



STAFF REPORT – FALL 2022 CLIMATE ACTION UPDATE TO COUNCIL

This report was produced by staff from the Town's Office of Sustainability and Resilience

September 28, 2022

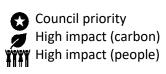
Buildings + Energy Actions				
Action	Benefits	Status / Target Date		
1. Upgrade Library Lighting to LED	Projected savings/year: • \$23k utilities • 290k kWh • 206 MTCO2e 18-month payback Maintenance savings	June 2022		
2. Energy Assessment for Public Housing Units	Franklin Energy determined that existing energy and water saving measures are efficient	✓ June 2022		
3. Create Solar Fact Sheet	Prepares Town for high- impact utility-scale solar investment opportunities	 September 2022 (see staff report for more details) 		
4. Submit Joint Letter to Utilities Commission re: Duke Energy Carbon Plan	Approved plan projected to achieve 70% CO2 reduction from Duke Energy NC-SC power generation by 2030	 August 2022 (see presentation slide for more details) 		
5. Scope Weatherization Gap Program	Prepares Town to begin implementing high-impact weatherization gap program	Scoping underway FY23, Q1		



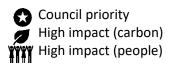
	Council priority
Ž	High impact (carbon)
Ŵ	High impact (people)

6. Upgrade Cedar Falls Turf Lighting to LED	Projected savings/year: • \$3.8k utilities • \$3.9k maintenance • 17.6 MTCO2e Project life: 25 yrs, 80k hrs	Funding secured, Parks & Rec coordinating installation FY23, Q2
7. Conduct Energy Burden Study	Informs other weatherization program actions (see above)	Scoping underway FY23, Q2
8. Update Council's Green Building Framework	Updates green building policy for new construction (projected benefits TBD)	Project underway FY23, Q2
9. Participate in Year 1 of Solarize the Triangle Program	Residential and commercial rooftop solar installations (projected benefits TBD)	Campaign launched in August, over 600 sign- ups Triangle-wide FY23, Q4

Transportation + Land Use					
Action 1. Develop Public EV Station Site Suitability Map + Screening Tool C	Benefits Prepares Town for federal infrastructure funding and zoning application reviews	 Status / Target Date ✓ September 2022 (click here to view the StoryMap and tool) 			
2. Fleet Electrification Analysis	Phase 1 of accelerated fleet electrification plan, with draft investment scenarios	✓ August 2022			
3. Complete Solar Study for Transit Facility €	Provides cost-benefit analysis of solar, battery storage, charging optimization for Transit facility	Finalizing analysis FY23, Q2			



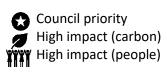
4. Install EV Charging Station at Eubanks Park + Ride ↔	Enables EV charging and reduces vehicle emissions 6.8 metric tons per year by displacing gasoline	Vendors selected, preparing for install FY23, Q1
5. Fleet Electrification Planning	Phase 2 of accelerated fleet electrification, with 5-year investment. Prepares Town for continued transition to EVs and EV infrastructure	Project underway FY23, Q4
6. Purchase 4-8 Electric Vehicles for Town	Reduces fleet emissions and provides operational insights into fleet electrification (projected benefits TBD)	6 orders placed, scoping 2 additional FY23, Q4
7. Host Duke Energy Charging Stations at Town facilities	Enables EV charging and reduces vehicle emissions by displacing gasoline (projected benefits TBD)	Evaluating options with Duke Energy FY23, Q2
8. Develop Wayfinding Strategy for Mobility Plan	Prepares Town for building out Mobility Plan network and enhancing use of existing transportation routes for all users	Reviewing draft FY23, Q2
9. Install 20 EV Charging Stations at New Rosemary Parking Deck	Enables EV charging and reduces vehicle emissions by displacing gasoline (projected benefits TBD)	Vendor selected, grant funds secured (\$25k), coordinating installation TBD
10. Continue Building Out Mobility Plan Network	Reduces emissions by creating a town-wide transportation network that doesn't require a car	(See presentation slide for list of updates) Ongoing
11. Participate in TOD and LUMO Rewrite Visioning	Positions town with updated sustainable development and redevelopment practices (projected benefits TBD)	UNC intern researching model ordinances FY24



Water, Wastewater & Natural Resources

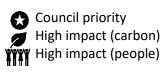
Action	Benefits	Status / Target Date
1. Respond to	Understanding of impacts	Booker Creek Working
Council Petition re:	from flood mitigation	Group developing draft
Review of Town's	facilities informs Council	report/recommendations
Plan for Flood	policy on stormwater	
Mitigation Facilities	infrastructure investments	FY23, Q2-3
0		
2. Respond to	Informs Council policy on	Staff exploring review of
Council Petition re:	sustainable stormwater	regulations with LUMO
Review of Town	infrastructure and	consultant
Stormwater	regulations	
Regulations	2	FY23, Q2
Q		, 2
3. Expand Flood	Enhances early warning	UNC student project
Alert System	system for low-lying areas	complete, scoping sensor
Sensor Technology	of Town	project
0		
•		FY23, Q2
4. Participate in	Prepares Orange County to	Consultant selected,
Countywide Solid	meet zero waste goal by	project underway
Waste Master	2045	,
Planning		FY23, Q4
6		
v		

Resiliency Benefits Status / Target Date Action 1. Plant 200 or Increases public and Grant funding secured, More Canopy environmental health, coordinating with Parks & **Species Trees** Rec to plant in fall sequesters carbon (projected benefits TBD) 0 FY23, Q2 **XXXX** 2. Launch Year 2 of Enhanced ecosystem Coordinating fall Leave the Leaves/ services, healthier soils and campaign Healthy Yards wildlife populations, and Campaign reduced emissions for leaf FY23, Q3 collection 3



3. Determine Who is Most Affected by Climate Stressors	Prepares Town for localized programming that builds sustainability and resiliency	Developing more granular GIS analysis of most impacted areas
Ø	within communities that stand to benefit the most	FY23, Q2
4. Launch New Interactive Climate Action Web Portal	Becomes a one-stop shop for climate communication, education and engagement	New Sustainability Outreach Coordinator will lead (hired) FY23, Q4

Grants Management					
Grant 1. Install 2 EV Charging Stations at Town Hall	Grantor NCDEQ, VW Settlement Program	Amount \$18,000	Match \$11,968	Status Status Installed: October 2021 Reporting: thru 2025 	
2. Upgrade Library Lighting to LED	Duke Energy Small Business Energy Saver Program (utility incentive)	\$67,114	\$34,855	V Installed: June 2022 Reporting: NA	
3. Fleet Electrification Planning Internship	Environmental Defense Fund Climate Corps Fellow	\$11,250	N/A	Completed: August 2022	
4. Upgrade Cedar Falls Turf Lighting to LED	Orange County Community Climate Action Grant Program	\$128,057	\$91,943	Active	



6. Plant 200 or More Canopy Species TreesOrange County Community Climate Action Grant Program\$40,000N/AActive7. Install 10 EV Charging Stations at the Rosemary Parking DeckNCDEQ, VW Settlement\$25,000TBDAwarded	5. Install EV Charging Station at Eubanks Park + Ride	Orange County Community Climate Action Grant Program	\$18,500	TBD	Active
EV ChargingSettlementStations at the RosemaryProgram	More Canopy Species Trees	County Community Climate Action Grant	\$40,000	N/A	Active
	EV Charging Stations at the Rosemary	Settlement	\$25,000	TBD	Awarded