

Energy Efficient Garage Lighting **City of Fort Lauderdale**

June 9, 2016

Bid # 463-11684



Submitted by:

ConEdison Solutions 3101 W. Dr. Martin Luther King Jr. Blvd. Suite 110 Tampa, FL 33607

Contact:

Craig Fisher Developer, Renewables 786-459-3845 <u>fisherc@conedsolutions.com</u>



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2. Executive Summary

We are pleased to provide our proposal to <u>Bid No. 463-11684 – Energy Efficient Garage Lighting</u>. BGA, Inc., A ConEdison Solutions Company, hereinafter referred to as ConEdison Solutions, has been a Florida focused business since its inception in 1986, specializing in analyzing, engineering and implementing energy conservation projects. ConEdison Solutions and all assigned key professional staff possess all licenses and certifications required to provide the requested services in the State of Florida and the City of Fort Lauderdale. ConEdison Solutions understands the City of Fort Lauderdale seeking a qualified, experienced, and licensed firm(s) to provide energy efficient garage lighting at the Performing Arts Center Garage (PACA) and the City Park Garage (CPG). This project is to be completed without requiring any upfront capital expense to the City. The project is to be financed utilizing the savings in electrical expense from the replacement of existing fixtures for more energy efficient lighting.

ConEdison Solutions is currently under contract with the City of Fort Lauderdale providing similar services under a separate agreement which meets the buying criteria outlined here. ConEdison Solutions is currently contracted by the City of Fort Lauderdale to develop a Guaranteed Energy Performance Contract. This contract was awarded as a result of our response to solicitation RFQ 946-11316 (2014) and City Commission Memo #14-0694 (2015). We are currently working with the City's Sustainability Department, Facilities Department and Parks & Recreation Department in finalizing a Guaranteed Energy Performance Contract for a separate scope of services which include LED lighting retrofits at Holiday Park, Carter Park, Osswald Park and Mills Pond Park. Over the last 10 months, ConEdison Solutions has performed an investment grade energy audit and developed a budget neutral energy performance contract to be funded through savings without requiring any upfront capital outlay by the City. We believe this energy efficient garage lighting project may be funded similarly through savings. Our proposal attached herein offers to use a similar procurement mechanism to fund this project without any capital outlay. This proposal is a stand-alone offer, separate and apart from our current contract. However, should our response be deemed the best offer, we encourage the City to consider combining both projects.

ConEdison Solutions has been providing energy engineering and construction services for over 27 years to Florida's municipalities, school districts, hospitals, colleges, universities, and other clients since its inception in 1986. We have recently completed LED lighting retrofit projects at municipal parking garages and other types of parking facilities projects with the City of Hialeah, City of Punta Gorda, City of Fort Pierce and five(5) parking garages for the Naval Medical Facility – Bethesda, MD to name a few. In fact, over the last 4 years we have completed over \$15 million in LED retrofit projects.

We hope the City's selection committee finds our response to this bid to be favorable, similarly to our prior selection. We would be honored with the opportunity to continue the great relationship we have begun to build with the City as your energy efficiency partner. ConEdison Solutions is committed to performing the work within a mutually agreed upon time period and will ensure we maximize the value and benefits for the City.

Here is a quick rundown of the strengths and benefits we feel our team will bring to City of Fort Lauderdale:

We Are Neutral Regarding Vendor, Technology, Manufacturer, Equipment and Services

- ✓ Our unique position as a non-manufacturer/maintenance provider allows us to perform our services in the role of trusted advocate, looking after the best interests of the City.
- ✓ We owe no loyalty to any technology, equipment manufacturer, energy type, utility company, or



internal or external maintenance service organizations – a long-term relationship and the County's best interest is our only objective.

MEP Design-Build Model flexibly integrated to fit Performance Contracting

- ✓ We self-perform energy engineering and mechanical, electrical and plumbing design using our in-house engineering staff – which translates into lower overhead and more project for the dollar than other ESCOs.
- ✓ In-house energy engineering and MEP design (we sign and seal our own drawings).
- ✓ In-house construction management and project commissioning.
- ✓ **In-house** long-term project monitoring and verification.

Customer-Oriented Financial Model - No Cost or Risk, Shared Tax Benefits, Client Direct Purchase

- ✓ Our in-house services mentioned above allow us to perform the Investment Grade Energy Audits at our risk. City of Fort Lauderdale will not be obligated into either paying for an expensive Energy Audit or entering into a Performance Contract
- ✓ We share our net tax benefit under the Energy Policy Act of 2005 with the City
- ✓ The City has the option to direct purchase equipment from manufacturers, eliminating sales tax costs.

Local Contractors, Local Jobs, Diversity Inclusion, No Disruption of Existing Relationships

- ✓ We utilize local contractors as desired and approved by Broward County to ensure the maximum number of jobs created by any developed projects stay within the local economy.
- ✓ We work with your team to enhance existing service relationships we encourage the use of existing staff and contractors to perform long-term maintenance.
- ✓ We utilize Small and Minority- Owned Businesses we have several City of Fort Lauderdale M/WBEs already in our pre-qualified subcontractor database. And have pre-selected our local M/WBE subcontractor for the installation of this project.

Highly Qualified, Highly Experienced

- ✓ We have provided more than **30 years of engineering services** to the Florida community.
- ✓ Our office's primary business focus has always been energy conservation services, and has been focused on such projects and programs since its inception in 1986, longer than any other Florida ESCO.



- ✓ We have an extensive history as a prime performance contractor with over \$170 million of installed energy performance contracts in Florida.
- We are the most experienced energy-auditing firm in Florida, having done more investment grade energy audits in the State of Florida than any other ESCO (over 2,000 Investment Grade Energy Audits covering over 35,000,000 square feet of building space.)
- ✓ We are recognized as Florida's central chiller plants experts, our in-house engineering teams have designed and/or built more such plants than any other ESCO in the state.
- ✓ Over the years, many other Florida ESCOs have procured our MEP design and energy engineering services to perform investment grade audits and design work for their performance contracts – We are the ESCO's ESCO!
- ✓ Experience We have a deep bench of engineering, design, commissioning, energy project management and construction experience right here in Florida…not outsourced. (Licensed Professional Engineers, Licensed General and Mechanical Contractors, Certified Energy Managers, Certified Lighting Efficiency professionals, and LEED Accredited Professionals)

ConEdison Solutions is eager to bring our expertise and services to City of Fort Lauderdale. We look forward to and are excited about the opportunity to be your energy partner, delivering a comprehensive technically and financially viable energy audit, which ultimately results in projects that achieves your energy conservation and alternative energy goals.

Our primary point of contact for the management of this project will be:

Craig Fisher Program Manager ConEdison Solutions 185 SW 7th Street 4005 Miami, FL 33130





3. Experience and Qualifications

BGA, Inc., A ConEdison *Solutions'* company (BGA), is an energy services company (ESCO), and has been a Florida focused business since its inception in 1986 specializing in analyzing, engineering and implementing energy conservation projects. We have experience providing more than 20 years of engineering services to the Florida community and more than a 12 year resume as a prime performance contractor with hundreds of millions of dollars' worth of installed energy performance contracting projects in Florida.

We are accredited by the National Association of Energy Services Companies at the Energy Service Provider (ESP) level, which is the most comprehensive and **highest accreditation that NAESCO provides**. As such, it includes all of the services offered by energy services companies, as well as energy supply options.

We are a local company with a national reach. Our corporate headquarters are in Valhalla, NY and we have regional offices in Burlington, MA; Cherry Hill, NJ; Falls Church, VA; **Tampa, FL**; Overland Park, KS; and Houston, TX. Any work undertaken for City of Fort Lauderdale will be managed, staffed, and conducted out of the office in Tampa, Florida (BGA).

ConEdison Solutions is a wholly-owned subsidiary and registered trademark of Consolidated Edison, Inc. (CEI). CEI is listed on the New York Stock Exchange under ticker symbol: ED. CEI is one of the nation's longest operating and largest investor-owned energy companies, with approximately \$13 billion in annual revenues and \$33 billion in assets. CEI is the oldest operating utility in the United States.

CEI was ranked #1 as the "greenest" utility in the United States (Newsweek – 2014). Our commitment to sustainability is shown in our own investments into renewables. CEI is the 5th largest producer of solar and wind in the United states with over 1500 MW within our national portfolio.

The U.S. Department of Energy (DOE) and Department of Defense (DOD) have both designated ConEdison *Solutions* as an approved provider of energy efficiency, renewable energy and water conservation services to federally owned buildings and facilities nationwide.





As the result of a nationwide selection process intended to identify qualified vendors, ConEdison *Solutions* became one of a handful of providers so designated, which underscores ConEdison *Solutions*' proven ability to help government entities achieve their energy savings goals. ConEdison *Solutions* has held this designation since 2003, so this re-designation marks a continuation and expansion of ConEdison *Solutions*' relationship with DOE and DOD.



In 2007, ConEdison *Solutions* purchased BGA, an energy services and engineering company based in Tampa, FL that has been providing energy conservation services to Florida's public agencies since its founding in 1986.



CORPORATE HEADQUARTERS

ConEdison *Solutions* 100 Summit Lake Drive Suite 400 Valhalla, NY 10595 (914) 826-7000 (914) 448-0057

Our Florida Office will have direct responsibility for this project.

FLORIDA OFFICE

BGA, A ConEdison Solutions Company

3101 West Dr. Martin Luther King, Jr. Blvd. Suite 110 Tampa, FL 33607

> Program Manager: Craig Fisher 185 SW 7th Street Suite 4005 Miami, FL 33130

305-773-6993 fisherc@conedsolutions.com

ConEdison Solutions utilizes its in-house team of engineering, design, commissioning, energy project management and construction experience professionals right here in Florida. We will self-perform energy engineering as well as the electrical and controls design required for this garage lighting project using our in-house engineering staff. However we do acknowledge that despite our deep bench of in-house expertise, it is also necessary to stimulate the local industry wherever we do work. We have developed a very cost effective model of utilizing local professional services subcontractors to assist and install the scope of services. This also ensures we meet the M/WBE participation and local preference goals.

The contract management and engineering will be completed from our offices in Tampa, Florida. The client program management will be handled locally by Craig Fisher located in Miami, Florida. Project installation will be completed out of the offices of our long-term subcontractor partners, **Advanced Energy Solutions, Inc. (AES)** - MBE electrical subcontractor and a City of Fort Lauderdale, Local Business Preference - Class C Business: AES has been doing electrical subcontracting work with ConEdison Solutions across 13 different states for over 12 years. Over this time, AES has helped us meet our Small Business Subcontracting Plan Policy while providing excellent service. To date, we have procured approximately \$15 million in electrical subcontracting services with AES.





4. Approach to Scope of Work

ConEdison Solutions understands the City of Fort Lauderdale is seeking a qualified, experience and licensed firm to provide energy efficient LED lighting to replace existing HID lighting at the City Hall Garage (CHG) and at the Performing Arts Center Garage (PACA). ConEdison Solutions has designed and installed over \$15 million dollars of LED retrofit projects in the last 4 years with public sector clients. In fact, ConEdison has recently completed municipal parking garage Led retrofits at the City of Hialeah and the City of Punta Gorda, our installation partner for this project, Advanced Electrical Solutions, has also separately completed LED retrofits at the City of Coral Gables and also the Miami International Airport. Our experience team has the technical and operational expertise to deliver this project to the City of Fort Lauderdale.

Upon award, ConEdison Solutions will request engineering drawings and 24 months of utility bills for these parking garages. We will survey both facilities and do a floor by floor count of all fixtures including verification of electrical capacity at each site. We will also perform photometric analysis of the lighting within these facilities. Upon completion of this analysis, we will meet with the City to review our findings and validate that our proposal is complete. ConEdison Solutions estimates the construction of this project will take 6 weeks, with four weeks of on-site of implementation and commissioning. Our in-house team will provide all lighting design services.

ConEdison Solutions proposes a budget neutral approach to this project financed through a performance contract. ConEdison Solutions is currently under contract with the City developing a similar project at its Parks. We would provide a turnkey design and installation and provide an energy guarantee to the City to ensure you achieve the calculated energy savings.



City of Ft. Lauderdale - Parking Garages																	
											Project Statistics						
Building / She	kWd Rate	kWh Rate	Existing kW	Existing kWh	Proposed Kw	Proposed kWh	kW Reduction	kWh Reduction	Controls Sensors KWh Savings	Controls ONLY \$ Savings	Lighting Only \$ Savings	Total \$ Savings Controls + Lighting	Existing Average Bidg Running Hrs	Exit Fix Qty	Existing Lamps	ECM Fixa Qıy	ECM Lamps
PACA Garage		\$0.07000	45.70	400,305.72	13.74	120,379.92	31.96	279,925.80	30,140	\$2,110	\$19,595	\$21,705	8,760	239	239	239	0
CHG Garage		\$0.07000	100.76	882,657.60	30.04	263,150.40	70.72	619,507.20	71,166	\$4,982	\$43,366	\$48,347	8,760	525	525	525	0
Totais			146	1,282,963	44	383,530	103	899,433	101,306	\$7,091	\$62,960	\$70,052	8,760	764	764	764	0

The proposed project is calculated to save \$70,052 annually. *Note: that the control savings shown here will_be obtained without the need of the controls system desired by the City.* The proposed Visionaire fixtures come equipped with integrated controls which provide the desired control energy savings. It does not however allow for remote access and monitoring and therefore we have included the additional Hubell wiSmart controls to provide the data logging and remote access control features required in the bid spec. these additional features provide for better operational efficiency but do not produce any additional savings. All proposed fixtures are DLC listed and come with a standard 5 year warranty with the option for an additional 5 years. See the cutsheets on the following pages

City of Fort Lauderdale

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The new PGR LED luminaire from Visionaire combines contemporary design with new LED technology; while maintaining a traditional fxture image. The LEDs Performance and Life are maximized by the Unique integral aluminum heat aink. It is an ideal replacement for the high-maintenance fluorescent or HID fixtures of yesterday.

Six optical distribution patterns are available. Choose between 4000 or 5000 Kelvin temperature of the LED's.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or oustom colors.

The LED housing is formed aluminum with internal heat aink for maximum heat dissipation; with either 18, 62 or 48 LEDs. The formed aluminum driver compartment allows the driver to operate cooler for long life. Available with a Low Profile Ceiling Mount Bracket, a Speed Mount Bracket for surface conduit mounting. Pendant Mounting, Bolt-On Arm or Spider Mount.

Model PGR-1	Optice	Source	Milliamps	Kelvin 4000K	Voltage 120-277	Mounting	Finish	Options
PGH-1	Type I (T1)	<u># of LEDs</u> 16 (16LC)	<u>mA</u> 350 (3)	*Neutral white (4K)	120-277 *Universal votege (UNV)	Low Profile Mount Celling Mount "No Conduit Feed	Bronze (BZ)	0-10v Dimming Driver No Controls (DIM)
	Type II (T2)	32 (32LC)	530 (5)	5000K *Coolwhite (5K)	480 (5)	(LPM) Speed Mount Bracket™	Black (BK)	Motion Sensor/Control Watt Stopper FSP-211
		48 (48LC)	700 (7)		347 (8)	(SMB) Pendant Mount	White (WH) Graphite	22' Distance @ 8' CLG HT Must specify Dimming Driver. 1204-877 Vorky (WSC)
	Type III (T3)					12" (PM12) 24" (PM24) 36" (PM36)	(GP) Grey	Motion Sensor 20' Distance @ 8' CLG HT Must specify Dimming Driver.
	Type IV (T4)					Spider Mount Pie 2 347 0.0. (SM)	(GY) Silver Metallic	Can use with Wireless Control "1204-377 Only (MS)
	Type V				*947V&480Vnot available in 16LO	Bolt On Arm Par Venion (BOAR)	(SL)	10kV Surge Protector (10KV)
	(T5)				*347V&483Vinot available In SBLC 563 mA		(CC)	Emergency Battery Pack "1304-3774 Only (EBPL)
	Type V-W (T5W)							
	X				ruland ufb fat	dana arak marih	mineraria Thi dang mi	and a second stars information of University II differen
VII	SIONAIRE I	IGHTING	tre, passe creat to Ugning LLC. In tee	ory, it pase are not ping with our TOM	ordenia with thobane, policy of continuous	peese specily mounting a improvement, Valanaite n	queenersti. His dooursert co eleves the right to charge at	niana propialany information of Valinaiaa Lighting y spacificational contained havain without provin



Energy Efficient Garage Lighting

PGR LED

Bid No.: 463-11684

AREA

Housing

Heavy duty spun aluminum housing with internal heat sink for maximum heat dissipation. Silicone gasket is used for weather tight operation.

Mounting

A Pre-Attached Aluminum, Bott-on Arm (BOA), with bottom access, is supplied along with an in-pole nut plate; for fast and easy attachment to the pole.

A Low Profile, hinged, ceiling mount bracket, can be secured directly to a recessed junction box, or to the ceiling.

A Speed Mount bracket with S/4" knockouts is available for surface conduit mounting.

1/2" stem and canopy supplied for pendant mount applications.

Thermal Management

The PGR series provides excellent thermal management by mounting the LEDs to the substantial heat sink within the housing. This enables the Luminaire to withstand higher ambient temperatures and driver ourrents without degrading LED life.

Optical System

The highest lumen output LEDs are utilized in the **PGR** series. IES distribution Types I, II, III, IV, V and V-W are available. The optical system qualifies as IES full outoff; to restrict light trespass, glare and light pollution.

CRI values are 70 for 4000K and 75 for 5000K.

Quali-Guard Finish

The finish is a Quali-Guard textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder oost finish, with a minimum of 8-6 millimeter thickness. Finish is over-baked at 400° F to promote maximum adherence and finish hardness. All finishes are available in standard and obtom oolore.

Finish is guaranteed for five (δ) years.

Electrical Assembly

The **PGR LED** series is supplied with a choice of 350, 530 or 700_mA highperformance LED drivers that accept 120v thru 480v, 50 Hz to 80 Hz, input. Power factor of 90%. Rated for ~40°C operations.

Warranty

Five (5) year Limited Warranty on entire system, including of Washull warranty information, please visit visionairelighting.com

Options

0-10 Volt Dimming Driver

Watt Stopper FSP-211

Motion Sensor

10 kV surge protector

Emergency Battery Pack

Listings

Powder Coated Tough

Spider Mount Detail



PGR 5000 K Lumen Data									
# LEDs	mA	Туре 1	Туре 2	Туре З	Туре 4	Туре б	Type 5 W	Watts	
16	350	2,278	2,331	2,401	2,193	2,514	2,381	18	
	530	3,273	3,207	3,304	3,018	3,459	3,249	26	
	700	4,299	4,213	4,341	3,984	4,544	4,289	37	
32	350	4,788	4,691	4,833	4,413	5,059	4,752	35	
	530	6,631	6,499	6,696	6,115	7,010	6,584	52	
	700	8,318	8,151	8,398	7,870	8,792	8,259	71	
48	350	7,188	7,044	7,258	6,628	7,598	7,137	58	
	530	9,994	9,794	10,091	9,216	10,585	9,923	80	
	700	11,242	11,017	11,352	10,367	11,884	11,163	102	
	Visit www.VisionaireLighting.com for up-to-the-minute chart information, including types not listed here.								

* For 4000K multiply values by 0.95

19845 Rancho Way Rancho Dominguez, CA 90220 Tel: (310) 512-6490 Fax: (310) 512-6498 www.visionairelighting.com



PROJECT NAME:					
CADALOG NUMBER:	Fixture Type:				
Volts/Watts:	LAMPS/BOARD:				



CAVERN CV - 30W LED

				ULTRAS	SONIC STAIRWELL				
EATURES									
4 FT LED Stairwell Fixture									
Ultrasonic Sensor Provides For I Fully Control Light Levels For Bo Areas with High/Low User Selec (USBD/HL) Option to Help Maint Frosted Impact Resistant Arylic I 0-10W Dimming 5 Year Warranty	Inoccupied ming		0	Cavern Shown with					
avern Housing060" Aluminum Body200" 6061 Machined Aluminu500" Threaded End Plug Robot of Second Party				0 pin	Cavern Lite Shown with				
Baked on Enamel Powder Coat Finish avern Lite Housing O40 Aluminum Housing Baked on Pre-Paint Enamel									
Calculated L70 (TM-21)	> 100K		1						
Delivered Lumens	3,696 lm								
Total Input Watts	30 W		DISTIN	DISTINGUISHING OPTIONS					
Luminaire Efficacy Rating (LER)	125 Im/W		 User 3 	Selectable High	n/Low Bi-level Dimming				
Correlated Color Temperature (CC)				Occupancy Sensor (USBD/HL)					
Color Rendering Index (CRI)	> 80								
Max Ambient Temp	130' F								
Universal Driver	120-277 V								
System data above based on CVL4-30WLED-UNIV-5 Lunen Maintenance Estimates based on TM-21 proje Ordering Guide		°C ambient		6) 🛞				
eg: CV4	30WLED	UNIV	50		FRAL				
Series	LED	Driver	Color		Options				
CV4 Cavern 4 FT 30 CVL4 Cavern Lite 4 FT	WLED	UNIV 120-277 Driver	30 35 40 50	WHP BRP CPX CORDx PLUGx SD480 FI/ILBCP05	Frosted Acrylic Lens White Paint (sa) Bronze Paint Custom Paint (x = Spec Color) Cord (x = t) Plug (x = type, ep. L715P) 480V Step Down Transformer SW LED Factory Installed Battery Backup ZW LED Factory Installed Battery Backup				

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Calculated L ₇₀ (TM-21)	> 100K
Delivered Lumens	3,696 lm
Total Input Watts	30 W
Luminaire Efficacy Rating (LER)	125 lm/W
Correlated Color Temperature (CCT)	5000 K
Color Rendering Index (CRI)	> 80
Max Ambient Temp	130' F
Universal Driver	120-277 V

LED Sy LED Lu



www.ilp-inc.com



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City of Fort Lauderdale

 FI/ILBCP07 7W LED Factory Installed Battery Backup
 FI/ILBCP10 10W LED Factory Installed Battery Backup
 FI/ILBCP10 10W LED Factory Installed Battery Backup FI/ILBCP12 12W LED Factory Installed Battery Backup

with Occupancy Sensor FHSBB500 500 Lumen Battery Backup

Tamper Proof Screws (Caven Only)

On/Off Occupancy Sensor Installed

User Selectable Dimming Control

Preset Bi-level Dim Sensor (xr=% eg. 20,30)

User Select Bi-level Dim w/ Occ. Sensor

User Select High/Low Bi-level Dimming

TPS

FIOS

*DLC listed when used with one of these 🔲 USDC

control options

Industrial Lighting Products

BDxx*

USBD*

USBD/HL*



CAVERN CV - 30W LED

ULTRASONIC STAIRWELL



OPTIONS

USER CONTROLLED DIMMING (USDC) GIVES YOU THE ABILITY TO ADJUST THE LIGHT LEVEL BY SIMPLY TURNING AN INTERNAL CONTROL

- Fully Control the Minimum Light Level for the Occupied & Unoccupied Modes
- Dimmable down to 10%.
- Internal dim control can be accessed without disassembling the fixture.

USER SELECT BI-LEVEL DIM SENSOR (BDxx)

 Factory Set BiLevel Dimming. Fixtures with this option come with a 0-10V sensor and driver and are set to dim down to the number indicated in "xx" portion of the part number, when in an unoccupied mode.

USER SELECT BI-LEVEL DIM SENSOR (USBD)

- User Selectable Bi-Level Dimming.
- Fixtures with this option come with a 0-10V sensor and driver along with an external control to allow the end user to manually select how low the fixture will dim when in unoccupied mode.

USER SELECT BI-LEVEL DIM SENSOR (USBD/HL)

- User Selectable bi-level dimming for both the high side and low side.
- Allows user to control how far the fixture dims down when sensor is in unoccupied mode.

(Instructions can be down loaded from the Cavern web page)



www.ilp-inc.com

Industrial Lighting Products

407-478-3759





The new BOW SX LED Series continues the unique contemporary design inspired by the sleek styling of the BOW family. Separating the extruded aluminum driver housing and the individual die-cast aluminum linear LED engines: optimize the life of the LEDs and the Driver(s); and maximizes the lumen output of the fixture. A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The BOW SX LED series is an exceptional choice for shopping centers, schools, office buildings, and general area lighting.

Each of the individual LED light engines come with 16 LEDs; for a max total of 64 LEDs. Nine optical distribution patterns are available.





Energy Efficient Garage Lighting

BOW SX

Bid No.: 463-11684

LED

AREA

Housing

 The LED light engines are constructed of heavy-duty, die-cast aiuminum, with external heat radiating fins.

Driver Compartment

 The separate driver housing is constructed of extruded aluminum, with cast aluminum end covers and stainless steel fasteners; for easy access to the LED driver(s); allowing for cooler operation and longer driver life. One-piece gasketing is utilized throughout the fixture for weather tight operation.

Thermal Management

 The BOW SX Series provides excellent overall thermal management by maximizing the fixture's heat sink capabilities. This enables the BOW SX Series to withstand higher ambient temperatures and drive currents without degrading LED life.

 The L70 test determines the point in an LEDs life when it reaches 70 percent of its initial output. The BOW SX Series LEDs have been determined to last a minimum of 100,000 hours in 25°C environments when driven at 350 mA.

Optical System

 The highest lumen output, LEDs are utilized in the BOW SX Series. IES distribution Types I, II, III, IV, IVA, V, V-W, FN & FM are available. LED light engines come in multiples of 16 LEDs.

CRI values are 70.

Quall-Guard® Finish

 The finish is a Quali-Guard® textured, chemically pretreated through a multiplestage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 millimeter thickness. Finish is oven-baked at 400 °F to promote maximum adherence and finish hardness. All finishes are available in standard and custom colors.

Finish is guaranteed for five (5) years.

Mounting

EPA DATA

 An adjustable knuckle slip fits over a 2 3/8" Tenon, and allows for up to 90" degrees of vertical adjustment in 10" degree increments from horizontal, as well as full side to side adjustment with the knuckle mount.

 A round extruded 6" aluminum, Bolt -On Arm (BOA) with an in-pole nut plate. A Round Pole Plate Adapter (RPP) is required for mounting to round poles.

BSX-2 BSX-3

A cast wall mount plate is available for wall mount applications.

Electrical Assembly

The BOW SX Series is supplied with a choice of 350, 530, 700, or 1000 mA high-performance LED drivers, that accept 120v thru 480v, 50 Hz to 60 Hz, input. Power factor of 95%. Rated for -40 °C operations.

- 10 kV surge protector supplied as standard.
- 0-10v Dimming Driver supplied as standard

Warranty

 Five (5) year Limited Warranty on entire system, including finish. For full warranty information, please visit VisionaireLighting.com.

Options

- Button Type Photocell
- Photocell & Receptacle
- Photo Receptacle
- Round Pole Plate Adaptor
- Motion Sensor
- · Pole Mounted Motion Sensor
- Universal Pole Mount Adaptor

Listings

BOW SX Series is UL Listed, suitable for wet locations.

IP65

Powder Coated Tough™. DLC Listed



DesignLights Consortium (ELC), quelited Product. Some configurations of this product huminy may not be DesignLights Consortium (ELC). Insted, piezes wher to the ELC-qualited products ist to confirm inted configurations. http://www.tedgrights.org/

POWDER

COATED

IP65

LISTED

Bolt-On Arm Detail



			57-5	557							
		.5		.7	.9	6	BSX BOA M	ount Shown			
	BOW SX 5K Lumen Data turestee Centiples (In the										
# LEDs	mA	Type 1	Туре 2	Туре 3	Туре 4	Туре 4А	Type 5	Type 5W	Type FN	Type FM	Watts
	350	4202	3849	3856	3870	4370	3906	3696	4445	4554	35
32	530	6222	5700	5710	5730	6471	5784	5473	6582	6743	54
32 .	700	7537	6905	6917	6942	7839	7007	6630	7974	8169	72
	1000	9873	9044	9061	9093	10268	9178	8684	10444	10700	111
	350	6256	5731	5741	5762	6507	5815	5503	6618	6780	53
40	530	8929	8180	8194	8224	9287	8300	7854	9446	9677	81
48	700	11270	10325	10343	10380	11722	10476	9913	11922	12214	110
	1000	14763	13524	13548	13596	15354	13723	12985	15617	15999	166
	350	8252	7560	7573	7600	8583	7671	7259	8730	8944	72
64	530	11681	10701	10720	10758	12149	10859	10275	12357	12660	106
04	700	14842	13597	13621	13669	15437	13797	13055	15701	16085	140
	1000	19443	17812	17844	17907	20222	18074	17102	20569	21072	222
	Visit www.VisionaireLighting.com for up-to-the-minute chart information, including types not listed here.										

RSX-4

* For 4000K multiply values by 0.95

19845 Rancho Way Rancho Dominguez, CA 90220 Tel: (310) 512-6480 Fax: (310) 512-6498 www.visionairelighting.com



HUBBELL Control Solutions









Wireless Outdoor Lighting Controls

wiSCAPE[™] Wireless Outdoor Lighting Control by Hubbell Control Solutions is adaptable to ALL lighting sources and ALL voltages in new and retrofit outdoor lighting environments.

wiSCAPE WIRELESS CONTROL IS SMART

With SMART Monitoring & Metering, wiSCAPE Wireless Site Lighting Controls System performs every function municipal engineers and control electricians are looking for.

- Works With ANY Type of Light Source
- Dimming and Switching
- Motion and Photo Sensor Input
- Dry Contact Interface for Switches and Sensors
- Standard or Astronomical Time Clock Control
- User Interface from Computer, Tablets, or Smart Phones
- Software for Easy Control, Configuring, Monitoring and Metering
- Alarm Notifications with Longitude/Latitude Location of Fixtures

wiscape control installations are quick, NO WIRING REQUIRED

ONE module can control ANY lighting source without running ANY wires, installing relay panels or being limited to specific systems, ballasts and drivers. Modules are available for 120-480V light sources, in either 50Hz or 60Hz.

wiSCAPE installations are non-invasive and non-disruptive making lengthy wiring processes and relay panels a thing of the past. This radical new system works with all your preferred lighting sources to save even more energy.

- LED
- Induction
- MH-HPS-LPS
- Incandescent
- Halogen
- Plasma







Innovative | Integrated | Simple

City of Fort Lauderdale

CAM # 16-0950 Exhibit # 4 16 of 38





wiSCAPE[™] SMART CONTROL

wiSCAPE controls allow you to scale a system without ever having to use a router, configure network components or use a central cabinet. Each wiSCAPE module is a complete logic processor on its own.

Use wiSCAPE sentors ANYWHERE; whether it is two modules in a small alleyway, or thousands of modules across municipal or commercial locations.

wiSCAPE SMART OPERATIONS

wiSCAPE modules are supported by wiSCAPE View, a graphical system managment software platform that can configure, control, monitor and meter your lighting systems. wiSCAPE View allows for zoom and pan mapping and satellite views, so you can observe real-time monitoring, receive instant alarm notifications from faulty lighting equipment, and increase a network's efficiency and maintenance operations. wiSCAPE View is compatible with industry standard protocols and is controllable from wireless devices such as a smart phones or tablets!



WHY wiSCAPE CONTROLS?

When it comes to reducing energy consumption, one of the fastest value creations comes from lighting control! For consumers seeking to lower costs and lower their impact on the environment, *wiSCAPE* controls are an ideal solution for sensors, monitoring and metering. Visit our website at www.hubbell-automation.com to learn more about *wiSCAPE* controls and how HCS can help you SAVE ENERGY and SAVE FAST.

wiSCAPE PRODUCT PLATFORM

The wiSCAPE platform of relays, controls, sensors and interfaces, supported by wiSCAPE View Software, is an all-inone range of SMART products designed to configure, control, monitor and meter ALL lighting sources and ALL voltages.



HUBBELL - A NAME YOU CAN TRUST

Founded in 1888 by Harvey Hubbell II, Hubbell Inc. has been a long-time contributor to new product design and manufacturing innovation. In 1896, Hubbell invented the world's first lighting control device, the pull chain switch. Over 120 years later, Hubbell Building Automation, headquartered in Austin, Texas continues this tradition of innovation with the development of a vast array of innovative energy saving lighting controls.



HUBBELL Control Solutions 9601 Dessau Rd., Building One | Austin, Texas 78754 T 512-450-1100 | F 512-450-1215 www.hubbell-controls.com

HUBBELL' Lighting

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City of Fort Lauderdale

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179 D Tax Deduction

This LED retrofit project qualifies for the EPAct 179D Tax Deduction. ConEdison Solutions will share this deduction with the City of Fort Lauderdale upon project completion. We will complete this deduction filing with our corporate taxes and split this credit with the City 50/50. Below are examples where we have done this in the past. Our preliminary calculations shows that this project would result in ConEdison Solutions being able to present the City with a 179D allocation of \$55,000. This is based on preliminary calculations and the facilities square footages.

We have the ability to share our 179D net tax benefit under the Energy Policy Act of 2005 (EPAct) with the City of Fort LAuderdale

To date we have shared \$4.3M in EPAct dollars with our clients.

Miami-Dade County received \$1.135 million presented by Michael W. Gibson from ConEdison Solutions, resulting from the federal 179D allocation associated with recent improvements completed by ConEdison Solutions downtown chilled water system.









From February 16, 2016 PHSC Board of Trustees Meeting Agenda Document

	conEdison Solutions Energy. Efficiency. Expertise.
ConE	dison Solutions Performance Contracting EPAct Sharing
prima Act is entity buildir qualifi	ergy Policy Act of 2005 (EPAct) provision 179D provides tax deduction benefits for the y designers of governmental energy conservation performance projects. The goal of the o encourage more energy efficient designs in government buildings. The government receives the benefit of reduced operating costs as a result of a more energy efficient g, and the primary designer receives the benefit of a tax deduction. ConEdison Solutions es for a tax deduction as the primary designer for the Performance Contracting (PC) t it completed with the College in 2014.
provis ConEd	x exempt entity, PHSC would not normally financially benefit from the tax deduction on of the Energy Policy Act. However, as PHSC's performance contracting partner, ison Solutions has agreed to share its net tax deduction benefit with the College. As a ConEdison Solutions is pleased to present this check to PHSC in the amount of \$107,554.
energy After t actual year a cost av amour	t of the College's performance contact project, ConEdison Solutions guaranteed that its conservation design would yield an annual energy cost avoidance of at least \$294,185. he first complete year of operation, a utility analysis was performed to determine the energy cost avoidance. When compared to the pre-project utility bills, the actual first mual energy cost avoidance was \$372,594. This represents an additional annual energy roidance of \$78,409, or a 26.7% improvement above and beyond the annual guaranteed at.
	vation Measures (ECMs) and improvements:
* * * * * * * *	Replacement of over 6,500 standard fluorescent fixtures with new LED fixtures Installation of over 1,100 occupancy sensors and controllers Replacement of exterior High Intensity Discharge (HID) lighting with new LED fixtures Replacement of four chillers; two each at the East and West Campuses Installation of variable speed primary pumps at the West Campus Chiller Plant Installation of new underground chilled water piping Installation of a new cooling tower and refurbishment of an existing cooling tower Replacement of eight air handling units (AHUs) at the West Campus Conversion of eleven multi-zone AHUs to variable air volume (VAV) at the West Campus Modifications to the College's building automation and control systems Reprogramming of the existing VAV boxes at the East, West and North Campuses



Presentation of check for \$107,554 by Mr. Jeffrey Stokes of ConEdison Solutions to Pasco Hernando State College at February 16, 2016, Board of Trustees meeting.



More Sharing with Clients of Tax Benefits:

- Brevard County Government \$49,978 (to be delivered second quarter 2016)
- City of Fort Pierce \$24,718 (to be delivered second quarter 2016)



5. References

ConEdison Solutions' Florida Office Projects Experience

All projects listed below in color and bolded included LED lighting retrofits at various municipal facilities.

\checkmark	Florida State College Jacksonville (Investment Grade Audit)	10,000,000+
\checkmark	School District of Osceola County (Investment Grade Audit)	\$8,000,000+
\checkmark	Federal VISN6 (Investment Grade Audit)	\$50,000,000+
\checkmark	School District of Indian River County (installing project)	\$4,778,775
\checkmark	Pembroke Pines Charter Schools (installing project)	\$6,895,453
\checkmark	DOD 99 th Army Reserve (installing project)	\$56,895,207
\checkmark	Pasco-Hernando Community College (recently completed)	\$6,090,203
\checkmark	City of New Port Richey D/B (recently completed)	\$277,123
\checkmark	Brevard County Government (recently completed)	\$15,675,571
\checkmark	Martin County Government WWTPs (recently completed)	\$14,013,579
\checkmark	City of Fort Pierce (recently completed)	\$6,039,229
\checkmark	City of Miami Springs (recently completed)	\$1,631,121
\checkmark	Lake County School District (recently completed)	\$6,328,851
\checkmark	City of Punta Gorda (recently completed)	\$714,184
\checkmark	City of Hialeah (recently completed)	\$798,571
\checkmark	Miami-Dade County Government (Chiller Plant Interconnection)	\$20,314,700
\checkmark	Naval Air Station Jacksonville	\$12,200,000
\checkmark	USPS Federal Shared Savings Performance Contracting	\$93,264,582
\checkmark	U. S. General Services Administration	\$1,500,000
\checkmark	Department of Corrections	\$11,738,930
\checkmark	Hillsborough Community College	\$3,719,277
\checkmark	Manatee Community College	\$1,939,053
\checkmark	Central Florida Community College	\$2,526,077
\checkmark	Escambia County Schools	\$12,000,000
\checkmark	Charlotte County Public Schools	\$6,000,000
\checkmark	Hillsborough County Public Schools	\$2,005,263
\checkmark	Broward County Public Schools	\$1,883,915
\checkmark	Franklin County Public Schools	\$1,579,572
\checkmark	St. Lucie County Government	\$4,141,760



References

Lake County Schools

Pete Myles District Energy Manager Phone: 352-253-6833 mylesp@lake.k12.fl.us

Pasco-Hernando Community College

Keith Braun, CFM Facilities Manager Phone: 727-816-3336 braunk@phcc.edu

City of Punta Gorda

Rick Keeney Director of Public Works Phone: 941-575-5050 rkeeney@ci.punta-gorda.fl.us

See following case studies for project details.

City of Fort Lauderdale

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Case Study

Lake County School District Tavares, FL



E	nvironmental Benefits
1	9.23 tons of harmful
	reenhouse gas (GHG) emissions educed annually*
E	quivalent to:
•	Preserving 30.9 acres of forest from deforestation* or
•	Conserving 8,823 barrels of oil*
U	tility Rebates
	\$18,941
С	apital Costs
	\$6,329,000
G	uaranteed Annual Savings
	Energy: \$715,783
	Maintenance: \$103,203
	Sources: Leonardo Academy's Cleaner & Greener ^M Emissions Reduction Calculator http://www.cleanerandgreener.org/resources/
·	pollutioncalculator.html U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator http://www.epa.gov/cleanenergy/energy-resources/

PROJECT DESCRIPTION: Energy Savings Performance Contract

Challenge: A goal of the Lake County School District was to reduce its energy consumption and its impact on the environment while improving the learning and working environment for 18,000+ students, as well as its teachers. Having an annual electric energy budget of almost \$8,500,000 Lake County's portfolio of 40 schools, included 21 elementary schools, 10 middle, and nine high schools totaling over 5,225,000 square feet.

PROJECT SCOPE:

Solution: The district's board of education chose an Energy Saving Performance Contract (ESPC) to decrease energy use and its carbon footprint. Starting in October 2010, ConEdison *Solutions* conducted comprehensive energy audits which focused on sources of energy consumption and preliminary savings calculations. After the initial energy inspections, ConEdison *Solutions* conducted a comprehensive engineering and economic analysis to determine life-cycle costs, guaranteed savings calculations, environmental benefits, and metering and verification of equipment operations.

ConEdison Solutions helped the school district decrease its energy consumption and saved taxpayer dollars by implementing a wide variety of energy saving projects. From state-of-the-art lighting upgrades to heating, ventilation, air conditioning and building controls improvements, the ConEdison Solutions retrofits are projected to result in energy, operating and maintenance savings of over \$818,000 annually, all guaranteed through an ESPC. Based on the ESPC results, the Lake County School District was able to achieve its goals.

April 2011: Engineering and design completed

November 2012: Construction completed



ENERGY CONSERVATION MEASURES

Lighting upgrades & lighting controls

- · Hallways and stairwells
- Classrooms
- Gymnasiums
- AuditoriumsExterior walkways

Energy Management System with Direct Digital Controls

Heating, ventilating and air conditioning upgrades

Vending machine controls

Indoor air quality improvements

District-wide IT network computer controls and power management

"ConEdison Solutions has worked with district leadership to find solutions to problems that will benefit students and the community that we simply could not have been able to afford without their expertise. Plus, the people at ConEdison Solutions really understand the challenges of K-12 public education unlike any other firm. We trust the solutions they bring us, because of their depth of K-12 public education knowledge."

Jim Miller, CCIM, ALC, Lake County School Board Member City 1

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Valhalla, NY • 1.888.210.8899 • www.conedisonsolutions.com

Burlington, MA • 781.203.2700 | Cherry Hill, NJ • 856.665.0955 | Chicago, IL • 646.533.3187 | Duncanville, TX • 214.904.8001 Falls Church, VA • 703.875.9458 | Houston, TX • 713.343.6800 | Overland Park, KS • 800.356.1239 | Tampa, FL • 813.375.3399



Energy Efficient Garage Lighting

Bid No.: 463-11684



Leading our Students to Success

201 West Burleigh Boulevard · Tavares · FL 32778-2496 (352) 253-6500 · Fax: (352) 253-6503 · <u>www.lake.k12.fl.us</u>

Date: 3-15-2015

To: Mr. Jeff Wykoff ConEd Solutions 3101 West Dr. Martin Luther King Jr Boulevard Tampa, Florida 33607

Jeff,

Ever since the District chose ConEd Solutions in 2011 as our energy performance contracting professionals we have been very pleased with the customer focused approach that your team has taken throughout the project, from development to closeout. And, even though the project was completed in 2012, you all continue to this day to provide us with priority support and assistance whenever asked.

It has been a pleasure working with the quality people that are on your team. The project that your team worked with us to develop resulted in one of the best performing energy conservation projects with which I have been involved during my extensive career in Energy Management.

The savings from the project (over \$800K a year) has helped pay for extensive and much needed mechanical equipment and HVAC controls upgrades at a critical point in time when we did not have the means of funding the work. The District greatly appreciated your team's diligence in getting the work completed within the compact timeframe that we had to work within, while at the same time ensuring that the work was non-disruptive to our learning environment, which was critical. We consider ConEd Solutions our energy partner and look forward to future projects together.

I would wholeheartedly recommend ConEd Solutions for the provision of energy services to any organization.

Sincerely,

Pete Myles, SE, SFP Energy Program Manager Maintenance & Operations Department Lake County School Board

Cell: 352-636-5549

"Equal Opportunity in Education and Employment"

City of Fort Lauderdale

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Superintendent: Susan Moxley, Ed.D.

District 1 Bill Mathias District 2 Rosanne Brandeburg District 3 Marc Dodd District 4 Debbie Stivender District 5 Stephanie Luke

School Board Members:



Pasco-Hernando State College (PHSC)

Con Edison Solutions was selected by Pasco-Hernando State College (PHSC) to enhance energy conservation across multiple campuses. The project included uncovering energy savings in a variety of areas, including HVAC, water, sewer, trash and lighting. ConEdison Solutions was the turnkey, design-build engineer and contractor for the **\$6,039,229** performance contracting project that was implemented at the East, West and North Campuses.

Highlights of the project included:

- Replacement of over 6,500 standard fluorescent fixtures with new LED fixtures
- Installation of over 1,100 occupancy sensors and controllers
- HID lighting replacements with new LED fixtures
- Chiller replacements at our East and West campuses
- Air Handling Unit (AHU) replacements
- EMS and control system modifications including VAV box reprogramming
- Installation of Variable Frequency Drives (VFDs)
- Demand controlled ventilation (DCV)
- Water meter replacement and downsizing
- Vending machine controls
- Retro-commissioning

Previous to the Performance Contracting project, the New Port Richey campus had both an air cooled chiller plant and a water cooled chiller plant with a total of 6 chillers and 12 chilled water pumps. The ConEdison Solutions' engineering team developed an innovative design solution that completely eliminated the air cooled plant by running an underground pipe to the existing water cooled plant. The design also converted the entire chilled water system to primary-variable pumping, reducing the number of chilled water pumps from 12 to 2. When the system became fully operation in the summer of 2014, there was a 33% reduction in consumption on the utility bill. The entire campus was able to run on 1 chiller, the new energy efficient centrifugal chiller that ConEdison Solutions installed in their existing water cooled plant.





March 31, 2015

Pasco-Hernando State College 10230 Ridge Road New Port Richey, Florida 34654-5199

To Whom It May Concern:

The Pasco-Hernando State College (PHSC) selected ConEdison Solutions as our Performance Contracting partner after an extensive selection process that included written responses and oral interviews.

ConEdison Solutions was our turnkey, design-build engineer and contractor for the \$6,039,229 performance contracting project that was implemented at our East, West and North Campuses. We found ConEdison Solutions' ECM MasterPlan and open book pricing model to be very efficient and cost competitive.

Highlights of the project include:

- ✓ Replacement of over 6,500 standard fluorescent fixtures with new LED fixtures
- ✓ Installation of over 1,100 occupancy sensors and controllers
- ✓ HID lighting replacements with new LED fixtures
- ✓ Chiller replacements at our East and West campuses
- ✓ Air Handling Unit (AHU) replacements
- EMS and control system modifications including VAV box reprogramming
- ✓ Installation of Variable Frequency Drives (VFDs)
- ✓ Demand controlled ventilation (DCV)
- \checkmark Water meter replacement and downsizing
- ✓ Vending machine controls
- ✓ Retro-commissioning

Previous to our Performance Contracting project, our New Port Richey campus had both an air cooled chiller plant and a water cooled chiller plant with a total of 6 chillers and 12 chilled water pumps.

The ConEdison Solutions' engineering team developed an innovative design solution that completely eliminated the air cooled plant by running an underground pipe to the existing water cooled plant. The design also converted the entire chilled water system to primary-variable pumping, reducing the number of chilled water pumps from 12 to 2.

When our system became fully operation in the summer of 2014, we noticed a 33% reduction in consumption on our utility bill. We were able to run our entire campus on 1 chiller, the new energy efficient centrifugal chiller that ConEdison Solutions installed in our existing water cooled plant.

East Campus 36727 Blanton Road Dade City, FL 33523 352.567.6701 North Campus 11415 Ponce de Leon Boulevard Brooksville, FL 34601 352.796.6726 Porter Campus at Wiregrass Ranch 2727 Mansfield Boulevard Wesley Chapel, FL 33543 813.527.6615 Spring Hill Campus 450 Beverly Court Spring Hill, FL 34606 352.688.8798

West Campus/District Office 10230 Ridge Road New Port Richey, FL 34654 727.847.2727

www.phsc.edu

AN EQUAL ACCESS/EQUAL OPPORTUNITY INSTITUTION

Energy Efficient Garage Lighting

Bid No.: 463-11684



In fact, the reduction in consumption was so dramatic that our local utility company came to our New Port Richey campus on two separate occasions, because they thought there might be something wrong with their utility meter or another part of their system.

We have been very pleased with the outcome and performance of our Performance Contracting project with ConEdison Solutions. They have a highly experienced and capable team of performance contracting specialists, professional engineers, energy engineers, project managers and construction managers.

I would gladly recommend ConEdison Solutions to anyone considering a Performance Contracting project.

If you have any questions about our project, please feel free to give me a call.

Sincerely,

Keith Braun, CFM, GGP **Director of Facilities**

Phone: 727-816-3336

City of Fort Lauderdale

CAM # 16-0950 Exhibit # 4 27 of 38



PROJECT NAME:	CITY OF FORT PIERCE						
Project Location:	City of Fort Pierce						
Project Scope:	Interior, exterior lighting retrofit of all City owned building assets, replacement of all City owned roadway lighting (over 4,500 cobra head and decorative post tops), replacement of chillers at City Hall and Police Station, replacement of AHUs at City Hall,						
Project Size (sq. ft.):	Varies Total Contract Amount: \$6,039,229						
Project Type:	Energy Savings Performance Contract						
ESCO'S ROLE IN PROJ	ECT						
Responsibilities:	Turnkey, in-house, self-perform business model for all aspects of the performance contract. Providing client with one point of accountability for full project design, elect/mechanical /plumbing /fire engineering (including signing and sealing of design drawings), subcontractor hiring/management (electrical, mechanical, controls, and structural), permitting, project management, general contracting, start-up and commissioning.						
Principal in Charge:	Andre' LeBlanc, Director of Operations Project Manager: Kevin Faris, MBA, LEED AP						
Mechanical Engineer::	Nikolas Nemick, MBA, PE . – Sr Mech. Eng. Electrical Engineer: Jorge Davila, P.E						
	Commissioning: David Adams						
OWNER INFORMATION	Ν						
Contact Person, Title:	City of Fort PierceEmail:nmimms@fppwd.comNick Mimms, Deputy City ManagerPhone:(772) 460-2200100 US 1 North, Fort Pierce, FloridaPhone:(772) 460-2200						



PROJECT NAME:	CITY OF PUNTA GORDA	
Project Location:	City of Punta Gorda	
	Upgrade existing inefficient fluorescent, incandescent, hig HID, and high pressure sodium lighting with high efficiency compact fluorescent, induction and LED technologies. The exterior lighting on multiple buildings, the WTP & WWTP b well as recreational parks and city streetlights.	y fluorescent with electronic ballast, scope of work includes interior and
Project Size (sq. ft.):	Varies Total Contract Amount:	<u>\$725,131</u>
Project Type:	Energy Savings Performance Contract	
ESCO'S ROLE IN PROJ	ECT	
Responsibilities:	Turnkey, in-house, self-perform business model for all as Providing client with one point of accountability for full p /plumbing /fire engineering (including signing and sealing hiring/management (electrical, mechanical, controls, and management, general contracting, start-up and commiss	roject design, elect/ mechanical g of design drawings), subcontractor l structural), permitting, project
Principal in Charge:	Andre' LeBlanc, Director of Operations Pr	oject Manager: David Adams, LEED AP
Mechanical Engineer::	Nikolas Nemick, MBA, PE . – Sr Mech. Eng.	

OWNER INFORMATION

•••••••••••••••••••••••••••••••••••••••	-		
Owner:	City of Punta Gorda	Email:	rkeeney@ci.punta-gorda.fl.us
Contact Person, Title:	Rick Keeney, Director of Public Works	Phone:	941-575-5050
Address:	3130 Cooper Street, City of Punta Gorda, FL		



6. Minority/Women (M/WBE) Participation

Our Approach to M/WBE Participation

ConEdison Solutions is committed to minority- and women- owned business participation and have an established procurement process and a formal Small Business Subcontracting Plan in place to insure M/WBE participation in our energy services performance contracts. As a company policy, all subcontractors that want to work with ConEdison Solutions are required to complete a Request for Qualifications Form. This form, once completed, provides Con Edison Solutions with a complete picture of the subcontractor, including subcontractor's status as a small or minority owned business and whether the subcontractor has a small business subcontracting in place. The Director of Operations reviews the Request for Qualifications Form, and, if acceptable, approves the subcontractor to be added to the list of prequalified subcontractors. From this list of prequalified subcontractors, ConEdison *Solutions'* project managers obtain no less than two bidders to provide competitive cost proposals for a given project. A similar process for qualifying equipment suppliers is also followed, but with a Vendor Self-Certification Form completed, that identifies the Vendor name, address, DUNS number NAICS Codes and whether the Vendor is a large, small and/or minority-owned business.

M/WBE Participation Specific to City of Fort Lauderdale Energy Efficient Garage Lighting Project

ConEdison Solutions is committed to continue to expand our diversity commitment if selected by the City of Fort Lauderdale. We have reviewed the City's M/WBE Directory within the procurement section of the City's website. We have preliminarily identified M/WBE Subcontractors with whom we have worked with in the past and whom, through a competitive process, we have selected to partner with on other opportunities with the City of Fort Lauderdale. The selected firm also qualifies for the City's Local Business Preference Ordinance. If selected as the City's prime contractor for this project, ConEdison Solutions Project Manager will work with Procurement and Public Works staff to identify other local M/WBE subcontractors to be added to the pool of potential bidders for any additional professional services and installation subcontracts. It is ConEdison preference to utilize local subcontractors approved by the City of Fort Lauderdale to ensure the maximum number of jobs created by and developed projects stay with the local economy. This also satisfies other goals set forth by the City's Sustainable Action Plan.

ConEdison has done work with a number of Firms in South Florida over the years. We have identified the following Firm, which we have elected to partner with for this project pending City of Fort Lauderdale approval.

Advanced Energy Solutions, Inc. (AES) - additional details on this firm is provided in Section 7 – Subcontractors of this response.

Beyond AES, ConEdison Solutions intend to present other M/WBE businesses with the opportunity to participate in this project. Once our Engineers are more familiar with the garage facilities and have established the breadth and complexity of the scope of work, other M/WBE will be identified, qualified and presented with the opportunity to provide professional services and or installation subcontractor services



7. Subcontractors

ConEdison Solutions has completed several projects partnering with a number of Firms in South Florida over the years. We have identified the following Firm, which we have elected to partner with for this project pending City of Fort Lauderdale approval.

Advanced Energy Solutions, Inc. (AES) – a MBE electrical contracting company serving South Florida since 1996. They also qualify as a "Class C Business" within the City of Fort Lauderdale Local Business Preference Ordinance. Their offices are located in Fort Lauderdale, Florida. ConEdison Solutions has a strong relationship with AES, through the ConEdison Small Business Program, we have procured approximately \$16 million in lighting retrofit services through AES in the last 12 years. ConEdison Solutions has retained the services of AES to perform multiple energy conservation projects, from lighting and lighting controls to electrical services at United States Postal Service facilities throughout the United States as part of a long-term energy services contract, which ConEdison has had with USPS since 1997 serving over 18 million square feet. AES not only performs the installations at these various sites, but does so in a manner which does not impede any of the USPS mail operations. Adding to their value, AES has the capability to perform audits and surveys, photometric analysis, and pre and post measurements as part of our energy projects. If awarded the opportunity to this energy efficient garage LED retrofit project with the City of Fort Lauderdale, AES will be utilized as our installation subcontractor. ConEdison Solutions will leverage our excellent relationship with AES to best serve the needs of the City.

Southeast Florida Lighting Inc. (SEFL) – In addition to AES, ConEdison Solutions has procured pricing from SEFL, a Fort Lauderdale lighting distributor for the controls portion of the scope of services requested by the City of Fort Lauderdale. SEFL will provide materials only for this project should we be successful in our bid further showing our commitment to the City and its businesses.



8. Required Forms – Attachment A – Bid Certification

City of Fort Lauderdale	Bid 463-11684
BID/PROPOSAL CERTIFICATION	
Please Note: All fields below must be completed. If the field does not apply to you, please note N/A in that field.	
If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of accordance with Florida Statute §607.1501 (visit http://www.dos.state.fl.us/).	of state, in
Company: (Legal Registration)BGA INC., A CONEDISON SOLUTIONS COMPANY	
Address: <u>3101 W. DR. MARTIN LUTHER KING, JR. BLVD. SUITE 110</u>	
City: <u>TAMPA</u> State: <u>FL</u> Zip: <u>33607</u>	
Telephone No. 786-459-3845 FAX No. 813-375-3400 Email: FISHERC@CONEDSOLUTION	S.COM
Delivery: Calendar days after receipt of Purchase Order (section 1.02 of General Conditions): 180	_
Payment Terms (section 1.04 of General Conditions): 45 days	
Total Bid Discount (section 1.05 of General Conditions):0%	
Does your firm qualify for MBE or WBE status (section 1.09 of General Conditions): MBE WBE	·
ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been receive included in the proposal:	d and are
Addendum No. Date Issued Addendum No. Date Issued	
15/11/2016	
	_

<u>VARIANCES</u>: If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A. If submitting your response electronically through BIDSYNC you must also click the "Take Exception" button.

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting this signed response, that in no event shall the City's liability for respondent's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitations, row are proceedings exceed the amount of Five Hundred Dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Name (printed

1 Auron Signature 6-9-16 Decethny LORG Title

Date: revised 04/10/15

5/11/2016 5:42 PM

City of Fort Lauderdale

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Attachment B – Cost Proposal

PACA Parking Garage: 239 fixtures

- 1. LED Lighting conversion with integrated fixture occupancy controls
 - a. 5 year fixture warranty \$135,390
 - b. Alternate 10 year fixture warranty \$141,720
 - c. Adder Hubbel wiSmart Control System \$79,463

Utility Savings = \$21,705

City Hall Parking Garage: 525 fixtures

- 1. Visonaire LED Lighting conversion with integrated fixture occupancy controls
 - a. 5 year fixture warranty \$276,776
 - b. Alternate 10 year fixture warranty \$291,418
 - c. Adder Hubbell wiSmart Control System \$162,443

Utility Savings = \$48,347

Combined: 764 fixtures

- 2. Visonaire LED Lighting conversion with integrated fixture occupancy controls
 - a. 5 year fixture warranty \$412,166
 - b. Alternate 10 year fixture warranty \$433,138
 - c. Adder Hubbell wiSmart Control System \$241,906

Notes:

- 1. Quote is based on fixture quantities listed in the RFP
- 2. Saving calculations based on \$0.07/ kWh
- 3. Combined Project is eligible for approximately \$55,000 in 179D Tax Deduction
- 4. FPL Rebate to be calculated with upon award



Energy Efficient Garage Lighting

Bid No.: 463-11684



Not Applicable



Attachment D

Not Applicable.

BGA Inc., A ConEdison Solutions Company is considered a **Class D** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. and does not qualify for Local Preference consideration.



Attachment E

Contract Payment Method - ConEdison Solutions takes exception to receiving payment using a P-Card. Our preference would be to receive payments by check.





Attachment F – Sample Insurance Certificate

CEI BEI REI IMP the cer Mar 116	RTIFICATE DOES NOT AFFIRMATI LOW. THIS CERTIFICATE OF INS PRESENTATIVE OR PRODUCER, AI PORTANT: If the certificate holder	VEL						TE (MM/DD/YYYY) 2/21/2014
the cer PRODU Mar 116		ND TI	Y OF NCE HE C	NEGATIVELY AMEND, I DOES NOT CONSTITUTI ERTIFICATE HOLDER.	EXTEND OR ALT E A CONTRACT	ER THE CO BETWEEN T	VERAGE AFFORDED BY T 'HE ISSUING INSURER(S),	HE POLICIES AUTHORIZED
Mar 116	terms and conditions of the policy, rtificate holder in lieu of such endors	cert	ain p	olicies may require an en	dorsement. A sta		is certificate does not confe	
116	UCER arsh USA, Inc.				CONTACT NAME:			
	66 Avenue of the Americas w York, NY 10036				PHONE (A/C, No, Ext): E-MAIL ADDRESS:		FAX (A/C, No):	
NEV	w York, NY 10036			-				
104247-CESI-PL\$1M-13-14 INSURED Consolidated Edison Solutions, Inc.					Einst Libert	SURER(S) AFFOR	IDING COVERAGE	33588
				INSURER A : First Liberty Insurance Corp. INSURER B : Liberty Mutual Group Inc			53566	
					INSURER C : American Guarantee and Liability Insurance Company			26247
Suñ	0 Summit Lake Drive ite 410				INSURER D : Associated Electric & Gas Ins Services Ltd			3190004
Vall	Ihalla, NY 10595				INSURER E :			
					INSURER F :			
	COVERAGES CERTIFICATE NUMBER: THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW H				NYC-006808819-01		REVISION NUMBER:	
	DICATED. NOTWITHSTANDING ANY RE RTIFICATE MAY BE ISSUED OR MAY CLUSIONS AND CONDITIONS OF SUCH		AIN, CIES.	NT, TERM OR CONDITION O THE INSURANCE AFFORDE LIMITS SHOWN MAY HAVE E	DF ANY CONTRACT D BY THE POLICIE SEEN REDUCED BY	OR OTHER I	DOCUMENT WITH RESPECT T D HEREIN IS SUBJECT TO AL	O WHICH THIS
LTR	TYPE OF INSURANCE GENERAL LIABILITY	INSR	WVD	POLICY NUMBER TB6-691-544581-063	(MM/DD/YYYY) 09/01/2013	(MM/DD(YYYY) 09/01/2014	LIMITS	1.000/
-	X COMMERCIAL GENERAL LIABILITY			100-001-044001-000	08/01/2013	0801/2014	EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$	100/
H	CLAIMS-MADE X OCCUR							10
-	CLAIMS-MADE COCOR					MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$	1,000/	
						GENERAL AGGREGATE \$	10,000.	
5	OFMUL ACCRECATE UNIT ADDUES DED.						PRODUCTS - COMP/OP AGG \$	10,000,0
Ē	GENL AGGREGATE UMIT APPLIES PER: X POLICY PRO- JECT LOC						5	
A	AUTOMOBILE LIABILITY			AS6-691-544681-053	09/01/2013	09/01/2014	COMBINED SINGLE LIMIT (Ea accident) \$	1,000,0
	X ANY AUTO						BODILY INJURY (Per person) \$	
	ALL OWNED SCHEDULED AUTOS NON-OWNED						BODILY INJURY (Per accident) \$	
	HIRED AUTOS NON-OWNED AUTOS					PROPERTY DAMAGE \$		
							S	
C	X UMBRELLA LIAB X OCCUR			6476437-00	09/01/2013	09/01/2014	EACH OCCURRENCE \$	15,000,0
-	EXCESS LIAB CLAIMS-MADE					AGGREGATE \$	15,000,0	
	DED RETENTION \$			WCE-691-544681-073	09/01/2013	09/01/2014	X WC STATU- OTH-	
~ J	AND EMPLOYERS' LIABILITY			W00001-044001-010	08/01/2013	08/01/2014	TORY LIMITS ER	1,000,0
1	ANY PROPRIETOR/PARTNER/EXECUTIVE	N/A				E.L. EACH ACCIDENT \$	1.000.0	
- 12	(Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$	1,000,0
_	PROFESSIONAL LIABILITY		-	EO5086102P	04/28/2013	04/28/2014	E.L. DISEASE - POLICY LIMIT \$ POLICY LIMIT:	\$2,000,0
				2000001021	04/20/2015	04/20/2014	SIRC	\$1,000.
							SIR.	\$1,000,

ACORD 25 (2010/05)

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City of Fort Lauderdale

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