

marlec 

# Solar Signage Lidl

---

Case Study



Welcome to  
Luton RDC





Marlec Engineering is the UK's longest-established renewable energy company, manufacturing wind and solar solutions for off-grid power.

Since 1978, our systems have provided reliable, sustainable energy for Railways, Highways, Utilities, Telecoms, and Marine & Leisure industries. Our solar signage solutions are designed for durability, efficiency, and ease of installation.

[Visit our website](#)

# Solar Signage-Lidl

## Case Study



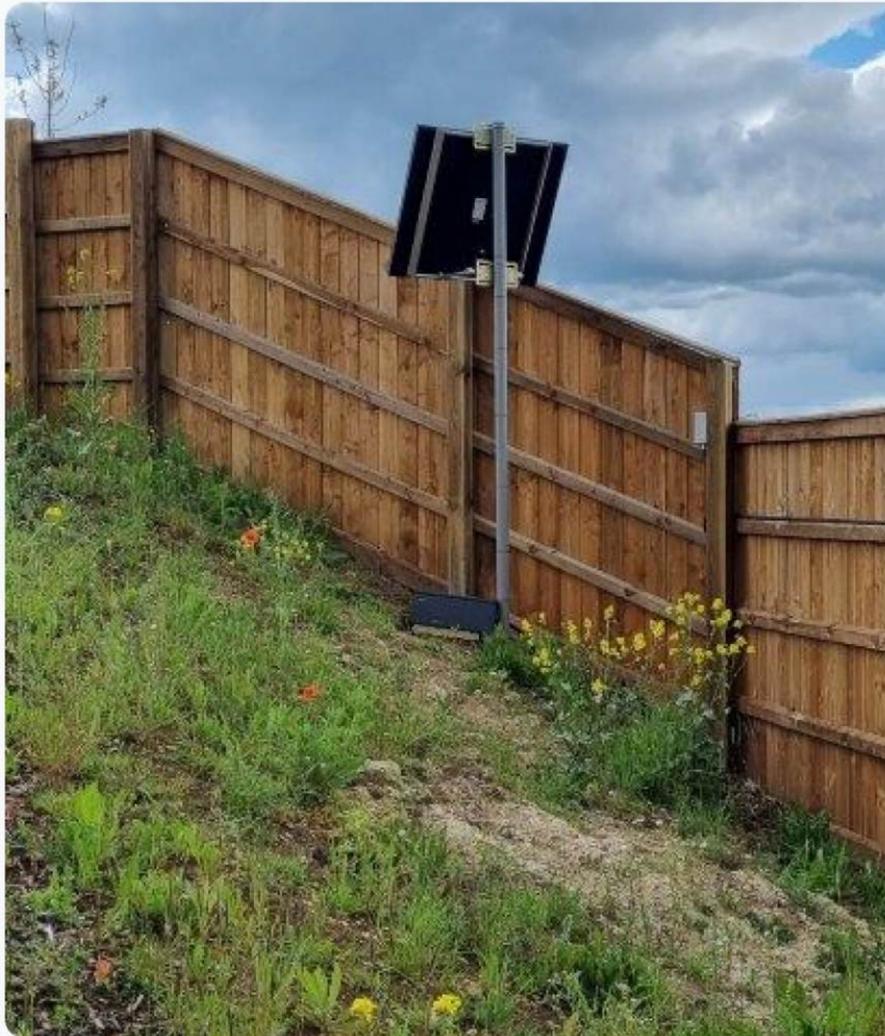
As part of its 'Lidl Changes for the Better' initiative, Lidl is committed to sustainability through projects focused on produce, people, and the planet.

The next step in Lidl's sustainability plan was to implement solar-powered signage. Ashleigh Signs, having worked on multiple Lidl projects, partnered with Marlec to develop a solution for the new Luton distribution centre—the largest in Lidl's portfolio and a key location off the M1 motorway.

### Client need

- Impactful, illuminated signage to enhance visibility.
- Fully off-grid, aligning with Lidl's sustainability goals.
- Avoid trenching through newly developed concrete infrastructure.
- Reliable year-round operation with minimal maintenance.

## Before



### Challenges Faced

- Ensuring consistent illumination despite seasonal changes.
- Designing a system with sufficient autonomy to maintain performance in low-light conditions.
- Installing the system without disrupting the newly developed site.

## Solution

Marlec provided a solar-powered signage system designed to illuminate 365 days a year, regardless of seasonal variations. **The solution included:**

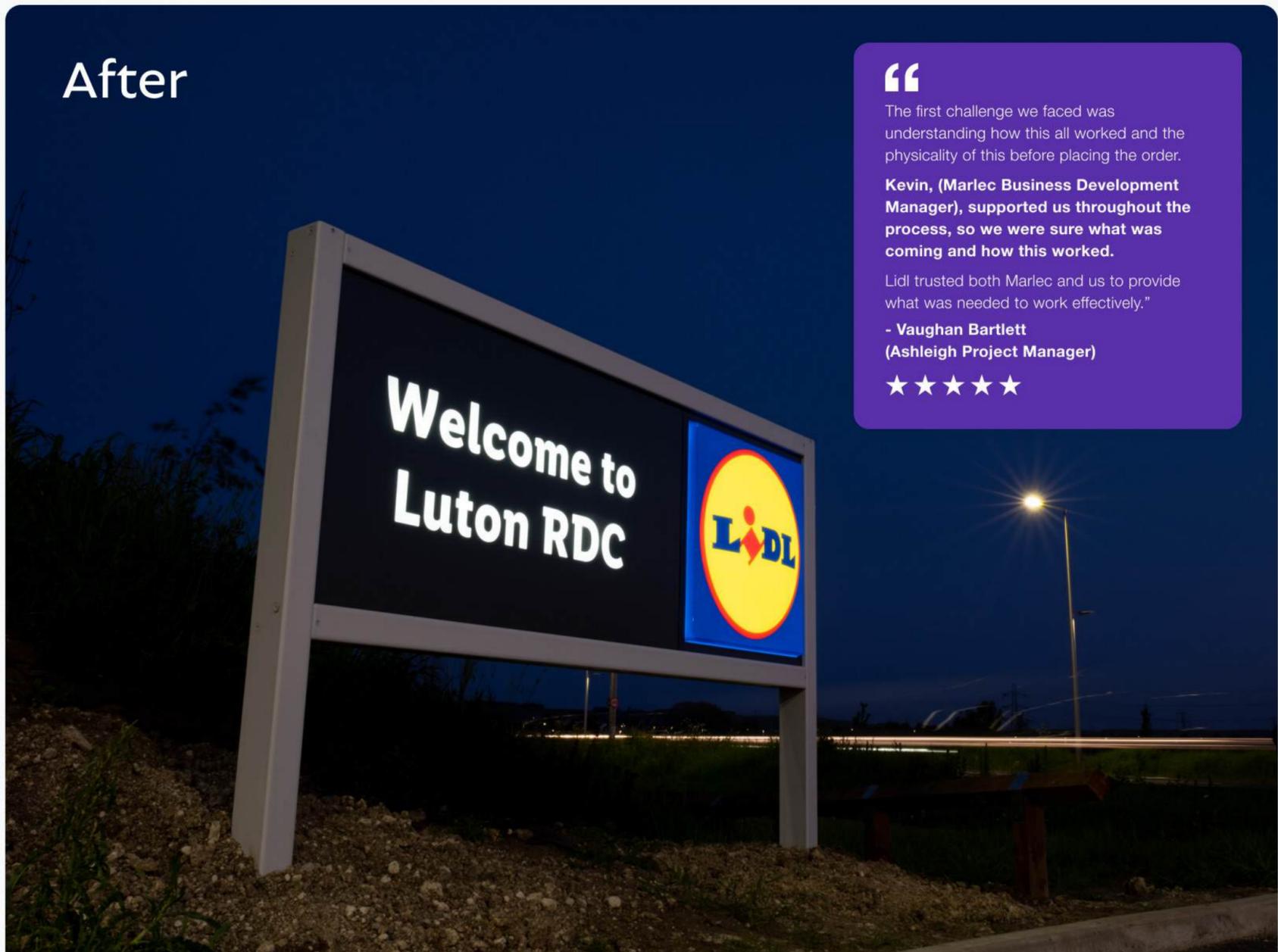
- **Spectra PERC-S 220W Solar Panels** – Positioned separately at a 65-degree angle to optimise power generation.
- **Plug-and-Play Cabling** – Simplified installation, eliminating complex wiring.
- **LC101 Intelligent Controller** – Pre-programmed to match Lidl's illumination schedule, ensuring maintenance-free operation.
- **Energy Autonomy** – A battery system capable of sustaining at least seven days of operation without solar input, guaranteeing year-round reliability.

By working closely with Ashleigh Signs, Marlec successfully delivered an off-grid signage solution that not only met Lidl's requirements but also reinforced its commitment to sustainability.

## The Results

- Fully solar-powered illuminated signage installed at Lidl's largest RDC.
- A cost-effective, off-grid solution with long-term reliability.
- A scalable system that demonstrates Lidl's sustainability leadership.

After



“

The first challenge we faced was understanding how this all worked and the physicality of this before placing the order.

**Kevin, (Marlec Business Development Manager), supported us throughout the process, so we were sure what was coming and how this worked.**

Lidl trusted both Marlec and us to provide what was needed to work effectively.”

- Vaughan Bartlett  
(Ashleigh Project Manager)

★★★★★

## Marlec Services

Marlec's Green Systems team specialises in off-grid renewable energy solutions across multiple industries, including transport, utilities, and signage.

**With thousands of systems in operation worldwide, we provide expert design, installation, and ongoing support.**



Discover how Marlec's solar signage solutions can enhance your sustainability efforts.

Get in touch today

[www.marlec.co.uk](http://www.marlec.co.uk)  
+44 (0) 1536 201588  
[Sales@marlec.co.uk](mailto:Sales@marlec.co.uk)

