Orange County Climate Change Implementation Plan Update for 2009

Mayor Richard T. Crotty
and the
Board of County Commissioners

February 2009

Orange County
Climate Change Implementation Plan Update for 2009

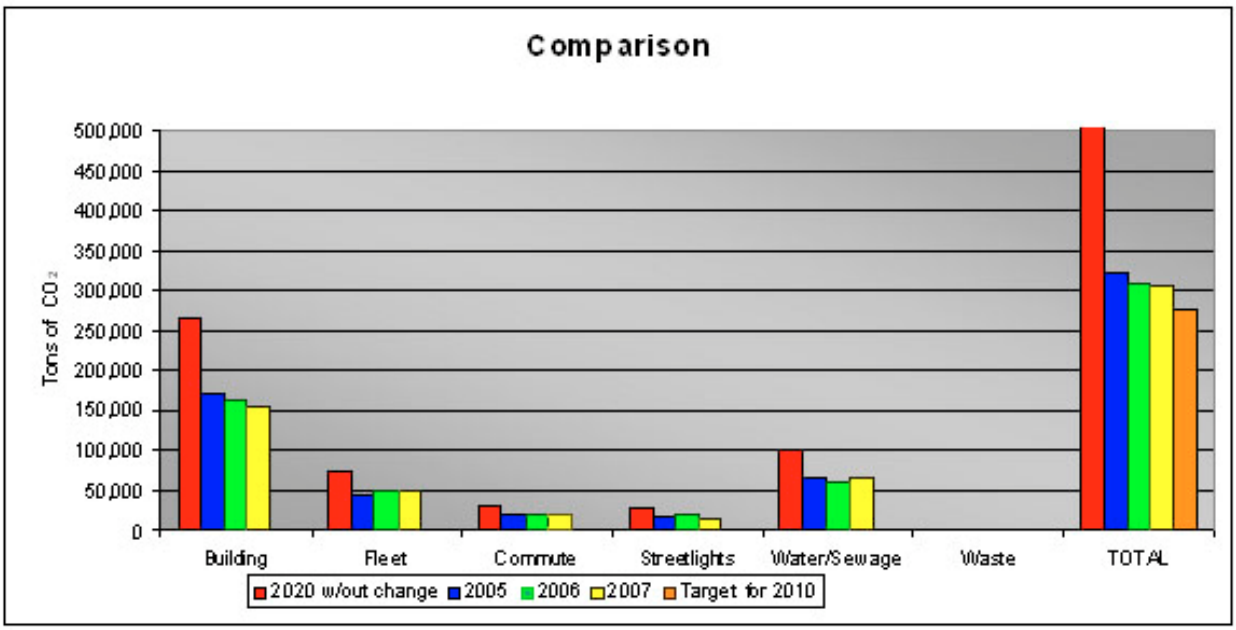
On September 25, 2007, Orange County Mayor Richard T. Crotty and the Board of County Commissioners launched a Climate Change Plan for Orange County Government. This plan stated Orange County's commitment to being a leader in reducing greenhouse gas (GHG) emissions, energy efficiency and environmental protection. This plan discussed climate change and announced the inventory of GHG emissions from Orange County government operations. The following targets were established to reduce these emissions: 15% reduction by 2010; 28% reduction by 2015; and 40% reduction by 2020. Eight goals were announced to assist in meeting these targets.

In February 2008, a Climate Change Implementation Plan was presented. The report updates the inventory to include more accurate numbers for the 2005 GHG emissions. The numbers are now projected to be slightly larger than originally projected. This report also gave an update on the goals.

The goals include various plans to help achieve the targeted reductions. Orange County has focused on activities that meet the following criteria:

1. Environmental practices done in-house to support GHG reductions;
2. Incentives and ordinances to foster green practices to reduce GHG; and
3. Educational activities to improve the environment.

This Climate Change Implementation Plan Update is designed to present a 2009 update of both the status of the goals and the GHG emissions from the Orange County government operations. The graph below has been revised to show the GHG emissions from the county operations reported in tons of carbon dioxide (CO_2) for the years 2005-2007. The 2008 data is currently being collected.



The Climate Change Implementation Plan focused on eight goals which are presented below. Each goal comprised of several objectives. These objectives along with a status update are located in the proceedings pages. Many of these goals are longer term goals and a summary of the 2008 effort is included. The following scale is used to assess each goal as outlined below.

Performance Legend	
	A green leaf symbol indicates the goal has been achieved or it is on target to be completed in a timely manner.
	A yellow circle indicates that the goal is moving forward but not as fast as planned.
	A red hexagon indicates the goal is either abandoned or seriously delayed. Explanations are provided.

Orange County Climate Change Plan Goals

GOAL 1: Adopt Policies to Establish and Implement a County Renewable Energy Initiative

GOAL 2: Adopt Policies to Implement a Green Procurement Program

GOAL 3: Adopt Policies to Support Greenhouse Gas Mitigation

GOAL 4: Adopt Educational Programs at the Community and County Levels

GOAL 5: Adopt Policies to Support Recycling, Methane Recovery and Biomass Energy

GOAL 6: Adopt Policies to Support Greenhouse Gas Reductions in the Transportation Sector

GOAL 7: Adopt Policies to Support Green Buildings

GOAL 8: Formalize Partnership Agreements

GOAL 1

Adopt Policies to Establish and Implement a County Renewable Energy Initiative

Objectives

A: Apply for grants and commit funds for solar photovoltaic (PV) panels at the Orange County Convention Center (OCCC). This, 1-megawatt, system could be the largest array of solar photovoltaic panels in the southeast. This will help the OCCC reduce their energy consumption from fossil fuel.

Status:

Grants obtained; funding partners secured; Orange County Board of County Commissioners awarded Johnson Controls Inc. contract Y8-818 on July 8, 2008; contract executed September 9, 2008; construction slightly behind the original proposed schedule – expected completion Spring 2009.

Contact(s):

Jerry Daigle, Orange County Convention Center
Lori Cunniff, Environmental Protection

B: Cleantech Economic Development - attracting, creating, and growing the innovative high value companies that produce the products and provide the services that will allow us and the rest of the world to Go Green. Objective was changed to cover a broader range.

Comment:

This goal is called "Green to $Green$." It is about more than green---more than optimizing the use of natural resources and being less wasteful. From an economic development perspective, it is also about adding economic value compared to traditional alternatives. The common terminology for this is clean technologies or "cleantech." When it comes to the economy, our goal is cleantech economic development. Cleantech is Green PLUS, adding value by significantly lowering cost and improving profitability. **(**Goal will be reworded to reflect larger scope).

Measurement:

- Maintain a list of cleantech companies attracted to Orange County
- Track startup assistance and partnerships for "green" companies
- Completion of a Cleantech Benchmark Study with the working title: "Metro Orlando Cleantech - Assets, Capabilities, Presence, and Potential"; This study will be a primer for the further development of cleantech in Metro Orlando—a common body of knowledge for local economic development practitioners and public officials, and a startup guide for a local cleantech economic development plan
- Completion of a Cleantech Symposium Series that brings together interested parties to better understand cleantech and collectively foster its growth

Status:

On October 23, 2008, Mayor Richard T. Crotty Launched the Cleantech Economic Development Initiative. On November 5, 2008, the first Orange County Cleantech Symposium was held at the University of Central Florida's (UCF) Executive Development Center. The symposium provided interested parties a better

understanding of cleantech and promoted cleantech economic development. Additional Cleantech Symposiums were held on January 21, 2009 and February 18, 2009. A Cleantech Benchmark Study is underway by the UCF Institute for Economic Competitiveness.

Examples of cleantech companies in Orange County/Metro Orlando

- Stormwater Treatment Environments, Inc.
- Sowlar
- Land Design Innovations
- ZeroCrete
- Planar Energy Devices
- Aquafiber
- Perta Solar
- Siemens Energy Orlando
- Mitsubushi Power Systems Americas

Examples of organizations and entities supporting cleantech companies

- UCF Nanoscience Technology Center
- UCF Advance Material Processing and Analysis Center
- UCF Center for Advanced Turbines and Energy Research
- Metro Orlando Economic Development Commission
- Enterprise Florida
- American Electronics Association (AeA)
- Florida Solar Energy Center

Startup assistance and partnerships for "green" companies

- UCF Technology Business Incubator
- UCF Orange County Venture Lab
- UCF Small Business Advisory Board Council Program
- Metro Orlando Economic Development Commission
- Enterprise Florida
- Florida High Tech Corridor Council

Contact(s):

John Lewis, Economic Trade and Tourism
Metro Orlando Economic Development Commission (EDC)

C. Retrofit county buildings with renewable energy systems. This supports hurricane mitigation efforts to have decentralized energy available. Evaluate a specific goal of having 15% of power used by county-owned buildings from alternative energy sources within 15 years.

Measurement:

- Development of a 15-year plan
- Track Renewable Energy Credits (RECs), electric generated in kilowatts per hour (KWh), by renewable energy

Status:

A 15 year plan is currently being developed. Currently, no RECs have been generated.

Renewable energy projects

- Installation of 11 Solar Hot Water Heaters at Greater Oaks Village
- Orange County Convention Center projects include a 1-Megawatt PV System; light emitting diodes (LED) lighting, energy information system monitoring, HVAC system efficiency monitoring (see objective A)
- Facilities Management development of an Energy Conservation Plan and Energy Policy, Energy Audit Checklist and Holiday Shutdown Checklist
- Administration building lighting upgrade
- Orange County Fire and Rescue heat recovery units on buildings
- Photovoltaic system for the Agricultural Co-Operative Extension Building under elevation

Contact(s):

Jody Strickland, Capital Projects Division
Preston Cook, Emergency Management

D. All new county buildings meet the Leadership in Energy and Environmental Design (LEED) standards (originally established by Mayor Crotty in September 2005 commitments).

Cost estimate:

Initial estimate is eight percent over typical cost of project which will reduce with time and experience.

Measurement:

- Number of buildings that are LEED certified
- Energy use per square foot compared to non-LEED certified buildings County operates
- Energy savings in kilowatts per hour (KWh) and cost

Status:

County buildings under development

- Medical Examiner's Office
- Sheriff's Sector II
- Fire Station 35

Contact(s):

Jody Strickland, Capital Projects Division

E. Partner with electric utilities to develop green power programs. Sell renewable energy credits (RECs) from the Orange County Convention Center (OCCC) project to generate more alternative energy on county-owned buildings.

Timeline:

Spring 2008	Develop funding program with OCCC visitors (see goal 3, objective B)
Summer 2011	Expect first available funds from OCCC project

Measurement:

Track RECs generated and sold (produced from all new projects)

Status:

- Interlocal Agreement between Orange County and the Orlando Utilities Commission (OUC) relating to the PV Demonstration Research Facility approved by the Board of County Commissioners (BCC) on January 6, 2009. OUC is contributing 1.5 million dollars toward the construction of the PV project. OUC will also have to option to purchase and environmental attributes associated with the project.
- Carbon offset pilot project with Progress Energy Corporation, Orange County, and McDonalds Corporation. The project provided for sixty new solar water heated systems to be installed at homes within Orange County and the Progress Energy Corporation's service area. The BCC approved the project on November 11, 2008. The project was completed in December 2008.

Contact(s):

Lori Cunniff & Hamp Pridgen, Environmental Protection

F. Consider establishing an incentive program to increase solar water heaters and photovoltaic (PV) panels on residential homes and businesses within the county.

Cost estimate:

$100,000 (pilot program); used remaining Summit funds (~$40,000)

Measurement:

- Track the number of residential homes and businesses that apply
- Calculate kilowatts per hour (KWh) produced from renewable sources

Status:

- On April 22, 2008 for Earth Day, the Solar Water Heater Incentive was launched.
  - As of January 28, 2009, over 200 applicants have applied for the solar water heater incentive. Over 117 applications are complete and the applicants have either received the incentive check or are in the process of receiving the check.
  - Almost 5 million KWh of solar power is produced by these systems. (Based on Florida Solar Energy Center's calculator)
- On July 8, 2008, the "Energy Efficiency, Renewable Energy and Conservation Fund" was established.

Contact(s):

Lori Cunniff, Hamp Pridgen & Jodi Dittell, Environmental Protection
Lavon Williams, Neighborhood Services

GOAL 2

Adopt Policies to Implement a Green Procurement Program

Objectives

A. Develop procedures to ensure Orange County will purchase green products (defined as those that reduce toxic chemicals, reduce greenhouse gas emissions, support water and energy

efficiency/conservation, are recyclable or made from recycled products and/or support renewable energy sources).

Cost estimate:
Under evaluation
Timeline:

January 2008	Write guideline (completed)
March 2008	Recommend administrative regulation changes needed
Summer 2008	Bring forward changes
Summer 2008	Begin educational efforts

Measurements:
- Points toward obtaining/maintaining Green Government status
- Percent of cleaning contracts modified to reflect green products
- Completion of administrative regulation updates

Status:
The use of green cleaning products is part of the new janitorial contracts. County-wide procedures for the purchase of green products are under development.
Contact(s):
Dennis Weatherford, Environmental Protection
Johnny Richardson, Elaine Walker & Charlotte Walker, Purchasing

B. Ensure that life cycle economics is a consideration in purchasing products.

Cost estimate:
Under evaluation
Timeline:
Under evaluation
Measurement:
To be determined
Status:
The use of green cleaning products is part of the new janitorial contracts. County-wide procedures for the purchase of green products are under development.
Contact(s):
Dennis Weatherford, Environmental Protection
Johnny Richardson, Elaine Walker & Charlotte Walker, Purchasing

C. Consider allowing a 10% differential for products that are "green" as defined in Objective A.

Cost estimate:
Under evaluation
Timeline:
Summer 2008
Measurement:
Development of administrative regulation
Status:

The use of green cleaning products is part of the new janitorial contracts. County-wide procedures for the purchase of green products are under development.

Contact(s):

Dennis Weatherford, Environmental Protection
Johnny Richardson, Elaine Walker & Charlotte Walker, Purchasing

D. Consider alternatives to water bottles at county events.

Cost estimate:

No cost expected

Timeline:

Implementation has begun

October 2008	Provide bulk water containers for all field personnel and reusable water bottles; Pilot currently being tested at EPD events
October 2008	Complete a fiscal and environmental impact analysis for bulk water supply options at events
January 2009	Evaluate banning bottled water for county events.

Measurement:

Dollars spent on bottled water purchases per year

Status:

under evaluation

Contact(s):

Dennis Weatherford, Environmental Protection
Elaine Walker & Charlotte Walker, Purchasing

E. Require green cleaning (non-toxic cleaners) in all cleaning contracts upon renewal.

Cost estimate:

Under development

Timeline:

As contracts come up, green cleaning is inserted

Measurements:

- Points toward obtaining and maintaining Green Government status
- Percentage of contracts that include non toxic cleaners

Status:

The use of green cleaning products is part of the new janitorial contracts.

Contact(s):

Vanetta Valdengo-Blevins & Rich Steiger, Facilities Management
Dennis Weatherford, Environmental Protection
Elaine Walker, Purchasing

F. Ensure that all paper purchased for the county has a minimum recycled post-consumer content of 35%. Also consider paper from alternative sources that are renewable.

Cost estimate:

No increase expected

Timeline:

Spring 2008	Evaluate if administrative regulation is needed
Spring 2008	Educate staff on requirement
Summer 2008	Prepare a fiscal and environmental analysis of alternative sources of paper produced from alternative renewable sources

Measurement:

Percent participation (audit of paper purchases)

Status:

As of the fall of 2008, 39% of the Departments/Divisions have purchased paper with 35% post-consumer content.

Contact(s):

Dennis Weatherford, Environmental Protection
Elaine Walker & Charlotte Walker, Purchasing

GOAL 3

Adopt Policies to Support Greenhouse Gas Mitigation

Objectives

A. Develop a program to mitigate official county travel. Create a fund used for local mitigation efforts such as tree planting and alternative energy.

Comment:

Due to budgetary concerns, travel has been restricted. Goal diverted to focus on county events.

Cost estimate:

Under evaluation, no net increase expected

Timeline:

Summer 2008

Measurement:

Dollars in fund and amount of carbon dioxide (CO_2) mitigated

Status:

Official County Travel Mitigated

Event	CO_2 Emissions Mitigated (TPY)	Cost to Mitigate ($)
Mayor's 2008 State of the County Address	8.34	$100.00

Contact(s):

Lori Cunniff, Environmental Protection
Randy Singh, Office of Management & Budget

B. Offer similar mitigation program at Orange County Convention Center (OCCC) where conventions can chose to be carbon free. Funds would be used for county projects that support carbon mitigation.

Timeline:

Feb/March 2008 Develop partnerships
March/April 2008 Market program to OCCC visitors

Measurement:

Dollars in fund and amount of carbon dioxide (CO_2) mitigated

Status:

"Green Your Event" web page launched in December 2008. Table below lists carbon free events.

Orange County Convention Center Events Mitigated

Event	CO_2 Emissions Mitigated (TPY)	Cost to Mitigate ($)	Other
McDonald's 2008 Worldwide Convention	8.34	$6,000.00	10 Tree Plantings

Contact(s):

Tom Ackert & Gwen Wilson, Orange County Convention Center
Lori Cunniff & Hamp Pridgen, Environmental Protection
Kelly Kwas, Communications

C. Strengthen the Tree Protection and Removal Ordinance to remove some exemptions and increase replacement percentage of trees and consider canopy replacement criteria.

Cost estimate:

Under evaluation, none expected

Timeline:

Summer 2008 - Ordinance revision ready for review

Measurement:

Calculate carbon dioxide (CO_2) sequestering potential of new ordinance as compared with old ordinance.

Status:

The Tree Protection and Removal Ordinance and Landscape Ordinance are currently under development.

Contact(s):

Mitch Gordon, Zoning
Alan Marshall, Environmental Protection

D. Establish a committee to develop smart growth land development regulations. (New objective)

Timeline:

Summer 2009

Measurement:

Calculate carbon dioxide (CO_2) sequestering potential of new ordinance as compared with old ordinance.

Status:

Under development, timeline being fully developed and new expected completion date will be June 2010. The CO_2 sequestering potential of new ordinances will be compared with old ordinances.

Contact(s):

David Heath, County Administration
Susan Caswell, Planning
Mitch Gordon, Zoning
Lori Cunniff, Environmental Protection

GOAL 4

Adopt Educational Programs at the Community and County Levels

Objectives

A. Host regular workshops to discuss topics related to climate change such as smart growth, transportation, recycling, energy, etc.

Cost estimate:

No significant costs expected

Timeline:

February 2008 - Low Impact Workshop hosted
Planning a minimum of 2 per year, schedule under development

Measurement:

Record attendance & number of workshops/year

Status:

Several workshops have been hosted by Orange County. Orange County has also participated in several non-county related events. Examples of the events are provided below.

Orange County events

- Low Impact Development Workshop - February 2008
- Orange County and the Institute of Food and Agricultural Sciences (IFAS) Compost & Rain Barrel Workshops - ongoing
- 2008 Community Conference
- 2 - Solar Hot Water System Incentive Workshop – September & October 2008
- Rain Barrel Workshops – 3 per year
- Saving Green by Going Green – October 2008

Orange County non-hosted events

- Envirothon
- 2008 Green Expo
- Green Cities Conference (planned May 2009)
- Central Florida Green Building Forum
- Building Owners & Managers Association (BOMA)
- Alternative Fuel Vehicle Conference (planned April 2009)

Contact(s):

Lori Cunniff, Environmental Protection
Susan Caswell, Planning
Debbie Sponsler, Solid Waste
Brian Sanders, Transportation Planning

B. Become certified as a Florida Green Local Government by winter 2008. Share success stories to encourage other municipalities and counties to implement similar programs.

Cost estimate:
$4,500 (paid to the Florida Green Building Council – membership dues)
Timeline:
Winter 2005 Registered (completed)
Winter 2008 Expect certification
Measurement:
Certification documentation and maintenance
Status:
On April 22, 2008, Orange County became certified as a Florida Green Local Government at the gold level. Certification is being maintained by the Green Ribbon Committee.
Contact(s): Lori Cunniff, Environmental Protection
John Terwilliger, Administrative Services
All Departments

C. Convene the County's internal Green Ribbon Committee and monitor progress on initiatives.

Timeline:
Ongoing, quarterly meetings
Measurement:
- Maintain certification for green government
- Number of new programs/ideas successfully implemented
- Maintain progress on "Orange to Green" goals

Status:
<u>Quarterly meetings</u>
- May 6, 2008 - Discussed the committee's mission
- August 6, 2008 - Discussed new programs and ideas (Anti-Idling, Green Achievement Award, Energy Audits, CFL Pledge, HVAC Policy).
- November 4, 2008 - Update provided on Clean Tech, recycling program and green procurement.

Contact(s):
Lori Cunniff, Environmental Protection

D. Distribute periodic press releases on green topics to raise community and employee awareness.

Cost estimate:
No new expenses expected

Timeline:

Ongoing

Measurements:

- Number of news media coverage
- Consider public awareness surveys (future measure)

Status:

<u>Number of news media coverage (examples) – Press releases are available on Orange County's website</u>

- Orlando Rock uses biodiesel press conference
- Focus the Nation – announcing the installation of a 1-megawatt photovoltaic system on the Orange County Convention Center
- Venues to be built green
- Orange County Solar Water Heater Incentive
- Opening of the 85% ethanol (E85) tank at Fleet
- Solar Cities grant partnership with Orlando Utilities Commission and the City of Orlando
- Mayor Richard T. Crotty's Home Energy Audit
- Anti-Idling Campaign
- LYNX's biodiesel blending facility
- Orange County Streetscape Tree Adoption
- Mayor Richard T. Crotty's Green Government Initiative spearheads school bus retrofits
- Institute of Food and Agricultural Sciences (IFAS) hosts tree giveaway
- May is Clean Air Month
- GreenPLACE & National Public Lands Day
- Orange County named Tree City USA
- Mayor Richard T. Crotty's Climate Change Plan for Orange County
- Installation of Demonstration Garden
- Orange to Green becomes Green to Green$
- Orange County proclaims Arbor Day
- Orange County 1st to get Green Government Certification at the gold level
- Orange County proclaims May is Clean Air Month
- GreenPLACE & National Public Lands Day
- Florida Friendly Neighborhoods Workshop (Utilities Water)
- Blue Ribbon Program saves Water & Money
- Mayor Richard T. Crotty's launches CleanTech Economic Initiative
- Orange County proclaims Recycles Day

Contact(s):

Lori Cunniff & Beth Bromfield, Environmental Protection
Kelly Kwas, Communications

E. Consider car-pooling and bus pass incentives; reduce tolls for carpoolers, preferential parking, etc. to encourage climate friendly commutes among employees.

Cost estimate:

Under evaluation

Timeline:

Transportation survey done

New bicycle rack installed by door at Administration building

Spring 2008 - second survey on car pool and carbon footprint awareness

Evaluate options - ongoing

Measurements:

- Increase in carpooling and mass transit users among staff
- Number of incentives created
- Calculate carbon dioxide (CO_2) emission reduction via survey and track

Status:

Human Resources conducted a LYNX survey in 2006. Only 501 County employees participated. Approximately 32% or 161 employees were interested in the LYNX program. A new survey, the "Orange County Green Initiative Survey" is under development and will include questions regarding the work commute.

Contact(s):

Melinda Martin, Human Resources

Hamp Pridgen, Environmental Protection

F. Develop a fluorescent bulb pledge for Orange County employees to replace non-energy efficient bulbs and to raise awareness of energy conservation at home.

Cost estimate:

$100 was expected cost; no cost incurred

Timeline:

Spring 2008 - completed

Measurement:

Number of employees signing pledge (can calculate carbon dioxide (CO_2) reduction)

Status:

<u>Pledges conducted</u>

- Environmental Protection Division - 100% participation
- County level via Orange Spiel, Spiel Extra, and Division emails - 133 participants received light bulbs or reusable bags (donated items- no cost to county).

Contact(s):

Lori Cunniff, Environmental Protection

G. Encourage employees to have an energy audit done on their homes.

Comment:

The Environmental Protection's website is advertising energy audit information.

Cost estimate:

None

Timeline:

Incomplete but efforts will be on-going

Measurement:

Number of employees having energy audit was planned

Status:

Energy audits are promoted in the Orange Spiel and in the Internet. An "Orange County Green Initiative Survey" is under development and will survey employees. Tracking of energy audits is not conduct for employees but is a requirement for the solar water heater incentive.

Contact(s):

Tarzan Frazier, Energy Management
Lori Cunniff, Environmental Protection

H. Create an educational program in energy management, greenhouse gas (GHG) reductions and general environmental issues. Make this part of the new employee orientation program.

Cost estimate:

Minimal cost expected

Timeline:

First class offered in March/April 2008
4 classes per year minimum offered

Measurement:

Number of classes offered/year and attendance

Status:

<u>Year 1 training series</u>

Green Government/Orange to Green Initiative; Water Conservation; Fuel Efficiency/Alternative Fuels; Waste Minimization and Recycling at the Office; Green Government/Orange to Green Initiative; Smart Growth and Transit Oriented Development; Energy Efficiency at the Office and Home; Green Procurement

<u>Year 2 training series</u>

Currently being planned

Contact(s):

Melinda Martin, Human Resources

GOAL 5

Adopt Policies to Support Recycling, Methane Recovery & Biomass Energy

<u>Objectives</u>

A. Enforce and/or strengthen the commercial recycling ordinance.

Cost estimate:

Enforcement of ordinance would cost more manpower

Timeline:

Fall 2010 - Develop expanded Commercial Recycling Program

Measurement:

Tons per year recycled or percent of commercial businesses/apartment building offering recycling

Status:
An ordinance revision is under review
Contact(s):
Debbie Sponsler, Solid Waste

B. Use the Orange County Convention Center's recycling program as an example and implement in all similar operations.

Cost estimate:
Under evaluation
Timeline:
Combining with Objective C, below
Measurement:
Tons per year recycled (combine with Objective C, below)
Status:
The Orange County Convention Center's recycling program is based on the recycled weight and they have roll-offs for their specific management use. Orange County's government operation's recycling is collected at on a weekly basis and the weight is not measured.
Contact(s):
Debbie Sponsler, Solid Waste
Brenda Brown, Orange County Convention Center
Tarzan Frazier, Energy Management

C. Ensure all county building have recycling programs in place by the year 2009.

Cost estimate:
Under evaluation
Timeline:
Completed by winter 2009
Measurement:
Tons per year recycled or % of county buildings with recycling program
Status:
County Buildings/Campus Recycling
- 80% complete (Attachment A)
- Including Michigan Campus, 33rd Street Campus and Downtown Campus
- EPD is requesting their eight cubic yard waste container be reduced to a four cubic yard waste container

Contact(s):
Tarzan Frazier, Energy Management

D. Promote recycling so that the current rate of 30 - 35% is increased to 50% by 2012.

Comment:
30 – 35% is the county-wide (residential and commercial) recycling rate and therefore the objective will be modified to reflect this.

Cost estimate:
Under evaluation
Timeline:
Summer 2008 Expanded curbside collection program to include more materials for recycling and further develop the timeline through 2012.
Measurement:
Percent of residential recycling participants or tons per year recycled
Status:
Purchased larger residential curbside recycling bins
Contact(s):
Debbie Sponsler, Solid Waste

E. Support continued methane recovery at the Orange County Landfill and ensure all new cells recover methane gases rather than flaring.

Cost estimate:
$35.3 million (not including sale of gas)
Timeline:
Currently installing Cell 9
2012 Cell 10 will be installed (cells 11 and 12 to follow every 4 years)
Measurement:
Kilo-watt per hour (KWh), cubic feet of landfill gas (LFG) collected
Status:

Orange County Landfill Gas Collected
and sent to the
Orlando Utilities Commission

Year	Cells - A-K and 7B/8 (ft^3/yr)
2000	1,771,011,910
2001	1,794,953,000
2002	1,991,896,000
2003	2,414,244,306
2004	2,159,681,189
2005	1,923,776,165
2006	1,445,189,315
2007	1,386,853,818
2008	1,564,623,220

Contact(s):
Debbie Sponsler, Solid Waste

F. Support new technologies for generation of energy from garbage. Set up and encourage pilot programs when feasible.

Cost estimate:
Evaluated with each project
Timeline:
On-going
Measurement:
Kilo-watt per hour (KWh)
Status:
Currently under evaluation
Contact(s):
Debbie Sponsler, Solid Waste

G. Increase existing recycling goals for private landfills.

Comment:
Current goal in ordinance set at 20%
Cost estimate:
Minimal cost to county
Timeline:
Summer 2008 – evaluate modifying ordinance
Measurement:
Ton per year recycled
Status:
Pine Ridge Landfill is conducting a trial sort for construction and debris recycling; This is for customers seeking Leadership in Energy and Environmental Design (LEED) certification for construction projects
Contact(s):
David Bromfield, Environmental Protection

H. Help establish local markets for recycled construction materials.

Comment:
This is being expanded to include reuse and markets other than just construction. Example of successful reuse is local company (Chet) that reuses pallets by renting them to various companies and ensuring return of pallet for reuse. A pilot program was done to evaluate recycling of gypsum wallboard. At this time, it is not market supported. Recycling of electronics began as a pilot program and is now currently available at through the Orange County Solid Waste Division.
Cost estimate:
Under evaluation
Timeline:
On-going
Measurement:
Number of successfully developed reuse/recycle options, tons recycled per year
Status:
<u>Projects/Options</u>

- Solid Waste Division has an electronics recycling program (1,181,000 lbs recycled from 2003 to 2008)
- Flexi-Pave

Contact(s):

Lori Cunniff & David Bromfield, Environmental Protection
John Lewis, Economic Trade and Tourism
Mayor's Office
Debbie Sponsler, Solid Waste

I. Recover methane gas at county wastewater treatment plants or use other technologies to reduce GHG emissions.

Comment:

Of the three county wastewater treatment plants, only one plant generates methane gas. Recovery of gas at this plant is planned.

Cost estimate:

Being determined

Timeline:

2009 Economic feasibility study to be completed; Results to determine the future timeline targets

Measurement:

Kilo-watts per hour (KWh)

Status:

Request for Information submitted to the ten state energy saving contractors. Two proposals received and under review. First step after award will be an economic feasibility study.

Contact(s):

Debbie Sponsler, Solid Waste

GOAL 6

Adopt Policies to Support Greenhouse Gas Reductions in the Transportation Sector

Objectives

A. Establish a target that 60% of all county vehicles will be either hybrids or use alternative fuel, by the year 2012.

Comment:

Currently on target with 42% in 2008

Cost estimate:

Ethanol tank cost is $250,000 ($100,000 air grant from the Environmental Protection Division)

Timeline:

Spring 2008	Biodiesel contract renewed.
Summer 2008	Ethanol tank installed
2012	60% county vehicles will be either hybrids or use alternative fuel

Measurement:

Percent of county vehicles either hybrids or ready to use alternative fuels

Status:

- E85 Grand Opening on June 11, 2008
- 44% of county vehicles are hybrids or use alternative fuel – January 2009

Contact(s):

Bryan Lucas, Fleet Management

B. Reduce county vehicle miles traveled by using mobile technology in vehicles, such as computers in vehicles connected to office.

Comment:

Currently, computers are used in vehicles to reduce vehicle miles traveled by Building Safety, Utilities, Code Enforcement, Animal Services and Environmental Protection.

Cost estimate:

Approximately $2,400 set-up and $600 per year per vehicle for operating expenses.

Timeline:

On-going

Measurement:

Average vehicle miles traveled in fleet as compared to previous average

Status:

The Information Systems and Services (ISS) Division is reviewing; currently implemented in Code Enforcement, Environmental Protection & Building Safety

Contact(s):

Rafael Mena, Information Systems and Services
Dean Stites, Growth Management, Fiscal and Administrative Services
All Departments

C. Reduce petroleum consumption by 20% by the year 2010 (goal originally set in September 2005).

Comment:

On target to meet 20% reduction by September 2010

Cost estimate:

Same as Goal A above which includes ethanol tank $250,000

Timeline:

Summer 2008	Ethanol tank installed
Spring 2008	Biodiesel contract renewed
Spring/Summer 2008	Evaluate county vehicle anti-idling program
Current	County partnership with LYNX in pursuit of funding for biodiesel blending facility

Measurement:

- Gallons of petroleum usage as compared to 2005 base year
- Carbon Dioxide (CO_2) Emissions from petroleum assets

Status:

Year (FY)	Petroleum Usage (Gals)	CO_2 Emissions (TPY)
2005	1,648,787	18,137
2006	1,585,616	17,442
2007	1,601,590	17,617
2008		

Contact(s):

David Roussel, Fleet Management
David Rathbun, Fire and Rescue

D. Support mass transit and multimodal transportation centers.

Comment:

Transient Oriented Development (TOD) Districts will create a mechanism for encouraging the types of higher density, mixed-use developments that support transit use

Cost estimate:

- Orange County Commitment of $32.7M (capital) towards Commuter Rail Project; $3.6M of the County's $32.7M commitment spent thus far.
- County commitment of $37.8M total funding to LYNX in FY 08 (in spite of funding constraints associated with property tax reform, the County worked to minimize budget reductions to LYNX)

Timeline:

In progress

Measurement:

- Dollars allocated in budget to support mass transit
- Transit oriented development

Status:

- In July 19, 2007, the County was first local funding partner to approve the Interlocal Agreements and funding necessary for the Commuter Rail Project County and continues to partner with the Florida Department of Transportation (FDOT) and local governments on development of the Central Florida Commuter Rail Transit System
- FDOT has completed 60% design and is currently acquiring right-of-way for Commuter Rail
- Currently constructing a completed construction of a Transit Superstop in the International Drive Resort Area as an initial phase of a future Intermodal Center
- Planning for an Intermodal Station at the Sand Lake Road Commuter Rail Station
- Board of County Commissioners has approved creation of two TOD Overlay Districts surrounding the planned Commuter Rail Stations within unincorporated Orange County (Sand Lake Road and Meadow Woods)
- Staff is currently has completed a Market Study that defines the types of development that will thrive surrounding the County's Commuter Rail Stations and is currently initiating a Station Area Plan to: 1) define the types of development that will thrive surrounding the County's Commuter Rail stations, 2) create a vision/master plan for these areas, and 3) identify regulatory measures

that will facilitate TOD, create a vision/master plan for these areas and identify regulatory measures that will facilitate TOD

Contact(s):

Carla Bell Johnson, Growth Management
Brian Sanders, Transportation Planning

E. Increase the number of miles of bicycle trails and roadside bicycle lanes.

Comment:

The location of the future bicycle lanes and multi-use paths are represented by future major roadway projects, which can be viewed on InfoMap under the Transportation directory. Orange County is in the process of mapping the existing bicycle and multi-use paths.

Cost estimate:

Cost to construct a recreational trail is $1 million per mile. The cost for roadside bicycle lanes is incorporated into each road improvement.

Timeline:

Due to the budget, future trail projects have been delayed

Measurement:

Percent increase

Status:

- The Parks & Recreation Division has completed 37.9 miles of trails. The Public Works Department has completed 65.5 miles of on-road bicycle lanes located on roadways maintained by Orange County
- The Pine Hills Trail Phase 3 project (along Clarcona Ocoee Rd. from Pine Hills Rd. to Apopka-Vineland Rd.) is the only project to be completed within the next few years. This trail is approximately 3 miles long. It currently designed and will be going to bid within the next few months and construction will take 2 years
- Future trail possibilities include the following:
  - Little Econ Greenway Phase 3 (0.75 mile)
  - Little Econ Greenway Phase 4 (1.1 miles)
  - Shingle Creek Trail Phase 1 (3.7 miles)
  - Pine Hills Trail Phase 1 (2.4 miles)
  - Pine Hills Trail Phase 2 (3.6 miles)
- The Transportation Element of the Comprehensive Plan anticipates approximately 320 miles of future on-road bicycle lanes and 38.5 miles of multi-use paths (off road but within the road right-of-way, designated use for peds and bikes) within the year 2030

Contact(s):

Susan Caswell, Planning
Brian Sanders, Transportation Planning
Matt Suedmeyer, Parks & Recreation

F. Participate in a pilot program for plug-in hybrid vehicles.

Cost estimate:

$30,000 (applied for grant assistance)

Timeline:

Spring 2008 - Grant awards announced

Measurement:

Number of plug-in hybrid vehicles in fleet reported annually

Status:

Due to lack of funding converting a gas vehicle to electric has been shelved but in 2008 Orange County Parks and Recreation purchased two plug-in vehicles. The grant was not obtained.

Contact(s):

Lori Cunniff, Environmental Protection
David Roussel, Fleet Management

G. Continue to support hydrogen projects as feasible, such as testing of the Orange County Convention Center 12-passenger hydrogen buses.

Cost estimate:

Current cost is minimal due to partnerships

Timeline:

On-going

Measurement:

Number of hydrogen vehicles being tested by county

Status:

Orange County's partnership has been extended an additional year with Ford and Chevron to test hydrogen as a feasible fuel, vehicle technology and mechanical durability.

Contact(s):

John Terwilliger, Administrative Services
David Roussel, Fleet Management

GOAL 7

Adopt Policies to Support Green Buildings

Objectives

A. Commit to Leadership in Energy and Environmental Design (LEED) certification on a minimum of three new county buildings. Train staff to become LEED Accredited Professionals. Certify a minimum of five county employees by 2009.

Cost estimate:

Estimate $800 per employee

Timeline:

Completed - six employees certified (3 Building, 2 EPD, 1 Facilities)
Ongoing awareness and training

Measurement:

Number of buildings LEED Certified and number of employees LEED certified

Status:

- Zero LEED certified buildings (Medical Examiner's Office is under development)
- Six Orange County employees LEED certified (as of 12/2008)

Contact(s):

Bob Olin, Building Safety
Susan Caswell, Planning
Vanetta Valdengo-Blevins, Facilities Management
Dennis Weatherford, Environmental Protection

B. Support revision of the building code and/or energy code to support greater efficiencies. Support state effort and consider adopting local ordinance as needed.

Comment:

County staff will support revision of Florida Energy Code, and attend Florida Building Commission meetings as needed. County lobbyist to support code revisions.

Cost estimate:

May have costs in travel budget

Timeline:

On-going

Measurement:

Estimate average carbon dioxide emission reductions as a result of new regulations

Status:

Under evaluation, waiting on new building codes to be implemented.

Contact(s):

Bob Olin, Building Safety

C. Create incentives to support green building and green development, for private sector such as reduced fees, expedited permit review.

Cost estimate:

None expected

Timeline:

March/April 2008 Present resolution to Board of County Commissioners on Orange to Green Development Program.

Measurement:

Green Government Points
Number of developers using incentive program

Status:

- Green Development Program
- Eight green permits expedited as of August 8, 2008

Contact(s):

Bob Olin, Building Safety
Susan Caswell, Planning

D. Continue to use green materials, especially in renovations, such as low volatile organic compound containing paints and coatings, carpets and carpet adhesives and composite wood, energy efficient light fixtures and mechanical systems.

Cost estimate:
Some materials may cost more, some may save money.
Timeline:
On-going
Measurements:
Reduction in energy costs per use
Estimated CO_2 emission reduction potential
Status:

- Currently sampling EverLED TR fluorescent tubes in the Project Management Office
- Agricultural Co-Operative Extension Building has several Leadership in Energy and Environmental Design (LEED) features
- Orange County Convention Center energy efficient measures
- Solar reflective roofing on buildings (ex. Renaissance Senior Center)
- Light-emitting diode (LED) traffic signals
- Natural Lighting (ex. Renaissance Senior Center)
- Heat recovery systems at Orange County Fire and Rescue stations
- Energy efficient chillers at Public Works
- Courthouse project – 118 LED lights placed in the tunnels
- Administration lighting upgrade

Contact(s):
Rich Steiger, Facilities Management
Hazem El-Assar, Traffic Engineering
John Hightower, Fire and Rescue

E. Encourage all county sponsored or financially supported projects to build green.

Cost estimate:
Unknown, anticipated increase
Timeline:
On-going
Measurement:
Estimated CO2 emission reduction potential
Status:
The three venues will be built green.
Contact(s):
Ajit Lalchandani, County Administrator
Capital Projects

F. Develop a program to reward water conservation. This could include creating water conservation credits when a new permit demonstrates less water will be used.

Comment:

Water conservation technologies and devices for new developments are reviewed and if 20% water reduction is realized, applicant receives reduced capital charges. Additionally, there are programs for toilet retrofits, shower head replacements, commercial spray valve replacements and an irrigation lab for educational purposes. More information is available on Utilities web page.

Cost estimate:

$350,000 annual cost

Timeline:

Completed

Measurement:

Estimated gallons of water saved

Status:

INCENTIVE PROGRAMS (as of 6/17/08)	Million Gallons of Water
Toilet Retrofit Program	19
Pre-rinse Spray Value Program	48
Mobile Irrigation Lab (MIL) Audit	31
Low-Flow Fixture Program	19
Total Gallons of Water Saved	117

Contact(s):

Debbie Sponsler, Solid Waste

GOAL 8

Formalize Partnership Agreements

Objectives

A. Identify jurisdictions on a regional and even worldwide basis to partner in formal agreement to reduce greenhouse gases. Encourage local municipalities to develop local climate action plans to work together on this issue. Consider establishing a "sister" city in the United Kingdom to share ideas and plans.

Comment:

Currently have agreement with City of Orlando & the Orlando Utilities Commission; provided as Attachment B.

Cost estimate:

None expected

Timeline:

On-going

Measurement:

Number of local municipalities and sister cities

Status:

Partnerships

- City of Orlando

- Coordinated with Florida Local Environmental Resource Agencies**,** Inc. (FLERA) to encourage all municipalities to become Florida Green Local Government with Florida Green Building Council by resolution
- Assisting municipalities with Green Government certification

Contact(s):

Mayor's Office
Lori Cunniff, Environmental Protection
John Lowndes, County Attorney's Office

B. Partner with various agencies that have the ability to support this Climate Change Plan and can assist in reducing greenhouse gases. Explore partnerships with Orlando Orange County Expressway Authority to encourage the use of alternative fuel vehicles and/or car pooling.

Cost estimate:

Under evaluation

Timeline:

On-going

Measurement:

Number of partnerships

Status:

<u>Partnerships</u>

- City of Orlando – Solar Cities Grant
- Orlando Utilities Commission – Solar Cities Grant, Florida Department Environmental (FDEP) Protection Photovoltaic Grant
- Progress Energy – Solar Water Heater Incentive
- University of Central Florida – Various Projects
- Channel 9
- LYNX – Biodiesel Blending Facility
- Metro Orlando Economic Development Commission

Contact(s):

Mayor's Office
Lori Cunniff, Environmental Protection

Attachment A

		Location	Contact Initiated	Implementation In Progress	Fully Invloved	SIZE and Quantity		Frequency	FRQY OF SERVICE	MONTHLY PRICE	TOTAL X 12 =	EST. BID	CY Per Month	Progress by Quarter						Total Quantity		
														FY 07-08				FY 08-09				
		Lot A – Facilites Management				Cubic Yard	# Units							1st Oct- Dec	2nd Jan- Mar	3rd Apr- Jun	4th Jul- Sep	1st Oct- Dec	2nd Jan- Mar	Cubic Yardage	Tons	Savings to Date
1	1	Carpenter Shop 2010 E. Michigan St			1	DEL			2X'S PER WK	$140.00	$1,680.00		#VALUE!									
2	2	Ocoee Service Building 475 Story Road W.			1	8	1	1	1X PER WK	$70.00	$840.00		34.64					34.64	34.64	69.28	11.55	$ 404.13
3	3	Great Oaks Village (Learning Center) 1718 E. Michigan Street			1	8	1	1	2X'S PER WK	$140.00	$1,680.00		34.64			69.28	69.28	34.64	34.64	207.84	34.64	$ 1,212.40
4	4	Great Oaks Village (Evans Dinningr) 1718 E. Michigan Street			1	8	1	1	3X'S PER WK	$210.00	$2,520.00		34.64			69.28	69.28	34.64	34.64	207.84	34.64	$ 1,212.40
5	5	EPD Mercy Dr Warehouse			1	8	1	1	2X'S PER WK	$140.00	$1,680.00		34.64	34.64	34.64	34.64	34.64	34.64	34.64	207.84	34.64	$ 1,212.40
6	6	Sheriff's 911 Operations 6590 Amory Court			1	8	1		2X'S PER WK	$140.00	$1,680.00		0						0	0	0.00	$ -
7	7	Clerk of Court East Side 5567 N. Goldenrod Rd.			1	4	1	1	2X'S PER WK	$140.00	$1,680.00		17.32						17.32	17.32	2.89	$ 101.03
8	8	Willow Street Comm Ctr 6565 Willow St Zellwood, FL			1	8	1	1					34.64						34.64	34.64	5.77	$ 202.07
9	9	John Bridges Comm Ctr 445 - 13th Street W. Apopka, FL			1	8	1	1	3X'S PER WK	$165.00	$1,980.00		34.64						34.64	34.64	5.77	$ 202.07
10	10	John Bridges Comm Ctr 445 - 13th Street W. Apoka, FL			1	NIC	1		3X'S PER WK	$210.12	$2,521.44		#VALUE!									
11	11	Regional Data Center 4200 John Young Parkway			1	8	1	1	3X'S PER WK	$165.00	$1,980.00		34.64			69.28	69.28	34.64	34.64	207.84	34.64	$ 1,212.40
12	12	Taft Community Center 525 - 4th Street E.			1		1		2X'S PER WK	$140.00	$1,680.00		0						0	0	0.00	$ -
13	13	Sphaler Park Recreation Center 1001 4th St Taft			1	4	1	1	2X'S PER WK	$70.00	$840.00		17.32						17.32	17.32	2.89	$ 101.03
14	14	Juvenile Justice Center 2000 Michigan Street			1	8	1	1	1X PER WK	$70.00	$840.00		34.64			69.28	69.28	34.64	34.64	207.84	34.64	$ 1,212.40
15	15	Health & Family Services 2100 E. Michigan Street			1	8	1	1	1X PER WK	$70.00	$840.00		34.64			69.28	69.28	34.64	34.64	207.84	34.64	$ 1,212.40
16	16	Southwood Community Center 6221 Brookgreen Ave			1	8	1	1					34.64						34.64	34.64	5.77	$ 202.07
17	17	Great Oaks West 8125 Laurel Hills Road			1	4	1	1					17.32						17.32	17.32	2.89	$ 101.03
18	18	Corrections Support Buildings 3761 Vision Blvd			1	8	1	1					34.64			34.64	34.64	34.64	34.64	138.56	23.09	$ 808.27
19	19	Fred Douglas HS 3688 Day Care Center Rd Zellwoodk FL			1	8	1	1					34.64						34.64	34.64	5.77	$ 202.07
20	20	CAT School 6350 Wadsworth Road Mt. Dora, FL	0				1						0						0	0	0.00	$ -
21	21	Mildred Dixon CC 303 W. Crown Point Rd Winter Garden, FL			1	4	1	1					17.32						17.32	17.32	2.89	$ 101.03

		Location	Contact Initiated	Implementation In Progress	Fully Invloved	SIZE and Quantity		Frequency	FRQY OF SERVICE	MONTHLY PRICE	TOTAL X 12 =	EST. BID	CY Per Month	Progress by Quarter						Total Quantity		
														FY 07-08				FY 08-09				
		Lot A – Facilites Management				Cubic Yard	# Units							1st Oct- Dec	2nd Jan- Mar	3rd Apr- Jun	4th Jul- Sep	1st Oct- Dec	2nd Jan- Mar	Cubic Yardage	Tons	Savings to Date
22	22	Graphic Reproduction 3907 Forrestal Avenue			1	8	1	1					34.64			69.28	34.64	34.64	34.64	173.2	28.87	$ 1,010.33
23	23	Facilities Mgt. Division - East 6600 Amory Court			1	NIC	1						#VALUE!									
24	24	Holden Heights Community Center 1416 L.F. McLeod Road			1	4	1	1					17.32						17.32	17.32	2.89	$ 101.03
25	25	Booking & Release 3855 John Young Pkwy.			1	8	1	3					103.92				103.92	103.92	103.92	311.76	51.96	$ 1,818.60
26	26	Animal Control 2769 Americana Blvd			1	8	1	3					103.92					103.92	103.92	207.84	34.64	$ 1,212.40
27	27	Mosquito Control 3715 Americana Blvd			1	4	1	1	1X PER WK				17.32					17.32	17.32	34.64	5.77	$ 202.07
28	28	Sheriff's Gun Range 14500 Wewahootee Rd			1	4	1	1	1X PER WK				17.32						17.32	17.32	2.89	$ 101.03
29	29	Taft Community Center 9450/9500 South Orange Avenue			1		1		1X PER WK				0						0	0	0.00	$ -
30	30	Emergency Medical Services 650 N. Pine Hills Road			1	NIC	1															
31	31	Records Management/Property Acct 1800 Cypress Lakes Dr	0				1						0						0	0	0.00	$ -
32	32	Video Visitation Center 3000 - 39th Street			1	NIC	1															
33	33	Old Sheriff's Ops (New Sector 4) 2400 - 33rd Street	0				1						0						0	0	0.00	$ -
34	34	Cassidy Building 2200 - 33rd Street			1	8	1	2					69.28				69.28	69.28	69.28	207.84	34.64	$ 1,212.40
35	35	Public Works Building #1 4200 John Young Pkwy			1	8	1	1					34.64			34.64	34.64	34.64	34.64	138.56	23.09	$ 808.27
36	36	Public Works Building #2 4200 John Young Pkwy			1	4	1	1					17.32			17.32	17.32	17.32	17.32	69.28	11.55	$ 404.13
37	37	East Orange Community Center 12050 East Colonial Dr			1	8	1	1					34.64						34.64	34.64	5.77	$ 202.07
38	38	Pine Hills YMCA/Headstart 6400 Jennings Road		1		8	1	1					34.64						34.64	34.64	5.77	$ 202.07
39	39	YMC Headstart 814 W. Oakridge Road			1	4	1	1					17.32						17.32	17.32	2.89	$ 101.03

		Location	Contact Initiated	Implementation In Progress	Fully Invloved	SIZE and Quantity		Frequency	FRQY OF SERVICE	MONTHLY PRICE	TOTAL X 12 =	EST. BID	CY Per Month	Progress by Quarter						Total Quantity		
														FY 07-08				FY 08-09				
		Lot A – Facilites Management				Cubic Yard	# Units							1st Oct- Dec	2nd Jan- Mar	3rd Apr- Jun	4th Jul- Sep	1st Oct- Dec	2nd Jan- Mar	Cubic Yardage	Tons	Savings to Date
40		Lot B – Fire Rescue Department					1															
40	40	Fire Station #80 1841 Bonneville Drive	1			RCSP	1															
41	41	Fire Station #42 5420 Silver Star Road	1			RCSP	1															
42	42	Fire Station #63 2450 Goldenrod Road	1			RCSP	1															
43	43	Fire Station #50 1415 - 29th Street	1			RCSP	1															
44	44	Fire Station #41 4412 Edgewater Drive	1			RCSP	1															
45	45	Fire Station #51 1700 W. Oak Ridge Rd	1			RCSP	1															
46	46	Fire Station #66 966 N. Semoran Blvd	1			RCSP	1															
47	47	Fire Station #20 Washington Street	1			RCSP	1															
48	48	Fire Station #83 11950 Lake Underhill	1			RCSP	1															
49	49	Fire Station #30 38 S. Hastings Street	1			RCSP	1															
50	50	Fire Station #31 6116 S. Apopka Vineland Rd	1			RCSP	1															
51	51	Fire Station #34 3948 State Road 535	1			RCSP	1															
52	52	Fire Station #36 12552 State Road 535	1			RCSP	1															
53	53	Fire Station #40 5570 Beggs Road	1			RCSP	1															
54	54	Fire Station #52 4765 Sand Lake Rd	1			RCSP	1															
55	55	Fire Station #53 1270 La Quinta Drive	1			RCSP	1															
56	56	Fire Station #70 1027 Wallace Avenue	1			RCSP	1															
57	57	Fire Station #71 4405 S. Goldenrod Rd	1			RCSP	1															
58	58	Fire Station #72 3140 S. Conway Road	1			RCSP	1															
59	59	Fire Station #73 801 E. 1st Street	1			RCSP	1															

		Location	Contact Initiated	Implementation In Progress	Fully Invloved	SIZE and Quantity		Frequency	FRQY OF SERVICE	MONTHLY PRICE	TOTAL X 12 =	EST. BID	CY Per Month	Progress by Quarter						Total Quantity		
														FY 07-08				FY 08-09				
		Lot A – Facilites Management				Cubic Yard	# Units							1st Oct- Dec	2nd Jan- Mar	3rd Apr- Jun	4th Jul- Sep	1st Oct- Dec	2nd Jan- Mar	Cubic Yardage	Tons	Savings to Date
60	60	Fire Station #76 11361 Narcoossee Rd	1			RCSP	1															
61	61	Fire Station #81 1282 W. Chickasaw Tr	1			RCSP	1															
62	62	Fire Station #82 500 Story Partin Rd	1			RCSP	1															
63	63	Fire Station #84 Ft. Christmas	1			RCSP	1															
64	64	Fire Station #28 3250 Clarcona Road	1			RCSP	1															
65	65	Fire Station #54 5400 Central Fl Pkwy	1			RCSP	1															
66	66	Fire Station #37 50 E. Gulle Avenue	1			RCSP	1															
67	67	Fire Station #58 2900 Deerfield Blvd.	1			RCSP	1															
68	68	Communications Center 6590 Amory Court			1	8	2	2					138.56						138.56	138.56	23.09	$ 808.27
69	69	Fire Station #27 598 N Wekiva Sprgs Rd	1			RCSP	1															
70	70	Fire Station #65 4999 Orion Blvd	1			RCSP	1															
71	71	Fire Station #33 1700 Apopka-Vineland	1			RCSP	1															
72	72	Fire Station #43 7875 Silver Star Road	1			RCSP	1															
73	73	Fire Station #55 11442 Intermodal Way	1			RCSP	1															
74	74	Fire Station #56 13303 International Drive	1			RCSP	1															
75	75	Fire Station #85 13801 Townsend Drive	1			RCSP	1															
76	76	Fire Rescue Training Bldg 2976 Forsyth Road	1				1						0			0	0	0	0	0	0.00	$ -
77	77	Fire Rescue Training Bldg Warehouse 2976 Forsyth Road	1				1						0			0	0	0	0	0	0.00	$ -
78	78	FS #35 7015 Winter Garden-Vineland Rd Winter Garden, FL	1			RCSP	1															

		Location	Contact Initiated	Implementation In Progress	Fully Invloved	SIZE and Quantity		Frequency	FRQY OF SERVICE	MONTHLY PRICE	TOTAL X 12 =	EST. BID	CY Per Month	Progress by Quarter						Total Quantity		
														FY 07-08				FY 08-09				
						Cubic Yard	# Units							1st Oct- Dec	2nd Jan- Mar	3rd Apr- Jun	4th Jul- Sep	1st Oct- Dec	2nd Jan- Mar	Cubic Yardage	Tons	Savings to Date
		Lot A – Facilites Management																				
79		Lot C Public Works Department					1						0						0	0	0.00	$ -
79	79	Roads & Drainage 4737 S. Goldenrod Rd		1			1						0						0	0	0.00	$ -
80	80	Roads & Drainage 18753 Old Cheney Highway		1			1						0						0	0	0.00	$ -
81	81	Roads & Drainage 2530 Forsyth Road		1			1						0						0	0	0.00	$ -
82	82	Roads & Drainage 11442 Intermodel Dr		1			1						0						0	0	0.00	$ -
83	83	Roads & Drainage 644 Beulah Road		1			1						0						0	0	0.00	$ -
84	84	Roads & Drainage 3400 Golden Gem Rd		1			1						0						0	0	0.00	$ -
85	85	Roads & Drainage 3258 Clarcona Rd Apopka, FL		1			1						0						0	0	0.00	$ -
86	86	Public Works Transportation Bldg 4200 S. John Young Pkwy			1	DEL	1															
87	87	Public Works Mgt 4200 S. John Young Pkwy			1	DEL	1															
88	88	Public Works Bldg 5 4200 S. John Young Pkwy			1	8	1	1					34.64			34.64	34.64	34.64	34.64	138.56	23.09	$ 808.27
89	89	Public Works Bldg 7 4200 S. John Young Pkwy			1	8	1	1					34.64			34.64	34.64	34.64	34.64	138.56	23.09	$ 808.27
90		Lot D Utilities Department																		0	0.00	$ -
90	90	South WaterReclamation 4760 Sand Lake Road		1			1						0			0	0	0	0	0	0.00	$ -
91	91	Eastern Water Reclamation 1621 Alafaya Trail		1			1						0			0	0	0	0	0	0.00	$ -
92	92	Northwest Water Reclamation 701 W. McCormick R		1			1						0			0	0	0	0	0	0.00	$ -
93	93	Eastern Regional Wtp 9100 Curry Ford Road		1			1						0			0	0	0	0	0	0.00	$ -
94	94	Eastern Regional Lab. 9124 Curry Ford Road		1			1						0			0	0	0	0	0	0.00	$ -
95	95	Western Regional Wtp 2552 Lakeville Rd. Apopka, FL		1			1						0			0	0	0	0	0	0.00	$ -
96	96	Operations Center 8100 Presidents Drive		1			1						0			0	0	0	0	0	0.00	$ -
97	97	Solid Waste 5901 Yound Pine Road		1			1						0			0	0	0	0	0	0.00	$ -
98	98	Utilities Central Admin 9150 Curry Ford Road		1			1						0			0	0	0	0	0	0.00	$ -

		Location	Contact Initiated	Implementation In Progress	Fully Invloved	SIZE and Quantity		Frequency	FRQY OF SERVICE	MONTHLY PRICE	TOTAL X 12 =	EST. BID	CY Per Month	Progress by Quarter						Total Quantity		
														FY 07-08				FY 08-09				
						Cubic Yard	# Units							1st Oct- Dec	2nd Jan- Mar	3rd Apr- Jun	4th Jul- Sep	1st Oct- Dec	2nd Jan- Mar	Cubic Yardage	Tons	Savings to Date
		Lot A – Facilites Management																				
99		Lot E Parks & Recreation (3 Additionale Sites on List by Facility)					1						0			0	0	0	0	0	0.00	$ -
99	99	Barber Park 3701 Gatlin Ave			1	4	1	1					17.32		17.32	17.32	17.32	17.32	17.32	86.6	14.43	$ 505.17
100	100	Barnett Park 901 Ferrand Drive			1	6	1	1					25.98		25.98	25.98	25.98	25.98	25.98	129.9	21.65	$ 757.75
101	101	Bear Creek Recreational 1600 Bear Crossing Drive			1	4	1	1					17.32		17.32	17.32	17.32	17.32	17.32	86.6	14.43	$ 505.17
102	102	Bithlo Park 18501 Washington St			1	6	1	1					25.98		25.98	25.98	25.98	25.98	25.98	129.9	21.65	$ 757.75
103	103	Blanchard Park 2451 N. Dean Road			1	6	1	1					25.98		25.98	25.98	25.98	25.98	25.98	129.9	21.65	$ 757.75
104	104	Capehart Park 715 Capehart Drive			1	4	1	1					17.32		17.32	17.32	17.32	17.32	17.32	86.6	14.43	$ 505.17
105	105	Clarcona Park 3535 Damon Road			1	4	1	1					17.32		17.32	17.32	17.32	17.32	17.32	86.6	14.43	$ 505.17
106	106	Curry Ford Community Park 3800 S. Econ Trail			1	4	1	1					17.32		17.32	17.32	17.32	17.32	17.32	86.6	14.43	$ 505.17
107	107	Cypress Grove Park 209 Holden Avenue			1	6	1	1					25.98		25.98	25.98	25.98	25.98	25.98	129.9	21.65	$ 757.75
108	108	Downey Park 10107 Flowers Drive			1	6	1	1					25.98		25.98	25.98	25.98	25.98	25.98	129.9	21.65	$ 757.75
109	109	Dr. Phillips Park			1	4	1	1					17.32		17.32	17.32	17.32	17.32	17.32	86.6	14.43	$ 505.17
110	110	Ft. Christmas Park 1300 Ft. Christmas			1	4	1	1					17.32		17.32	17.32	17.32	17.32	17.32	86.6	14.43	$ 505.17
111	111	George Bailey Park 11972 Roberson Rd Wdmr			1	6	1	1					25.98		25.98	25.98	25.98	25.98	25.98	129.9	21.65	$ 757.75
112	112	Kelly Park 400 E. Kelly Park Road			1	6	1	1					25.98		25.98	25.98	25.98	25.98	25.98	129.9	21.65	$ 757.75
113	113	Magnolia Park 2929 Binion Road			1	4	1	1					17.32		17.32	17.32	17.32	17.32	17.32	86.6	14.43	$ 505.17
114	114	Mark Street Sr. Rec. Complex 99 E. Mark Street			1	6	1	1					25.98		25.98	25.98	25.98	25.98	25.98	129.9	21.65	$ 757.75
115	115	Moss Park 12901 Moss Park Road			1	4	1	1					17.32		17.32	17.32	17.32	17.32	17.32	86.6	14.43	$ 505.17
116	116	Orlo Vista Park 26 N. Nowell Road			1	6	1	1					25.98		25.98	25.98	25.98	25.98	25.98	129.9	21.65	$ 757.75
117	117	Shadow Bay (Lake Cane Park) 5100 Turkey Lake Rd			1	6	1	1					25.98		25.98	25.98	25.98	25.98	25.98	129.9	21.65	$ 757.75
118	118	South Orange Youth Sports Complex 1180 S. Orange Avenue			1	6	1	1					25.98		25.98	25.98	25.98	25.98	25.98	129.9	21.65	$ 757.75
119	119	Tibet-Butler Lake Preserve 8777 State Road 535			1	4	1	1					17.32		17.32	17.32	17.32	17.32	17.32	86.6	14.43	$ 505.17
120	120	Trimble Park 5700 Trimble Park Road			1	4	1	1					17.32		17.32	17.32	17.32	17.32	17.32	86.6	14.43	$ 505.17
121	121	Warehouse 1651 N. Orange Blossum Trl			1	6	1	1					25.98		25.98	25.98	25.98	25.98	25.98	129.9	21.65	$ 757.75
122	122	West Orange Trail 501 Crown Point Cross Rd Winter Garden			1	4	1	1					17.32		17.32	17.32	17.32	17.32	17.32	86.6	14.43	$ 505.17
123	123	Cooperative Extension Nursery 2201 Econ Trail, N			1	NIC										0	0	0	0	0	0.00	$ -
124	124	Econ Soccer Park 8035 Yates Road			1	NIC										0	0	0	0	0	0.00	$ -

		Location	Contact Initiated	Implementation In Progress	Fully Invloved	SIZE and Quantity		Frequency	FRQY OF SERVICE	MONTHLY PRICE	TOTAL X 12 =	EST. BID	CY Per Month	Progress by Quarter						Total Quantity		
														FY 07-08				FY 08-09				
						Cubic Yard	# Units							1st	2nd	3rd	4th	1st	2nd	Cubic Yardage	Tons	Savings to Date
		Lot A – Facilites Management												Oct- Dec	Jan- Mar	Apr- Jun	Jul- Sep	Oct- Dec	Jan- Mar			
125	125	Ft Gatlin Recreation Center 2009 Lake Margaret Dr			1	NIC										0	0	0	0	0	0.00	$ -
126	126	Goldenrod Park 4863 North Goldenrod Rd			1	NIC										0	0	0	0	0	0.00	$ -
127	127	Meadow Woods Park 1751 Rhode Is. Woods Cr.			1	NIC										0	0	0	0	0	0.00	$ -
128	128	R D Keene Park 1090 Chase Rd. Wndrm			1	NIC										0	0	0	0	0	0.00	$ -
129	129	Randolph Boat Ramp Lake Conway Road			1	NIC										0	0	0	0	0	0.00	$ -
130	130	Rolling Hills Little League Complex 4950 N. Pine Hills Road			1	NIC										0	0	0	0	0	0.00	$ -
131	131	Trimble Park 5700 Trimble Park Road			1	NIC										0	0	0	0	0	0.00	$ -
132	132	W. Orange Trail 17922 Old SR 50 Winter Garden, FL			1	NIC										0	0	0	0	0	0.00	$ -
133	133	Warren Park 3406 Warren Park Drive			1	NIC										0	0	0	0	0	0.00	$ -
134	134	West O Trail(Apopka Station)111 S. Forest Ave., Apopka, FL			1	NIC										0	0	0	0	0	0.00	$ -
135	135	West Orange Park 150 Windermere Rd			1	NIC										0	0	0	0	0	0.00	$ -

		Location	Contact Initiated	Implementation In Progress	Fully Invloved	SIZE and Quantity: Cubic Yard	SIZE and Quantity: # Units	Frequency	FRQY OF SERVICE	MONTHLY PRICE	TOTAL X 12 =	EST. BID	CY Per Month	Progress by Quarter: FY 07-08 1st Oct- Dec	FY 07-08 2nd Jan- Mar	FY 07-08 3rd Apr- Jun	FY 07-08 4th Jul- Sep	FY 08-09 1st Oct- Dec	FY 08-09 2nd Jan- Mar	Total Quantity: Cubic Yardage	Total Quantity: Tons	Total Quantity: Savings to Date
		Lot A – Facilites Management																				
136		Lot X – City of Orlando Buildings					1						0								0.00	$ -
136	136	Sherrif Central & Fleet Operations 2200 W Colonial Dr	0			8	1	1					34.64						34.64	34.64	5.77	$ 202.07
137	137	4548 Park Breeze Ct. Rosemont	0			4	1	1					17.32						17.32	17.32	2.89	$ 101.03
138	138	3534 E. Amelia St., Ste B196 Hangers			1	4	1	1					17.32						17.32	17.32	2.89	$ 101.03
139	139	450 E. South St.			1	6	1	3					77.94		77.94	77.94	77.94	77.94	77.94	389.7	64.95	$ 2,273.25
140	140	933 W.D. Judge Dr. Hal Marston			1	8	1	1					34.64						34.64	34.64	5.77	$ 202.07
141	141	101 S. Westmoreland Dr. Medical Clinic			1	8	1	1					34.64						34.64	34.64	5.77	$ 202.07
142	142	4536 - 35th St. Sheriff Evidence Wa	0				1						0						0	0	0.00	$ -
143	143	Regional History Center 65 E. Central Ave.			1	4	1	1					17.32					17.32	17.32	34.64	5.77	$ 202.07
144	144	6021 Conway Rd. Fire Station 72	1			RCSP	1															
145	145	832 W. Central Blvd Health Departm	1			8	1	2					69.28						69.28	69.28	11.55	$ 404.13
146	146	5151 Raleigh St. Lila Mitchell			1	8	1	1					34.64						34.64	34.64	5.77	$ 202.07
147	147	2000 Lucerne Terrace Work Release 130 Kaley (Work Relea			1	8	1	2					69.28				34.64	69.28	69.28	173.2	28.87	$ 1,010.33
148	148	425 N. Orange Ave. Courthouse			1	8	1	5					173.2	103.92	103.92	103.92	173.2	173.2	173.2	831.36	138.56	$ 4,849.60
149	149	3511 Parkway Center Ct., Ste A 911 Radio Services			1	NIC	1															
150	150	Supervisor of Elections 119 Kaley Street			1	8	1						0						0	0	0.00	$ -
151	151	4677 L B McLeod Rd., Ste K Clerk Of Court			1	8	1	2					69.28						69.28	69.28	11.55	$ 404.13
152	152	3521 Parkway Center Ct Facilities Management West			1	8	1	1					34.64						34.64	34.64	5.77	$ 202.07
153	153	CO-OP Extension			1	8	1	1					34.64						34.64	34.64	5.77	$ 202.07
154	154	201 S. Rosalind Ave.			1	2	2	3					51.96	51.96	51.96	51.96	51.96	51.96	51.96	311.76	51.96	$ 1,818.60

		Location	Contact Initiated	Implementation In Progress	Fully Invloved	SIZE and Quantity: Cubic Yard	SIZE and Quantity: # Units	Frequency	FRQY OF SERVICE	MONTHLY PRICE	TOTAL X 12 =	EST. BID	CY Per Month	Progress by Quarter: FY 07-08 1st Oct- Dec	FY 07-08 2nd Jan- Mar	FY 07-08 3rd Apr- Jun	FY 07-08 4th Jul- Sep	FY 08-09 1st Oct- Dec	FY 08-09 2nd Jan- Mar	Total Quantity: Cubic Yardage	Total Quantity: Tons	Total Quantity: Savings to Date
		Lot A – Facilites Management																				
		Lot Y – City of Apopka Buildings																			0.00	$ -
155	155	Apopka Service Building 1111 N. Rock Springs Road			1	8	1	1					34.64						34.64	34.64	5.77	$ 202.07
		Lot Z – City of Winter Garden Buildings					1						0									
156	156	Mildred Dixon CC 303 W. Crown Point Rd Winter Garden, FL		1	1	4	1	1					17.32						17.32	17.32	2.89	$ 101.03
157	157	Maxey Community Center 830 Klondike Road Winter Garden		1	1	RCSP	1															$ -
		Sub Totals	40	19	94																	$ -
								Cubic Yards						190.52	788.06	1359.62	1602.1	1636.74	2537.38	8114.42		
								Tons						31.75	131.34	226.60	267.02	272.79	422.90	1352.40	1352.40	$ 47,334.12
														$ 1,111.37	$ 4,597.02	$ 7,931.12	$ 9,345.58	$ 9,547.65	$ 14,801.38	$ 47,334.12	Total Tonnage	Savings to Date*
														1st Oct- Dec	2nd Jan- Mar	3rd Apr- Jun	4th Jul- Sep	1st Oct- Dec	2nd Jan- Mar			

These are primarily Fire Station locations than only generate small amouts of waste materials. We are looking into having the County's residential curbside program (RCSP) applied to these facilities.

Number of Facilities 2nd Quarter FY 08/09 (3-31)		Percentage
*... at Initial Contact Stage	40	25%
...with Program In Progress	19	12%
... with Program Fully Involved	94	60%
… Total Supporting Program	153	97%
… Total Contacted but Not Supporting (...at this time)	-4	-3%

Progress Status at End of 2nd Quarter FY 08/09 (3-31)

Orange to Green report is that 97% of Orange County buildings have or are implementing a recycling program as defined in Goal 5 Objective C of the Climate Change Implementation Plan

*Savings to Date by FY Quarter is based on $35.10 per ton cost avoided from landfill fees.

Attachment B

APPROVED
BY ORANGE COUNTY BOARD
OF COUNTY COMMISSIONERS
JAN 0 6 2009 JB/NP

INTERLOCAL AGREEMENT

between

ORANGE COUNTY

and

THE ORLANDO UTILITIES COMMISSION

relating to the

PHOTOVOLTAIC DEMONSTRATION AND RESEARCH FACILITY

THIS INTERLOCAL AGREEMENT ("Agreement") is entered into by and between ORANGE COUNTY, a charter county and political subdivision of the State of Florida, whose address for the purposes of this agreement is P.O. Box 1393, Orlando, Florida 32802-1393, and the ORLANDO UTILITIES COMMISSION, a statutory commission created by the Chapter 9861, Laws of Florida 1923, as amended ("OUC"), whose address for the purposes of this agreement is Reliable Plaza at 100 W. Anderson St., Orlando, FL 32802.

RECITALS

WHEREAS, Orange County desires to construct a one-megawatt photovoltaic demonstration and research facility on Phase V of the Orange Convention Center (the "PV Project"); and

WHEREAS, on January 29, 2008, Orange County received a Florida Renewable Energy Technologies Grant for $2,500,000 from the Florida Department of Environmental Protection for the PV Project; and

WHEREAS, it is anticipated that the PV Project will result in the availability of certain environmental attributes associated with the generation of solar energy, including but not limited to, renewable energy certificates, "green tags," carbon offsets, or other tradeable environmental interests (collectively "Environmental Attributes"), which are separate from the energy produced and may be separately transferred or conveyed; and

WHEREAS, OUC desires to pay, and Orange County desires to receive, One Million Five Hundred Thousand Dollars ($1,500,000.00) toward the construction, of the PV Project, in partial consideration for which OUC will receive the exclusive rights to purchase all Environmental Attributes generated by the PV Project and be acknowledged as the exclusive sponsoring utility partner of the PV Project; the parties recognize that OUC's payment will partially satisfy OUC's commitment to Orange County found in Article XXXI.F. of the Supplemental Conditions of Certification, dated August 17, 2006, as incorporated into the Final Order resolving In Re: Orlando Utilities Commission, Curtis H. Stanton Energy Center Unit B IGCC Project Power Plant Siting Supplemental Application No. PA 81-14SA3, DOAH Case No. 06-0735EP, DEP OGC NO, 06-0491; and

WHEREAS, the parties desire that all the proceeds from OUC's purchase of the Environmental Attributes shall be placed in Orange County's "Energy Efficiency, Renewable Energy and Conservation Fund" for use by Orange County in the financing of carbon offsets such as energy efficiency, renewable energy, and energy conservation projects with priority given to projects in OUC's territory ; and

WHEREAS, on September 9, 2008, the Orange County Board of County Commissioners approved participation with the City of Orlando and OUC in the U.S. Department of Energy's Solar America Cities 2008 Grant No. DE-FC36-08GO18090/A000, in which Orange County expressed its commitment to promoting solar energy in public projects with an in-kind match valued at $468,867; and

WHEREAS, Orange County has determined that this Agreement is in the public interest; and

WHEREAS, Orange County and OUC desire to set out in this Agreement the terms and conditions of OUC's participation in the PV Project.

NOW THEREFORE, in consideration of the mutual benefits to be derived herefrom, and other good and valuable consideration, the receipt and sufficiency of which the parties hereby acknowledge, Orange County and OUC do hereby agree as follows:

1. Payment by OUC. OUC shall to pay to Orange County $1,500,000.00 in accordance with the terms set forth below.

   a. OUC shall pay to Orange County the first installment of $1,000,000.00 within 30 days of the effective date of this Agreement.

   b. OUC shall pay to Orange County the second and final installment of $500,000.00 within 30 days of receiving notice from Orange County that the PV Project construction is fully operational.

2. Right to Purchase Environmental Attributes. In partial consideration of the OUC payment to Orange County, OUC shall have the exclusive rights to purchase any or all of the Environmental Attributes generated from the one-megawatt PV Project during the term of this Agreement, subject to the terms and conditions herein. During the Initial Term of this Agreement (as defined hereinbelow), OUC's purchase price of the Environmental Attributes shall be the average annual daily trade clearing price for carbon offsets on the Chicago Climate Exchange (CCX), adjusted biennially thereafter; provided, however, in the event of the development of an equivalent carbon index specifically for the Florida market, OUC's purchase price for the Environmental Attributes shall be the average annual daily trade clearing price (or equivalent) for carbon offsets on that index, adjusted biennially thereafter. If OUC fails to purchase the Environmental Attributes, Orange County shall be entitled to sell or otherwise dispose of Environmental Attributes as it deems fit.

3. Method of Payment. All payments to the County for the purchase of Environmental Attributes shall be made to the Orange County Board of County Commissioners and submitted to the EPD with the notation "Energy Efficiency, Renewable Energy and Conservation Fund." Payments shall, at a minimum, be made no later than sixty (60) days after conveyance by Orange County of the Environmental Attributes.

4. Metering. The County will allow for and assist in the accurate metering of the energy associated with the Environmental Attributes. OUC shall, at its own cost and expense, install, own, operate, and maintain the necessary metering equipment, subject to applicable governmental and industry standards.

5. Education Center. OUC shall provide the County with in-kind marketing and educational support in the amount of fifty thousand dollars ($50,000.00) during the first two years of this Agreement for the Education Center within the Orange County Convention Center. OUC is the major utility sponsor at the Education Center but this does not exclude other utilities from sponsoring and/or participating in the Center's programs. OUC has the right of first refusal to participate in utility-related Education Center-sponsored events.

6. Sponsoring Power Generation Partner. For the entire term of this Agreement, OUC shall be the exclusive power generation partner, and shall be identified as "Sponsoring Power Generation Partner" on all of Orange County's signage, press releases, marketing collateral and promotional materials, commercials and other advertisements promoting the PV Project.

7. Excess Energy. If any excess energy is generated by the PV Project and not used by the Orange County Convention Center ("OCCC"), OUC shall receive all of the excess energy in exchange for which the OCCC shall receive "Billed Energy" credit as set forth in OUC's Net Metering Tariff on file with the Florida Public Service Commission. To the extent tax credits exist, beyond those defined as Environmental Attributes herein, they shall remain the property of Orange County.

8. Effective Date. The effective date of this Agreement shall be the later date of execution by either of the parties ("Effective Date"). The Initial Term of this Agreement shall commence upon the Effective Date and shall run for a period of ten (10) years. Thereafter, the Agreement shall be automatically renewed for successive five-year terms; provided, however, that either party may terminate this Agreement by written notice to the other party received no later than ninety (90) days before the end of each term.

9. No Agency. When acting pursuant to the terms of this Agreement, the parties are each fully independent and will not be, or be deemed, agents, servants, employees, partners or joint ventures for any purpose whatsoever. No party is authorized or empowered to act as agent for another party for any purpose and shall not on behalf of another enter into any contract, warranty, or representation as to any matter. Except as provided herein, no party shall be bound by the acts or conduct of another party.

10. Compliance with Laws and Regulations. In complying with the terms of this Agreement, the parties shall abide by all statutes, ordinances, rules, and regulations pertaining to, or regulating the provisions of, such services, including those now in effect and hereafter adopted.

11. Entire Agreement. This Agreement constitutes the entire agreement of the parties. The parties agree and understand that the parties are not bound by any stipulations, representations, agreements, or promises, oral or otherwise, not printed or inserted in this Agreement. This Agreement cannot be changed orally, nor by any means other than by written amendments expressly referencing this Agreement and signed by all parties hereto. The parties to this Agreement have participated fully in the negotiation and preparation hereof, and, accordingly, this Agreement shall not be more strictly construed against any one of the parties hereto.

12. Applicable Law; Venue. This Agreement and the provisions contained herein shall be construed, controlled, and interpreted according to the laws of the State of Florida without regard to principles of conflicts of law. Venue for any proceeding initiated pursuant to this Agreement shall be in a court of competent jurisdiction in Orange County, Florida.

13. Assignment. Neither party may sell, assign or transfer this Agreement or any interest it may have hereunder, without prior written approval of the other party, such approval to be not unreasonably withheld, and provided that any such assignment shall not unreasonably interfere with the rights of the non-assigning party hereunder. All covenants, terms, conditions, and provisions of this Agreement shall be binding upon the parties hereto and shall extend to and be binding upon the successors and permitted assigns of the parties hereto. Subject to the foregoing, this Agreement shall be binding upon and inure to the benefit of the parties hereto, and their respective legal representatives, successors and assigns, including any public body which will succeed to or have assigned to it any of the functions of the parties with respect to this Agreement, and any reference to OUC and County shall include a reference to their respective successors, assigns and nominees.

14. Notices. Any notice, request, demand, statement and or payment provided for herein shall be in writing and, except as otherwise provided herein, shall be sent to the parties hereto at the following addresses:

County: Orange County, Florida
ATT: County Administrator
P.O. Box 1393
Orlando, FL 32802-1393

With copy to: Orange County, Florida
Environmental Protection Division
ATT: Manager
800 Mercy Drive, Suite 4
Orlando, FL 32804

OUC: Orlando Utilities Commission
Attn: Vice President of Strategic Planning
Reliable Plaza at 100 W. Anderson St.
Orlando, FL 32802

Such notices and communications shall be deemed to have been given and received when personally delivered or upon receipt as evidenced by a United States Postal Service Receipt for Certified Mail or evidence of delivery by a private express mail service or upon receipt by facsimile provided that the sender promptly thereafter delivers a copy of the notice together with the receipt issued by the sender's facsimile machine, to the recipient. Either party may change the address to which communications or payments are to be made by notice to the other party as set forth above.

15. Waiver. A waiver by either OUC or County of any failure of the other party to perform any of its obligations under this Agreement shall not be construed as a waiver of any future or continuing failure or failures, whether similar or dissimilar thereto.

SIGNATURES ON FOLLOWING PAGE

IN WITNESS WHEREOF, the parties have hereunto set their hands as of the dates written below.

ORANGE COUNTY, FLORIDA

By: Board of County Commissioners

By: _____
Richard T. Crotty
Orange County Mayor

Date: 1-6-09

ATTEST: Martha O. Haynie, County Comptroller
As Clerk of the Board of County Commissioners

By: _____
Deputy Clerk

Date: JAN 0 6 2009

Orlando Utilities Commission

By: _____
Kenneth P. Ksionek
General Manager and CEO

Attest:

_____
Name: Sharon L. Knudsen
Title: Assistant Secretary

Approved as to form and legality,
OUC Legal Department

By: _____

Date: February 3, 2009