



# CHARLOTTE

Strategic Energy Action Plan (SEAP) Update  
October 7, 2024



# Strategic Energy Action Plan



# Green Prints



# Related Plans & Initiatives





# Our Path

## 2018 - Foundation

- Resolution
- SEAP
  - *ADD GOALS*

## 2019-2023 - Implementation

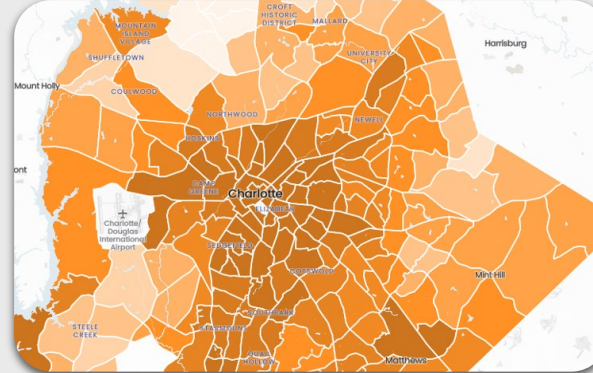
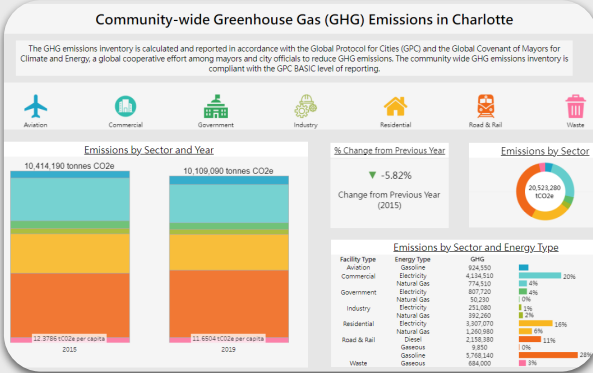
- Policy
- Projects
- Programs

## 2024 – Alignment + Update

- Latest Science
- New Citywide Plans (e.g. Charlotte Future 2040, Strategic Mobility Plan, Tree Canopy Action Plan etc.)
- Community priorities as reflected by City Council



# SEAP UPDATE



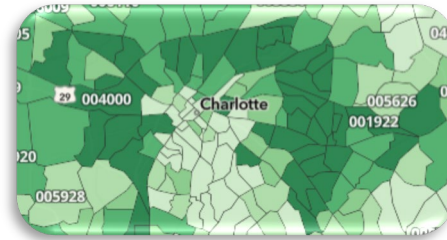
**Update GHG Inventory**  
*In progress*

**Climate Risk Assessment**  
*In progress*

**Updated SEAP Document**

**Equity, Latest Science, and Technology Embedded Throughout**

# PROJECT TIMELINE



## PROJECT INITIATION

Includes:

- Finalized Project Team
- Review of SEAP Actions-to-Date
- Project Kickoff

## PHASE 1 SUMMER 2024

Includes:

- Updating GHG Emissions Inventory
- Climate Risk Assessment
- Community & Technical Advisory Engagement

## PHASE 2 SUMMER/FALL 2024

Includes:

- Finalize GHG Emissions Inventory
- Finalize Climate Risk Assessment
- Updating goals
- Reviewing Action Areas & tasks
- Identify Milestones
- Public Engagement

## PHASE 3 WINTER 2024-2025

Includes:

- Wrapping up Public Engagement
- Final Review
- Council Review & Adoption

**TARGET ADOPTION: MARCH**

# CLIMATE RISK (PRELIMINARY INFORMATION)

The outlined approach aligns with the framework from C40 Cities and Global Covenant of Mayors guidance. This information connects our mitigation efforts to the future impact and offers insights for additional communitywide action areas that support climate adaptation.

## Highest Climate Risk Areas for Charlotte:

Extreme Heat  
Precipitation



Severe Thunderstorms



Urban Flooding



## All Climate Risks Reviewed:

- Extreme Heat
- Precipitation
- Drought
- Water Stress

**Chronic  
(Stressors)**

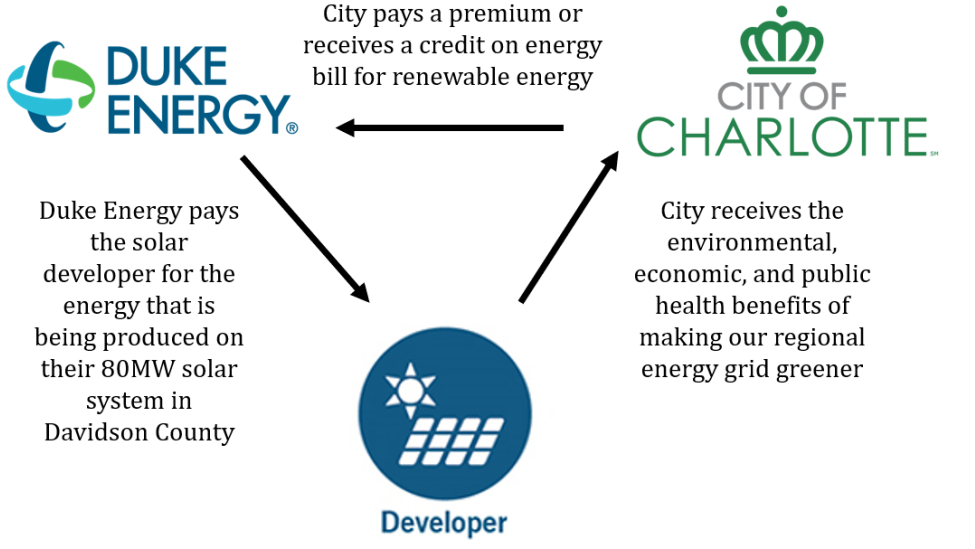
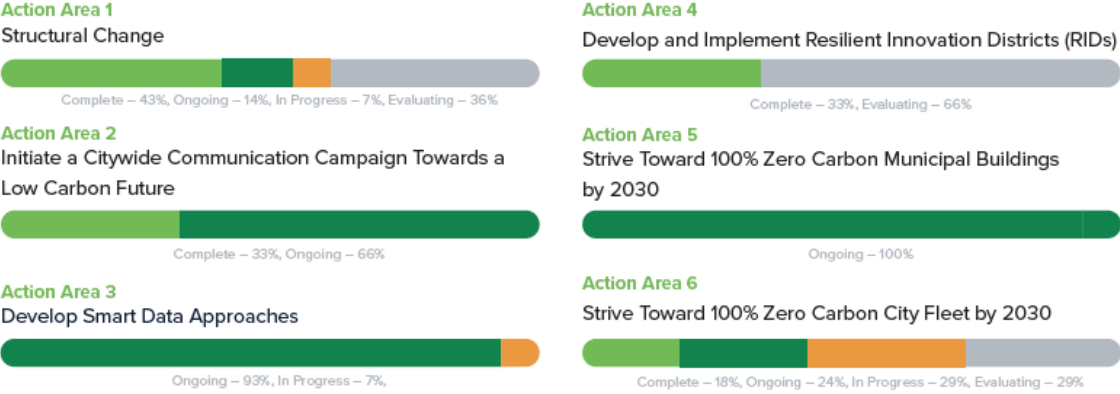
- Severe Thunderstorms
- Hurricanes/Tropical Cyclones
- Urban Flooding
- Wildfire

**Acute  
(Shocks)**

# We are starting from a strong position...



## City Policy Actions



Complete + Ongoing  
58% of tasks



In Progress  
22% of tasks



Evaluating  
21% of tasks



# And continue to measure impact.



## Community-wide numbers:

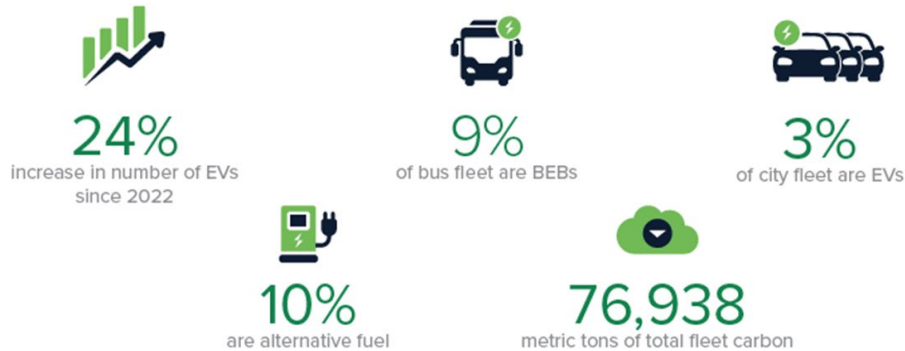
- **LEED-certified** – 16 buildings certified or recertified in 2023.
- **EnergyStar-certified** – 86 buildings certified or recertified in 2023.
- **Green Globes-certified** – four buildings certified in 2023.
- **A total of 876 projects** community-wide have received green building certification.

## Two city buildings became LEED-certified in 2023:

- **LEED Silver** - Charlotte Water Zone 4.
- **LEED Gold** - for existing buildings – Charlotte Convention Center.

## Charlotte fleet demographics:

EVs are electric vehicles. Alternative fuel refers to hybrid vehicles and vehicles that use a fuel source that is not gasoline or diesel.



**CO<sub>2</sub> AVOIDED: 1,551 METRIC TONS**

\*1 metric ton of CO<sub>2</sub> = 2,564 miles driven by an average gasoline-powered passenger vehicle.

Charlotte's fleet avoided **43%** more carbon than last year.

## Solar Photovoltaic (PV)

Solar photovoltaic systems convert the sun's energy into clean, renewable electricity. Solar capacity includes the maximum output or generation anticipated for a solar PV system.



**90%** increase in the number of citywide solar PV systems in operation since 2022.  
**59%** increase in citywide solar PV capacity in operation since 2022.

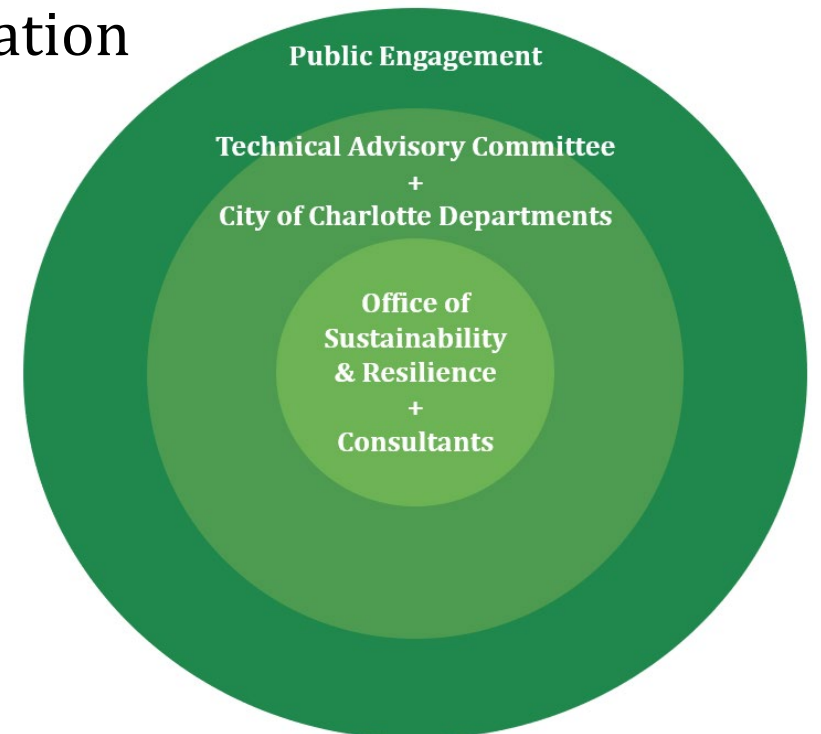




## Community Engagement

### Engagement Underway:

- ✓ Leveraged Community Area Planning meetings
  - ✓ Virtual Representation
  - ✓ In-person Representation
- ✓ SEAP Awareness Survey
- ✓ Technical Advisory Committee
- ✓ Newsletter
- ✓ Pop Up Events



# Coming Up

## ◀ Kick off meeting:

- Scheduled for Thursday, November 21, 2024, 5:30-7:30pm.

## ◀ Take the survey

- <https://publicinput.com/charlottesep>



# Upcoming work:



Finalize GHG Emissions Inventory and Climate Risk Analysis.



Identify and/or confirm Action Areas and associated tasks.



Identify and update goals with associated interim milestones.



Review and adoption of SEAP+.

# Strategic Energy Action Plan



# Green Prints



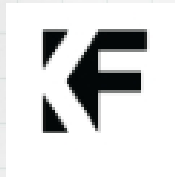
# Related Plans & Initiatives



## Corridors of Opportunity GreenPrints – Deployment

- Create GreenPrints for each of the 6 Corridors
- Initial Kick-off Project in Beatties Ford and Freedom/Wilkinson Corridors
- Roll documents into existing Playbooks
- Formally include in Strategic Energy Action Plan (SEAP) during update





# Lead Partners

- CleanAIRE NC
- Sol Nation
- ***Knight Foundation***
- City of Charlotte
  - Office of Sustainability & Resilience
  - Corridors of Opportunity
- **Community stakeholders**

# Corridors of Opportunity GreenPrints – What Are They?

Strategies that identify Actionable Projects, Programs, Partnerships and Efforts that **align** to improve:

- Urban Cooling – including tree canopy
- Sustainable Housing
- Flood Mitigation
- Clean Air & Sustainable Transportation
- Legacy Pollution, and/or
- Other Environmental Justice and Sustainability topics.





Home Rehab & Energy  
Efficiency Updates



Tree Canopy & Urban Heat  
Mitigation



Sustainable Infrastructure

# Potential Implementation Projects



# GreenPrints Public Kickoff

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GREENPRINTS KICKOFF

## A GREENER FUTURE FOR CHARLOTTE

STARTING IN THE BEATTIES  
FORD/ROZZELLES FERRY AND  
FREEDOM/WILKINSON CORRIDORS



REGISTER FOR KICKOFF HERE

Join us Saturday, October 19th, 9am - 2pm at  
UNC Charlotte's Dubois Center



### WHAT ARE GREENPRINTS?

GreenPrints are community  
formed blueprints for  
environmental justice and



### WHY GREENPRINTS MATTERS

This initiative aims to advance  
equitable climate action  
projects by aligning with the



### HOW GREENPRINTS WORKS

GreenPrints will be developed  
with communities for all six of  
the Corridors of Opportunity to

**Thank you**