

Case Study **Rexel**

Background

Magnox is responsible for decommissioning 12 nuclear power sites across the UK, including Hinkley Point A - a former Magnox nuclear power station. The supply of mains power in some areas is a major issue, and Magnox needed a solution to reduce hazards across the site and ensure that activities are carried out with due regard for the environment and health and safety.

Challenge

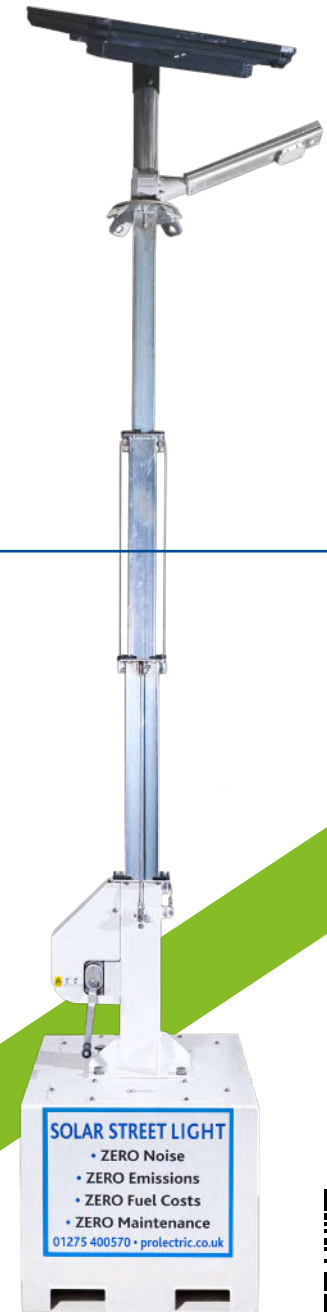
Hinkley Point A was a challenging environment owing to the absence of lighting for pedestrians and vehicles and digging trenches for cables caused major issues for Magnox owing to the sensitivity of the site. They needed a flexible, sustainable lighting solution to improve safety while reducing carbon emissions. They also needed to be able to move lighting across the site as the decommissioning process required. We worked closely with Rexel, our wholesale partner, to understand the complexities and came up with a solution that benefited both parties.

There are currently in excess of 30 units now located at HPA. They work very well in their chosen locations and are proving to be robust in what can sometimes be a very harsh and extreme environment. Once set up and thus far, they appear to be near self-sufficient with next to no maintenance required.

M. Reeve
Site Engineer - Rexel



As an alternative to temporary diesel lighting, the ProTemp offers a clean, low-carbon lighting solution that requires minimal maintenance.



SOLAR STREET LIGHT
• ZERO Noise
• ZERO Emissions
• ZERO Fuel Costs
• ZERO Maintenance
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The Solution

Prolectric worked with Rexel to quickly deploy 15 ProTemp solar lighting units at the site. The ProTemp is a temporary solar lighting column that delivers a powerful and reliable year-round lighting solution without noise, emissions or the need for mains power. The unit is mounted on a

1-tonne concrete base with a 5m column and can easily be moved with a forklift, dispensing with the need to dig trenches, reducing installation costs and red tape. The deployment helped Magnox achieve significant reduction in CO₂ emissions, saving time and money.

The Result

Our long-standing relationship with both Rexel and Magnox meant that we were able to deliver and install the 15 ProTemp units onto the site within just two months of the initial order. By deploying sustainable lighting at Hinkley Point A, Magnox has achieved a major reduction in CO₂ emissions, helping them

towards their net-zero targets. They have also saved significant time and money - ProTemp is a fully off-grid lighting solution, with no cables and no trenching required, combining effortless installation and zero maintenance with easy sitewide portability.

Key Statistics

- With no mains power required, the ProTemp dispenses with the need for a contractor to dig trenches, install trunking or cables and saves significantly on groundwork and installation costs.
- Benefits from clean, low-carbon lighting solution that requires minimal maintenance.
- The ProTemp is a 'setup and forget' asset that does not need to be refuelled or serviced.
- Every ProTemp is fitted with smart Passive Infrared Sensor (PIR) to optimise power usage in the unit. 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 off to save battery usage and minimise light pollution.

Why choose Prolectric?



No Emissions

No fumes or greenhouse gas emissions.



No Refuelling

No fuel costs, spills or refuelling labour costs.



No Mains Power

No need for trenches or cabling, external electricity or a DNO connection.



3-PIR Sensors

The only light offering detection for a wider range of motion.

