LED Retrofitting Aids Wastewater Treatment Plants

Hazardous environmental applications traditionally have used three types of high-intensity discharge lighting—high-pressure sodium, fluorescent and metal halide.

A fourth option is light-emitting diode (LED) technology, which has no filaments or fragile housings that can break during operation. Instead of heating a filament or using a combination of gases to produce light, LEDs use semiconductive materials that illuminate when electric current is applied. LEDs require no warm-up or cool-down time before re-striking, and provide instant illumination when powered on. They can withstand extreme heat and cold, as well as vibration. The increased visibility provided by the pure light LEDs produce increases security and safety.

Several wastewater plants have converted their lighting to LEDs, and the lights

are expected to last more than 10 years. The fixtures draw, on average, less than half the wattage of high-pressure sodium and mercury vapor, so operating costs are reduced over the life of the upgrade. LEDs combine ultra-high efficiency with reliable performance and a longer life span in an increasingly affordable package.

Retrofitting existing plants is not an issue, because most of the lights use existing wiring, making the installation process simple. The process usually takes less than an hour per fixture. w&wd

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One of the most effective ways to reduce your costs in wastewater plants is to replace older lighting with energy efficient LED technology.

The Larson Electronics **HALSS-48-2L-ITG-LED Hazardous Area LED Light Fixture** provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. LED technology and compact design makes this lamp an excellent replacement upgrade option for high maintenance and costly older fixtures.

This Class 1 Division 2 rated fixture produces 19,200 lumens of bright light in a 116° by 126° wide flood beam spread and can help you save 50% or more on energy.

Achieve better visibility and reduce your energy consumption by replacing your traditional lights today by calling us at **1-800-369-6671** or email us at **sales@larsonelectronics.com**.

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