

LED Lighting Puts Euro Garages Miles Ahead



Euro Garages reduces lighting energy costs by 60% thanks to an LED Lighting solution from One Electrical



Fast Facts	
Project:	LED Lighting Energy Saving Project
Where:	15 Euro Garages sites
Manufacturer:	One Electrical Ltd
Products:	Various LED Lighting
Visit:	www.oneelectrical.com

Euro Garages

A busy fuel station is operational 24/7, which means heavy energy consumption to light the pumps and the forecourt shop. It's a problem that Euro Garages is determined to address and, thanks to an LED lighting solution from One Electrical, the company has reduced lighting costs at several of its sites by 60%.

Euro Garages has a total of 181 sites across the North West of England and the Midlands, comprising a mix of fuel stations and motorway service stations. To date, around 15 fuel stations have been converted to LED lighting and the company has already been so convinced of the benefits that it intends to convert its entire property asset base as part of a full environmental and overhead reduction programme.

Explains Mohammed Patel, utilities manager at Euro Garages: "Lighting accounts for around 40% of our total electricity costs at a typical fuel station asset, which is a significant part of our monthly bill for each property and our carbon footprint."

"The savings we are making by switching to LED means that we can achieve an 11-month payback period and then continue to benefit from reduced operational costs indefinitely.

"Moreover, those cost savings also equate to energy savings which, as a responsible business, we are determined to achieve across our estate."

Greener Garages

The LED lighting installation is part of a programme of measures being introduced by Euro Garages, which includes installation of solar PV panels, rainwater harvesting, water monitoring and more efficient air conditioning systems.

Mohammed continues: "The solar PV installation will provide some of the energy for the lighting system, helping to reduce the environmental impact of our 24/7 lighting requirements still further.

"Lighting is by far the biggest financial and carbon saving we are making, which is why we are rolling it out across our sites as part of a £600,000 capital expenditure programme."

The company's 'Circle Service Station' in Manchester is typical of the locations that Euro Garages has converted to LED lighting so far. Last refurbished around 20 years ago, the lighting was inefficient, unattractive and required regular maintenance to replace lamps. Since being converted to LEDs, the fuel station's lighting costs have reduced from an average of £1,120 per month to just £504.

To minimise disruption and ensure that the lighting could be converted without requiring a wider refurbishment programme to accommodate different fittings, One Electrical provided like-for-like LED panel lights, downlights, directional display lights, canopy lights and floodlights, which were all installed within just three days.

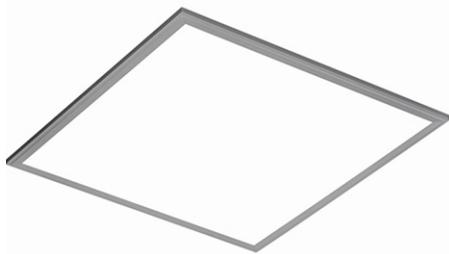


"The cost and energy savings were the main commercial reason for converting to LED lighting and that was the business case for the capital expenditure programme, based on payback period and long term cost savings."

Mohammed Patel, utilities manager of Euro Garages

At Circle Service Station, 40 36W One Electrical LED slimline recessed panels were installed in the ceiling of the forecourt shop and the back off house areas. These fully-dimmable fittings are available in a wide range of sizes and wattage/brightness profiles and are designed specifically for retrofit applications, with a low heat output to reduce air conditioning loads.

The slim line panel lighting is complemented by downlights in the cash desk area and directional display lights around the special offer bays.



Safety First

Externally, One Electrical's 100W forecourt canopy lights were installed, which have been specifically designed for fuel station installations. Featuring CREE LED chips and MEANWELL enclosed drivers, these specialist IP65 rated fittings are designed to reduce maintenance, improve end user safety

and drive down energy consumption while coping with heavy usage and all weather conditions.

The 80w version provides 7200 lumens and the 100w version offers 9000 lumens and both CE, SAA and PSE certified units boast a 1000 beam angle.

Mohammed continues: "Safety on the forecourt is very important to us. Because we run a 24 hour operation at our fuel stations it's essential that customers can see clearly to refuel and remain safe at our sites. The high lumen level offered by these fittings delivers those aims.

"Many of our sites are in residential areas too, however, so the natural light and 1000 beam angle ensure we act responsibly in terms of light pollution too."

In addition to the forecourt canopy lights, the exterior lighting installation also included One Electrical's 80W floodlights. Installed on an as needed basis to illuminate particularly dark areas of the forecourt, the IP65 units feature a high intensity reflector that can achieve reflective rates of up to 92% and an ultra-efficient heat sink.

Business Benefits

Mohammed adds: "The cost and energy savings were the main commercial reason for converting to LED lighting and that was the business case for the capital expenditure programme, based on payback period and long term cost savings.

"The benefits in terms of customer safety and staff comfort have proved to be equally beneficial to the company, however. The LED lighting we have now from One Electrical is flicker free, provides constant brightness and looks much more like natural daylight, which has been particularly beneficial to our night shift workers and has really helped with staff motivation."



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