

Case Study

Skanska - Euston Station

Background

Skanska got the green light on works at London's Euston Train Station to demonstrate the potential of solar-powered off-grid temporary lighting, which would contribute sustainability benefits and cost-savings to the major infrastructure project.

Temporary lighting was needed to illuminate night-time working and to protect site security on the project. The project was to replace and upgrade an electricity substation at Barnby Street, NW1 for Network Rail.

Challenge

With no mains power on site a temporary off-grid lighting solution was needed for night-working and site protection.

As the substation site was next to a residential estate, it was important that all reasonable efforts were made to reduce site impacts, such as noise and fumes from generators.

The lights needed to be easy to install and avoid pinning of cables to the hoarding fence which could be a hazard.

I was familiar with the off-grid benefits of Prolectric solar lighting from previous trials, so I knew that using the ProTemps at Euston would mean we would get reliable site illumination without having to connect to mains electricity, therefore achieving a welcome saving in utility charges.

As the substation site is next to a residential estate, it was also important that we make all reasonable efforts to reduce our impacts, such as noise from generators. My role at Skanska is to encourage environmental improvement and promote the use of equipment powered by renewable sources.

It is important for contractors to be aware of solar-powered alternative for temporary lighting where it can reduce any adverse environmental impacts, and it will also help to save on project costs.

Richard Cattan
Environmental Manager



The ProTemp is a powerful and versatile solar-powered light mounted on a 1189kg steel-encased concrete base with a 5.4m telescopic mast. As a standalone unit it can be easily transported to site and moved into position with a forklift.



The Solution

Skanska chose to setup our ProTemp Temporary Solar Street Light to provide powerful and reliable lighting at the Euston site, with no noise or emissions.

As it does not use mains power, the ProTemp dispenses with the need for a contractor to dig trenches,

install trunking and cables and saves significantly on groundworks and installation costs.

The lights removed the need for temporary diesel generator lights, which would have been the only alternative to mains connection at Barnby Street.

The Result

Mounted on a concrete base, the stand-alone ProTemp tower light can be moved into position quickly and easily with a forklift or sack truck.

Eight lights were positioned around the perimeter of the Barnby Street site until the completion of the contract.

The ProTemp lights continue reliably even when winter days are dark and short. Every ProTemp is fitted with smart Passive Infrared Sensor (PIR) to optimise power usage. A bright light is activated when the area is entered by a vehicle or person.

When the area is unused this 'smart eye' technology switches the light to a lower lux level to save battery usage and minimise light pollution.



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Why choose Prolectric?



No Emissions
No fumes or greenhouse gas emissions.



No Noise
Ideal for urban, residential or night time projects.



No Refuelling
No fuel costs, spills or refuelling labour costs.



Minimal Maintenance
Setup and forget technology.



3-PIR Sensors
The only light offering detection for a wider range of motion.