



WeAreSG.com

Powering Sites Off-Grid.

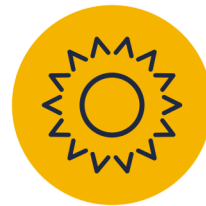
Off-grid site power and communications. No power - no problem.

One team behind every unit.

The SG ECO-GEN range offers off-grid power for a host of site applications such as CCTV, IoT and site technology. No mains connection required.

One team builds and supplies every unit, so you deal with one expert, from choosing the right unit to getting it on site.

Meet the **range.** Your site, your power, your way.



ECO-GEN SOLAR

Solar and battery only. Lightest and simplest in the range, nothing to refuel.



ECO-GEN HYDROGEN

Solar and battery with hydrogen fuel cell back-up. Zero carbon emissions.



ECO-GEN HVO

Solar and battery with HVO (biofuel) generator back-up. 90% carbon reduction over traditional fuels.

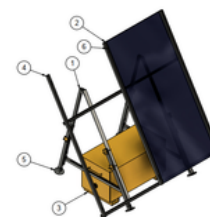
ECO-GEN SOLAR.

Solar power and battery storage. Nothing to refuel.

The lightest, simplest unit in the range. A solar array charges the battery bank, keeping CCTV and highways safety technology running day and night.

Key benefits

- > On site fast, with no wait for a grid connection.
- > Nothing to refuel, so no fuel costs or refuelling visits.
- > Secure against unauthorised access.
- > Built for remote, temporary or semi-permanent sites.
- > Live data for 24-hour CCTV and highway safety.



Technical specification

Available for hire & sale

Weight & dimensions

Weight	380kg
Length	1664mm
Width	2475mm*
Height	2431mm

*Weight excludes solar panels and any additional fitted hardware.

Battery to suit your site

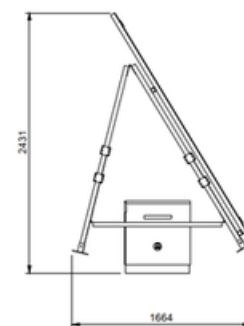
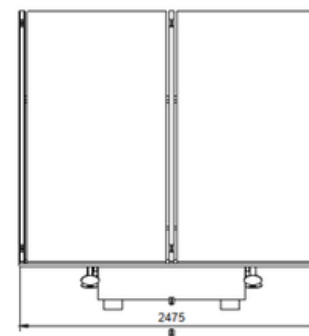
Sodium (latest technology), lithium (longer life), or AGM lead-acid (lower cost).

Remote monitoring

Track performance and control the unit remotely via VRM.

Cabinet and structure

- > Galvanised steel solar frame and legs.
- > Adjustable feet for level set-up on uneven ground.
- > Lockable, IP-rated, ventilated cabinet in RAL1023 traffic yellow.
- > Anti-tamper devices and live link.



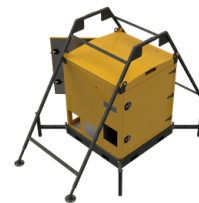
ECO-GEN HYDROGEN.

Solar power with zero-carbon hydrogen back-up.

Solar charges the battery, and the hydrogen fuel cell tops it up when demand rises. It's a clean, efficient alternative to small diesel or petrol generators.

Key benefits

- > Zero carbon power whenever it's needed, whatever the weather.
- > On site fast, with no wait for a grid connection.
- > Secure, with email alerts for unauthorised access.
- > Live 4G/5G data for 24-hour CCTV and highway safety.
- > Built for remote, temporary or semi-permanent sites.



Technical specification

Available for hire & sale

Weight & dimensions

Weight	820kg
Length	2996mm
Width	2475mm
Height	2500mm

Weight excludes solar panels and any additional fitted hardware.

Battery to suit your site

Sodium (latest technology), lithium (longer life), or AGM lead-acid (lower cost).

Hydrogen fuel cell

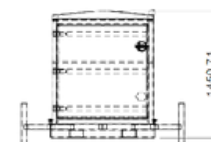
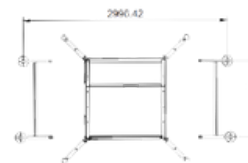
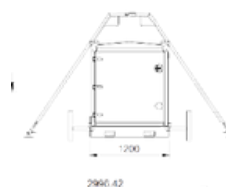
Clean back-up power that delivers peak output when solar alone isn't enough.

Remote monitoring

Track performance and gas levels remotely via VRM. Low-pressure alerts mean refuels are planned, not rushed.

Cabinet and structure

- > Galvanised steel solar frame and legs.
- > Adjustable feet for level set-up on uneven ground.
- > Lockable, IP-rated, ventilated cabinet in RAL1023 traffic yellow.
- > Anti-tamper devices and live link.



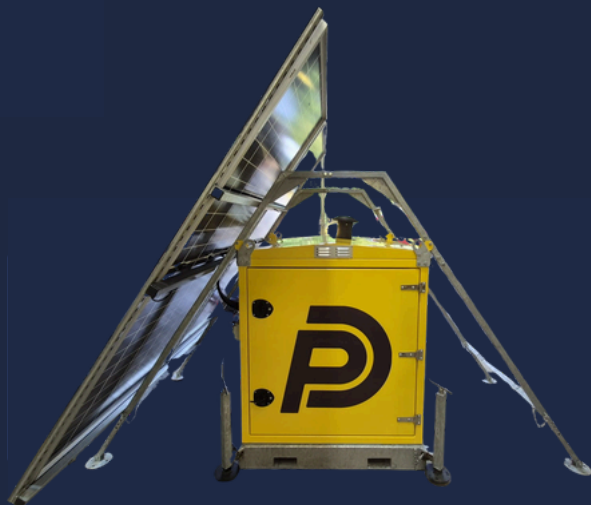
ECO-GEN HVO.

Solar power with HVO back-up. Up to 24 months with one planned visit.

Solar power charges the latest technology, sodium battery, with a compact HVO biofuel generator topping up when demand peaks. Built for long-term IoT and CCTV deployments, the ECO-GEN HVO almost eliminates site visits and refuelling costs.

Key benefits

- > Up to 24 months' run time with just one planned maintenance visit.
- > 90% lower emissions, using recycled HVO fuel.
- > Low-wattage power for long-term IoT, customisable to your needs.
- > On site fast, with no wait for a grid connection.
- > Secure, with email alerts for unauthorised access.
- > Live 4G/5G data for 24-hour CCTV and highway safety.
- > Built for remote, temporary or semi-permanent sites.



Technical specification

Available for hire & sale

Weight & dimensions

Weight	approx. 1050kg
Length	2996mm
Width	2475mm
Height	2500mm

Weight is approx. without fuel.

HVO generator

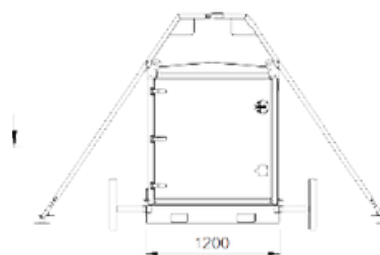
Clean back-up power, linked to a sodium battery, that delivers peak output when solar alone isn't enough.

Remote monitoring

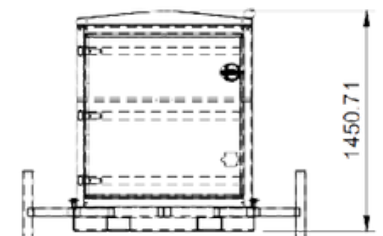
Track solar yield, battery charge, fuel level and generator output remotely via VRM, so maintenance visits are planned, not rushed.

Cabinet and structure

- > Galvanised steel solar frame and legs.
- > Adjustable feet for level set-up on uneven ground.
- > Lockable, IP-rated, ventilated cabinet in RAL1023 traffic yellow.
- > Anti-tamper devices and live link.



2996 42



1450.71

Which unit fits the job?



PV, Hydrogen or HVO?

	ECO-GEN SOLAR	ECO-GEN HYDROGEN	ECO-GEN HVO
Back-up power	None: solar and battery only	Hydrogen fuel cell	HVO generator
Back-up emissions	No back-up generator	Zero carbon emissions	Up to 90% lower, using recycled HVO fuel
Battery	Integrated battery system	Choice of lithium or AGM lead-acid	Sodium battery
Data transfer	Point-to-point 4G/5G/Starlink	Powers real-time data transfer	Point-to-point 4G/5G/Starlink
Security	Protected, with email alerts, intruder alerts	Protected from unauthorised access	Protected, with email alerts, intruder alerts
Remote monitoring	VRM performance monitoring	VRM, plus fuel cell output and gas use, with low-pressure alert	VRM, plus solar yield, battery charge, fuel level and generator output
Planned maintenance	Service plans available on request	Service plans available on request	**24-month run time with one planned visit
Designed to power	24-hour CCTV and highway safety applications	24-hour CCTV and highway safety applications	Low-wattage IoT devices, customisable, plus 24-hour CCTV and highway safety
Weight	380kg	820kg	approx. 1050kg
L × W × H	1664 × 2475 × 2431mm	2996 × 2475 × 2500mm	2996 × 2475 × 2500mm
Availability	Hire & sale	Hire & sale	Hire & sale

ECO-GEN SOLAR and ECO-GEN HYDROGEN weights exclude solar panels and any additional fitted hardware. ECO-GEN HVO weight is approximate.

** Dependent on end device load output requirements.

Proven on the A417.

Kier | A417 Air Balloon

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**ECO-GEN SOLAR powering
a fully wire-free, solar-
powered 5G CCTV system**

A custom-designed CCTV system for
a National Highways scheme,
delivered.

Fully wire-free and running on solar
power.

**INSTANT DEPLOYMENT |
CABLE FREE | ZERO EMISSIONS**



Across the **whole range.**



Real-time monitoring

Every unit uses VRM monitoring, so performance can be checked and managed remotely.



Hire or buy

All three units are available for hire and for sale, so the commercial model can match the length of the job.



Designed and built in-house

The ECO range is designed and built by P&D Specialist Services, part of SG.



Civils included

In-house civil and electrical capability, so nothing waits on a subcontractor's diary.



EXPERTS IN OFF-GRID TECHNOLOGY

BARTCO

MVIS

Specialist
Services



Next stop: power on **your site.**

Tell us what needs powering and for how long, and we'll match it to the right unit, whether that's for hire or buy.

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