



# Solar Lighting Falkland Islands

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Case Study

Since 1978





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 Lighting Falkland Islands

## Case Study



Elink, a renewable energy specialist based on the Falkland Islands, partnered with Marlec to deliver off-grid solar lighting at the public jetty in Stanley. Commissioned as part of a government-led tender, the project aimed to enhance public safety and visibility in a key arrival point frequently used by cruise ship visitors.

While the location is within reach of the national grid, the decision to specify a stand alone solar lighting system reflected a broader ambition to showcase renewable technology in a high profile, public setting.

### Client need

- A self-contained solar lighting solution
- Robust performance in a harsh maritime environment
- Equipment suited for remote installation and long-term reliability
- A proven product from an experienced supplier

## The Challenge

The remote island setting and exposure to coastal weather demanded reliable equipment built to withstand salt laden air, strong winds, and extended daylight hours in summer, followed by long winter nights.



### Challenges Faced

- Adjustments to cable routing due to limited space at the mounting site
- Fitting marine-grade battery enclosures in a way that protects them from exposure while remaining accessible for maintenance

## Solution

Marlec supplied Green Column solar lighting systems engineered specifically for harsh coastal conditions. The systems featured:

- **High-efficiency solar panels and intelligent charge regulation**
- **Durable marine grade enclosure**
- **Energy-efficient LED lighting suitable for continuous off-grid operation**

Designed for ease of deployment, the Green Columns provided a reliable, self-contained solution that required no connection to the grid.

## The Results

The installed solar lighting system now operates independently, delivering consistent illumination at the public jetty throughout the year.

### Key outcomes include:

- Improved safety and visibility for both residents and visiting passengers
- A visible example of practical off-grid technology in a civic environment
- Minimal operational burden with low ongoing maintenance needs

This installation plays a symbolic role as well as a functional one, encouraging public engagement with renewable energy in a region where most power generation remains centralised.

## Future Outlook

Although the Falkland Islands' national grid infrastructure is currently limited to the capital and military base, off-grid technologies are increasingly relevant for the broader population living outside of these zones. Projects such as this demonstrate the value of compact, independent systems in remote areas.

With growing interest in hybrid wind and solar installations, and new infrastructure plans in development, the use of stand alone solar lighting at the jetty provides a strong foundation for further applications of renewable energy across the islands.





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

Get in touch today

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