

The Marlec Green Column



The Renewable Powered Off-Grid Lighting Range for Remote Illumination

Our Marlec Green Columns serve lighting to remote and rural locations. Powered by 100% renewable energy, there is no need for reliance on the national grid. Perhaps you're seeking improved safety, the ability to work throughout the night, or environmentally friendly energy alternatives. We adapt our Green Columns to suit your requirements.

With 40+ years of experience in renewable power, we curate bespoke solutions to your lighting needs. You may opt for a wind or solar-based application, maybe a hybrid power system. Trust us to design and provide lighting that works, regardless of environmental restrictions.

How Do Green Columns Work?

All energy harvested by either wind or solar is directed and stored in the internal batteries. The system is flexible and can facilitate high-output LED or flood lights. Converted electricity is then completely free and forever sustainable.

Benefits

- Powered from 100% renewable energy
- Minimal environmental disruption
- No need to dig trenches for cable ducting or conduit
- A system that is independent from the grid
- No on-going energy or standing charges
- Quick & easy installation



Typical Applications:

- Rural footpaths
- Airfields
- Car parks
- Play areas
- Bus shelters
- Remote homes
- Harbour side areas
- Developing countries



Marlec Engineering Co Ltd

Rutland House, Trevithick Road, Corby, Northamptonshire, NN17 5XY

www.marlec.co.uk

+44 (0) 1536 201588

Sales@marlec.co.uk



Here's an Example -

1 Rutland Windcharger

The world renowned quiet, compact and efficient micro wind turbine is less than 1m in diameter. Charging starts at just 2.5m/s (5mph) so a gentle breeze is all that is required to deliver power.

2 Solar Panels

The photovoltaic panel complements the Rutland Windcharger to generate power in all seasons.

3 Energy Efficient LED Technology

The Green Column utilises the latest high output custom LED modules manufactured in the UK. The optics are designed to minimise upward light pollution thereby maximising the performance and light towards the ground. The lamp is activated by the controller's light level and timer settings. Technicalities are adjustable by the user.

4 PIR Sensors

Passive Infra Red activated lanterns are available to reduce power consumption and allow for dimming.

5 Columns

The type of column required is location dependent. Standard 8m raised columns can be raised and lowered for ease during inspection and installation. Alternatively, those who live in areas of harsh winds may require a heavy-duty column.

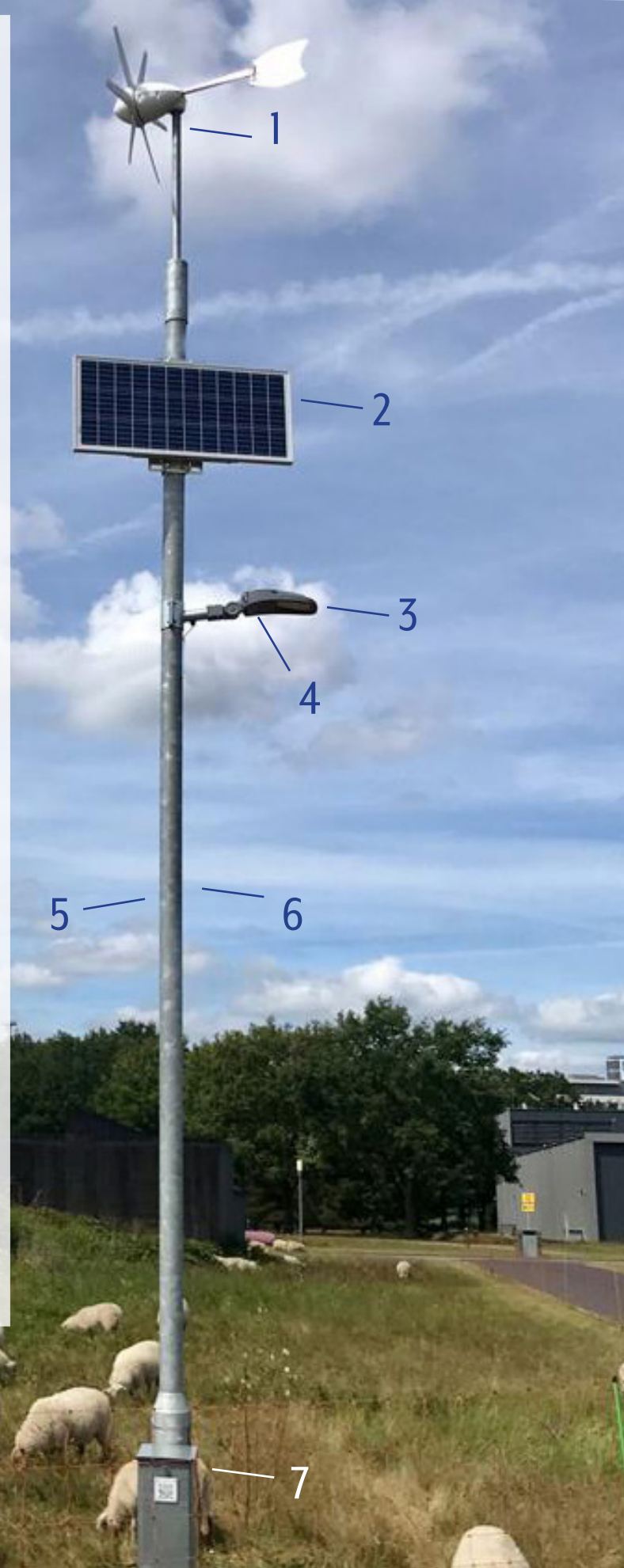
6 Anti-climb spike bracket

Available to order to deter vandalism.

7 Batteries

A high-quality sealed gel battery is used to deliver power over a long life. The maintenance free battery provides energy storage for over periods of low wind and solar power generation.

The reserve is typically 4/5 days in winter and up to 10 days in summer.



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