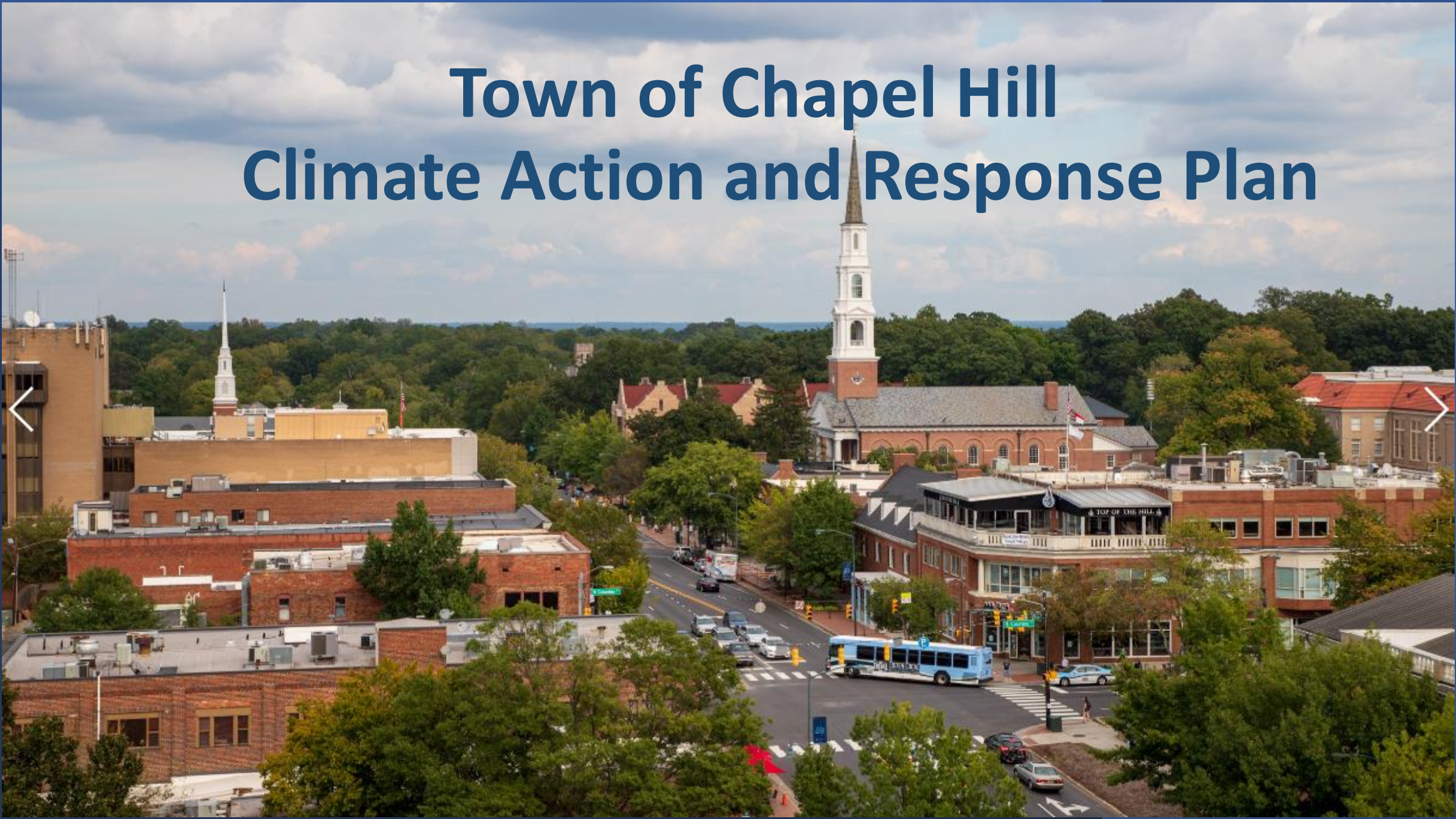


# Town of Chapel Hill Climate Action and Response Plan



**What's the context for  
climate action in Chapel Hill?**



## Town of Chapel Hill Climate Action and Response Plan



Town Council adopted  
the plan in 2021

Received a 2-year  
implementation plan

Authorized an annual  
\$470k climate budget  
for FY 2022

FY 2023 annual budget  
increased to \$550k

# Town & Community Climate Goals

**50%**

Emissions reduction by  
2030

**80%**

Clean, renewable  
energy by 2030

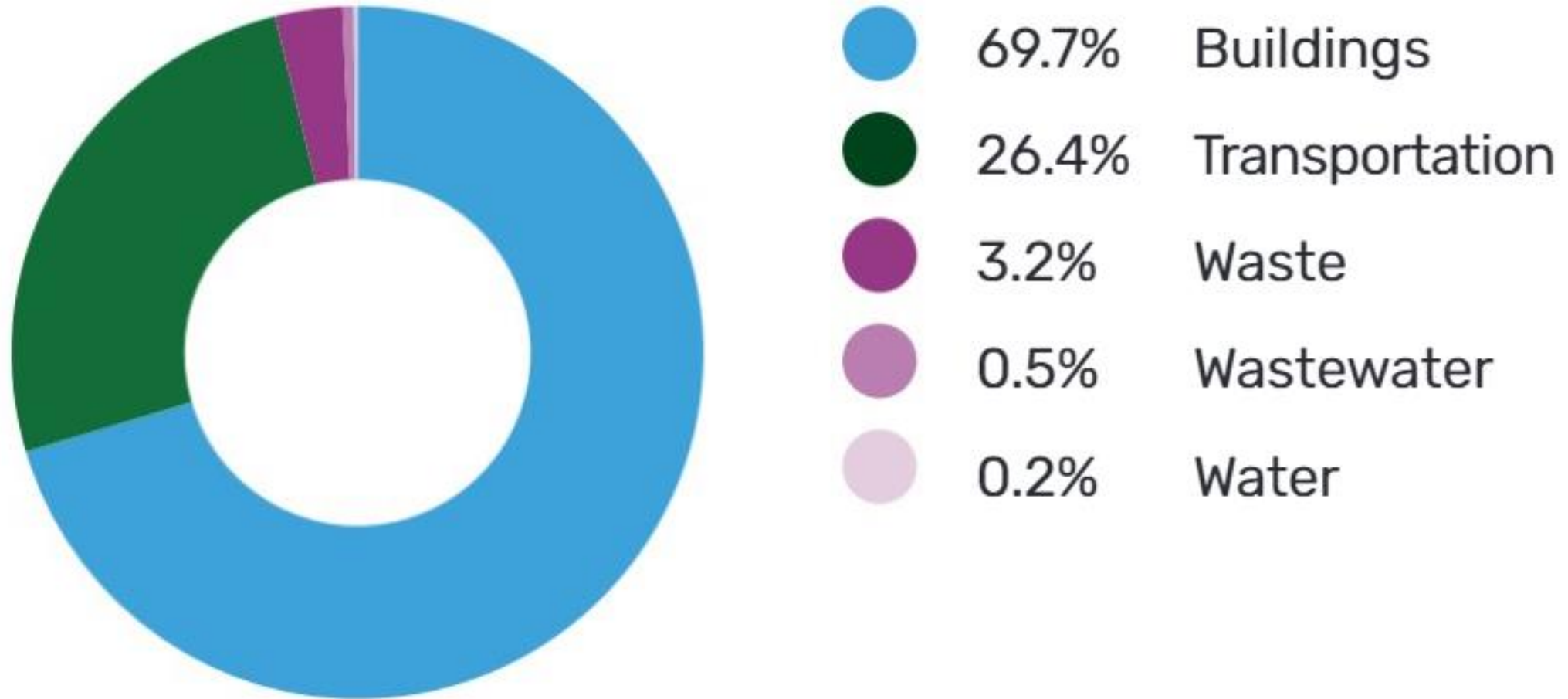
**Net-zero**

By 2050

**100%**

Clean, renewable  
energy by 2050

## Community GHG Emissions by Sector

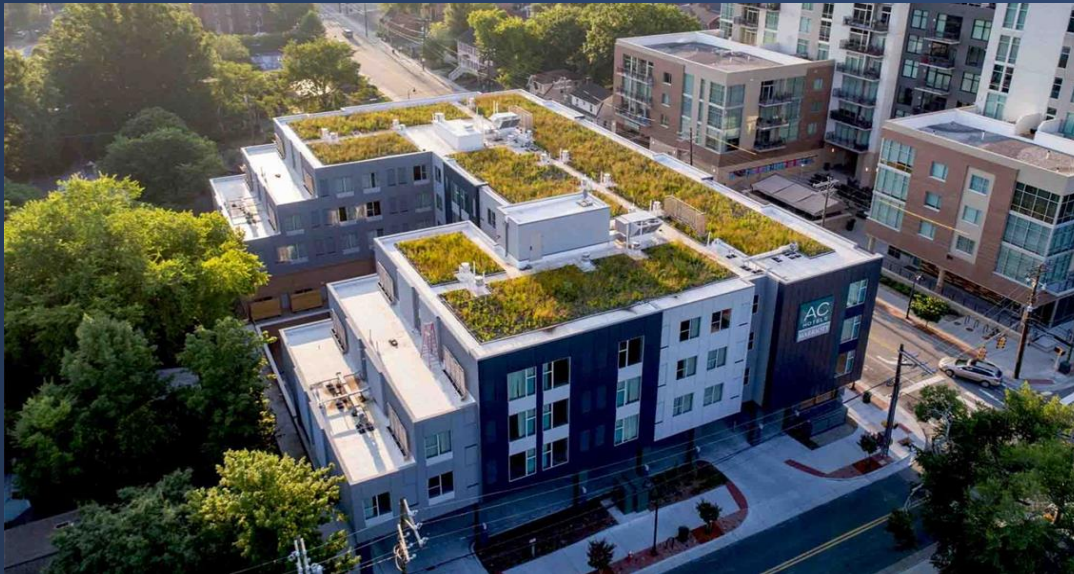




**1. Green the grid ▼ 30-31%**



**2. Sustainable transportation ▼ 12-13%**



**3. Sustainable development ▼ 11%**



**4. Green building retrofits ▼ 6-7%**

# Recent Climate Action Highlights



**1. Green the grid ▼ 30-31%**





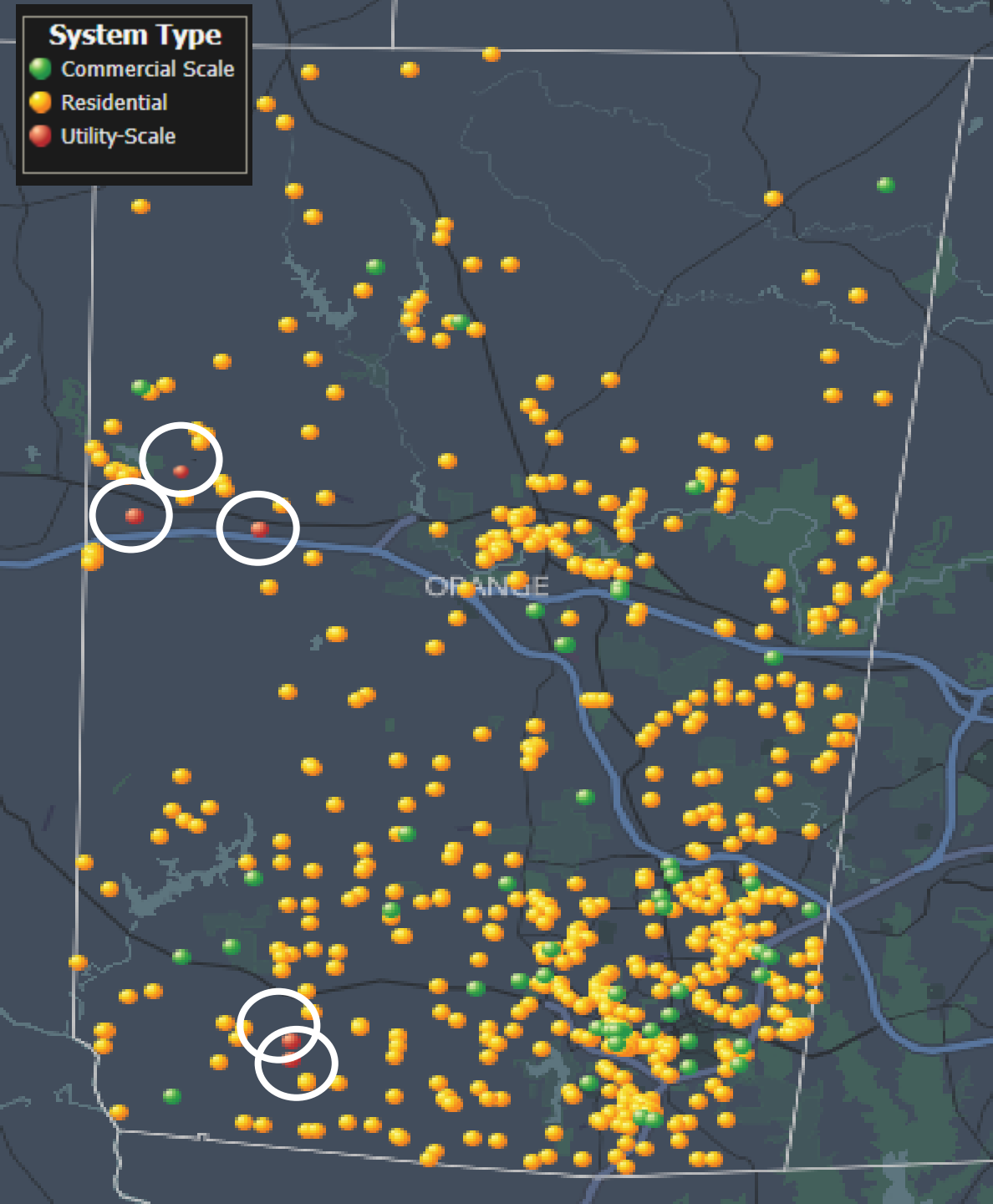
## Interested in Going Solar?

**Want to save on the cost of solar and have the support of experts in installing the right solar energy system for you?**

**The Town of Chapel Hill** is a community partner of [Solarize the Triangle](#), a community-based group-purchasing program for solar energy, battery storage, and other clean-energy technologies that helps Triangle homeowners, businesses, and nonprofits become more resilient, reduce energy expenses, and save on the cost of renewable-energy systems by obtaining volume discounts on materials and installation services — the more property owners who purchase renewable energy systems, the lower the price to all buyers – through the power of purchasing together.

Solarize the Triangle is led by TJCOG through the [Triangle Sustainability Partnership](#) and [Solar Crowdsourcing](#), a group of local governments, nonprofits, and advocates working to make solar power more affordable and accessible in the Triangle.

**Goals of the Solarize Chapel Hill campaign are to:**



# Solar in Orange County

800+ solar installations

26+ MW total solar capacity

20+ MW utility scale solar capacity

4% of electricity is clean, renewable

5 MW of new solar offsets all electricity use from Town operations



August 23, 2022

North Carolina Utilities Commission  
c/o Shonta Dunston, Chief Clerk  
Dobbs Building, Fifth Floor  
430 North Salisbury Street  
Raleigh, North Carolina 27602

Re: Comments of North Carolina Local Governments on Duke Energy's Proposed Carbon Plan;  
Docket No. E-100, Sub 179

Dear Chair Mitchell and Commission Members,

The Town of Boone, Town of Chapel Hill, Chatham County, City of Durham, City of Greensboro, Town of Hillsborough, Town of Matthews, and the City of Raleigh (subsequently referred to as "the undersigned") respectfully submit the following comments and recommendations on the proposed Carbon Plan filed by Duke Energy on May 16, 2022 to the North Carolina Utilities Commission (NCUC). These comments are the product of ongoing discussions with dozens of North Carolina local governments, including but not limited to the signatories of this letter, as a collective effort to advance our governments' renewable energy and greenhouse gas (GHG) reduction targets. We welcome the opportunity to collaborate and further discuss any of the issues described herein with the Commission.

# Duke Energy Carbon Plan

## August 23<sup>rd</sup> Joint Letter to NCUC

### Key Interests:

1. 70% carbon reduction by 2030
2. More energy savings programs
3. Rapid decline of fossil fuels
4. Ramp up renewables



**2. Sustainable transportation ▼ 12-13%**



## Legend

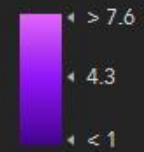
### EVSE Candidates stakeholder - EVSE Candidates

Please select your organization.

- Chapel Hill
- Carrboro
- Hillsborough
- Orange County
- UNC

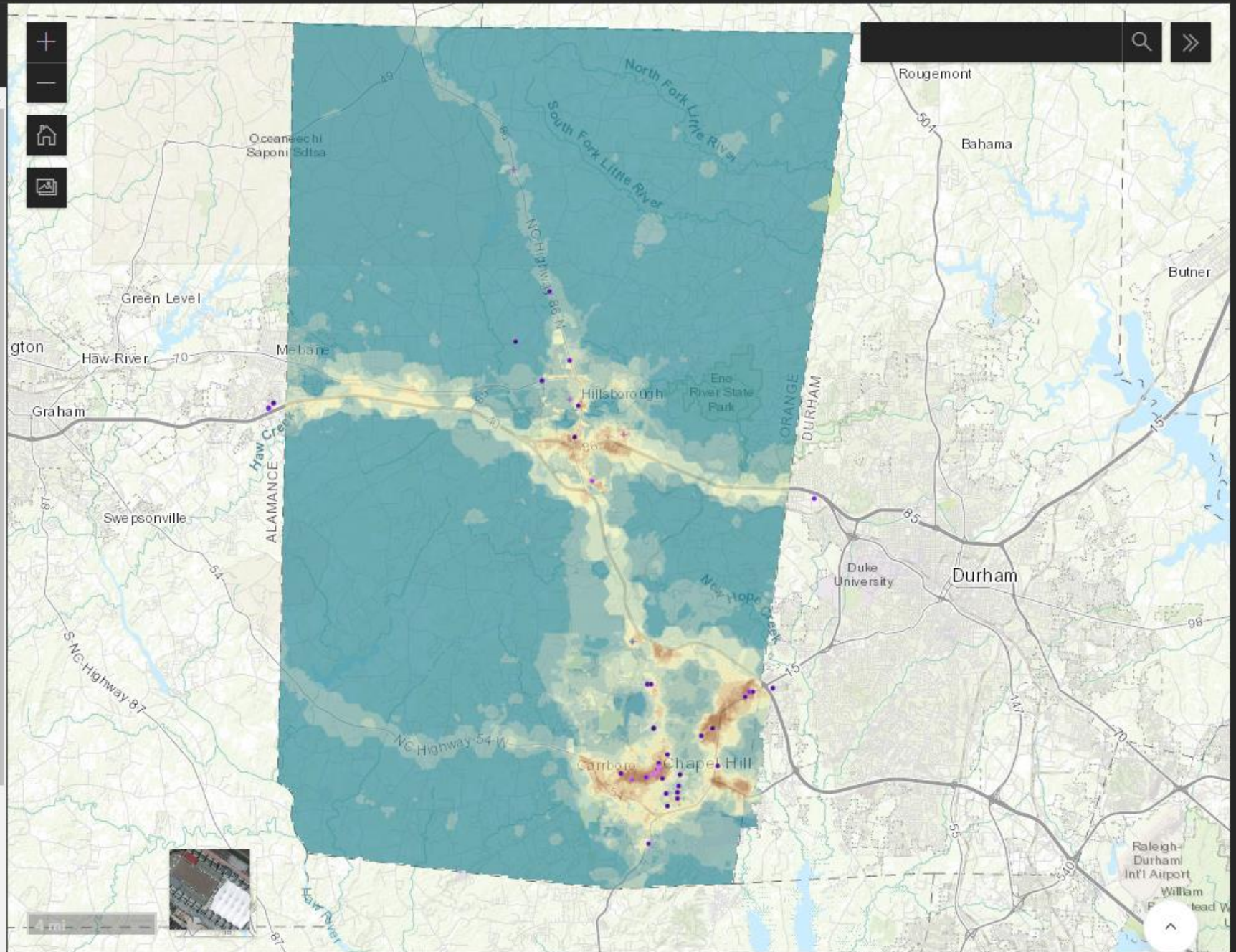
### Existing EVSE

EV Level2 EVSE Num



### Final EVSE Suitability Surface

- 5.25 - 6.832 | More Suitable
- 4.5 - 5.25
- 4 - 4.5
- 3.25 - 4
- 2.75 - 3.25
- 2.5 - 2.75



# Mobility Plan Updates

**Old Durham-Chapel Hill Rd bike lanes, sidewalks**  
(largely done, finalizing punch list)

**Ephesus Church Rd bike lanes**  
(installed, sidewalk needs funding)

**Wayfinding Strategy**  
(anticipated final plan by October)

**Estes Dr Connectivity Project**  
(anticipated completion 9/2023)





**4. Green building retrofits ▼ 6-7%**

# Library LED Upgrade

18-month payback

\$23k in annual savings

206 MTCO<sub>2</sub>e avoided/year





**Environmental Stewardship  
Advisory Board**  
Electrification Petition

# Staff Recommendation to Council

1. Update Council's Green Building Ordinance for Town buildings to require electric heating\*
2. Update Council's Green Building Policy Framework for private development to encourage and incentivize electric heating\*
3. To the greatest extent possible/practical, the Town will lease buildings with electric heating\*

*\*and/or another clean, renewable energy source; heating includes cooking, heating of space and water, etc.*

# Staff Recommendation to Council

If the previous recommendations are agreeable to Council, we will plan to return in **February 2023** with actionable items:

- *Amendment to Green Building Ordinance for Town buildings (ordinance)*
- *Amendment to Green Building Policy for development (resolution)*

**Next Information Item Update:**  
December 2022

John Richardson  
Community Sustainability Manager

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