



Lake Worth Electric Utilities

1900 2nd Avenue North  
Lake Worth, FL 33461

## STREET LIGHTING WITH A NEW APPROACH

### DID YOU KNOW?

- LED lights typically use 80-90% less energy than incandescent bulbs;
- LED lights have a 5-7 year warranty;
- LED lights require less bulb replacement therefore less staff time for maintenance;
- LED lights will reduce the heat levels from 4000k to 2700k per light;
- Lake Worth is the 1<sup>st</sup> municipality in the State of Florida to receive approval for 2700k LEDs on FDOT controlled roadways.

### ADDITIONAL BENEFITS

- International Dark Skies Association (IDA) compliant;
- Directional & focused lighting;
- Reduced up-light, backlight & glare;
- LED lights improves images captured on closed circuit television;
- LED bulbs emit light more evenly;
- Cost savings = \$250k per year.

## LED STREET LIGHT FAQ

### WHAT ARE LED LIGHTS?

LED stands for Light Emitting Diode. Traditional bulbs produce light through a filament that eventually burns out. LEDs produce light when electrons move through a semiconductor. LEDs have a longer lifespan – about four times longer than the fixtures currently used in Lake Worth.

### WHY IS THE CITY CHANGING TO LED STREET LIGHTS?

Cities around the world are switching to LED lights as a way to save both money and energy. LEDs use approximately 80-90% less energy compared to their high-pressure sodium luminaries' predecessors. LEDs provide better service reliability and lower maintenance costs. Additionally, the old lights on Lake Worth streets are approaching the end of their useful life and need replacing.

### HOW MANY LIGHTS WILL BE UPGRADED?

Street lighting is provided for major, collector and local roads and parking lots where vehicles, bicycles and pedestrians are generally present. The City owns over **4,000 street lights** which brighten our roads, sidewalks and public spaces. The City will replace existing lights with LED technology and add approximately **150** LEDs to dark areas.

#### HOW MUCH WILL THIS COST?

The replacement program will actually save the City money on an annual basis - over \$250,000 a year in reduced electric usage & maintenance costs. These savings are paying for the improvement, therefore avoiding the need to raise taxes or issue bonds.

#### HOW WILL THE NEW LIGHTS AFFECT SAFETY?

The LED light will help support better detection of crime, as it improves images captured at night from CCTV (closed circuit television). It also allows clothing colors and car registration numbers to be more easily identified.

#### WILL THE LED STREET LIGHTS LOOK DIFFERENT?

Yes, the City will look different once the conversion is complete. The new lights comply with the **International Dark-Skies Association** (IDA), which means the new street lights will significantly reduce uplight, backlight and glare. They provide light only to those areas intended without spilling into homes or windows. Additionally, the lights will be “warm-white”.

#### HOW DOES THIS ADDRESS LIGHT POLLUTION?

Once installed and calibrated, the night skies should appear clearer. The vast majority of the new LEDs are “cobra-head” fixtures. They receive the best ranking - a ‘0’ - when it comes to the amount of up-light they produce. That means less light pollution or sky glow.

#### WHY DOESN'T THE CITY REPLACE FIXTURES WITH LEDs AS THEY BURN OUT?

It is more cost-effective to replace all of the lights at one time rather than individually. In addition, it is difficult to maintain consistent lighting levels with a mixture of different types of lights. LEDs distribute light differently than High Pressure Sodium fixtures. Mixing the two different lighting types creates an inconsistent and potentially distracting effect for drivers.

#### WHAT ARE THE INSTALLATION IMPACTS FOR MY NEIGHBORHOOD?

Residents and business owners will experience only minor impacts as a result of this project. There will be no permanent construction sites, as crews will be mobile during the installation phase. Proper traffic control will be in effect, with clear signage directing motorists around the installation locations.

#### HAS THE CITY CONSIDERED ANY HEALTH IMPACTS LIGHT ASSOCIATED WITH LEDs?

Yes, the potential impacts were evaluated. The LED technology that is used is a “warmer” light, meaning that exposure to blue light will be minimal.

#### ARE THE OLD LIGHTS RECYCLED?

Yes. Lights removed during the installation of the new LEDs will be recycled.

\*k = kelvin is a unit of measure of temperature