



Progress Report on Climate Action Plan

October 21, 2020





SUSTAINABILITY

Climate Action Plan



Overview

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



Recommendation

That the Council receive the report and provide additional direction, as needed.



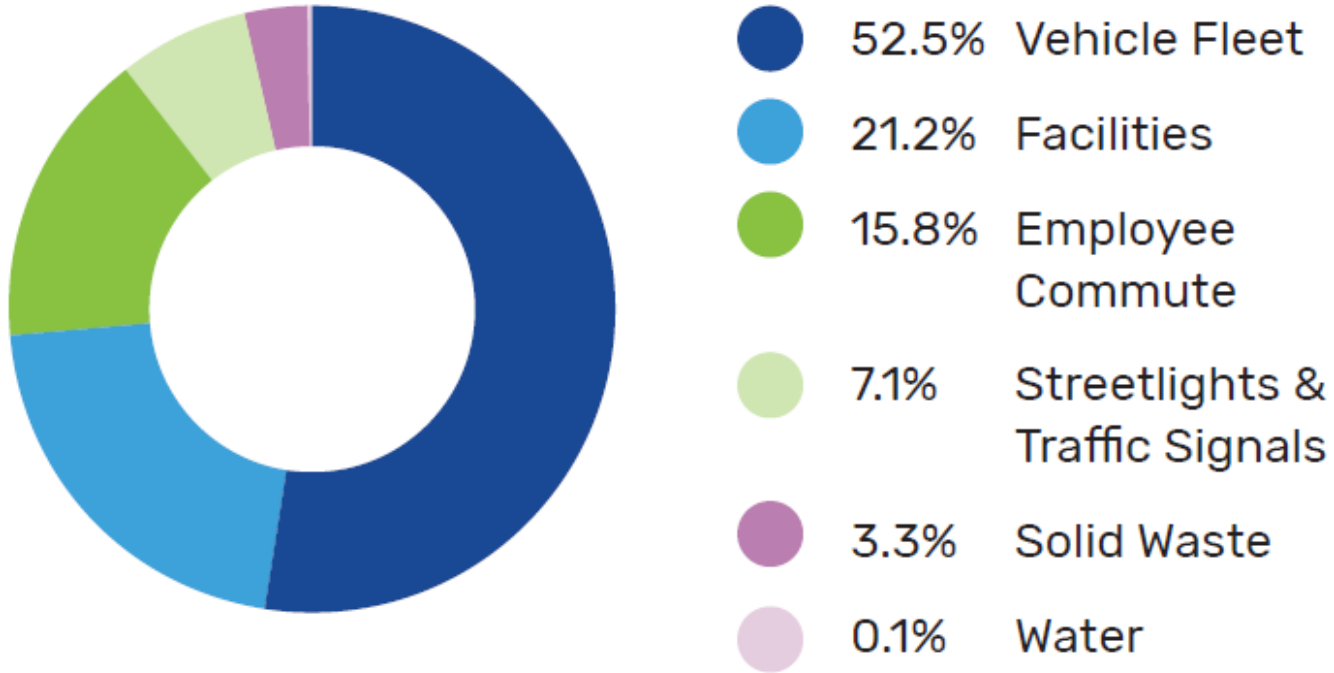
1. Key Findings

Community Emissions

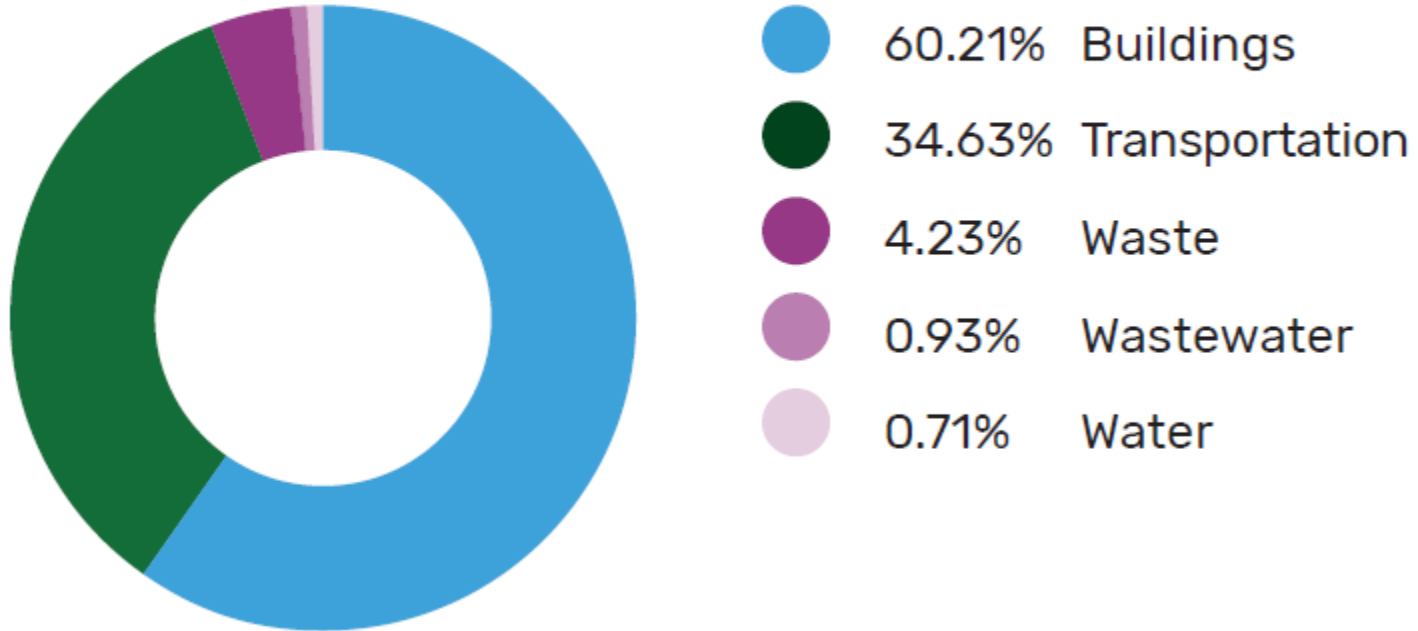
● Community	458,839
● Municipal	16,617
● UNC	239,871
Total	698,710



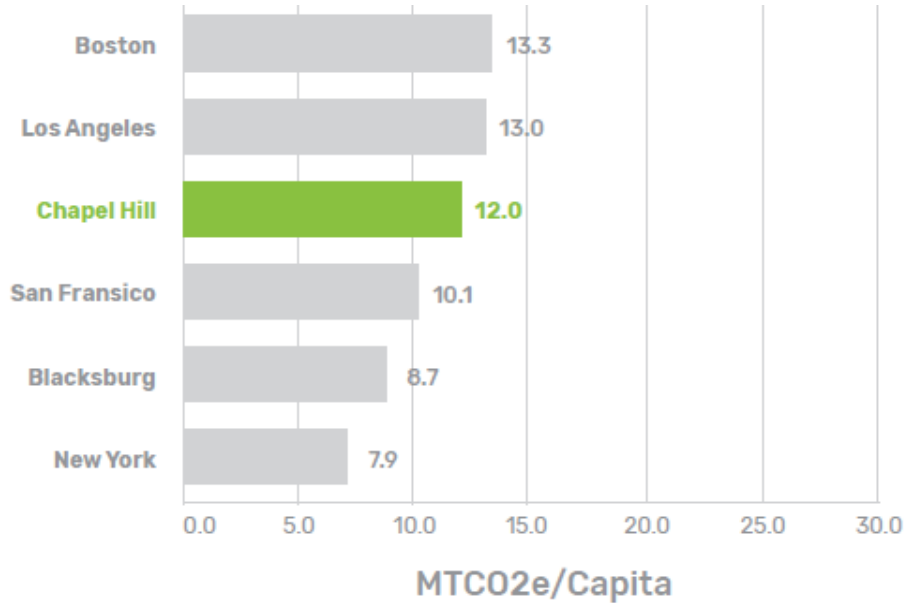
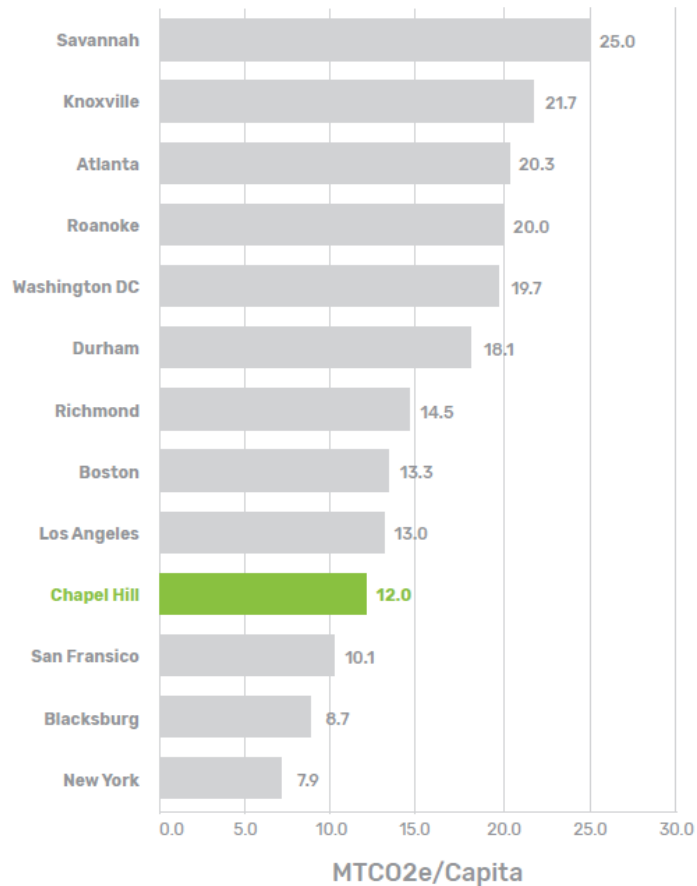
Municipal GHG Emissions by Sector



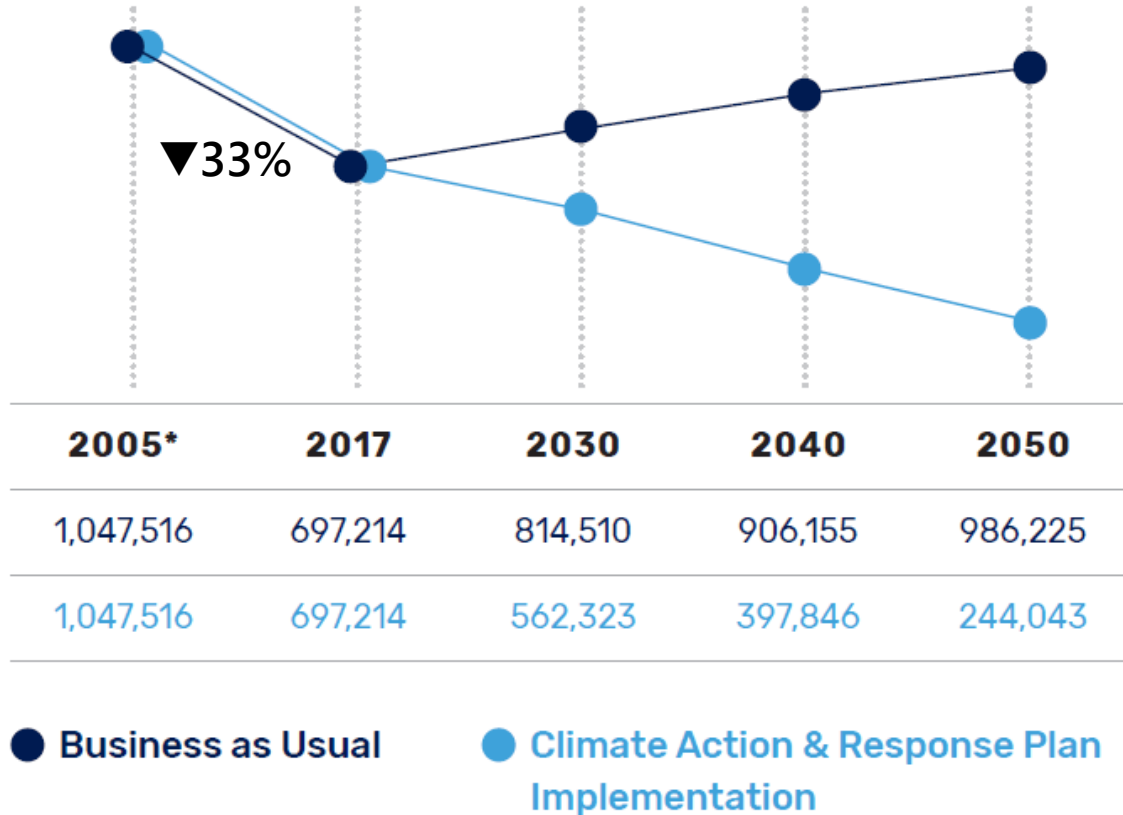
Community GHG Emissions by Sector



Community GHG Intensity Compared



GHG Projections



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



1. Greening the grid ▼38%



2. Sustainable development ▼14%



3. Electric vehicles ▼11%



4. Green building retrofits ▼8%

1. Greening the grid ▼38%



Actions

Advocacy

Community Scale Solar

Targets

Utilities: net zero
emissions by 2050

Duke Energy +
Dominion Energy

2. Sustainable development ▼14%



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 ▼11%



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 ▼8%



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 ▼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

**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

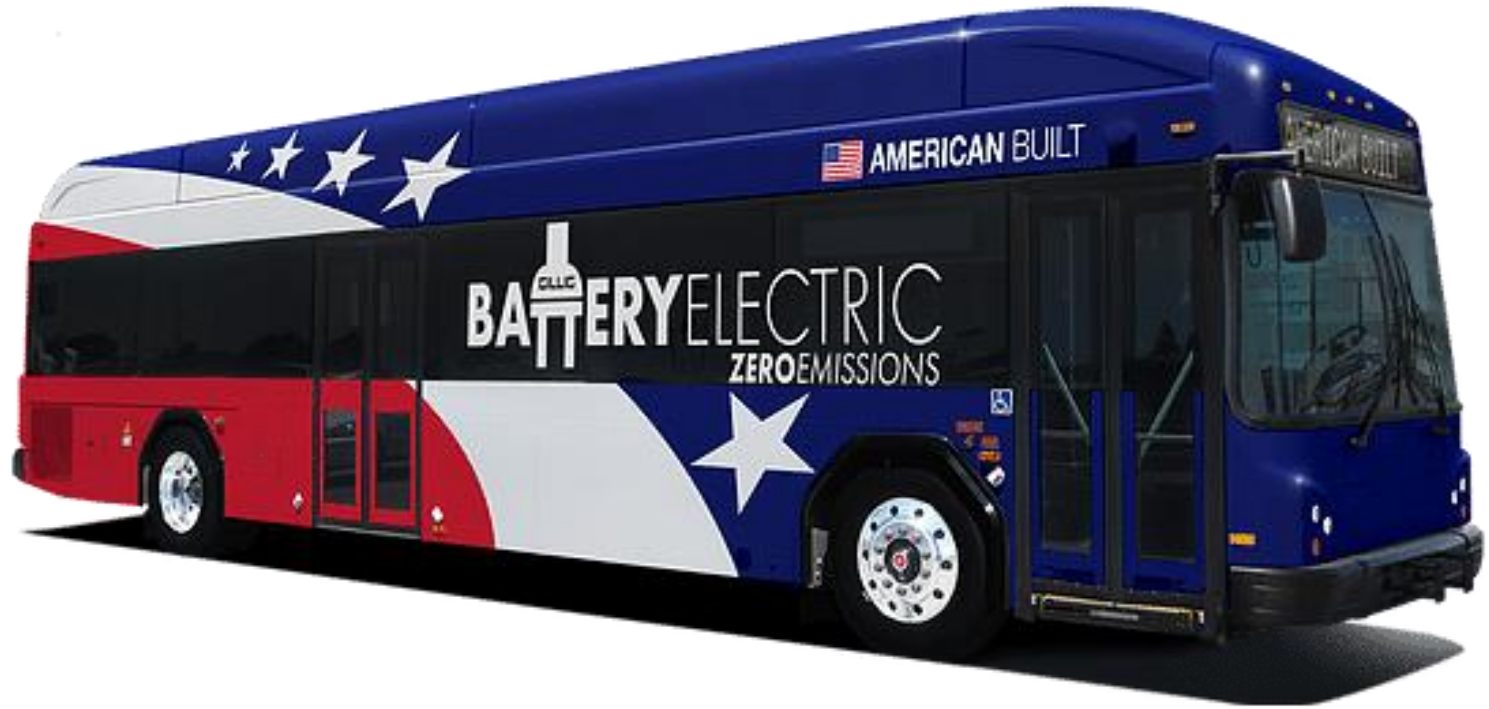


EV Charging + Greening the Grid

Rosemary Street Project



Electric Buses



EV Charging



Image courtesy of Wisconsin Public Radio



Tree Planting

Booker Creek Storage Basin



3. Next Steps

Plan Progress to Date



- ✓ Complete Carbon Inventories for Community and Municipal Operations
- ✓ Hold Climate Action Summit
- ✓ Share project video with stakeholders
- ✓ Share community opinion survey
- ✓ Model carbon reduction solutions for impact potential and co-benefits
- ✓ Begin drafting plan elements

Public Engagement



Metroquest Survey

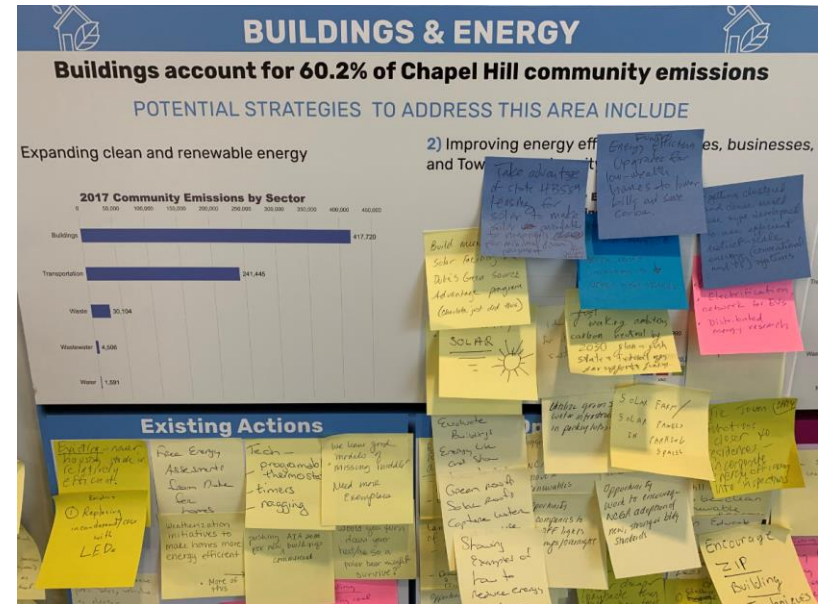


Chapel Hill Climate Action Video

Public Engagement



Community Partners Summit



Public Engagement

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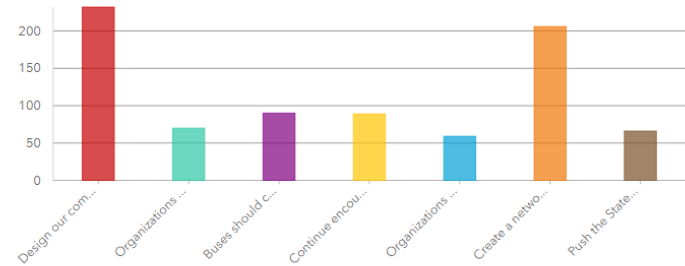


SOSTENIBILIDAD Plan de Acción Climática



Climate Action Opinion Survey

6. What do you see as the top two actions that can reduce the most carbon emissions from transportation i... Column Bar



[Hide table](#)

Empty categories [Sort](#)

Answers	Count	Percentage
Design our community so that people don't have to drive as much	232	53.56%
Organizations should change their private vehicle fleets to electric	70	16.17%
Buses should come more often and run longer into the night	90	20.79%
Continue encouraging all employees to carpool, vanpool, take transit, bike, walk and work from home	89	20.55%
Organizations should provide more electric vehicle charging for their clients and employees	59	13.63%
Create a network of safe biking and walking paths that go all around town	206	47.58%
Push the State to make sure that the electricity for electric vehicles get	66	15.24%

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*)



Recommendation

That the Council receive the report and provide additional direction, as needed.





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