

Hillsborough County Government Energy and Sustainability Plan



Hillsborough County Government Energy and Sustainability Plan *Overview and Proposals*

May 2011

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EPC Board Meeting
July 28, 2011

Energy and Sustainability Plan (ESP)

- Initiated by Workgroup on Energy Management and Sustainability and funded by Board vote
- Conducted by Carbon Solutions America
- Included site visits, workshops and numerous interviews

ESP Purpose

**Collect data on County Energy Use
and Identify Initiatives to Reduce
our Energy Costs**

Project Deliverables

- Energy and Greenhouse Gas Inventory
- Land Inventory
- ESP Action Plan

Summary of County Electrical Energy Use

Electrical use:

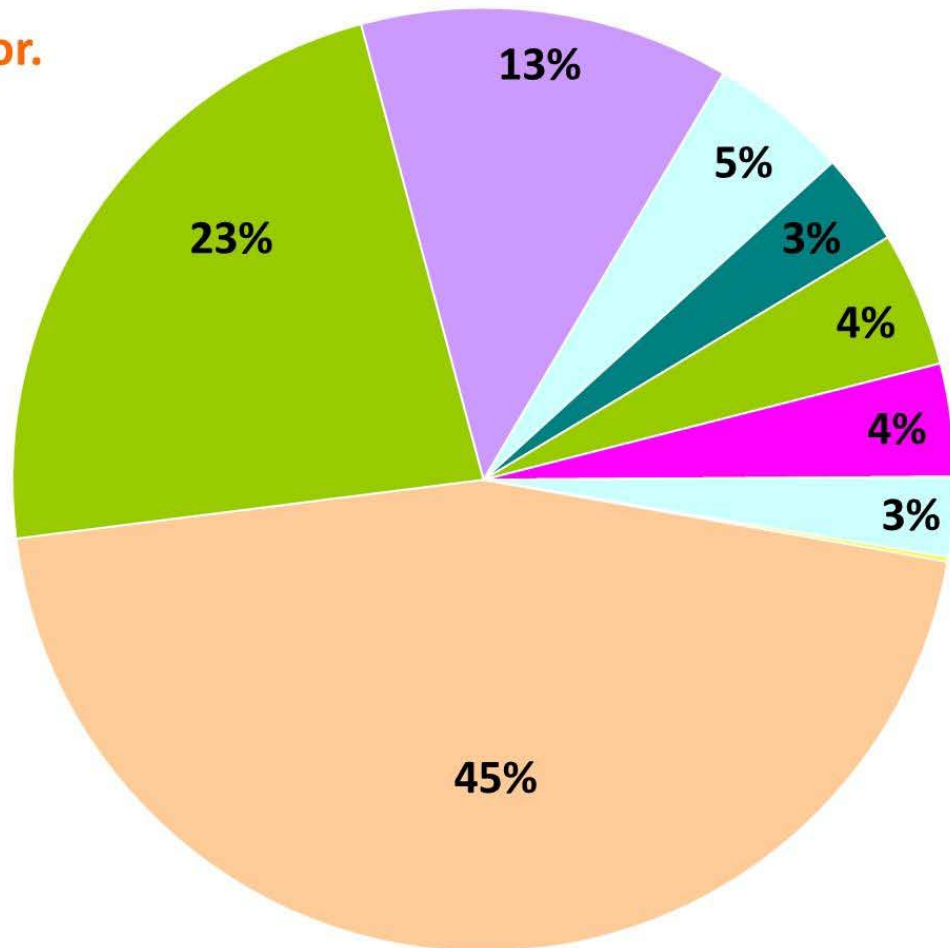
- Heating, Cooling and Lighting of Buildings
- Infrastructure for water pumps, lift stations
- Traffic Signals and Recreational Lighting
- Streetlights (purchased and maintained by TECO)

1% Reduction in Electricity = \$158,239 annual savings

2009 Greenhouse Gas Inventory

**FIGURE 1: 2009
GHG Emissions by Sector.**

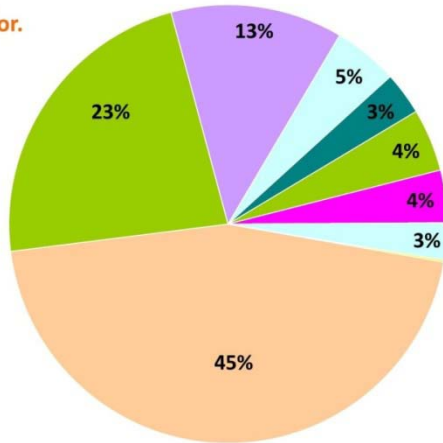
- Solid Waste
- Buildings
- Power Generation
- Vehicle Fleet
- Natural Gas
- Streetlights
- Water/Sewage
- Commute
- Refrigerants (0.1%)



2009

FIGURE 1: 2009
GHG Emissions by Sector.

- Solid Waste
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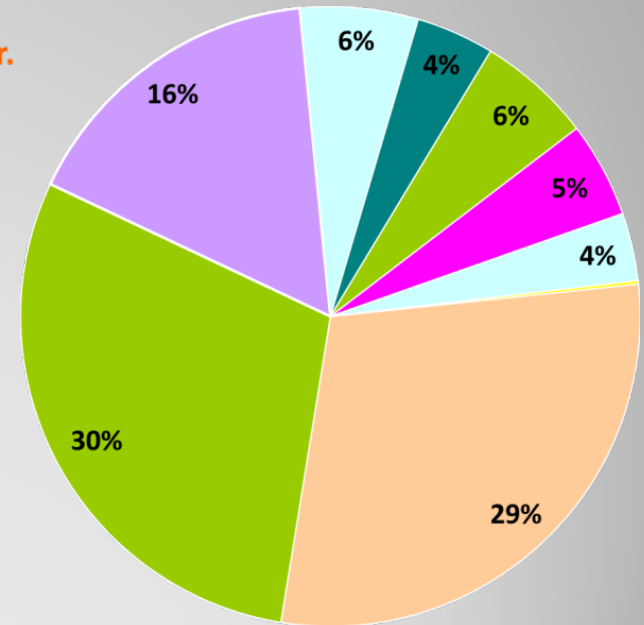


Total Emissions 424,675 MTCO₂e

2010

FIGURE 1: 2010.
GHG Emissions by Sector.

- Solid Waste
- Buildings
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Total Emissions 328,675 MTCO₂e

Land Inventory



- Explored the value of Hillsborough County ELAPP property for carbon markets/revenue
- Currently carbon markets are uncertain
- Understand how green space could be used to obtain carbon credits

ESP Action Items

- Proposals to reduce energy use by county operations and facilities
- Capital investment proposals: Retrofit Buildings, Waste to Energy, Alternative Fuels
- Staff proposals: Energy Management Teams, Review lights out schedule, Employee education
- Suggested for the County to develop an **energy reduction goal** to manage energy costs and reduce air emissions



Energy and Sustainability Plan (ESP)

- Tool to help the County reduce future energy costs and GHG emissions
- Provide information to the County and public
- Document located on
 - www.hillsboroughcounty.org/green
and
 - www.epchc.org
Office of Sustainability link



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