



Solar Signage Meadows

Case Study





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.

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Solar Signage-Meadows

Case Study



Meadows Business Park is a modern office campus in Blackwater, Camberley, located near Station Approach. Following a major refurbishment, the park was transformed into a stylish and contemporary business environment.

However, the outdated signage did not reflect the park's new image and was often overlooked by visitors.

To address this, Meadows Business Park sought a bright, eye-catching, and cost-effective signage solution.

Client need

- Maintenance-free operation.
- Simple installation with minimal disruption.
- High-quality LED illumination throughout night-time hours.
- A sustainable, off-grid solution.

Before



Challenges Faced

- No access to the national grid to power the sign.
- Need for consistent illumination during night-time hours.
- Limited space on the sign for built-in solar PV.
- Complex site conditions, including a nearby roundabout and riverbank.

Solution

Mood Signs consulted Marlec to develop an off-grid solar-powered signage solution. Marlec identified its Solar Powered Signage Kit as the ideal choice. However, due to the design of the Meadows sign, standard panel mounting options were not viable. To overcome this, Marlec provided a custom solar mounting kit, manufactured in its UK facility, to allow the installation of two 240W Spectra PERC-S solar panels separately from the sign. **The system included:**

- **Solar Panels with PERC Shingle Technology** – Optimised for power generation, even in low-light conditions.
- **Dusk-to-Dawn Sensor** – Automatically controlled illumination to maximise energy efficiency.
- **IP66 Rated Cabinet** – Housing the LC101 controller and three 100Ah batteries for energy storage.
- **Plug-and-Play Cables** – Enabling a quick and low-impact installation with shallow cable burial in the soil.

The Results

- **Reliable, self-powered signage** – Meadows Business Park now benefits from a highly visible, illuminated sign powered entirely by solar energy.
- **Customisable lighting control** – The LC101 controller and dusk-to-dawn sensor ensure optimal illumination levels and efficiency.
- **Year-round performance** – PERC Shingle solar technology enhances performance in shaded and winter conditions, maintaining consistent operation throughout the year.
- **Sustainable and cost-effective** – A fully off-grid solution that eliminates energy costs and reduces environmental impact.



After

Solar panels

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This park is now a landmark that shines bright day and night! Meadows are delighted with this sign and the partnership with Marlec has been smooth and professional.
They are experts in their field!
Luan Birrell (Mood Signs)
★★★★★

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

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