



ENERGY EFFICIENCY & CONSERVATION BLOCK GRANT FORMULA FUNDING



POMPEY PARK OUTDOOR LIGHTING PROJECT BENEFITS JULY 2010

This project is expected to experience the following benefits to the Delray Beach community:

	# of Fields/Courts	# of Existing Fixtures to be Removed	# of New "Green" Fixtures to be Installed
Baseball Fields	Three (3) fields	88 Fixtures	66 Fixtures
Basketball Courts	Two (2) Courts	16 Fixtures	8 Fixtures
Tennis Courts	Two (2) Courts	12 Fixtures	8 Fixtures
TOTAL		116 Fixtures	82 Fixtures

Reduction in Energy Demand

- o Old Technology – 173.36 kW (88 - 1500 Watt fixtures & 28 - 1000 Watt fixtures)
- o New Green Technology - 124.536 kW (74 - 1500 Watt fixtures & 8 - 1000 Watt fixtures)
- o Results in a savings of 48.824 kW
- o Based on 500 hours/year usage – the kWh's savings over a 25 years period is = 610,300 kWh

CO2 Footprint Reduction

- o 1,185.6 Metric Tons of CO2

25 Year Parts & Labor Warranty

- o Warranty diagnosis the lighting system and notifies the City to schedule maintenance the next business day

Control Link

- o Flexible on/off ability via phone, website, e-mail, or fax
- o Offers an additional energy savings of 20% to 30% due to efficient scheduling

Guaranteed Light Levels

- o 50/30 Footcandles – Baseball / Softball
- o Increases light levels to today's IESNA Standards
- o 50% Reduction in Spill & Glare

The projected 25 Year Savings as a result of the grant funded project is **\$828,973.00**.



Cost of Ownership Savings Potential For:

Pompey Park Retrofit - Delray Beach, FL

Save Scenario

Prepared on: 7/28/2010

With information provided

Delray Beach Parks

Lighting Information

Number of Green Generation Fixtures

1000W

1500W

Number of Prior Generation Fixtures

1000W

1500W

Annual Controls Energy Savings Percentage

Total Maintenance Cost Per Year

Annual Inflation Percentage

Energy Costs

Maintenance Costs

Green Generation Blended kWh Rate



Prior Generation Blended kWh Rate



Annual Hours of Use



Years Analyzed



For Your Budget

Electrical Savings

Maintenance Savings

25-Year Life-Cycle Savings

For Your Environment

Tons of CO2 Saved

Which Equals



Cars Not Driven
For One Year

OR



Household's Annual
Electricity Usage



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Field Sales Representative
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July 28, 2010

RE: Pompey Park Retrofit Savings

Dear Richard,

I want to Thank You for taking time to review this information for the City of Delray Beach Sports Lighting retrofit project. Following are the values and benefits the Musco Green Technology is providing for the City of Delray Beach at Pompey Park.

Reduction in Energy Demand

- Old Technology – 173.36 kW (88 1500 Watt and 28 1000 Watt)
- Green Technology - 124.536 kW (74 1500 Watt and 8 1000 Watt)
- 48.824 kW Savings
- Based on 500 hours/year usage - kWh Savings over 25 Years = 610,300 kWh

CO2 Footprint Reduction

- 1,185.6 Metric Tons of CO2

25 Year Parts & Labor Warranty

- Musco's Warranty diagnosis the lighting system and notifies users the next business day about scheduling maintenance

Control Link

- Flexible on/off ability via phone, website, e-mail, or fax
- Offers an additional energy savings of 20% to 30% due to efficient scheduling

Guaranteed Light Levels

- 50/30 Footcandles – Baseball / Softball
- Increases light levels to today's IESNA Standards

Reduction in Spill & Glare

- 50% Reduction

Projected 25 Year Savings of **\$828,973.00**

Due to the reduction of fixtures and reducing load on the poles, Musco Lighting can use existing poles and existing electrical underground, pending inspection. Please let me know if you have any further questions or comments regarding this retrofit project.

Respectfully,

A handwritten signature in blue ink that reads "Lewis Gilbert".

Lewis Gilbert
Sales Representative
Musco Lighting

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