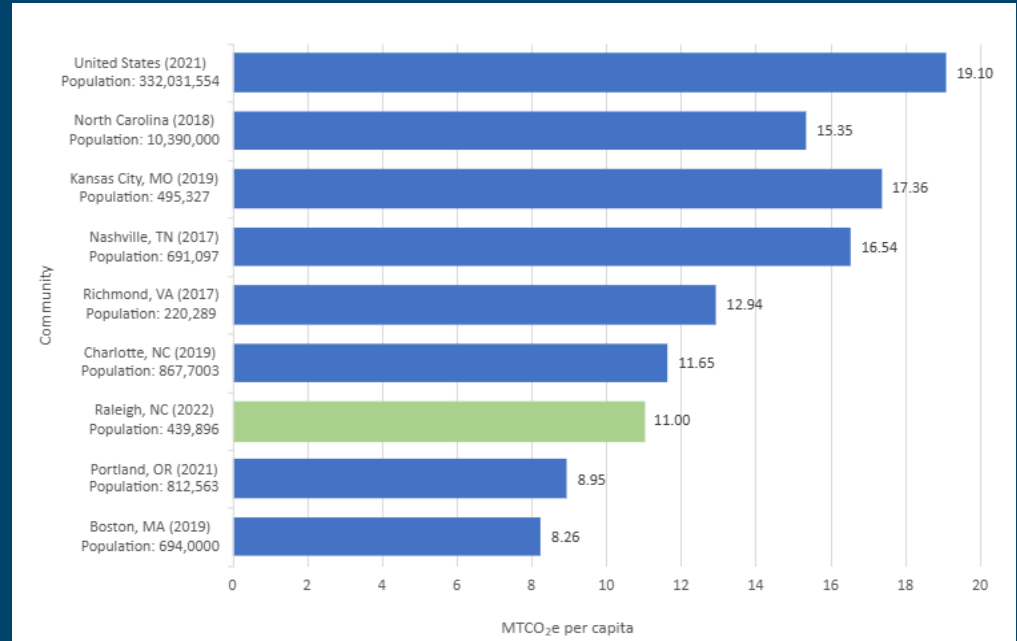
MTCO₂, or metric tons of carbon dioxide equivalent, is a unit of measurement used to express the impact of different greenhouse gases on global warming, standardized to the impact of carbon dioxide. GHG, or Greenhouse Gas emissions (such as carbon dioxide or methane released into the atmosphere) serves as a baseline for understanding and reducing an entity's contribution to climate change.

Raleigh's Greenhouse Gas Inventory

Raleigh **reduced community GHGs below 2007 levels** despite significant population growth:
21% GHG reduction per person

GHG emissions - from 2014 to 2022:

- Buildings & Energy - 26% decrease
- Transportation - 8% increase
- Waste - 11% decrease



Raleigh's most recent GHG inventory was completed in 2024 using 2022 data (the most recent data available). This graph shows Raleigh leading in GHG reductions compared to Charlotte and other larger cities. Raleigh's GHG inventory is also more recent (dates illustrate local governments' most recent GHG inventories).



3rd Annual Climate Action Implementation Report Highlights



Buildings & Energy

CCAP Strategies in Action:

- *Energy efficient buildings*
- *Greener energy supply options*
- *Renewable energy expansion and access*



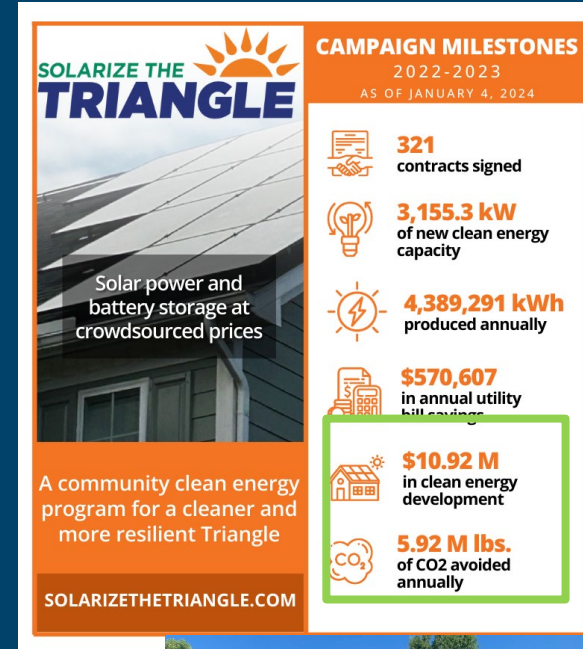
Buildings & Energy

Affordable Housing and Sustainability

- Sustainability & Housing partner on affordable housing developer applications including sustainability like rooftop solar and energy efficiency features
- Best practice *SystemVision* number of homes built: Wake County **719 homes and 574 in Raleigh** since 2001. Provides comfortable, ADA accessible, energy efficient homes and trains affordable housing contractors
- City solar installation on *Studios at 2800*: extended stay hotel serving income qualified residents

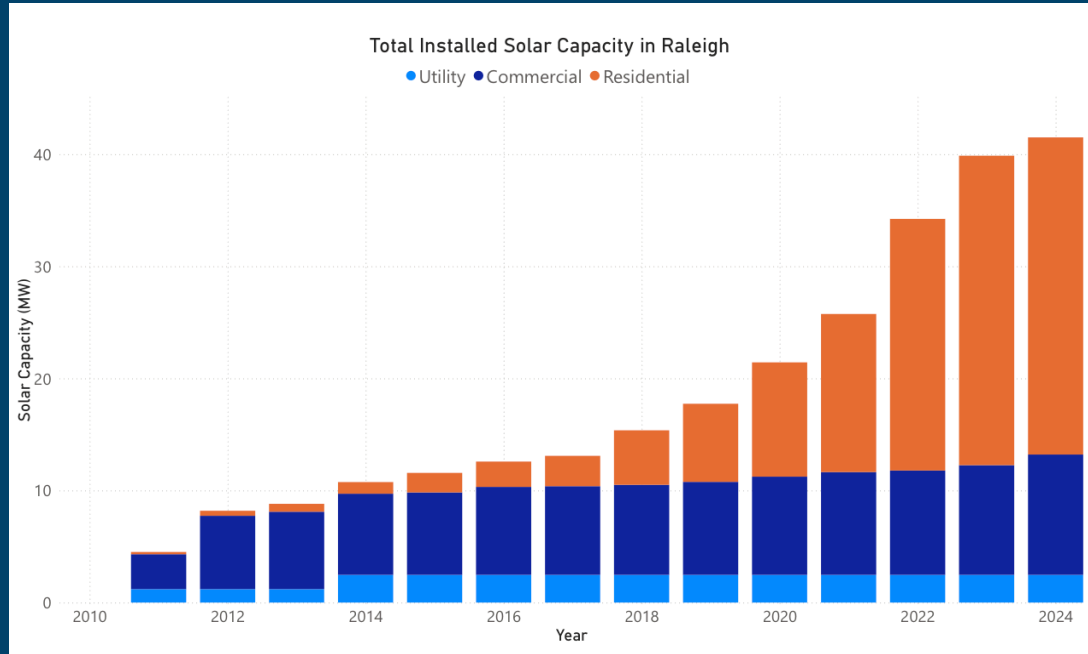
Solarize the Triangle & Low-Income Solar

- **1st of its kind** low-income solar pilot addressing energy burden; incentivizing solar for small-scale affordable housing projects
- **12 local governments; over 20 partners**, including equity, housing and LMI community based non-profit organizations
- Significant economic and GHG reductions impact region-wide



Buildings & Energy: Community Solar

Total Installed Solar Capacity in Wake County



Installed solar generation capacity has grown rapidly in Wake County over the last decade, with total capacity more than quadrupling over that span

Buildings & Energy

Raleigh's Solar Strategy criteria includes:

- GHG reductions, social advancement, accessibility, visibility and education, investment efficiency, leveraging of private funds, complexity, and feasibility (2025)

Solar installations at City Facilities

- Dix Park All Faiths Chapel: the newest solar installation!
- City Operations Centers: Solar installations at **3 City facilities** (ARPA funded). Expected to:
 - Have a combined **612kW generating capacity**
 - Create a **combined \$30,000 in energy savings** annually and about **1.2 million pounds of CO₂ reduction** annually

New Raleigh City Hall Sustainability Features

- LEED Silver standard; Consolidate staff and services from 5 different buildings; sustainable building design and programming throughout building and site



Credit: Integrated Facility Services Division

Buildings & Energy

Raleigh's Free Electric Tool Share Program

- Free rentals of electric yard equipment to Raleigh residents through Housing and Community Development
- Electric mowers, weed trimmers, and leaf blowers
- This program increases community access to clean energy, eliminates dependence on natural gas to power tools, and reduces GHG emissions and noise pollution



Bioenergy Recovery Project

- **Over 70** Raleigh buses use renewable natural gas from Raleigh's wastewater every day! This was a "moonshot" project identified in Raleigh's 1st ever *Climate Energy Action Plan* in 2012- with MUCH innovation and many LARGE collaborations, Raleigh made it happen! "From FLUSH to FUEL"



Transportation & Land Use

CCAP Strategies in Action:

- *Alternative transportation options & VMT Reduction*
- *EV infrastructure & innovative technology investments*
- *Connections between land use and active transportation options*



Transportation & Land Use

E-Bike Pilot Program

- Fall 2024 Launch - **over 200 vouchers distributed**
- **86% redemption** of low - middle income (LMI) voucher
- **Benefits:** local economic impact, bike shop partnerships, expand accessibility, reduce VMT
- **75% of incentive funding** will benefit community members at 80% area median income (AMI) or below

Active Transportation

- Shared mobility riders took **1.4 million trips** and traveled **1.7 miles** from 2021-2024 (potentially displacing 550,000+ vehicle miles)
- Active Mobility and Downtown Mobility Plans: Council presentation Fall 2025; revised bicycle and pedestrian plans with implementation prioritization

E-Bike Incentive Program



Emissions Impacts:
Improve access to zero-emissions transportation across Raleigh's communities



Economic Impacts:
Eligible retail partners must have brick-and-mortar locations in Raleigh, incentive funds stay in Raleigh



Equity Impacts:
75% of incentive funds will benefit community members at or below 80% of AMI



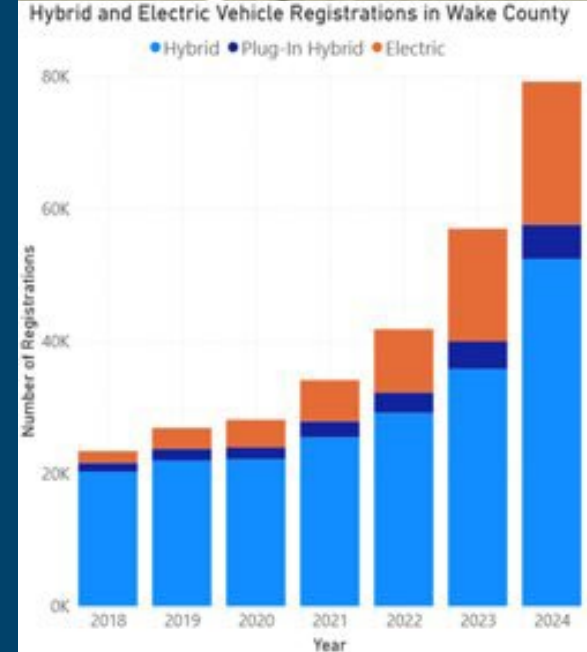
Transportation & Land Use

Community – EV and Infrastructure Expansion

- **400% increase** in EV charging stations (2012 -2024)
- **15,000+ growth** new electric and hybrid vehicles in Wake County since 2022
- EV Park and Rides and Public/Private Partnerships

City of Raleigh Fleet EV And Clean Transportation

- City of Raleigh Fleet - **#1 Fleet** in the US for leadership in sustainability (2023)
- Completion of Raleigh's EV Implementation Rollout Plan
- Of 2500+ vehicles in the City Fleet, **76%** use clean alternative fuels and **80 vehicles are EVs** (2025)
- Raleigh is the **1st** in NC to adopt clean renewable propane.
- *Clean Energy Depot* features solar, DC fast charging, and renewable fuels
- **12 Grants/funding** awarded totaling **\$5.3M** since 2022



Transportation & Land Use

Creating safer, more walkable and bikeable streets

- **Wake BRT:** The New Bern Corridor awarded its 1st construction contract. Section 1 construction to begin in late summer 2025
- **Pedestrian Passages and Crosswalks Text Change:** Creates safer crosswalks, safe pedestrian ways through parking areas, and incentivizes active transportation facilities.
- **Zoning:** Recent zoning changes allow more energy-efficient housing types, density, and walkability
- **Traffic Calming Policy:** 15 projects underway to reduce vehicles speed. **138 streets totaling 35 miles** treated as of 2024.



Resilience & Cross-Cutting

CCAP Strategies in Action:

- *Build resilience to climate change impacts*
- *Reduce waste and create efficiency*
- *Preserve and grow natural space & habitat*
- *Install green infrastructure*
- *Cultivate opportunities for environmental justice, health & social advancement*
- *Seek creative funding opportunities & partnerships*
- *Innovate and pilot new ideas & technologies*



Resilience & Cross-Cutting

The Workforce- The Great Raleigh Cleanup and City of Raleigh Beautification Program

- The Great Raleigh Cleanup + A Place at the Table + over 16 City Departments
 - Employed **over 60 individuals** and **paid over \$50,000** in wages
 - **95+ beautification projects** in FY25
 - **Removed over 50,000 lbs of litter** June 2025
- Created opportunities for individuals experiencing homelessness to access income and resources



Creating Efficiencies for Waste Reduction

- Yard Waste Center produces organic compost and is in very high demand with the public
- Solid Waste Services preparing site upgrades to launch a food waste processing pilot in 2026
- New yard waste carts resulted in a **39% increase in yard waste pickups** by the City



Resilience & Cross-Cutting

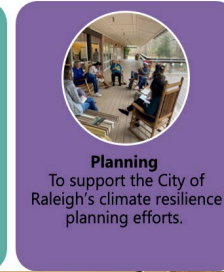
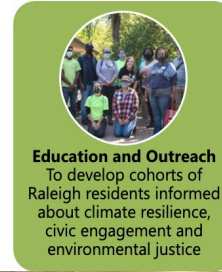
Stormwater Green Infrastructure Projects & Programs

- Rainwater Rewards 2024: **267 consults, 35 projects** approved **totaling \$570,000**
- Raleigh Stormwater launches new public portal to empower and educate residents on flood risk

Community Climate Education for a Resilient Raleigh

- NOAA grant: City partners: Partners for Environmental Justice, NC State Climate Office, and many departments
- Heat and flooding learning networks: educated **over 100 residents** in climate resilience
- *Ready Raleigh Guide*: building social cohesion and encouraging emergency preparedness
- *Resident engagement*: *informing* Reflecting Raleigh community engagement and data collection

Community Climate Education for a Resilient Raleigh



Resilience & Cross-Cutting

Green Space, Pollinator Habitat, & Food Security

- Street Tree Expansion: **1,048 trees** planted where streets lacked tree canopy or experienced high heat
- Food Security & Summer Feeding: City partnership with Wake County Child Nutrition Services: **over 26,000 meals** for kids at **13 summer camp locations** 2024
- Biophilic City: **6,209 acres** of parkland, and **118 miles of greenways** in Raleigh's biophilia
- Bee City & Monarch Waystations: Raleigh parks and greenways maintain wildflower habitat and pollinator health at **30+ sites** and **90+ pollinator preserves**
- Community Gardens: **2 new gardens** installed in 2024 in partnership with Inter-Faith Food Shuttle and Wake County Master Gardeners



Resilience & Cross-Cutting

Funding, Innovation, Pilots, Education:

- **Earth Day & Environmental Awards** hosted **2000+ attendees** + record-breaking nominations. 2025 City Awardees:
 - Neighborhood Services Division – Community Engagement Department + Pathways to Public Service Fellows + Urban Sustainability Solutions + Rainwater Rewards
- **Sustainable Neighborhood Toolkit & Sustainable Business Toolkit** expansion
- **Climate Action Fund:**
 - Electrifying the Pullen Park Train, Clean Energy Mural, Neighborhood Climate Action Fund, Rainwater Rewards, Pollinator Protection Outreach, Solar at Durant Nature Preserve, Anti-idling Training, and more!



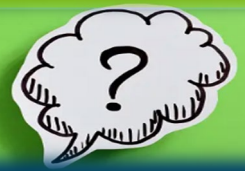
Future Highlights for Climate Action

We've got more sustainable solutions and collaborative partnerships coming this year!


- Expansion of community Solarize the Triangle program - "Electrify the Triangle"
- **Resilience Hubs Pilot:** Utilizing Parks facilities to serve as community hubs for advancing mental, physical, and environmental health and well-being
- **Resilient Homes Pilot:** Sustainability in Affordable Housing
- **Organics Management Pilot:** Evaluating opportunities to reduce waste going to landfill such as food composting
- **EV transitions:** Fleet, transit, and public access
- **Solar investments** and **energy efficiency** improvements
- Staff continues to partner with the community to identify climate actions that cultivate **health, access, resilience, and environmental, economic, and social advancement**







Climate Action happens thanks to Raleigh's Community and Partners!



The Workforce Program Uplifts and Cleans our Community

 **City of Raleigh**
6.73K subscribers

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*Storytelling Video Example:
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