

80% Savings On Electricity with LED Street Lighting

By Joliet Technology

Dated: Jul 13, 2008

The latest developments in high power LED lighting technology offer a viable alternative to conventional street lighting with energy savings of up to 80% and a considerable reduction in carbon emissions.

Power for street lighting represents the largest single cost faced by local authority's world wide.

Joliet Technology has recently launched a range of street lights based on high power LED (light emitting diode) technology. The range offers a selection of LED mast head lamp units designed to replace existing sodium and metal halide street lamps, a simple LED light bulb that fits standard E40 bulb holders, a specially designed tunnel light for underground applications, and a solar powered street light system which is totally independent of mains power.

Switching to LED street lights offers up to 80% savings on power consumption and ensures a complete return on investment in less than 17 months with colossal savings over the 10 year life of the product. Resultant reductions in harmful Co2 and So2 emissions are proportional.

Comparison between a conventional 400W sodium HP lamp and an equivalent JOL168W high power LED lamp based on 12 hours usage per 24 hour period shows a saving of 12.25kWh (Sodium HP power daily consumption = 14.83kWh, Joliet 168W high power LED daily consumption = 2.58kWh)

At current European average power costs this saving amounts to around 550 Euros per lamp, per year. A saving of 55,000 Euros per year per 100 lights in operation.

Conventional sodium HP or metal halide lamps have a life span of around one year requiring at least annual replacement and maintenance. Joliet high power LED lights require no regular maintenance further increasing savings on replacement bulbs, access equipment and labour costs. New installations benefit from a substantial reduction in the cost of expensive heavy duty cable required for sodium lighting.

The exceptional photometric properties of Joliet high power LED street lights, in addition to offering a bright, natural light colour, provide a uniform rectangular beam pattern (40x16 meters at 12 meter height) that is 50% brighter and 50% larger than the oval beam pattern produced by a conventional lamp. This highly focused beam pattern allows LED lights to be spaced at much wider intervals than sodium lights increasing still further the savings achievable in initial investment requirement and operating costs.

LED offers a number of significant benefits:

High lumen output

LED offers up to eight times more brightness than incandescent lamps without emissions harmful to the environment.

Tremendous energy savings

High power LED light sources are extremely efficient returning a 50 to 80% saving over conventional sodium or mercury lamps.

Long life

Operating for an average of 10 hours per day LED has a life span of up to 13 years, 50,000 hours. Unlike traditional light bulbs LED is not fragile and susceptible to breakage or vandalism.

High colour index

LED has an unique colour index providing bright, true colours during nighttime hours.

Revolutionary photometric design

Highly focused LED optical system provides a regular rectangular beam pattern with uniform brightness, reducing dark patches and light loss between light sources.

No glare or strobe effect

LED light sources do not produce glare or strobe effects common in conventional street lighting, reducing visual fatigue for drivers and pedestrians alike.

No dust absorption or yellowing

Because LED operates at low voltage and low temperature there is no reduction in brightness or yellowing, which is associated with traditional street lighting, over the life span of the LED

Instant start

Unlike sodium lights, LED lights do not require a time delay to reach optimum brightness levels.

Extensive information and assistance in choosing the most appropriate LED street light is available at www.joliet-led-streetlight.com

Joliet Technology is an international supplier of renewable energy equipment operating from headquarters in Northern Spain with offices in France, and the United Kingdom.

The company's general philosophy is to provide end users with well designed, user friendly equipment that can be easily installed and requires little or no maintenance. Above all the management believes that renewable energy based products should offer customers a real alternative to conventional energy sources without attracting a premium cost.

Joliet Technology SL also supplies a range of small domestic wind turbines www.joliet-wind-turbines.com and heat pump products www.joliet-europe.com

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Joliet supplies wind turbines, LED street lighting systems, and heat pumps.

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