MEMORANDUM Agenda Item No. 11(A)(19)

TO: Honorable Chairman Dennis C. Moss and Members, Board of County Commissioners

DATE: June 2, 2009

FROM: R. A. Cuevas, Jr. County Attorney

SUBJECT: Resolution directing the County Mayor or County Mayor's designee to evaluate the potential for Miami-Dade County to join the LED City partnership

The accompanying resolution was prepared and placed on the agenda at the request of Prime Sponsor Commissioner Katy Sorenson.

R. A. Cuevas, Jr.
County Attorney

RAC/cp

MEMORANDUM

(Revised)

TO: Honorable Chairman Dennis C. Moss
and Members, Board of County Commissioners

DATE: June 2, 2009

FROM: R. A. Cuevas, Jr.
County Attorney

SUBJECT: Agenda Item No. 11(A)(19)

Please note any items checked.

_____ **"4-Day Rule" ("3-Day Rule" for committees) applicable if raised**

_____ **6 weeks required between first reading and public hearing**

_____ **4 weeks notification to municipal officials required prior to public hearing**

_____ **Decreases revenues or increases expenditures without balancing budget**

_____ **Budget required**

_____ **Statement of fiscal impact required**

_____ **Bid waiver requiring County Mayor's written recommendation**

_____ **Ordinance creating a new board requires detailed County Manager's report for public hearing**

_____ **Housekeeping item (no policy decision required)**

_____ **No committee review**

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 11(A)(19)
6-2-09

RESOLUTION NO. _____

RESOLUTION DIRECTING THE COUNTY MAYOR OR COUNTY MAYOR'S DESIGNEE TO EVALUATE THE POTENTIAL FOR MIAMI-DADE COUNTY TO JOIN THE LED CITY™ PARTNERSHIP; IDENTIFY AN APPROPRIATE PROJECT, FUNDING SOURCES, POTENTIAL GRANTS, AND EXPECTED EFFICIENCY AND CARBON EMISSION GAINS FOR A PILOT STUDY OF LIGHT EMITTING DIODE ("LED") OUTDOOR LIGHTING; AND PROVIDE RECOMMENDATIONS TO THE BOARD OF COUNTY COMMISSIONERS

WHEREAS, Light Emitting Diode ("LED") technology is quickly advancing as an extremely energy efficient, rugged, and long-lasting solid state lighting alternative to traditional lighting products; and

WHEREAS, a number of municipalities across the globe have advocated the implementation of LED lights as a way to save energy and drive down maintenance costs for their cities, and cities such as Raleigh, North Carolina; Austin, Texas; Ann Arbor, Michigan; Anchorage, Alaska; as well as Toronto, Canada; Tinjin, China; and Torraca, Italy have implemented LED lighting solutions through a partnership called LED City™; and

WHEREAS, the LED City™ is an expanding community of government and industry partners working to promote and deploy LED lighting technology across the full range of municipal infrastructure with the goals of saving energy, protecting the environment, reducing maintenance costs, improving light quality for enhanced visibility and safety, and saving tax dollars; and

WHEREAS, Miami-Dade County operates tens of thousands of lighting fixtures along public roads, parking structures, train stations, and other locations requiring high-quality outdoor lighting for safety and security; and

WHEREAS, LEDs may offer an exceedingly efficient and environmentally clean lighting source because LEDs are estimated to be over four times more efficient than traditional incandescent light bulbs, LEDs are solid-state devices rather than glass tubes with filaments, which makes LEDs far more durable and long lasting than traditional incandescent light bulbs, and LEDs typically last 10-12 years, which may significantly reduce maintenance costs and impact on landfills and the environment; and

WHEREAS, Miami-Dade County could show statewide leadership in climate change mitigation efforts by advancing the use of high efficiency lighting technology and becoming the first Florida local government to become an LED City™ partner; and

WHEREAS, energy efficiency gains from advanced outdoor lighting technology, such as LEDs, may significantly reduce Miami-Dade County's carbon footprint and may help the County achieve the 20% energy reduction goals stipulated in R-228-09,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that the Miami-Dade County Mayor or County Mayor's designee is directed to evaluate the potential for Miami-Dade County to join the LED City™ partnership; identify an appropriate project for a pilot study for the installation of LED outdoor lighting; identify the appropriate funding source, potential grants, and expected efficiency and carbon emission reduction for the pilot study; and provide recommendations to the Board of County Commissioners

for executing the pilot study, funding, and potential for membership as an LED City™ partner within 90 days of the effective date of this resolution.

The Prime Sponsor of the foregoing resolution is Katy Sorenson. It was offered by Commissioner , who moved its adoption. The motion was seconded by Commissioner and upon being put to a vote, the vote was as follows:

Dennis C. Moss, Chairman
Jose "Pepe" Diaz, Vice-Chairman

Bruno A. Barreiro	Audrey M. Edmonson
Carlos A. Gimenez	Sally A. Heyman
Barbara J. Jordan	Joe A. Martinez
Dorrin D. Rolle	Natacha Seijas
Katy Sorenson	Rebeca Sosa
Sen. Javier D. Souto	

The Chairperson thereupon declared the resolution duly passed and adopted this 2nd day of June, 2009. This resolution shall become effective ten (10) days after the date of its adoption unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By:_____
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

Abbie N. Schwaderer

OFFICIAL FILE COPY
CLERK OF THE BOARD
OF COUNTY COMMISSIONERS
MIAMI-DADE COUNTY, FLORIDA

MEMORANDUM Agenda Item No. 11(A)(7)

TO: Honorable Chairman Dennis C. Moss and Members, Board of County Commissioners

DATE: March 3, 2009

FROM: R. A. Cuevas, Jr. County Attorney

SUBJECT: Resolution to reduce Miami-Dade County Government's Electrical Energy Consumption
Resolution No. R-228-09

The accompanying resolution was prepared and placed on the agenda at the request of Prime Sponsor Commissioner Katy Sorenson, and Co-Sponsors Commissioner Sally A. Heyman, and Commissioner Rebeca Sosa.

R. A. Cuevas, Jr.
County Attorney

RAC/cp

RESO\2078

MEMORANDUM

(Revised)

TO: Honorable Chairman Dennis C. Moss and Members, Board of County Commissioners

DATE: March 3, 2009

FROM: R. A. Cuevas, Jr. County Attorney

SUBJECT: Agenda Item No. 11(A)(7)

Please note any items checked.

_____ **"4-Day Rule" ("3-Day Rule" for committees) applicable if raised**

_____ **6 weeks required between first reading and public hearing**

_____ **4 weeks notification to municipal officials required prior to public hearing**

_____ **Decreases revenues or increases expenditures without balancing budget**

_____ **Budget required**

_____ **Statement of fiscal impact required**

_____ **Bid waiver requiring County Mayor's written recommendation**

_____ **Ordinance creating a new board requires detailed County Manager's report for public hearing**

_____ **Housekeeping item (no policy decision required)**

_____ **No committee review**

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 11(A)(7)
3-3-09

RESOLUTION NO. **R-228-09**

RESOLUTION TO REDUCE MIAMI-DADE COUNTY GOVERNMENT'S ELECTRICAL ENERGY CONSUMPTION

WHEREAS, the cost of fuel for electricity generation has increased dramatically within the past year and the US Energy Information Administration has forecast that the price of oil and natural gas, the source of most of the fuel for electricity generation for Miami-Dade County government, will remain high for the foreseeable future; and

WHEREAS, Florida Power & Light Company, the primary electric utility in Miami-Dade County, has received approval from the Florida Public Service Commission (PSC) to increase fuel charges by 8% starting in August 2008, and in 2009 will request an increase in base rate charges to compensate for rising costs; and

WHEREAS, Florida Power & Light Company has also received approval from the PSC to begin collecting additional funds from customers for the initial cost of planning additional nuclear power facilities at the Turkey Point complex; and

WHEREAS, this rise in energy costs will directly affect the operating budget of Miami-Dade County government, which used 1.17 million megawatt-hours of electricity in 2007 alone; and

WHEREAS, it is imperative that the County aggressively pursue energy conservation options wherever and whenever possible to contain electricity costs and to protect the environment through reduced emissions of pollution,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that:

Section 1. The Mayor is hereby directed to develop a plan to reduce electricity consumption in County governmental operations by 20% from 2007 County usage consumption levels not later than 2014 (234,000 mwh).

Section 2. The Mayor is hereby directed to investigate all opportunities to reduce electric energy consumption in County operations and conduct electric energy audits for all County departments to identify both short and long-term opportunities for electric energy savings including, but not limited to:

a. Mandating that building energy use and carbon emissions be measured, tracked, managed and benchmarked, annually at a minimum, through the use of EPA's Energy Star Portfolio Manager along with other applicable building energy use tracking and management tools that the Mayor or his designee deem necessary for effective facilities-based energy management;

b. Commissioning (a process designed to achieve, verify, and document improved energy efficiency, environmental health, indoor air quality) for existing energy-consuming County buildings and facilities to maximize energy performance;

c. Establishing a mandate for the County to procure products qualified by the Energy Star program on date of purchase for all purchases for which the Energy Star program has established standards;

d. Deploying renewable energy generation where feasible and accelerating landfill gas energy projects;

e. Establishing policies for reducing electric energy demand in County computers by requiring that electric energy-saving features be activated on all desktop computer systems (excluding systems required for emergency safety systems) and in a fashion that does not allow employees to disable such features, and that the County utilize software upgrade tools recommended by the Energy Star program;

f. Evaluating the electric energy consumption of the County server farms and setting a goal for reducing electric power consumption by the County's technology infrastructure;

g. Training qualified County building and plant maintenance staff to perform small-scale energy efficiency retrofits;

h. Developing an energy efficiency educational campaign for County employees to complement investments in electric energy efficient equipment and other energy conservation investments.

Section 3. The Mayor shall prepare and submit the electricity consumption reduction plan described in Section 1 hereinabove to the Board of County Commissioners within ninety (90) days of the date of passage and adoption of this Resolution.

The Prime Sponsor of the foregoing resolution is Commissioner Katy Sorenson and the Co-Sponsors are Commissioner Sally A. Heyman, and Commissioner Rebeca Sosa. It was offered by Commissioner **Jose "Pepe" Diaz** , who moved its adoption. The motion was seconded by Commissioner **Rebeca Sosa** and upon being put to a vote, the vote was as follows:

Dennis C. Moss, Chairman	**aye**		
Jose "Pepe" Diaz, Vice-Chairman	**aye**		
Bruno A. Barreiro	**aye**	Audrey M. Edmonson	**aye**
Carlos A. Gimenez	**aye**	Sally A. Heyman	**aye**
Barbara J. Jordan	**aye**	Joe A. Martinez	**absent**
Dorrin D. Rolle	**aye**	Natacha Seijas	**absent**
Katy Sorenson	**aye**	Rebeca Sosa	**aye**
Sen. Javier D. Souto	**absent**		

The Chairperson thereupon declared the resolution duly passed and adopted this 3rd day of March, 2009. This resolution shall become effective ten (10) days after the date of its adoption unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By: **Kay Sullivan**
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

Peter S. Tell

MIAMI-DADE COUNTY
BOARD OF COUNTY COMMISSIONERS
OFFICE OF THE COMMISSION AUDITOR

Legislative Notes

Agenda Item:	**11A19**
File Number:	**091369**
Committee(s) of Reference:	**BCC**
Date of Analysis:	**May 18, 2009**
Type of Item:	**Directive**
Sponsor:	**Commissioner Katy Sorenson**
Commission District:	**Countywide**

Summary

This resolution directs the County Mayor to evaluate the potential for Miami-Dade County to join the LED City Partnership, a consortium of government and industry partners whose mission is to deploy and promote the use of LED (Light Emitting Diode) technology for general illumination and energy conservation purposes. The resolution also directs the Mayor to identify an appropriate pilot project for incorporating LED lighting, funding sources, potential grants, and provide a benchmark measure of the potential level of carbon emission that may be reduced under the pilot program.

Background and Relevant Legislation

In March 2009, the Board of County Commissioners adopted Resolution R-228-09, a resolution to reduce the County's electrical energy consumption. The resolution directed the County Mayor to pursue energy conservation options which would reduce electricity consumption by 20% no later than 2014, and to investigate all opportunities to reduce electrical energy consumption in Countywide operations which includes procuring products qualified by the Energy Star program.

The pending proposed resolution implements the directive of R-228-09 by requiring the County Mayor to test the economic and environmental benefits of retrofitting LED lighting in countywide public settings, and to study the feasibility of becoming a LED City partner.

Policy Change and Implication

None

Budgetary Impact

Unknown.

The City of Raleigh, NC, which is a LED City, has reported that savings in maintenance and energy costs from the LED technology is anticipated to yield "a payback ranging from four to seven years, assuming an annual increase in maintenance and energy costs of approximately 3 percent." (Source: City of Raleigh Press Release,"City Of Raleigh, Cree Team Up To Create First Led City," issued 9/4/08)

Prepared by: Lauren Young-Allen