



Professional Off-Grid | Solutions

The UK's Longest Standing Renewable Energy Company

Since 1978

First wind turbines models
being tested on a Ford
Cortina, The UK, 1979.



1978

Marlec is founded in Rutland,
UK, by John Fawkes.



1985

Solar PV products are
added to the portfolio.



1989

Receives the Queen's Award
for Outstanding Export.



2000

Designs the first renewable-
powered bus shelter in Scotland.



2013

Launches Solar iBoost, now a
best-selling energy device.



2022

Introduces Solar Signage Kit
for reliable off-grid lighting.



2023

Launches VEVA, a smart
7.4kW domestic EV charger.



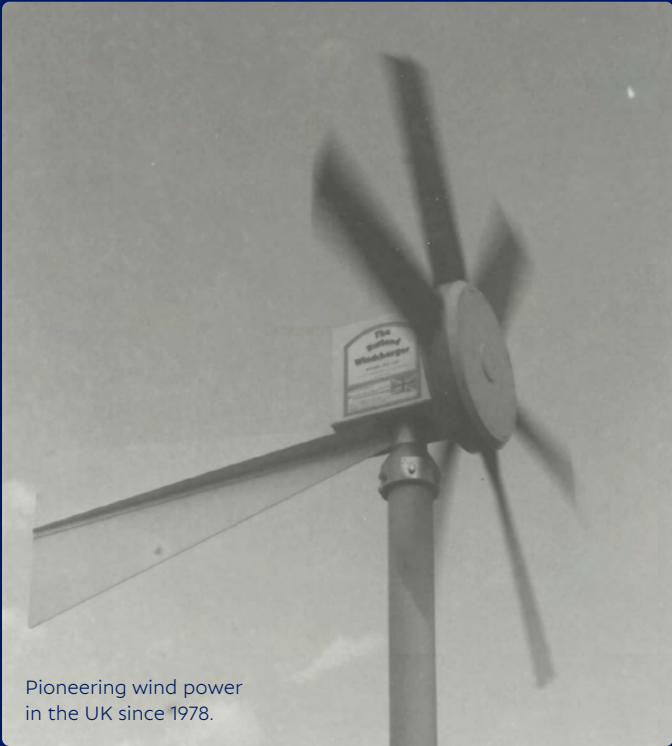
2025

Launches the Vert X360, and
the Rutland 505 Windcharger



Since 1978, Marlec has been driven by a passion for renewable energy. Now, with those years of experience, we are the UK's longest-standing renewable energy business, renowned for manufacturing the acclaimed Rutland Windcharger range in our UK facility.

Our wind and solar energy systems play a vital role in supporting the rail, highway, utility, and telecommunications sectors, delivering reliable power to essential equipment in off-grid locations.



Pioneering wind power
in the UK since 1978.

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Design & Manufacture

46+ years of experience in manufacturing renewable energy systems. An in-house R&D team and precision machine shop must maintain the highest quality control standards. Dedicated sales & after-sales team to support customers throughout the design and installation process



Do you need reliable power for remote off-grid locations?

Having established a reliable history, Marlec's systems are renowned for their impressive durability in challenging weather conditions. Our solutions effectively power vital equipment, including geographical data recording and water level monitoring systems.

Our systems power essential functions such as track lubrication, Internet of Things (IoT) systems, pedestrian crossings, temporary traffic lights and signage on highways.



Environmental Monitoring and Transport

Marlec specialise in delivering reliable wind, solar, and hybrid power solutions for critical infrastructure within the transport and environmental sectors.



ANPR System

In collaboration with QRO Solutions, we successfully deployed off-grid ANPR cameras to combat rural crime and theft on UK roads. The cameras are powered by both wind and solar to guarantee continuous operation throughout the year, and these systems have increased safety at locations where surveillance wasn't previously achievable owing to a lack of grid infrastructure.



Remote CCTV Systems

To meet the ever-increasing need for security at remote sites, we have developed a reliable power solution designed for CCTV systems utilising renewable energy sources.



ENHANCE SAFETY

Off-Grid Lighting

Introducing Marlec's Green Columns, reliable lighting systems with a proven track record in wind, solar, and hybrid power options.

They are the ideal lighting solution for village locations, car parks, construction sites, rural pathways, railways, and bus shelters where grid connection is disruptive and costly.



Sellafeld Power Plant, Sellafeld, UK



NEC, Birmingham, UK

Solar Bus Shelter

In maintaining Dark Skies compliance, the Isle of Man faced the challenge of ensuring pedestrian safety within its transport network. Our solar-powered bus shelter kit provided a renewable-powered solution that can be retrofitted into existing bus shelters.

The Marlec LC101 controller allows for programmable lighting levels, and coupled with the built-in PIR sensor, the LED activates only upon motion detection, minimising light pollution in the area.



The Prisma

Marlec introduces PRISMA, the ultimate off-grid sign lighting solution engineered to keep traffic signs illuminated reliably all year round. Designed for seamless integration, PRISMA features 3 high-performance solar panels, a durable aluminium structure, and an easy-to-install plug-

and-play system that is guaranteed to reliably operate 365 days a year for supported lights. With a pre-assembled control system and minimal setup needed, PRISMA makes installation effortless, ensuring visibility of road signs in low-light conditions without the need for grid power.



Seismic Monitoring

Following the volcanic eruption in 2010, which halted Western European air travel, seismic monitoring systems were installed in Iceland.

By monitoring seismic activity around the volcano site, our client hopes to predict future eruptions and protect the local community. Our hybrid system powers the equipment 365 days a year.



Rapid Deployment CCTV

Rapid deployable CCTV systems are increasingly popular in remote rural areas where there is limited grid connections. Our partner utilised these systems to deter fly-tipping and enhance overall security in the area.

By harnessing both wind and solar power, these systems ensure reliable performance throughout the year, making them a valuable solution for maintaining security and surveillance capabilities even in challenging winter conditions.



Military CCTV

In partnership with Komcept, we developed a portable, trailer-mounted CCTV system.

These were installed at military camps in Africa to actively monitor remote land borders to improve civilian safety against terrorism threats.

The battery-powered cameras and sensors were charged using our high-efficiency, glass-framed Spectra PERC-S solar panels.



Road Sign Solutions

In partnership with the French company ElanCité, Marlec provides a range of solar panels that power their off-grid traffic systems, offering reliable, year-round power for road side equipment, ideal for locations without grid access. Designed for ease of installation and long-term performance, Marlec supplies highly efficient solar panels with durable construction and plug-and-play functionality. Enhancing road safety without the need for costly electrical infrastructure. To find out more, visit <https://www.elancite.fr/>



Ready to power your project with confidence?
Contact our team today for expert support
and tailored off-grid solutions.



Find Out More



Talk to our team

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