



COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS AGENDA ITEM REQUEST FORM

The Board of County Commissioners meets the 1st and 3rd Thursday of each month at 5:30 p.m. in the Columbia County School Board Administrative Complex Auditorium, 372 West Duval Street, Lake City, Florida 32055. All agenda items are due in the Board's office one week prior to the meeting date.

Today's Date: 11/30/2017 Meeting Date: 12/7/2017

Name: Scott Ward Department: BCC Administration

Division Manager's Signature:

Ben Scott

1. Nature and purpose of agenda item:

To approve the conversion of FPL owned and maintained street lighting to LED fixtures

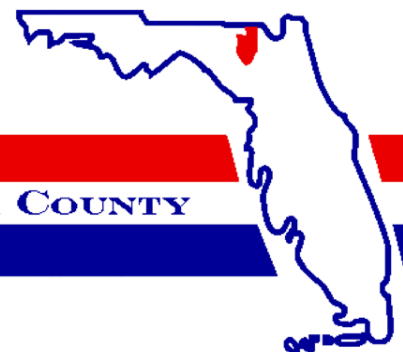
2. Recommended Motion/Action:

There is no recommended motion or action.

3. Fiscal impact on current budget.

This item has no effect on the current budget.

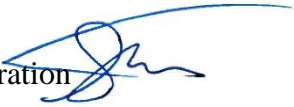
District No. 1 - Ronald Williams
District No. 2 - Rusty DePratter
District No. 3 - Bucky Nash
District No. 4 - Everett Phillips
District No. 5 - Tim Murphy



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

MEMORANDUM

TO: Ben Scott, County Manager

FR: Scott Ward, Assistant County Manager – Administration 

DATE: November 30, 2017

RE: Florida Power and Light – LED Lighting Agreement

Florida Power and Light (FPL) conducted a lighting conversion cost analysis for the County and recommends converting to LED fixtures. FPL proposes removing 364 sodium vapor fixtures from County street lights and replacing them with energy efficient LED fixtures at no up-front cost to the County. FPL will recoup the \$0.97 per fixture cost through a monthly conversion fee. According to the analysis, the County would save \$998.21 per month in energy cost after conversion fees. This conversion is only applicable to existing FPL owned and maintained street lighting fixtures.

According to FPL, the LED fixtures are more efficient and more effectively focus their light. Therefore, the LED fixtures emit brighter to the street while reducing light pollution. If approved, FPL will put our order in the work queue. There is currently an estimated 6 to 12 month waiting period. I am requesting Board approval of the attached FPL LED Lighting Agreement.

XC: Outgoing Correspondence

BOARD MEETS FIRST AND THIRD THURSDAY AT 5:30 P.M.

FPL Account Number: _____

FPL Work Request Number: _____

LED LIGHTING AGREEMENT

In accordance with the following terms and conditions, _____ (hereinafter called the Customer), requests on this _____ day of _____, _____, from FLORIDA POWER & LIGHT COMPANY (hereinafter called FPL), a corporation organized and existing under the laws of the State of Florida, the following installation or modification of lighting facilities at (general boundaries) _____, located in _____, Florida.

- (a) Installation and/or removal of FPL-owned facilities described as follows:

<u>Poles</u>				
Pole Type	Existing Pole Count (A)	# Installed (B)	# Removed (C)	New Pole Count (A+B-C)
Wood				
Standard Concrete				
Standard Fiberglass				
Decorative Concrete				
Decorative Fiberglass				

<u>Underground Conductor</u>				
Type	Existing Footage (A)	Feet Installed (B)	Feet Removed (C)	New Footage (A+B-C)
Under Pavement		N/A ⁽¹⁾		
Not Under Pavement				

(1) All new conductor installed is in conduit and billed as Not Under Pavement

(Continued on Sheet No. 9.141)

[illegible]

(Continue on Sheet No. 9.142)

(b) Modification to existing facilities other than described above (explain fully): _____

That, for and in consideration of the covenants set forth herein, the parties hereto covenant and agree as follows:

FPL AGREES:

1. To install or modify the lighting facilities described and identified above (hereinafter called the Lighting System), furnish to the Customer the electric energy necessary for the operation of the Lighting System, and furnish such other services as are specified in this Agreement, all in accordance with the terms of FPL's currently effective lighting rate schedule on file at the Florida Public Service Commission (FPSC) or any successive lighting rate schedule approved by the FPSC.

THE CUSTOMER AGREES:

2. To pay a contribution in the amount of \$_____ prior to FPL's initiating the requested installation or modification.
3. To purchase from FPL all of the electric energy used for the operation of the Lighting System.
4. To be responsible for paying, when due, all bills rendered by FPL pursuant to FPL's currently effective lighting rate schedule on file at the FPSC or any successive lighting rate schedule approved by the FPSC, for facilities and service provided in accordance with this agreement.
5. To provide access, final grading and, when requested, good and sufficient easements, suitable construction drawings showing the location of existing and proposed structures, identification of all non-FPL underground facilities within or near pole or trench locations, and appropriate plats necessary for planning the design and completing the construction of FPL facilities associated with the Lighting System.
6. To perform any clearing, compacting, removal of stumps or other obstructions that conflict with construction, and drainage of rights-of-way or easements required by FPL to accommodate the lighting facilities.

IT IS MUTUALLY AGREED THAT:

7. Modifications to the facilities provided by FPL under this agreement, other than for maintenance, may only be made through the execution of an additional lighting agreement delineating the modifications to be accomplished. Modification of FPL lighting facilities is defined as the following:
 - a. the addition of lighting facilities;
 - b. the removal of lighting facilities; and
 - c. the removal of lighting facilities and the replacement of such facilities with new facilities and/or additional facilities.

Modifications will be subject to the costs identified in FPL's currently effective lighting rate schedule on file at the FPSC, or any successive schedule approved by the FPSC.

8. Lighting facilities will only be installed in locations that meet all applicable clear zone right-of-way setback requirements.
9. FPL will, at the request of the Customer, relocate the lighting facilities covered by this agreement, if provided sufficient right-of-ways or easements to do so and locations requested are consistent with clear zone right-of-way setback requirements. The Customer shall be responsible for the payment of all costs associated with any such Customer-requested relocation of FPL lighting facilities. Payment shall be made by the Customer in advance of any relocation.

(Continue on Sheet No. 9.143)

10. FPL may, at any time, substitute for any luminaire installed hereunder another luminaire which shall be of at least equal illuminating capacity and efficiency.
11. This Agreement shall be for a term of ten (10) years from the date of initiation of service, and, except as provided below, shall extend thereafter for further successive periods of five (5) years from the expiration of the initial ten (10) year term or from the expiration of any extension thereof. The date of initiation of service shall be defined as the date the first lights are energized and billing begins, not the date of this Agreement. This Agreement shall be extended automatically beyond the initial the (10) year term or any extension thereof, unless either party shall have given written notice to the other of its desire to terminate this Agreement. The written notice shall be by certified mail and shall be given not less than ninety (90) days before the expiration of the initial ten (10) year term, or any extension thereof.
12. In the event lighting facilities covered by this agreement are removed, either at the request of the Customer or through termination or breach of this Agreement, the Customer shall be responsible for paying to FPL an amount equal to the fixture, pole, and conductor charges for the period remaining on the currently active term of service plus the cost to remove the facilities.
13. Should the Customer fail to pay any bills due and rendered pursuant to this agreement or otherwise fail to perform the obligations contained in this Agreement, said obligations being material and going to the essence of this Agreement, FPL may cease to supply electric energy or service until the Customer has paid the bills due and rendered or has fully cured such other breach of this Agreement. Any failure of FPL to exercise its rights hereunder shall not be a waiver of its rights. It is understood, however, that such discontinuance of the supplying of electric energy or service shall not constitute a breach of this Agreement by FPL, nor shall it relieve the Customer of the obligation to perform any of the terms and conditions of this Agreement.
14. The obligation to furnish or purchase service shall be excused at any time that either party is prevented from complying with this Agreement by strikes, lockouts, fires, riots, acts of God, the public enemy, or by cause or causes not under the control of the party thus prevented from compliance, and FPL shall not have the obligation to furnish service if it is prevented from complying with this Agreement by reason of any partial, temporary or entire shut-down of service which, in the sole opinion of FPL, is reasonably necessary for the purpose of repairing or making more efficient all or any part of its generating or other electrical equipment.
15. **This Agreement supersedes all previous Agreements** or representations, either written, oral, or otherwise between the Customer and FPL, with respect to the facilities referenced herein and constitutes the entire Agreement between the parties. This Agreement does not create any rights or provide any remedies to third parties or create any additional duty, obligation or undertakings by FPL to third parties.
16. In the event of the sale of the real property upon which the facilities are installed, upon the written consent of FPL, this Agreement may be assigned by the Customer to the Purchaser. No assignment shall relieve the Customer from its obligations hereunder until such obligations have been assumed by the assignee and agreed to by FPL.
17. This Agreement shall inure to the benefit of, and be binding upon the successors and assigns of the Customer and FPL.
18. The lighting facilities shall remain the property of FPL in perpetuity.
19. This Agreement is subject to FPL's Electric Tariff, including, but not limited to, the General Rules and Regulations for Electric Service and the Rules of the FPSC, as they are now written, or as they may be hereafter revised, amended or supplemented. In the event of any conflict between the terms of this Agreement and the provisions of the FPL Electric Tariff or the FPSC Rules, the provisions of the Electric Tariff and FPSC Rules shall control, as they are now written, or as they may be hereafter revised, amended or supplemented.

(Continue on Sheet No. 9.144)

IN WITNESS WHEREOF, the parties hereby caused this Agreement to be executed in triplicate by their duly authorized representatives to be effective as of the day and year first written above.

Charges and Terms Accepted:

Customer (Print or type name of Organization)

By: _____
Signature (Authorized Representative)

(Print or type name)

Title: _____

FLORIDA POWER & LIGHT COMPANY

By: _____
(Signature)

(Print or type name)

Title: _____



LED Lighting Plan

Columbia County Board of Commissioners

Going Green

This plan reduces power consumption by:
and that eliminates:
or removing:

233,964 kWh / year
164 metric tons of CO₂ every year¹
35 cars from the road²

TOTAL	364		\$ 5,876.50	\$ 4,878.29	\$ (998.21)
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Installation Details		Existing	Proposed	Variance
1	select fixture:	HPS0070	RSW 41 Watt 4000K	
	select pole:			
	Fixture*	\$ 19.45	\$ 27.35	\$ 7.90
	Pole			
	Quantity: 5			
Conversion: Yes	Maintenance	\$ 9.25	\$ 8.60	\$ (0.65)
Full/Hybrid: Full	Energy**	\$ 12.11	\$ 5.85	\$ (6.27)
	Total	\$ 40.81	\$ 41.80	\$ 0.98

Installation Details		Existing	Proposed	Variance
2	select fixture:	HPS0100	RSW 41 Watt 4000K	
	select pole:			
	Fixture*	\$ 118.80	\$ 164.10	\$ 45.30
	Pole			
	Quantity: 30			
Conversion: Yes	Maintenance	\$ 55.80	\$ 51.60	\$ (4.20)
Full/Hybrid: Full	Energy**	\$ 102.66	\$ 35.07	\$ (67.59)
	Total	\$ 277.26	\$ 250.77	\$ (26.49)

Installation Details		Existing	Proposed	Variance
3	select fixture:	HPS0150	XSP2 102 Watt	
	select pole:			
	Fixture*	\$ 16.32	\$ 33.88	\$ 17.56
	Pole			
	Quantity: 4			
Conversion: Yes	Maintenance	\$ 7.56	\$ 6.88	\$ (0.68)
Full/Hybrid: Full	Energy**	\$ 20.02	\$ 11.91	\$ (8.11)
	Total	\$ 43.90	\$ 52.67	\$ 8.77

Installation Details		Existing	Proposed	Variance
4	select fixture:	HPS0150	American Rev 73 Watt 4000K	
	select pole:			

* Includes fixture fee and \$.97 monthly conversion fee

** Includes Non-fuel Energy Charge, Fuel, Conservation, Capacity, Environmental, and Storm charges
Sales tax and franchise fees not included

		select pole:			
		Fixture*	\$ 36.72	\$ 49.23	\$ 12.51
Quantity:	9	Pole			
Conversion:	Yes	Maintenance	\$ 17.01	\$ 15.48	\$ (1.53)
Full/Hybrid:	Full	Energy**	\$ 45.05	\$ 19.56	\$ (25.49)
		Total	\$ 98.78	\$ 84.27	\$ (14.51)

Installation Details		Existing		Proposed		Variance
5		select fixture:	HPS0200	XSP2 102 Watt		
		select pole:				
		Fixture*	\$ 1,402.86	\$ 1,922.69	\$ 519.83	
Quantity:	227	Pole				
Conversion:	Yes	Maintenance	\$ 547.07	\$ 390.44	\$ (156.63)	
Full/Hybrid:	Full	Energy**	\$ 1,667.05	\$ 675.89	\$ (991.16)	
		Total	\$ 3,616.98	\$ 2,989.02	\$ (627.96)	

Installation Details		Existing		Proposed		Variance
6		select fixture:	HPS0250	XSP2 139 Watt		
		select pole:				
		Fixture*	\$ 381.64	\$ 491.26	\$ 109.62	
Quantity:	58	Pole				
Conversion:	Yes	Maintenance	\$ 152.54	\$ 99.76	\$ (52.78)	
Full/Hybrid:	Full	Energy**	\$ 561.55	\$ 237.31	\$ (324.24)	
		Total	\$ 1,095.73	\$ 828.33	\$ (267.40)	

Installation Details		Existing		Proposed		Variance
7		select fixture:	HPS0400	Verdeon 247 Watt		
		select pole:				
		Fixture*	\$ 193.44	\$ 355.57	\$ 162.13	
Quantity:	31	Pole				
Conversion:	Yes	Maintenance	\$ 75.02	\$ 53.32	\$ (21.70)	
Full/Hybrid:	Full	Energy**	\$ 434.57	\$ 222.55	\$ (212.02)	
		Total	\$ 703.03	\$ 631.44	\$ (71.59)	

* Includes fixture fee and \$.97 monthly conversion fee

** Includes Non-fuel Energy Charge, Fuel, Conservation, Capacity, Environmental, and Storm charges

Sales tax and franchise fees not included

LED LIGHTING PILOTRATE SCHEDULE: LT-1AVAILABLE:

In specific territories served, upon request of the entity that has jurisdiction over the area being lighted. Contact FPL for available installation territories.

APPLICATION:

For the purpose of lighting streets whether public or private, roadways, and common areas, other than individual residential locations. This includes but is not limited to parking lots, homeowners association common areas, or parks.

TYPE OF INSTALLATION:

FPL-owned fixtures normally will be mounted on poles of FPL's existing distribution system and served from overhead wires. On request of the Customer, FPL will provide special poles or underground wires at the charges specified below. FPL, at its discretion, may offer the customer the option of FPL-owned fixtures attached to poles owned by the customer.

SERVICE:

Service includes energy from dusk each day until dawn the following day and maintenance of FPL-owned Lighting Systems. Maintenance includes replacement or repair of any circuit component to assure the facilities are operational and safe.

LIMITATION OF SERVICE:

Stand-by or resale service is not permitted hereunder.

CUSTOMER CONTRIBUTIONS:

A Contribution-in-Aid-of-Construction (CIAC) will be required for:

- a) the differential cost between employing rapid construction techniques in trenching, backfilling and pole installation work where no obstructions exist, and the added cost to overcome obstructions such as sprinkler systems, paved surfaces (such as sidewalks, curbs, gutters, and roadways), landscaping, sodding and other obstructions encountered along the Lighting System installation route, including repair and replacement. If the Customer elects to perform work such as trenching and restoration, they will be reimbursed by FPL with a credit (not to exceed the total CIAC cost) for the value of this work as determined by FPL;
- b) the installation cost of any new overhead distribution facilities and/or the cost of alterations to existing distribution facilities which are required in order to serve the Lighting System less four (4) times the additional annual non-fuel energy revenue generated by the installation or alteration of the Lighting System, plus where underground facilities are installed, the differential installation cost between underground and overhead distribution facilities.

These costs shall be paid by the Customer prior to the initiation of any construction work by FPL. The Customer shall also pay any additional costs associated with design modifications requested after the original estimate has been made.

(Continued on Sheet No. 8.736)

(Continued from Sheet No. 8.735)

REMOVAL OF FACILITIES:

If FPL owned Lighting facilities are removed either by Customer request or termination or breach of the agreement, the customer will pay the fixture, pole, and conductor charges for the period remaining on the currently active term of service plus the cost to remove the facilities. **These charges do not apply to street light conversions from FPL owned facilities covered under SL-1 to FPL owned LED facilities under this tariff.** In all cases, should the Customer request termination of the agreement, such termination will require written notice 90 days prior to the date of termination.

Conversion of FPL Owned Streetlights (SL-1 facilities) to LED:

For customers converting Street Lights as per FPL's SL-1 Street Lighting Tariff paying the LED Conversion Recovery charge, there will be no charges for the fixtures being removed. Any other charges for relocation or replacement of FPL owned facilities would still apply.

CHANGE IN FIXTURE SIZE OR TYPE:

At the Customer's request, the Company will upgrade to a higher level of illumination when the changes are consistent with good engineering practices. The customer will pay the original installed cost of the removed fixtures, less any salvage value and depreciation, plus removal costs and will receive a credit for 4 years additional revenue generated by the larger fixtures. If changes are required to the distribution system to support the larger lights, standard CIAC charges as described on sheet 8.735 will also apply. The Customer will pay the Company the net costs incurred in making other fixture changes. Customers converting HPSV fixtures to LED and paying the LED Conversion Recovery Charge will not be charged for the fixtures being removed, as noted in the preceding paragraph. In all cases where luminaires are replaced, the Customer will sign a new service agreement. Billing on the rate for the new luminaire or lamp size will begin as of the next regular billing date. A luminaire may be relocated at the Customer's request upon payment by the Customer of the full cost of removal and reinstallation.

MONTHLY RATES for LED Fixtures*:

Energy Tier	Charge	Fixture Tier									
		1	2	3	4	5	6	7	8	9	10
A	\$ -	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50
B	\$ 0.20	1.70	4.70	7.70	10.70	13.70	16.70	19.70	22.70	25.70	28.70
C	\$ 0.40	1.90	4.90	7.90	10.90	13.90	16.90	19.90	22.90	25.90	28.90
D	\$ 0.60	2.10	5.10	8.10	11.10	14.10	17.10	20.10	23.10	26.10	29.10
E	\$ 0.80	2.30	5.30	8.30	11.30	14.30	17.30	20.30	23.30	26.30	29.30
F	\$ 1.00	2.50	5.50	8.50	11.50	14.50	17.50	20.50	23.50	26.50	29.50
G	\$ 1.20	2.70	5.70	8.70	11.70	14.70	17.70	20.70	23.70	26.70	29.70
H	\$ 1.40	2.90	5.90	8.90	11.90	14.90	17.90	20.90	23.90	26.90	29.90
I	\$ 1.60	3.10	6.10	9.10	12.10	15.10	18.10	21.10	24.10	27.10	30.10
J	\$ 1.80	3.30	6.30	9.30	12.30	15.30	18.30	21.30	24.30	27.30	30.30
K	\$ 2.00	3.50	6.50	9.50	12.50	15.50	18.50	21.50	24.50	27.50	30.50
L	\$ 2.20	3.70	6.70	9.70	12.70	15.70	18.70	21.70	24.70	27.70	30.70
M	\$ 2.40	3.90	6.90	9.90	12.90	15.90	18.90	21.90	24.90	27.90	30.90
N	\$ 2.60	4.10	7.10	10.10	13.10	16.10	19.10	22.10	25.10	28.10	31.10
O	\$ 2.80	4.30	7.30	10.30	13.30	16.30	19.30	22.30	25.30	28.30	31.30
P	\$ 3.00	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50
Q	\$ 3.20	4.70	7.70	10.70	13.70	16.70	19.70	22.70	25.70	28.70	31.70
R	\$ 3.40	4.90	7.90	10.90	13.90	16.90	19.90	22.90	25.90	28.90	31.90
S	\$ 3.60	5.10	8.10	11.10	14.10	17.10	20.10	23.10	26.10	29.10	32.10
T	\$ 3.80	5.30	8.30	11.30	14.30	17.30	20.30	23.30	26.30	29.30	32.30

* Catalog of available fixtures and the assigned billing tier for each can be viewed at www.FPL.com/partner/builders/lighting.html

(Continued on Sheet No. 8.737)

(Continued from Sheet No. 8.736)

Maintenance per Fixture (FPL Owned Fixture and Pole)	\$1.72
Maintenance per Fixture for FPL Fixtures on Customer Pole	\$1.20
LED Conversion Recovery	\$0.97

Notes:

The non-fuel energy charge is 2.850¢ per kWh.

Bills rendered based on "Total" charge. Unbundling of charges is not permitted.

Charges for other FPL-owned facilities:

Wood pole used only for the street lighting system	\$4.92
Standard Concrete pole used only for the street lighting system	\$6.74
Round Fiberglass pole used only for the street lighting system	\$7.98
Decorative Tall Fiberglass pole used only for the street lighting system	\$16.81
Decorative Concrete pole used only for the street lighting system	\$13.65
Underground conductors	3.810 ¢ per foot

BILLING

During the initial installation period:

Facilities in service for 15 days or less will not be billed;

Facilities in service for 16 days or more will be billed for a full month.

WILLFUL DAMAGE:

Upon the second occurrence of willful damage to any FPL-owned facilities, the Customer will be responsible for the cost incurred for repair or replacement. If the lighting fixture is damaged, based on prior written instructions from the Customer, FPL will:

- a) If a commercially available and FPL approved device exists, install a protective shield. The Customer shall pay \$280.00 for the shield plus all associated costs. However, if the Customer chooses to have the shield installed before the second occurrence, the Customer shall only pay the cost of the shield; or
- b) Replace with a like unshielded fixture. For this, and each subsequent occurrence, the Customer shall pay the estimated costs of the replacement fixture; or
- c) Terminate service to the fixture. In this case, the lighting facilities will be removed from the field and from billing; the customer will pay the lighting facilities charges for the remaining period of the currently active term of service plus the cost to remove the facilities.

Option selection shall be made by the Customer in writing and apply to all fixtures which FPL has installed on the Customer's behalf on the same account. Selection changes may be made by the Customer at any time and will become effective ninety (90) days after written notice is received.

(Continued on Sheet No. 8.738)

(Continued from Sheet No. 8.737)

OTHER CHARGES

Conservation Charge	See Sheet No. 8.030.1
Capacity Payment Charge	See Sheet No. 8.030.1
Environmental Charge	See Sheet No. 8.030.1
Fuel Charge	See Sheet No. 8.030.1
Storm Charge	See Sheet No. 8.040
Franchise Fee	See Sheet No. 8.031
Tax Clause	See Sheet No. 8.031

SPECIAL CONDITIONS:

Customers whose lights are turned off during sea turtle nesting season will receive a credit equal to the fuel charges associated with the fixtures that are turned off.

TERM OF SERVICE:

Initial term of ten (10) years with automatic, successive five (5) year extensions unless terminated in writing by either FPL or the Customer at least ninety (90) days prior to the current term's expiration. Term of service begins upon execution of the LED Lighting Agreement.

RULES AND REGULATIONS:

Service under this schedule is subject to orders of governmental bodies having jurisdiction and to the currently effective "General Rules and Regulations for Electric Service" on file with the Florida Public Service Commission. In case of conflict between any provision of this schedule and said "General Rules and Regulations for Electric Service", the provision of this schedule shall apply.