

# CASE STUDY



**CLIENT:** Kuwait Petroleum Energy  
**LOCATION:** Belgium en Luxembourg  
**PROJECT:** Installation LS LED Downlights





## CASE STUDY

In very little time we realised energy savings of 75% .



### Q8 BELGIUM AND LUXEMBOURG STATIONS SWITCHES TO LED

At the end of 2012, the decision was made to fit all Q8 petrol stations in Belgium and Luxembourg with LED canopy lights as part of the Kuwait Petroleum Energy Efficiency Programme, which aims to optimise energy consumption and reduce CO<sub>2</sub> emissions. Kuwait Petroleum's preferred supplier for LED lighting, Bever Innovations, had two months to install 2500 LED fittings in collaboration with installer Gevitec. A sizeable job, that means a lot of work for both companies. At 263 Q8 Retail and Q8 Easy locations, all metal halide fittings were removed and replaced with Bever Innovations LS LED under canopy illumination.

### SIGNIFICANT SAVINGS

The project led to huge energy savings. 263 Stations were modified, realising an average saving of 3650 kWh per site. The 2500 LS LED fixtures have also significantly reduced CO<sub>2</sub> emissions.

### GEVITEC

Belgian electrotechnical installation bureau "Gevitec" was asked to carry out the installation company of the energy- efficient LED lighting. "We have been working with the LS fixtures from Bever Innovations for a number of years and we're very happy with it.



The LS Downlights can easily be installed by a single engineer, which is a definite bonus". - Danny Gevers, Managing Director Gevitec.

### OPTING FOR LS DOWNLIGHTS

In order to drastically reduce the energy use of its petrol stations, Kuwait Petroleum took the first step towards switching to LED lighting three years ago. At a trial site the conventional metal halide lights were replaced with sustainable and energy saving LED canopy lighting, which realised energy savings of 75% in very little time. After the successful trial, Kuwait decided to fit all new and existing Tango petrol stations (150 in total) with intelligent LED canopy fixtures. In addition to the unmanned Tango petrol stations, starting in 2012 all newly built Q8 and IDS petrol stations across Europe were fitted with intelligent LED canopy illumination.

### EXTRA SAFETY WITH INTELLIGENT DIMMING

The significant energy savings and long life were not Kuwait Petroleum's only reason to switch to the LS LED under canopy illumination.

A feeling of safety is also of paramount impor-

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tance to customers of unmanned stations. Therefore, LED lighting is an excellent addition to 24 hours security. When the LS Downlight detects movement it smoothly changes from dimmed to full power. The customer gets enough light to help him refuel while a pleasant visual environment is created at the same time. When the system no longer detects movement, the LED fixture smoothly changes back to dimmed light after several minutes. The dimmed mode of the LED under canopy illumination still provides a well-lit canopy that looks attractive and safe to potential visitors.

### BACKGROUND

Kuwait Petroleum Belgium NV is one of the largest fuel retailers in the Benelux market. Currently Kuwait Petroleum has more than 500 petrol stations in the Benelux. It has manned stations under the Q8 Retail brand and unmanned stations that are part of the Q8 Easy and Tango network in the Netherlands.



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