

## Case Study

# Traction Rail

### Background

We collaborated with Traction Rail to implement sustainable and efficient lighting solutions for various railway projects.

The partnership aimed to address the unique challenges posed by rail environments while meeting the stringent safety requirements set by Network Rail.

### Challenge

The unique requirements of each phase, such as the trackside and car park installations, demanded a tailored solution that could address diverse needs.

The new lighting solution needed to be easy to deploy, cost-effective to run, and provide reliable year round lighting. Ensuring the installation works had minimal environmental impact.

The solution also needed to be environmentally sustainable and significantly reduce carbon emissions. Meeting Network Rail's standards and specifications for the proposed lighting solutions.



**Advanced Technology**  
'All in One' compact design.



**Battery Technology**  
Highly reliable performance during winter.

*Our products were proposed by Crayside Consultants, who were working on behalf of Network Rail. The specific rail health and safety requirements required additional column information to ensure compliance.*



We were the first company in the UK to install solar-only permanent street lights in 2011 and are now the market leader with thousands of units installed on streets, car parks and footpaths across the country.



## The Solution

### Products – In Action

- After a site visit, we developed a full lighting design and proposal, ensuring the new site lighting would reach the British lighting standards required.
- **First Phase - Trackside:** The initial phase focused on trackside lighting, utilising our AE6 200W solar panels paired with 20W lights mounted on mid-hinge columns. The project included lighting design services which provided valuable information to support Traction Rail in the installation process conducted by their contractor.
- **Second Phase - Train Station Car Park in Clapham:** The second phase involved the installation of our AE6 150W solar panels with 15W LED lights in the car park of the Clapham train station. This phase featured a mix of heavy duty and standard columns, with additional column guards for protection. We

provided comprehensive lighting design services and handled the installation, deploying the AE6 units.

### Products – Feature

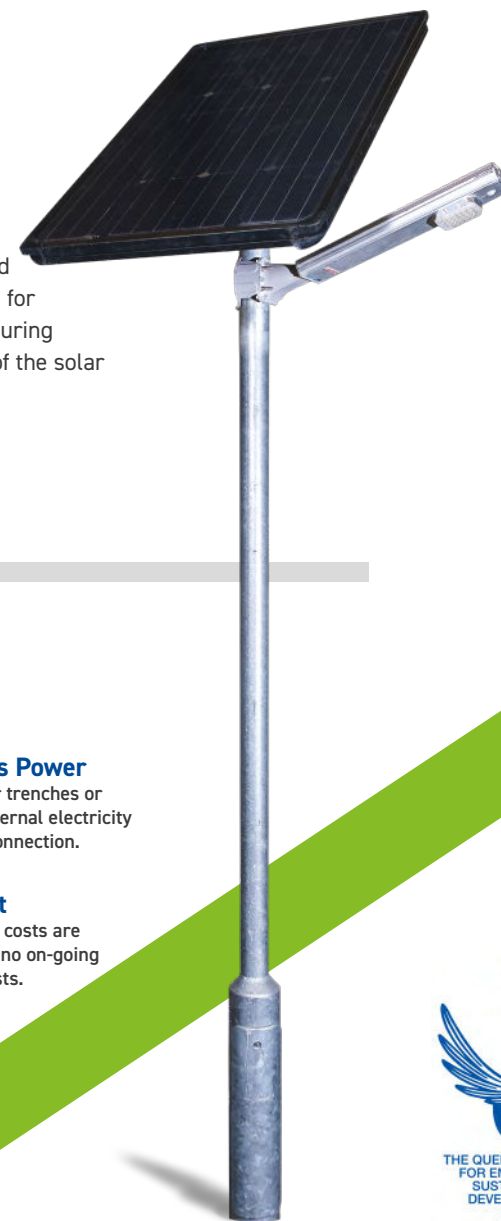
- Our AE6 is a high quality, year round, permanent solar-powered LED street light with no need for mains electrical power.
- They can be fitted or retrofitted for quick and easy installation. There is no need to install cables or dig trenches.
- Fully solar powered – no carbon emissions, no noise, no electricity bills and less maintenance required.
- The AE6 features a smart controller and Passive Infra Red (PIR) sensor, ensuring the unit lasts from dusk to dawn - even throughout the darkest winter months.

## The Result

Prolectric and Traction Rail implemented a multi-faceted approach to address the challenges.

- **Bespoke Lighting Design:** We provided detailed lighting design services tailored to each phase, ensuring optimal lighting while meeting safety standards.
- **Product Selection and Modification:** Our AE6 units were selected for their energy efficiency and reliability.

- **Installation:** We handled the installation process for the car park phase, ensuring seamless deployment of the solar lighting solutions.



## Why choose Prolectric?



**Lighting Designs**  
Custom lighting designs available, meeting British Lighting Standards.



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



**5-Year Guarantee**  
Cover on all parts of the lights and solar panel.



**Low Cost**  
Installation costs are halved and no on-going running costs.



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