

This is a sample list of projects representing one way for the Community to reach a total reduction of 89,647.2 MTCDE (80% by 2030). Other combinations of projects are possible and staff will continue to explore emissions reductions and costs associated with these actions. Food choice data is not represented in this chart and will be added to the inventory after completion of the recent Community Climate Action Plan Survey.

Town of Carrboro Greenhouse Gas Emissions Reduction Road Map						
	Plan Section	Total Community Reductions	MTCDE	Estimated Cost	Cost/MTCDE	% of Total
Pre-2020 Reductions	Ecosystem Protection & Enhancement	CHCCS and Farmers' Market Composting	368.57	CHCCS and Orange County		0.33%
		Solid Waste	329.19	Related to Resident Actions		0.29%
	Transportation	EV Charging Station	9.02	\$10,000	\$1,109	0.01%
		Homestead Rd-Chapel Hill High School Multi-Use Path	16.02	\$1,521,770	\$94,992	0.01%
	Buildings	Town Reduction	353.90	Related to Multiple Actions		0.32%
		Pete Street	9.53	\$20,000	\$2,099	0.01%
		WISE Program Energy Efficiency Retrofits	89.70	\$310,605	\$3,463	0.08%
		Reduction in CHCCS Natural Gas Use	490.89	CHCCS		0.44%
		Changes in Electricity Emissions Factors	13,268.43	Duke Energy		11.84%
		LED Lighting for Town Streetlights	157.44	\$35,396	\$225	0.14%
		CHCCS Electricity, Solarize Carrboro	990.08	CHCCS, Solarize Costs		0.88%
	Renewable Energy					
		Pre-2020 Reductions Totals	16,082.76	\$1,897,771		14.35%
	Plan Section	Total Community Reductions	MTCDE	Estimated 10-Year Cost	Cost/MTCDE	% of Total
Estimated Future Reductions	Ecosystem Protection & Enhancement	Composting Program	236.89	\$848,906	\$5,706	0.21%
		Expand Farmers' Market Composting to Wed.	51.76	\$1,800,000	\$34,776	0.05%
	Transportation	Add 20 Additional EV Charging Stations	360.80	\$500,000	\$1,386	0.32%
		Partner with CHCCS for Idling Reduction Campaign	150.89	\$9,740	\$65	0.13%
		Jones Creek Greenway	16.00	\$890,250	\$55,641	0.01%
		Morgan Creek Greenway	16.00	\$1,500,000	\$93,750	0.01%
		Reduce Community Transportation Emissions 45% (TDM)	14,772.00	\$1,213,640	\$82	13.18%
		CH Transit - Electric Buses (3)	75.00	\$2,800,000	\$37,333	0.07%
		CH Transit - 7 Additional Electric Buses	175.00	\$6,533,333	\$37,333	0.16%
	Buildings	Commercial Retrofits (55% Reduction)	15,564.88	\$6,137,192	\$394	13.89%
		Single Family Retrofits (30% Reduction)	4,948.28	\$52,379,840	\$10,585	4.42%
		Multi-Family Retrofits (40% Reduction)	10,764.69	\$23,840,141	\$2,215	9.61%
		Town Retrofits (45% Reduction)	205.05	\$711,111	\$3,468	0.18%
	Renewable Energy	40% Electricity Use Reduction (Solar/Community Solar)	26,020.00	\$104,000,000	\$3,997	23.22%
		Town 30% Electricity Use Reduction (Solar)	216.84	\$1,166,485	\$5,379	0.19%
		Estimated Future Reductions Totals	73,574.08	\$204,330,640		65.66%
		Grand Total Emissions Reductions, 10-Year Future Estimated Cost	89,656.84	\$204,330,640		80.0%