

marlec 

Solar-Powered Signage for B&Q

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.

[Visit our website](#)

Solar-Powered for B&Q

Case Study



With a strong focus on both DIY enthusiasts and professional tradespeople, **B&Q** is recognised as a household name across the nation.

They sought to transform how large-scale signage is powered, creating a renewable solution that aligns with B&Q's long-term sustainability goals while delivering cost savings across multiple sites.

To bring a new vision of sustainability to its retail parks, **Marlec** partnered with **Greens the Signmakers Hull**, a trusted leader in the signage industry with over sixty years of expertise, to bring this project to life, offering the best solution from both companies.

B&Q Requirements

- A fully illuminated signage solution independent of mains power
- Reduction in civil engineering and installation costs
- Minimal disruption to retail operations during installation
- Reliable, all-season performance with low maintenance
- A professional, high-quality finish consistent with B&Q's brand image

The Challenge

The project presented a few challenges:

- **Customer traffic at the retail park demanded minimal installation impact**
- **Illumination needed to adapt to seasonal variations in daylight hours**
- **Continuous year-round operation without reliance on mains power**
- **The solution had to balance performance with aesthetics and durability**

The Solution

Marlec, working closely with Greens the Signmakers, delivered an innovative solar-powered signage system. The installation featured:

- **LC101 Controller** – Intelligent plug-and-play technology enabling custom lighting schedules
- **Semi-Flexible Solar Panels** – Neatly integrated on the totem's surfaces for maximum energy capture
- **AGM Batteries** – Reliable energy storage for consistent night-time operation
- **IP-65 Rated Cabling** – Weather-resistant design ensuring durability in outdoor environments
- **Pre-Configured Cabling** – Simplifying installation and reducing disruption to site operations



The Results

- Solar-powered totem sign successfully installed, operating year-round.
- Custom lighting schedules aligned with store hours for maximum visibility
- The system proved cost-effective, reliable, and easy to replicate across multiple sites
- A scalable solution is now being adopted more widely by signage manufacturers for its proven performance

Environmental Impact

By choosing a solar-powered solution, B&Q has eliminated the need for traditional civil works, substantially reducing the project's carbon footprint.

The system's off-grid design contributes to long-term sustainability by avoiding emissions linked to construction, materials, and ongoing grid consumption.



Marlec Services

Marlec's 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 renewable solutions can enhance your sustainability efforts.

Get in touch today

www.marlec.co.uk
+44 (0) 1536 201588
Sales@marlec.co.uk

