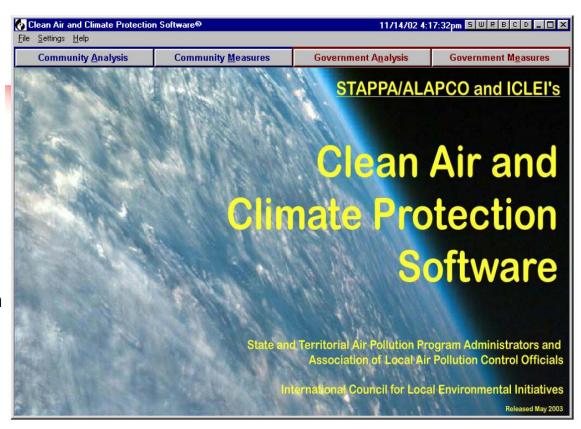
UPDATE TO GREENSBORO GREENHOUSE GAS ESTIMATES 2007 TO 2013

GREENSBORO CITY COUNCIL March 24, 2015

METHODOLOGY FOR GREENSBORO GHG INVENTORY (ICLEI, CACP)

OVERVIEW OF CACP'S CAPABILITY

- Create GHG and criteria air pollutant emissions for base year
- Forecast and back-cast emissions growth
- Evaluate measures to reduce emissions
- Prepare emissions reduction action plans



GREENSBORO GHG INVENTORY DATA SOURCE

CATEGORIES OF DATA

- Residential
- Commercial
- Industrial
- Transportation
- Waste

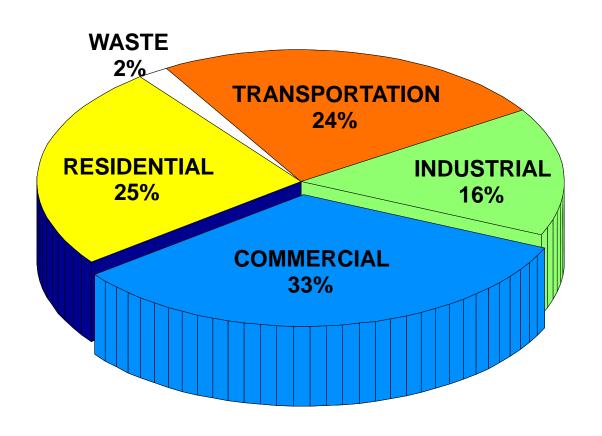


TRANSPORTATION

ENERGY CONSUMPTION BY SECTOR AND GHG EMISSIONS BASE YEAR 2007

SECTOR	ENERGY (MMBtu)	EQUIV. CO ₂ (tons)
Residential	10,861,686	1,264,199
Commercial	12,224,646	1,659,310
Industrial	6,930,813	840,942
Transportation	17,328,166	1,485,117
Waste	NA	115,844
Total	47,345,311	5,365,412

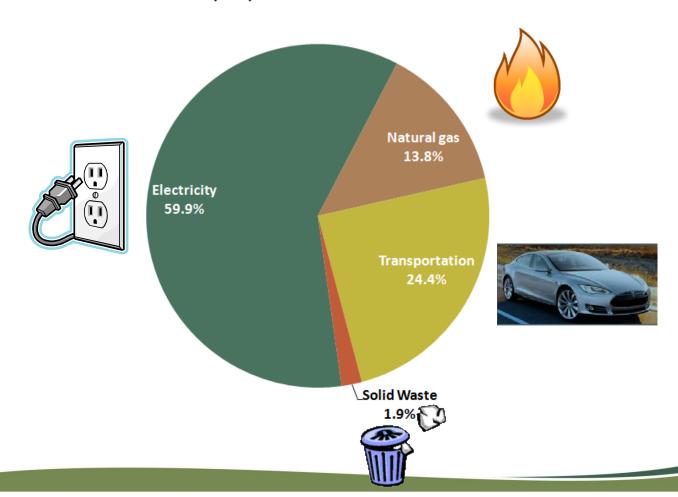
BASE YEAR PERCENTAGE COMMUNITY GHG EMISSIONS BY SECTOR





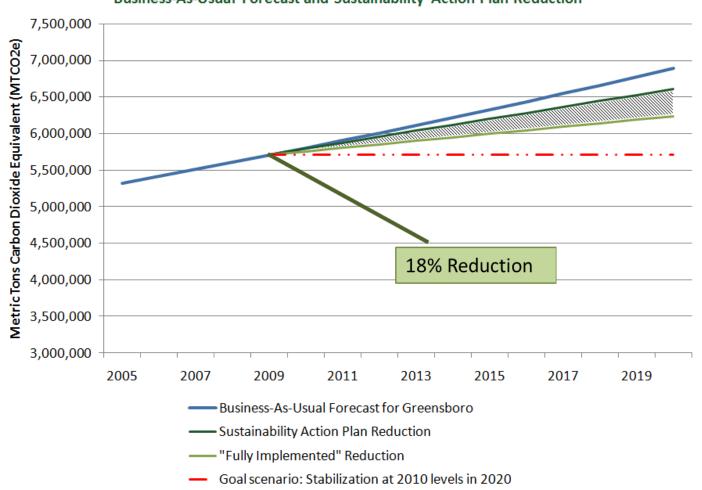
Community-wide GHG Inventory

City of Greensboro 2007 Emission Sources (community-wide) 5,517,161 Metric Tons CO2e



Forecast and Goal

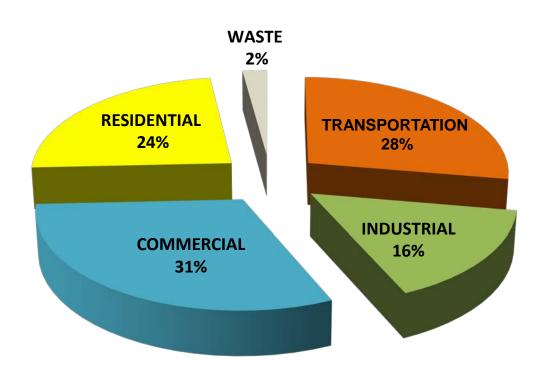
Business-As-Usual Forecast and Sustainability Action Plan Reduction

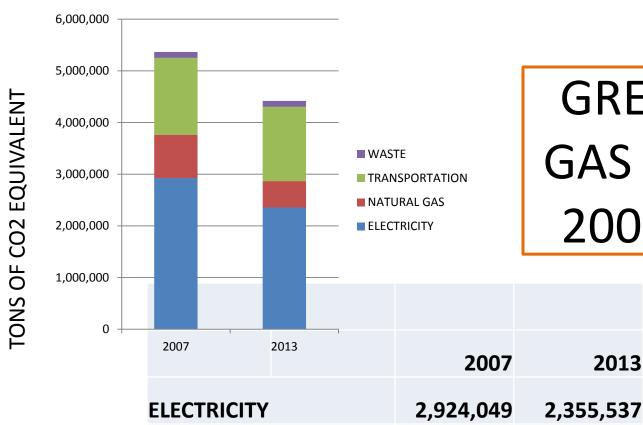


BASE YEAR ENERGY CONSUMPTION BY SECTOR AND GHG EMISSIONS 2013

SECTOR	ENERGY (MMBtu)	EQUIV. CO ₂ (tons)
Residential	10,879,527	1,078,827
Commercial	11,851,436	1,335,268
Industrial	3,320,553	453,245
Transportation	16,808,321	1,485,117
Waste	NA	115,234
Total	42,859,837	4,467,691

PERCENTAGE COMMUNITY GHG EMISSIONS BY SECTOR 2013

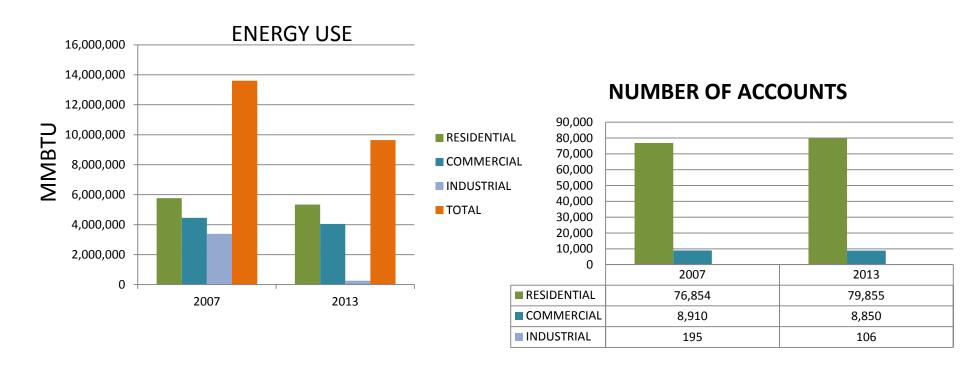




GREENHOUSE GAS SUMMARY 2007 TO 2013

					CHANGE
2007	2013	2007	2013	SECTOR	PER CAPITA
ELECTRICITY	(2,924,049	2,355,537	-19%	-21%
NATURAL G	AS	840,402	511,803	-39%	-44%
TRANSPORT	TATION	1,485,117	1,435,277	-3%	-3%
WASTE		115,844	115,421	0%	0%
		5,365,412	4,418,038	-18%	-20%

NATURAL GAS



	RESID	<u>COMM</u>	<u>INDUST</u>	<u>TOTAL</u>
Number of users	4%	-1%	-46%	
Per Capita use	-11%	-9%	-86%	
Energy Use	-7%	-9%	-92%	-29%

TRANSPORTATION

	2007	2013	% CHANGE
VEHICLE MILES TRAVELED (VMT)	2,287,689,697	2,216,102,230	-3%
POPULATION	247,183	279,639	13%
PER CAPITA VMT/DAY	25	22	-14%

REPRESENTS A GREEN DIVIDEND OF \$150 MILLION FOR THE CITY AS DESCRIBED BY THE CEO'S FOR CITIES

CITY OPERATIONS

	2007	2013	% CHANGE
ELECTRICITY	141,272,415 kWh	138,268,964 kWh	-2%
NATURAL GAS	833,383 Therms	1,038,336 Therms	25%
TOTAL	565,360 MBtu	575,607 MBtu	1.8%

Contributing Factors to Reductions of Energy Use and Greenhouse Gas Production

- Energy Conservation in the Residential and Commercial Sector
- Reduced number of Industries that are less energy intensive
- Conversion of the Duke Energy fleet away from coal fired plants
- Reduced vehicle miles traveled in Greensboro