

Consider Adopting the Climate Action & Response Plan

April 7, 2021







Recommendations

That the Council adopt the Climate Action and Response Plan, request funding options as part of the FY21-22 budget process (R-10), and join other NC cities in declaring a climate emergency (R-11).



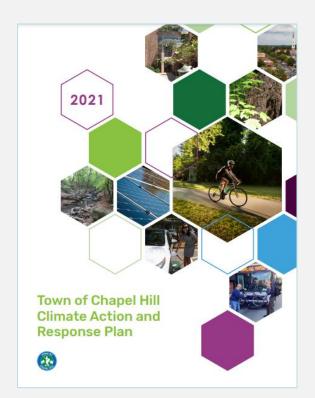
Overview

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- 5. Action Updates
- 6. Recommendations

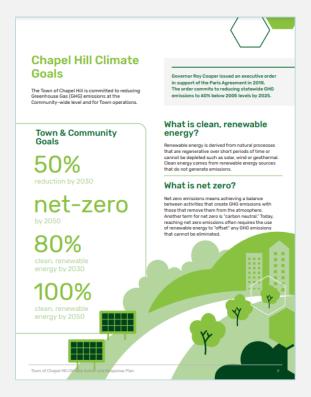


1. Plan Summary

sustainchapelhill.org









1. Green the grid ▼30-31%



3. Sustainable development ▼11%



2. Sustainable transport. ▼12-13%



4. Green building retrofits ▼6-7%

Resiliency ▼recovery time



Action Examples

Green infrastructure planning

Tree planting + invasive species removal

Target Examples

Green infrastructure ordinance by 2022

Complete top 3 subwatershed study stormwater projects

Plant 200+ trees per year

Taking Action Together



Buildings & Energy



Transportation & Land Use



Waste, Water & Natural Resources



Resiliency

95% of Community emissions

TOWN GOVERNMENT ACTIONS

- Update Green Building Policy for new construction
- Net-zero emissions for new municipal buildings
- Energy upgrades for existing municipal green buildings & facilities
- Create walkable, bikeable, transit-served neighborhoods
- Increase walking, biking & transit use (modeshift)
- Electrify the municipal fleet
- Electrify the transit fleet
- Increase transit ridership and implement Bus Rapid Transit (BRT)
- Protect water quality, natural, & agricultural resources
- Enhance green infrastructure
- Strengthen early warning systems for climate hazards & heat

TOWN & COMMUNITY ACTIONS

- Net-zero emissions for new construction
- Energy upgrades for existing buildings & facilities
- Convert community buildings to all-electric
- Green the grid
- Create a Town-wide EV charging station network
- Expand Transportation Demand Management (TDM) programming
- Produce zero waste
- Broaden community-wide resiliency & recovery actions
- Expand climate action education, outreach, & awareness
- Grow partnerships, funding, & incentives



Public and Environmental Health

Improving air and water quality, stormwater management, recreation, mental health and other ecosystem service benefits.

Key Benefits of Taking Action



Racial Equity and Climate Justice

Addressing inequities in climate change burdens on frontline community members and achieving an equitable distribution of climate action benefits.





Regional Partnerships

Working collaboratively across the region to take action.

Resilience to Stressors

Improving our ability to bounce back and bounce forward in the face of climate change.

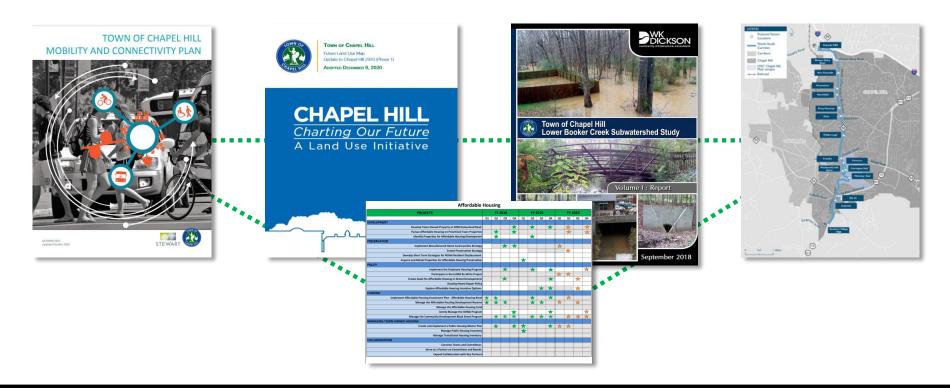


Job Creation

Investment in sustainability creates a green economy, with local jobs that pay a living wage like: solar installer, green builder, sustainable farm manager, EV station installer, etc.

ACTION	GHG REDUCTION POTENTIAL (MTCO2e)	LEVEL OF INVESTMENT REQUIRED BY TOWN	TOWN'S AUTHORITY TO ACT	CO-BENEFITS
TRANSPORTATION & LAND USE				
Create a town-wide electric vehicle (EV) charging station network	107,028	\$\$\$ \$1.7M	Some authority	
Expand TDM and plan for mobility on-demand network	24,119	\$-\$\$	Some authority	& ii v
Create walkable, bikeable, transit-served neighborhoods	19,905	\$.	Some authority	
Increase walking, biking and transit use (mode-shift)	12,505	\$\$\$\$ [.]	Some authority	Ø ii kr. pr
Electrify the transit fleet	4,572	\$\$\$\$ \$2.82M	Some authority	& ii v
Increase transit ridership and implement Bus Rapid Transit (BRT)	2,305	\$\$\$ \$200M	Some authority	
Electrify the municipal fleet	803	\$\$ \$480,000	Full authority	ث نيا الله ب

Systems Approach



2. Revisions

Revisions Summary



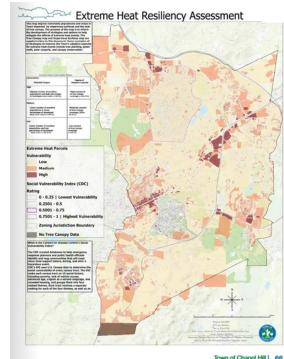
- ✓ Addressed 12 theme areas from January 27 Staff Report to Council
- ✓ Updated plan to include 120+ specific changes identified by public feedback, survey, board and Council review
- ✓ Made additional revisions from Environmental Stewardship Board
- ✓ Met with Sunrise Chapelboro to discuss letter and revisions, including additional improvements

3. Data Gathering

Impacts: Who and Where?

Reviewed available data to identify places in town where communities of color or low wealth may be disproportionately impacted by the impacts of climate change (e.g., flooding, extreme heat)

- FLUM resilience map series (shown)
- GARE Racial Equity Tool Methodology
- EPA Environmental Justice Screening and Mapping Tool

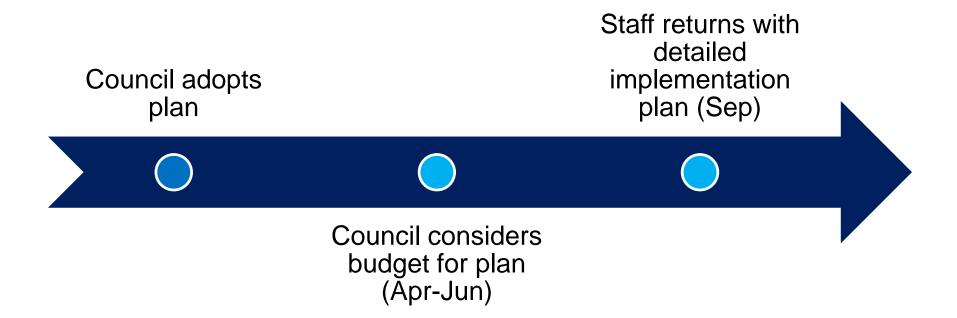


Impacts: Who and Where?

Selected Variables				
EJ Indexes				
EJ Index for PM2.5				
EJ Index for Ozone				
EJ Index for NATA* Diesel PM				
EJ Index for NATA* Air Toxics Cancer Risk				
EJ Index for NATA* Respiratory Hazard Index				
EJ Index for Traffic Proximity and Volume				
EJ Index for Lead Paint Indicator				
EJ Index for Superfund Proximity				
EJ Index for RMP Proximity				
EJ Index for Hazardous Waste Proximity				
EJ Index for Wastewater Discharge Indicator				

4. Next Steps

Looking Forward



5. Action Updates

Action Updates

Recent Grant Awards

- LED Ballfield Lights (\$128k)
- Tree Planting (\$40k)
- EV Charging Stations (\$18k)
- Solar EV Charging Station (\$18.5k)









6. Recommendations

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