

## Case Study

# Coinford

### Background

Coinford, a prominent groundworks and RC frame contractor in the South East, required a reliable, sustainable lighting solution to support nighttime operations on their construction sites.

After exploring options, they turned to Prolectric to investigate our ProRXM Solar Tower Lights, a solution that aligns with their commitment to operational efficiency and environmental responsibility.

The Prolectric ProRXM is a space-efficient and versatile solar lighting tower that offers outstanding fuel savings and emissions reduction in the same footprint as the standard VT1 diesel powered alternative.

### Challenge

Coinford needed robust lighting that met specific lux requirements for task visibility and safety during nighttime work.

Additionally, they required year-round functionality in a limited space, demanding a footprint smaller than traditional diesel towers. The lights being deployed also had to align with Coinford's commitment to best practice and sustainability.

*We are doing whatever we can to minimise our environmental impact and as such we constantly review our processes to work in a smarter and more sustainable way.*

*Following our extensive engagement with the market to find a solution that was fit for purpose, a partnership developed with Prolectric which has enabled us to create a unique product and solution that matched our requirements and exceeded expectation.*

*The Prolectric team were willing to invest significant time and resource to the project, to understand our specific needs. Additional confidence was then secured during the trial period. We trialled others, but Prolectric gave us the innovation, as well as the assurance and the commitment we needed.*

**Lee Burlton**  
Plant Development Manager



## The Solution

Prolectric provided Coinford with a trial of our ProRXM Solar Lighting Tower, customising it along the way to address their unique needs.

Working closely, Coinford and Prolectric developed a series of modifications to the standard setup of the ProRXM Tower Light resulting in the creation of a completely bespoke product for Coinford's site-specific requirements.

The tower's were modified using our patented adaptive software, tailoring it to provide higher brightness for shorter nighttime operations.

Leveraging ten years of data and built-in adaptive algorithms, the ProRXM adjusts light output based on location, battery levels, and historical data, ensuring maximum efficiency and reliability even in challenging conditions.

By switching from diesel to solar powered lighting, Coinford is expected to save over 146,000 kgs of CO<sub>2</sub>e per annum on the initial 10 ProRXM units, compared to the most efficient diesel tower light.

Their team received technical training on-site, along with guidance on our Lighting Portal, enabling remote monitoring and management of the lights.

## The Result

Switching from diesel lighting to Prolectric's solar solution delivered substantial benefits:

- **Cost Savings:** Solar lighting eliminated fuel and refuelling costs, significantly reducing operational expenses compared to diesel alternatives.
- **Carbon Reduction:** Each ProRXM tower prevents up to 1.5 tonnes of CO<sub>2</sub> emissions monthly, supporting Coinford's environmental targets.

- **Health & Safety Improvement:** The high-lux, consistent lighting enhances task visibility and site safety, reducing risks associated with nighttime construction.

Prolectric's ProRXM Solar Lighting Towers allowed Coinford to achieve a cost-effective, environmentally responsible lighting solution with performance and branding customisations that set them apart in the marketplace. This partnership exemplifies sustainable innovation for construction lighting needs.

The below results were taken from October 2024 - February 2025

**Carbon Savings**  
11,802  
kg of CO<sub>2</sub>e

**Fuel Savings**  
4,702  
litres of fuel

**Cost Savings**  
£6,777  
GBP

\*Panels were deployed an average of 66% across the units for the duration.

\*Total run time hours of 2,436 which equates to 101 total days usage over the period.

## Why choose Prolectric?



**No Emissions**  
No fumes or greenhouse gas emissions.



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



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



**Advanced technology**  
Remote control, monitoring and reporting capabilities.



**Minimal Maintenance**  
Setup and forget technology.