



SUSTAINABLE ORANGE COUNTY

May 13, 2014

Board of County Commissioners

Sustainability Committee



Harold W. Barley
MetroPlan Orlando



Jill Hamilton Buss
Healthy Central Florida
Winter Park Health
Foundation



Dee Danmeyer
Habitat for Humanity
of Greater Orlando



Flora Maria Garcia
United Arts of
Central Florida



Greg Hardwick
Hardwick General
Contracting, Inc.



Eliza Harris
(Vice Chair)
Canin Associates



John Martinez
(Chair)
PNC Capital
Markets LLC



Cathy Pope
Orange County
Public Schools



Jim Thomas
Biosphere



**Pastor Frank
Thompson**
The Worship
Center Orlando



Brandon Tidwell
Darden Restaurants



Martin P. Wanielista
University of
Central Florida

Mission



Develop a Sustainability Plan to make Orange County a more prosperous, healthy, and livable community for current and future generations by addressing economic, environmental, social, and cultural issues in a holistic manner.



- **Growth**
- **New issues**
- **Competitiveness**

Why do this plan?



Connection Points

- **Community**
- **Arts & Culture**
- **Natural Resources**
- **Education**
- **Mobility**
- **Civic Engagement**
- **Built Environment**

What have we learned?





THE ORANGE COUNTY CONVENTION CENTER LEADER IN "GREEN" HOSPITALITY



ENERGY REDUCTION

- Converting existing lighting to solid-state, light-emitting diode (LED) lighting for reduction in energy consumption and spent fluorescent bulb generation
- Implemented monitoring and load-matching of heating, ventilation, and air conditioning systems
- Designing an Energy Information System to further reduce power consumption through real time monitoring and control of individual sections of the facility
- Utilization of day-lighting through building design
- Achieved \$3 million in annual energy savings



SOLAR PHOTOVOLTAIC SYSTEM

In 2008, the OCCC in partnership with the Orlando Utilities Commission was awarded a \$2.5 million grant from the State of Florida to be used along with several other funding resources to install a one-megawatt solar photovoltaic (PV) system. It is the largest rooftop PV system in the southeastern United States and will utilize high-efficiency, flat-plate collectors to store and generate solar energy.

The system, installed on the rooftop of the North and South Concourses, will cover an area the size of five football fields and produce one megawatt of electricity. This represents enough electricity to power 100 homes annually.

The OCCC solar PV system also includes four 10 kilowatt experimental PV Hybrid systems incorporating cutting edge technologies. These systems are mounted in areas that are accessible to full public view and utilize differing and emerging solar technologies.

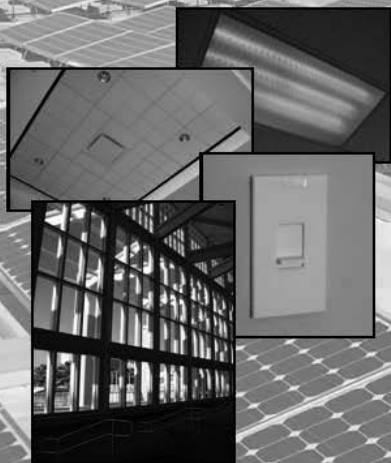
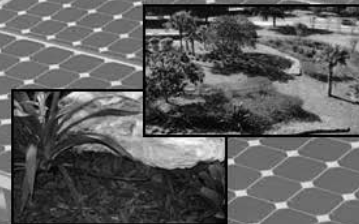
WASTE MINIMIZATION & RECYCLING

- Implemented an ISO 14001 Environmental Management System
- Banned the use of fifteen types of chemicals
- 33% of all waste is reused/recycled (1,863 tons)
- Donate leftover food and materials to schools, hospitals, and other non-profits
- Continuously pilot-test new technologies (i.e.; touch free, air-blowing hand driers to reduce paper waste)



WATER CONSERVATION

- Installed 35 acres of Florida Friendly landscaping
- Installed 10 acres of drip irrigation
- Utilize reclaimed water for irrigating all 85 acres of landscape
- Installed 600 low-flow, metering faucets





Requested Action

- **Accept the Sustainability Plan**
- **Commit to making the Plan a reality**
 1. **Staff person to coordinate implementation**
 2. **Staff designated in each Department/Division**
 3. **Retain the staff-level Steering Committee**
 4. **Appoint a Sustainability Advisory Board**
 5. **Annual report on implementation**



SUSTAINABLE ORANGE COUNTY

May 13, 2014

Board of County Commissioners