



Draft Climate Action & Response Plan

November 16, 2020





SUSTAINABILITY

Climate Action Plan



Overview

1. Key Findings
2. Progress on Climate Action
3. Next Steps
4. Questions



1. Key Findings

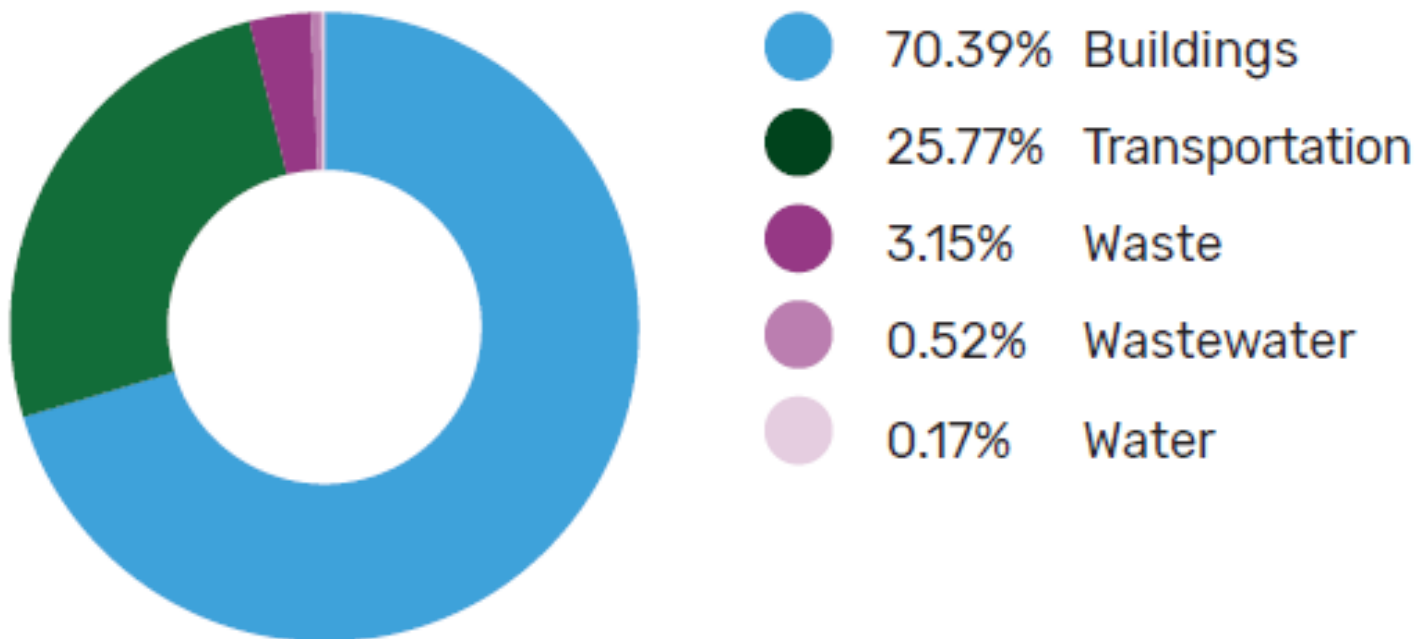
Chapel Hill Municipal and Community Emissions

Community	547,589
Municipal	12,378
UNC	377,118
Total	937,085

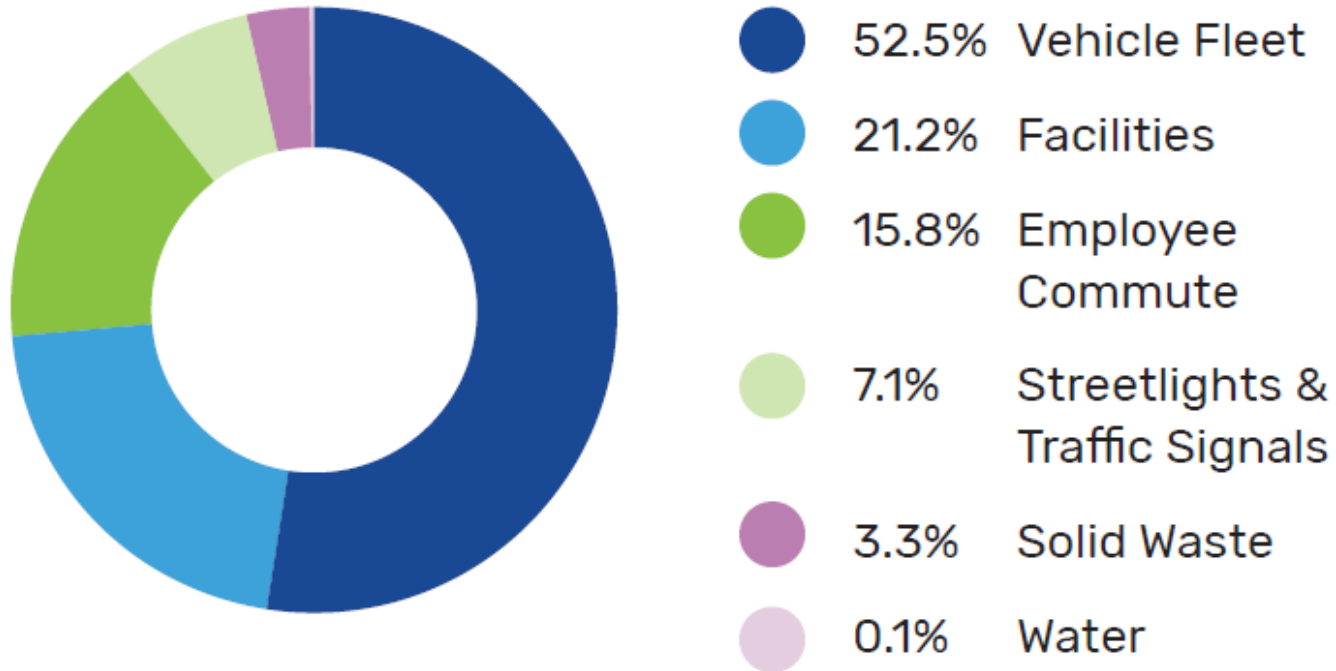
Scope 1 and 2 emissions



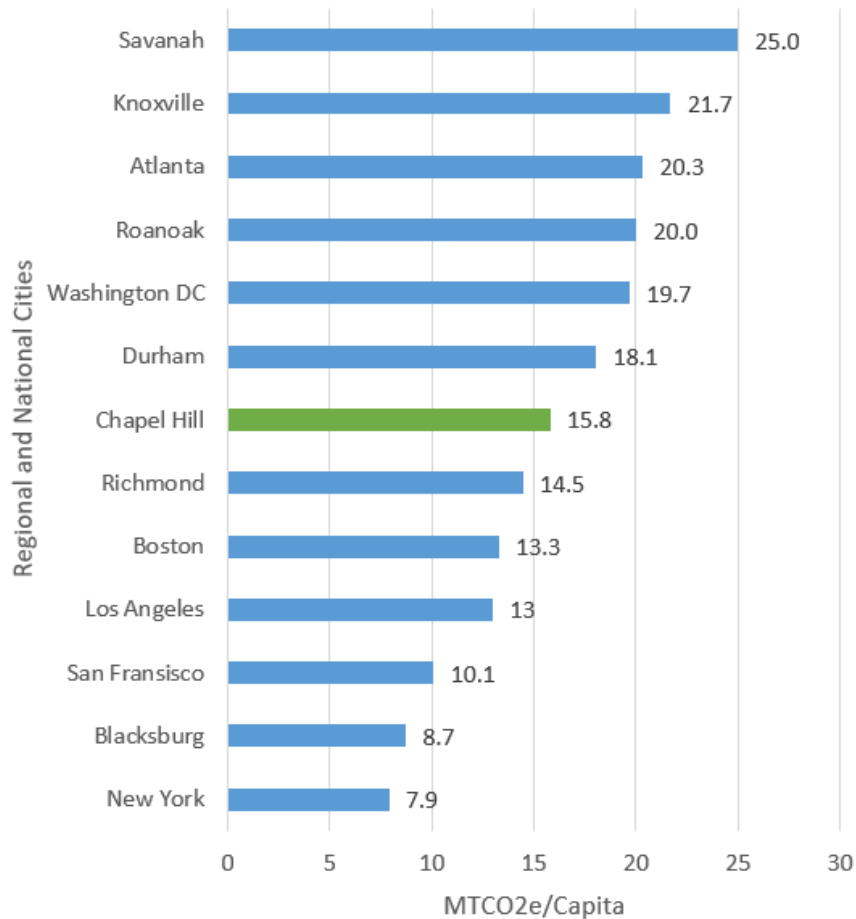
Community GHG Emissions by Sector



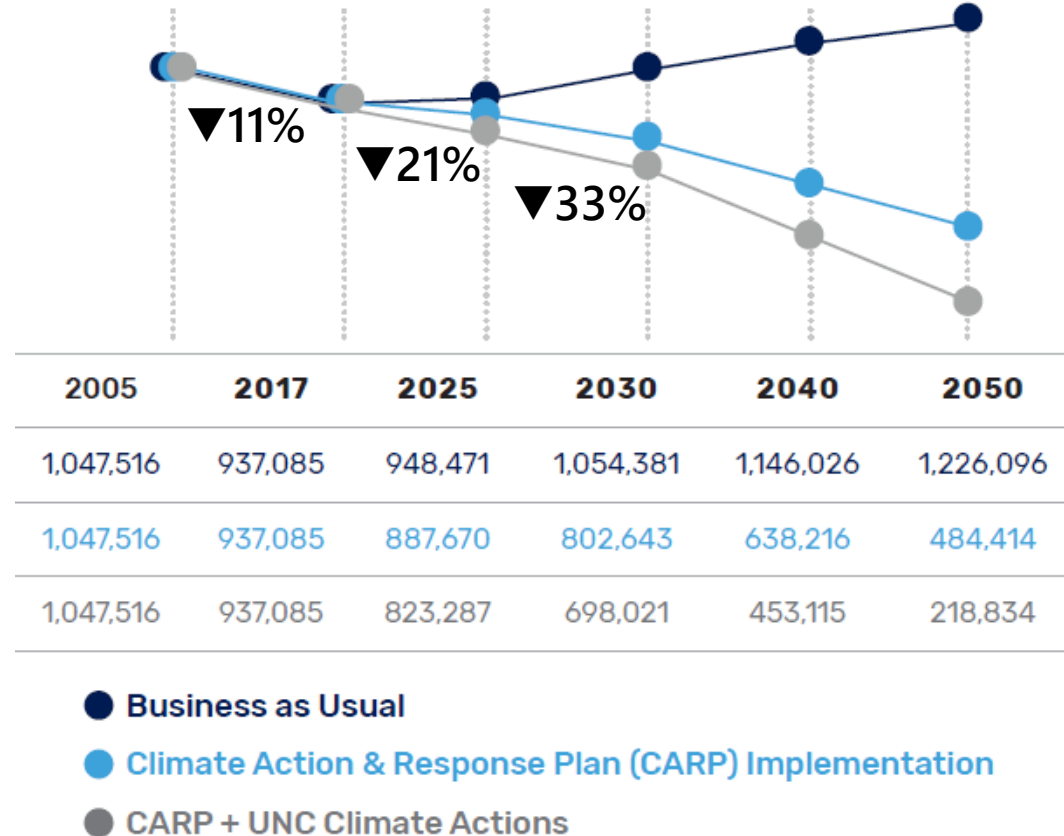
Municipal GHG Emissions by Sector



Community Carbon Intensity



GHG Projections



**What actions will lower
emissions the most?**



1. Greening the grid ▼29-30%



2. Sustainable development ▼10%



3. Electric vehicles ▼8-9%



4. Green building retrofits ▼6-7%

1. Greening the grid ▼29-30%



Actions

Advocacy

Community Scale Solar

Targets

Utilities: net zero
emissions by 2050

Duke Energy +
Dominion Energy

2. Sustainable development ▼10%



Actions

Council energy policy 2.0

Plan for walkable, transit-served neighborhoods

Targets

100% net zero emission development by 2030

More walkable, transit-served areas by 2050

3. Electric vehicles ▼8-9%



Actions

Deploy EV charging network

Electrify Town fleet

Targets

Level 2: 629 public, 761 private

Level 3: 99 public by 2050

Electrify 48 Town passenger +
light duty vehicles by 2040

4. Green building retrofits ▼6-7%



Actions

Retrofit existing buildings

Retrofit Town facilities

Targets

Convert 20k buildings to all-electric by 2050

Halfway to net zero by 2050:
15% commercial, 30%
residential, 100% Town buildings

5. Sustainable Transportation ▼3-4%



Actions

Bus Rapid Transit + e-buses

Mobility Plan build-out

Targets

Implement North-South
BRT + 10 e-buses by 2040

Implement Mobility Plan by
2035 and achieve 33% walk-
bike-bus travel by 2050

Taking Action Together



**Buildings
& Energy**



**Transportation
& Land Use**

95% of Community emissions














**Waste, Water
& Other**














Resiliency

TOWN ACTIONS

-  Green building policy
-  Green municipal buildings
-  Municipal green retrofits and incentives
-  Creation of walkable, transit-served neighborhoods
-  Commute mode shift (walk, bike, transit)
-  Electrification of municipal fleet
-  Electrification of transit buses
-  Increase (fare-free) transit service
-  Protect water quality, natural, and agricultural resources
-  Green Infrastructure
-  Early warning systems for climate hazards and heat

COMMUNITY ACTIONS

-  Community green building for new construction
-  Community green building for retrofits
-  Building conversion to all electric
-  Greening of the grid
-  Community renewable energy
-  Electric vehicle charging
-  Transportation Demand Management
-  Zero waste
-  Resiliency and recovery
-  Climate action education, outreach, and awareness
-  Partnerships, funding, and incentives

**What have we heard from
the public so far?**

Big Takeaways

- Challenges: accessibility, affordability, control
- Needs: Incentives, partnerships and advocacy

Town Focus:

- Plan for less driving, more walk-bike-bus travel
- Build more climate-resilient infrastructure
- Adopt climate-smart development rules

2. Action Updates

LED Streetlights

Lowering these emissions by 50%

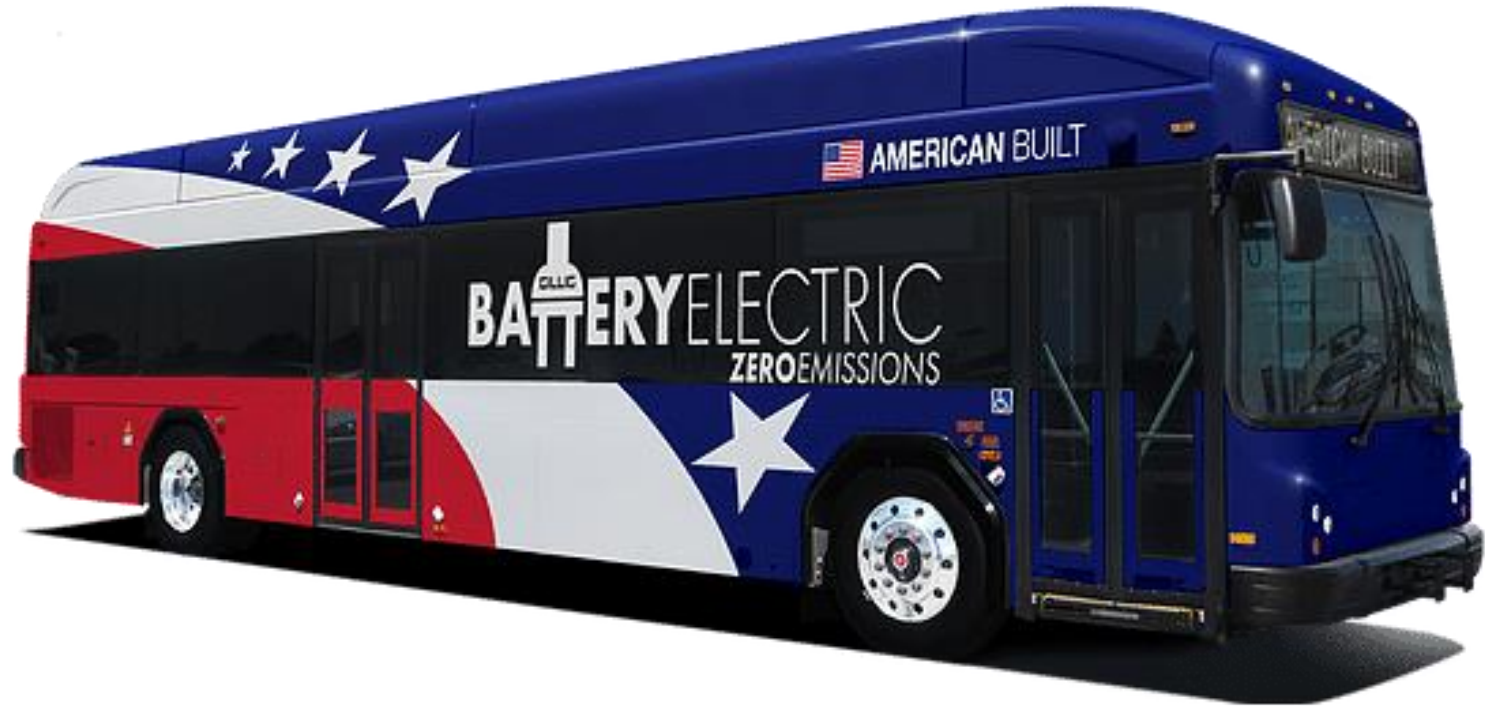


LED Park Lighting



Town of Chapel Hill | 405 Martin Luther King Jr. Blvd. | www.townofchapelhill.org

Electric Buses



EV Charging



Image courtesy of Wisconsin Public Radio



Tree Planting

Booker Creek Storage Basin



3. Next Steps

Next Steps

- Share the draft plan for public input (*November*)
- Meet with advisory boards to share draft plan (*November-December*)
- Finalize draft plan for Council review (*November-December*)
- Council considers plan adoption (*January*)



4. Questions

**What does climate action
mean to this board?**

**What do you want to see
in this plan, and why?**



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