

WORKING TO HELP YOU
SAVE MONEY AND REDUCE YOUR CARBON IMPACT



Case Study – The Square, Tralee, Co. Kerry, Ireland (Tralee Town Council)

Public Area Flood & Street Lighting LED Area Lighting



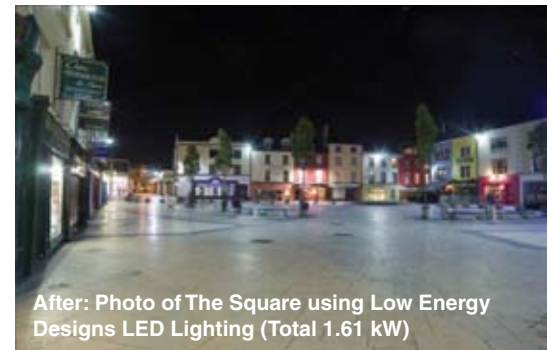
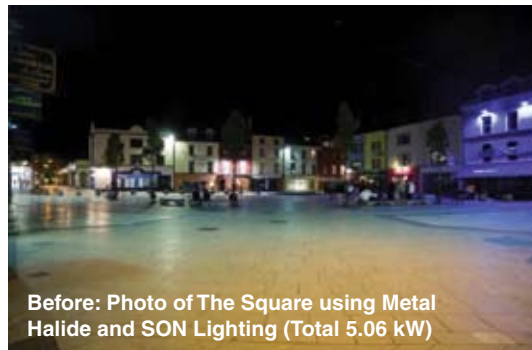
PROJECT: Installation of Low Energy Designs **SunBURST™**
88 Watt and **SunFIRE™** 77 Watt LED luminaires to replace 400
Watt Metal Halide Floodlights and 70 Watt SON Streetlights for
Tralee Town Council.



Low Energy Designs Limited
Unit 5 Coppi Industrial Estate, Hall Lane,
Rhos, Wrexham, LL14 1TG
United Kingdom

Tel: + 44 (0)1978 842500/639
Fax: + 44 (0)1978 211230
Email: info@lowenergydesigns.com
www.lowenergydesigns.com

Case Study – The Square, Tralee



The expectations of the project for Tralee Town Council and the ESB (Electricity Supply Board) were to deploy a public area LED lighting solution that would fulfill the following criteria:

- To provide comparable or better lighting levels within the selected area
- To provide consistent and evenly distributed light within the selected area
- To provide dramatic savings in power consumption and maintenance costs
- To provide an ability to customize the lighting levels

The independent evaluation provided the following results:

1. Reduced initial capital outlay by 2 luminaries from original installation.
2. Increased illuminance minimum average light level by 1.8 lux
3. Provided an overall saving of 68.1%, excludes the % savings from the maintenance.

Power and Cost Comparison

The following table compares power consumption and operational costs of 17 x Low Energy Designs LED units with the original combination of 19 x Metal Halide & HPS units.

Comparator	Metal Halide & SON Fittings	Low Energy Designs LED Units
Total power consumption (kW) per hour average	5,065 kW	1,616 kW
Yearly operation - 12/7 for 52 weeks per year	22,184.70 kW	7,078.08 kW
Cost per year based on 13cents per kW hour	€ 2,883.92	€ 920.15
CO2 (Tonnes)	8.87 Tonnes	2.83 Tonnes
Yearly saving		€ 1,963.77 + € 760.00 on Servicing = Total Savings per year = € 2,723.177
CO2 savings		6.04 Tonnes

Please contact us for further information or to discuss your specific requirements