

The Town Council adopted a Comprehensive Energy Management Plan in 2012. The Plan was prepared by the Avon Clean Energy Commission. The purpose of the plan was to guide the Town and Board of Education (BOE) in making decisions that affect the community's energy future. The Plan identified various energy related goals.

A performance analysis was recently completed to quantify the results of the Comprehensive Energy Management Plan and review measures the Town and BOE took to achieve the identified goals. Results are compared against a baseline year of FY 08 as identified in the Plan. The original report and the performance analysis can be found at <http://www.avonct.gov/avon-clean-energy-commission>.

Highlights of the performance analysis are as follows:

**Original Energy Conservation Goals Set Forth in 2012 ACEC Report:**

- Reduce Town and BOE energy used in operations by 15% of total kBtu/SF by 2015, against a 2008 baseline (Energy Use Index, EUI)
- Reduce the Town's "carbon footprint" by 20% by 2020
- Increase town-wide awareness of energy conservation measures

➤ **Energy Use Index measurements are based on energy consumption relative to the square feet of the property being measured:**

	FY 08 EUI	FY 15 EUI	% Reduction
<b>Municipal</b>	83.81	66.26	<b>20.94%</b>
<b>BOE</b>	95.91	62.03	<b>35.33%</b>

➤ **Vehicle Data is presented below comparing FY 08 and FY 15, as well as the combined averages from all years between FY 08 and FY 15:**

Year	Annual Miles Traveled	Gasoline (Gallons)	Diesel (Gallons)	Miles Traveled per Gallon	% Reduction
<b>FY 08</b>	497,814	54,149	24,243	6.35	
<b>FY 15</b>	521,747	34,245	33,130	7.74	21.9%
<b>Average</b>	<b>520,700</b>	<b>42,517</b>	<b>25,829</b>	<b>7.69</b>	<b>24.18%</b>

➤ **Total CO2 Emissions:**

All	FY 08 CO2 kg/MMbtu	FY 16 CO2 kg/Mmbtu (est.)	% Change (est.)
<i>Total</i>	<i>4918</i>	<i>3773</i>	<i>23.28%</i>

➤ **Total Town-Wide Cost Avoidance is outlined below:**

Energy Source	FY 08 \$	FY 15 \$	Difference
Electricity	\$1,141,022.24	\$878,919.36	\$262,102.88
Natural Gas	\$226,740.00	\$187,665.90	\$39,074.10
Oil	\$32,004.00	\$11,007.80	\$20,996.20
<i>Total</i>	<i>\$1,399,766.24</i>	<i>\$1,077,593.06</i>	<i>\$322,173.18</i>

➤ **Today, the Town of Avon is well positioned to fully realize each goal as defined in the original Comprehensive Energy Management Plan:**

ACEC Goals	Status
Establish Data Tracking System for Town and BOE	50% complete
Reduce Town-Wide Energy Use by 15% by 2015 Against FY 08 Baseline	100% Complete
Improve Energy Efficiency of Town Buildings	On-Going
Increase Vehicle Fuel Efficiency	On-Going
Reduce Streetlight Energy Use	Incomplete
20% Town-Wide Carbon Reduction by 2020	Complete, On-Going
Engage with Community to Advance Goals Set Forth in The Plan	On-Going