prolectric™ SMART CLEAN TECHNOLOGY + Persimmon Together, we make your home

Case Study

# Persimmon Homes

## Background

We collaborated with Persimmon Homes, one of the UK's most successful housebuilders.

Persimmon is known for constructing over 13,500 new homes a year in more than 350 prime locations nationwide and is committed to the highest standards of design, construction, and service.

Persimmon needed an efficient lighting solution for their private estate project, Sycamore Rise. Persimmon faced challenges related to expensive power connections, the cost of ducting/cabling, and the need for a rapid lighting solution in a private estate managed by a management company due to roadways not being adopted by the council.

## Challenge

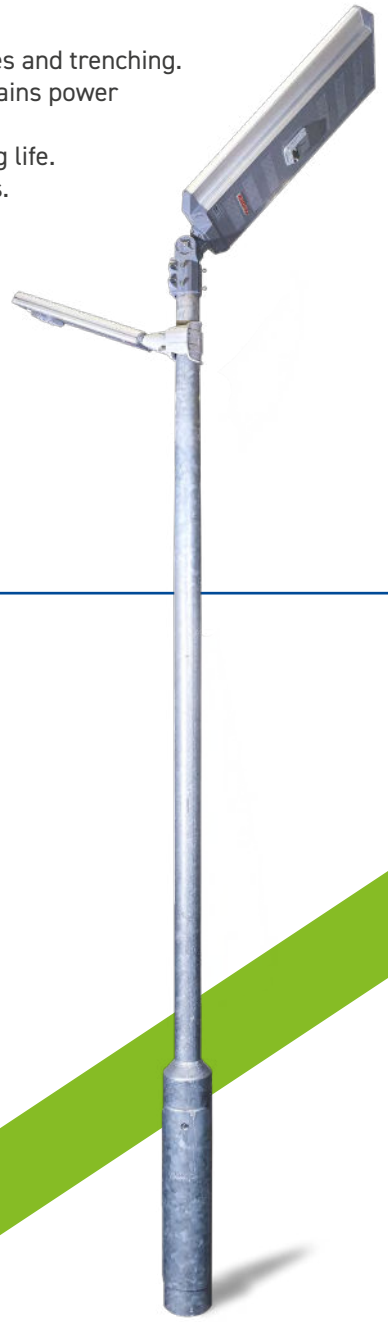
Persimmon Homes encountered several challenges in providing efficient lighting for Sycamore Rise:

- **Expensive Power Connections:** Traditional main power connections were costly due to a DNO connection being required.
- **Private Estate Management:** Sycamore Rise, a private estate, was not adopted by the council, requiring management by a private company, adding complexity to the project.
- **Tight Deadline:** A rapid turnaround was crucial as the project had to be handed over to buyers within a tight deadline.

## Key Stats:

- No Mains Power: Eliminated the need for ducting, cables and trenching.
- Installation Costs: Halved compared to conventional mains power alternatives.
- No Maintenance: Setup and forget with a long operating life.
- Instant Light: Delivered immediate lighting to residents.
- Minimal Disturbance: Reduced disruption to the estate during installation.

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.





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# Permanent Solar Lighting Solution

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# The Solution

After a site visit, we developed a full lighting design and proposal, ensuring the new site lighting would meet British lighting standards.

We installed 40 AE3 solar street lights with steel columns across approximately 175 plots on the estate. The AE3 units were chosen for their ability to provide lighting without the need for trenching, cabling or mains power.

The AE3 solar street lights are proven to operate reliably and efficiently throughout the UK winter, from dusk until dawn, thanks to their specially developed smart light controller.

The Sycamore Rise project resulted in significant benefits for Persimmon Homes.

- **Zero Maintenance and Carbon Footprint:** Sycamore Rise now benefits from zero maintenance and zero carbon emitting solar lighting, eliminating the need for mains power. This has reduced the estate's carbon footprint and will lead to long-term energy cost savings.
- **Operational Efficiency:** The AE3 solar street lights provided instant light to residents with minimal disturbance to the estate, meeting the tight deadline set by Persimmon Homes.

## AE3 Solar LED Street and Car Park Lighting

Year round, permanent solar street lighting. Simple to install and no need for external electrical power.

- No carbon emissions
- No mains power
- Low maintenance
- Quick installation and delivery service
- No on-going energy costs

## 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.

THE QUEEN'S AWARDS FOR ENTERPRISE: SUSTAINABLE DEVELOPMENT 2021

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