Solar Pod

Sustainable Power Supply

Solar charge & diesel fuel consumption report.

Site location

Basildon UK

1 Year

December to December

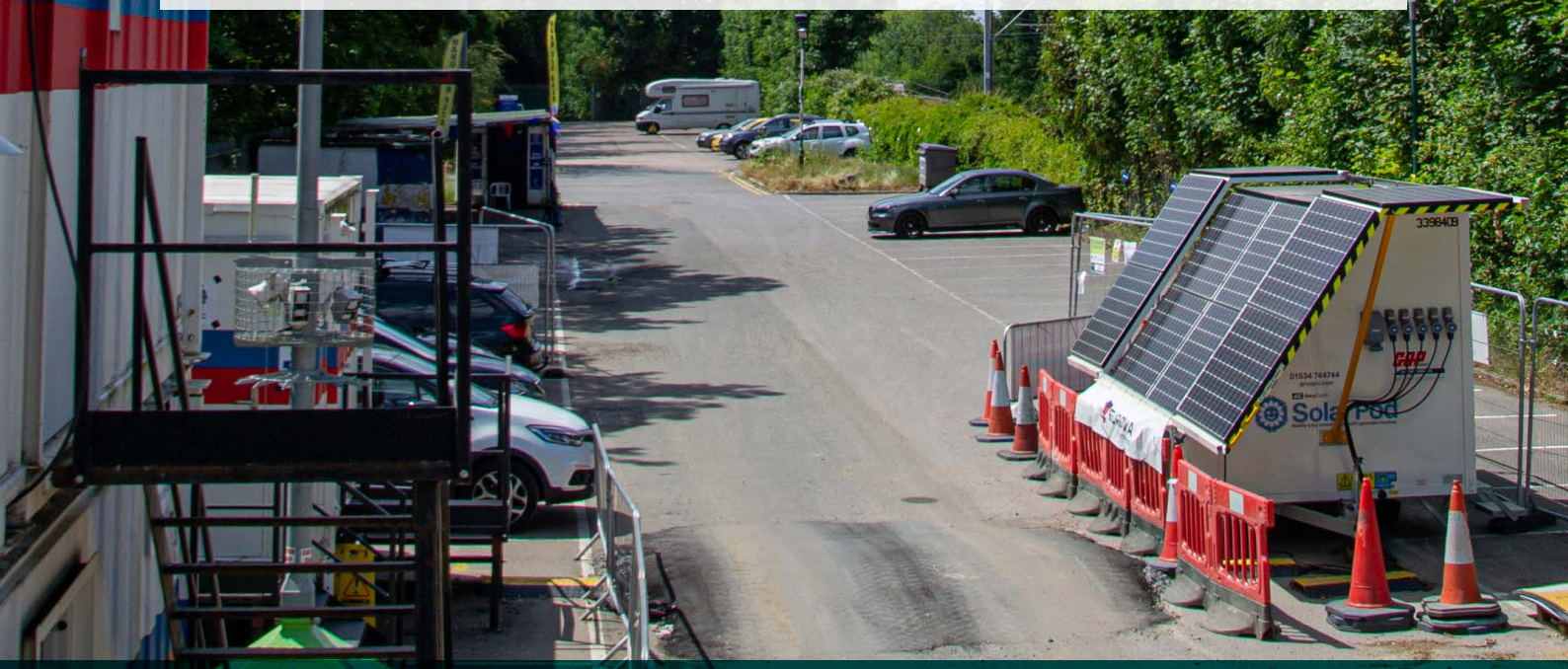
12h per day, 7 days a week

Hire Supplier

GAP GROUP WELFARE SERVICES

End User

EUROVIA UK



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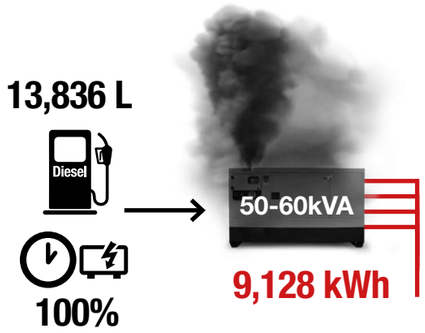
Generator VS Solar Pod

Recorded data from remote telemetry

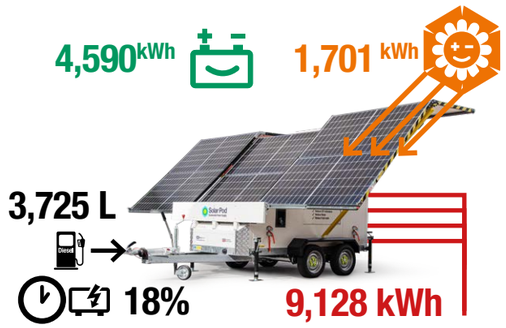
Standard construction site stand-alone generators

Ordinarily, the temporary accommodation on this site would be powered by a 50-60kva Diesel Generator.



Total diesel cost
£20,754

The Solar Pod has been on site for 1 Year, and the standby generator has only ran for 1,202 hours across the year. An average of 23 hours per week. Reading the telemetry data, we are able to show that frequently, the site is powered silently and emission free either by direct solar or energy stored in the batteries.



Total diesel cost
£5,587

	50-60kVA Diesel Generator	Solar Pod 30 Mobile
TOTAL SOLAR GAIN	0	1,701 kWh
POWER FROM BATTERIES	0	4,590 kWh
TOTAL CONSUMPTION	9,128 kWh	9,128 kWh
FUEL USED	Fuel Projected **13,836 Litres**	Fuel actual **3,725 Litres**
GEN HOURS	**4,488 hours**	**1,202 hours**
TOTAL FUEL COST	@ £1.50p per ltr = **£20,754**	@ £1.50p per ltr = **£5,587**
TOTAL LOCAL CO^2 PRODUCED	**38,163 kg**	**10,273 kg**

Solar Gain
1,701 kW
Summer & winter long term use. ALL WEATHERS

Silent running hours
3,677 (82%)
Power from Solar / Batteries only

Diesel Saving
10,111 L
£15,166

Carbon saving*
28 Tonnes

Equivalent to planting
1,394 Trees
to absorb this amount of CO2 over a year.

NOTE: Carbon emission statistics are from Department for Business, Energy & Industrial Strategy. Greenhouse gas reporting: conversion factors 2019.
https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019.
Diesel Fuel = £1.50p per litre

About the site

The Solar Pod powers:

4x Static Offices
1x Toilet Block
CCTV system running 24/7
2x Water distribution units

End user review:

"The solar pod has been a welcome addition to the site set up here at Eurovia. I was looking into ways we could reduce the carbon emissions while still providing the power we needed to the compound and electric plant throughout the town centre redevelopment. After initial engagement with GAP and AJC, I agreed to trial the pod for the remainder of the scheme, whilst gathering comparative data for the Winter/Summer months.

The solar pod has outperformed expectations, winning the 'best performer' award in March. The analysis shows a carbon reduction of over 18tonnes and an outstanding cost saving on fuel.

I have been able to set the power output to the desired times of the day, removing any power wastage and improving efficiency. Overall the solar pod has been nothing but a positive move forward for our static site set up, and we are looking at taking this forward onto future schemes and seeing how this piece of equipment can be developed further to suit schemes that are space restrictive.

Site Agent - Eurovia

Solar Smart Site

Connect Battery Pods with Solar Smart Panels & Solar Pods to save more energy. Power large and small sites. Scale up or down with your project needs.

Solar Pod + Battery Pod + Solar Smart + OR Mains Grid or any auto-start generator

All together / Any combination / Multiples of each

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DESIGNED & BUILT IN THE UK

AJC Trailers, Head Office & Factory, Unit 10, Cosgrove Way, Luton, Beds, LU1 1XL

FOOTNOTES

I. Annual solar input based on usage hours per day, 130 days in winter mode and 130 days in summer mode. Each day is a typical usage day. £1.50p per litre diesel.

II. CO2 per Litre of fuel / DEFRA 2022 figures. Red Diesel = 2.758

III. Solar panels achieve maximum output in direct sunlight, but they work in normal daylight and cloudy weather too. The amount of power a 48v solar panel or charging kit generates in cloudy weather will be lower compared to direct sunlight. Also the positioning of the cabin will affect the solar charging of the batteries i.e. under trees, etc. Solar assessment is based at Luton, Bedfordshire, UK.

IV. This assessment is guidance ONLY. As part of our on-going commitment to improvement we reserve the right to alter specifications,designs or figures, without prior notice. All dimensions and weights are approximate.

Carbon emission statistics are from Department for Business, Energy & Industrial Strategy. Greenhouse gas reporting: conversion factors 2022. https://www.gov.uk/government/organisations/department-for-business-energy-and-industrial-strategy

Solar Pod
Sustainable Power Supply

Solar charge & diesel fuel consumption report.

Site location
Osea Island UK

DATA READING FROM
29th July to 26th August 2019

TOTAL DEPLOYMENT
36 weeks

SITE USAGE
24 hours per day / 7 days a week

SITE
Film set on location
9x Solar Pods powering 30x Snooze Pods

CUSTOMER / END USER
The Third Day Ltd

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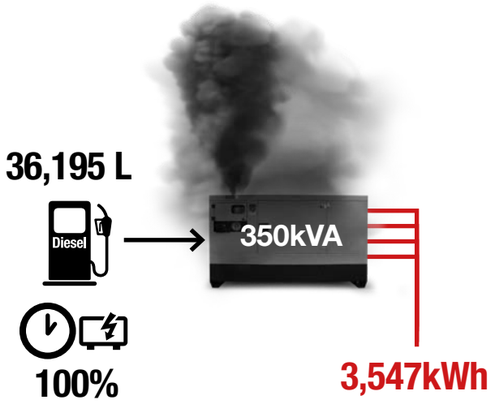
Generator VS Solar Pod x9

Projected use over 36 weeks

Recorded data over 36 weeks

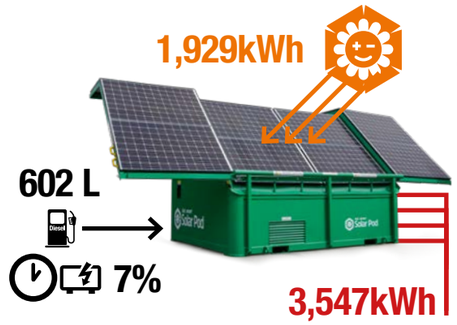
Standard site generator

Ordinarily, the temporary accommodation on this site would be powered by a 350kva Diesel Generator, and would run for 168 hours a week.



Total diesel cost
£54,288

The 9 Solar Pods provide power to 30 Snooze Pods (60 bed modular hotel with full hotel room facilities) which would normally be connected to an 350kVA sized generator. Each Snooze Pod is being used 24/7 which the profile below shows. The solar gain and battery usage was so high, the generator has only activated 7% of its time, this is a huge diesel, noise and CO2 emission saving, as below shows.



Total diesel cost
£903

	350kVA Diesel Generator	9x Solar Pod 30
TOTAL CONSUMPTION	3,547kWh	3,547kWh
TOTAL SOLAR GAIN	0	1,929kWh
FUEL USED	Fuel Projected **36,195 Litres**	Fuel actual **602 Litres**
FUEL COST	@ £1.50p per ltr = **£54,288**	@ £1.50p per ltr = **£903**
GEN HOURS	**100% running time @ 75% load**	**376 Total / 7% running time** out of possible 5,184 hours
TOTAL LOCAL CO^2 PRODUCED	99,825kg	1,660kg

Solar Gain
1,929kW

Silent running hours
93%
Power from Solar / Batteries only

LOW CO^2
Carbon saving*
98 Tonnes

Equivalent to planting
4,991 Trees
to absorb this amount of CO2 over a year.

NOTE: Carbon emission statistics are from Department for Business, Energy & Industrial Strategy. Greenhouse gas reporting: conversion factors 2019.
https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019.
Diesel Fuel = £1.50p per litre

Data (4 weeks)

Solar Pod
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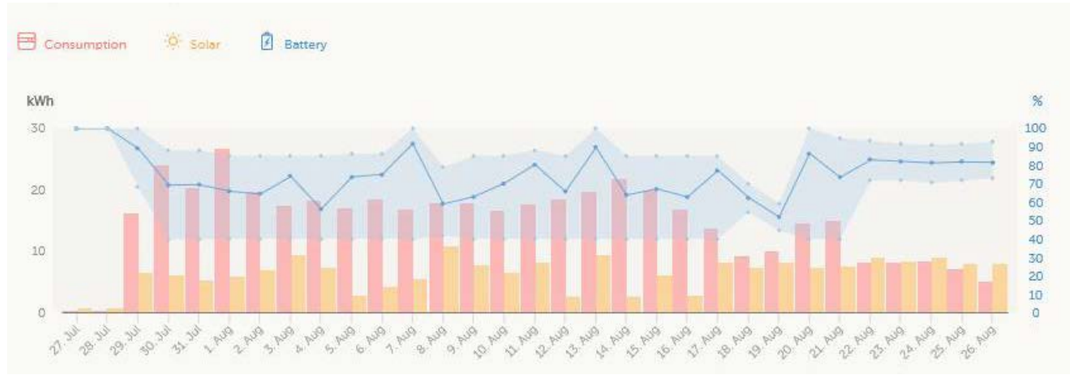
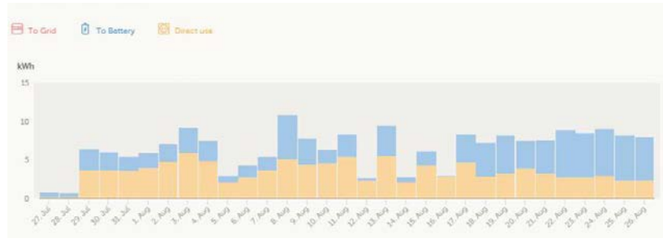
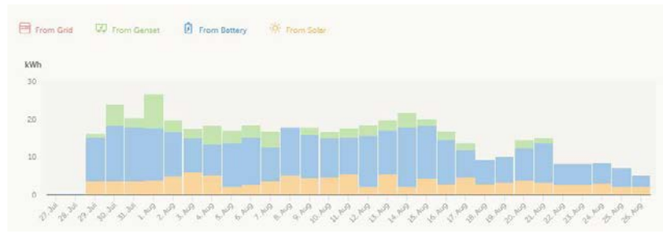
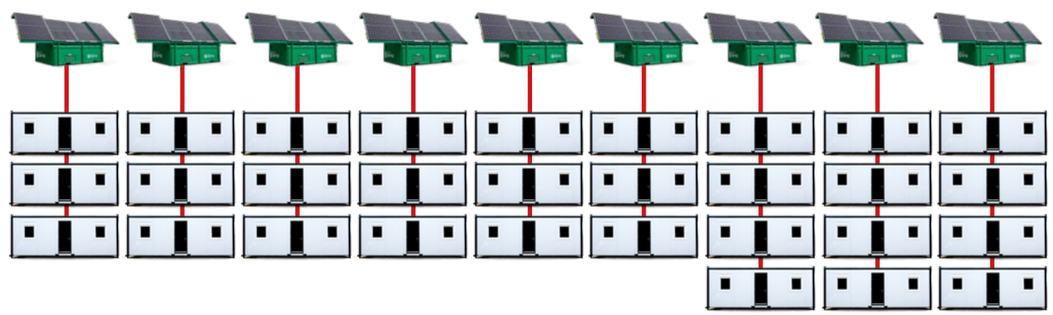






About the site

9x Solar Pods powering 30x Snooze Pods:
60 bed modular hotel with full self-catering & en-suite facilities.
2 Bedrooms, 1 kitchen, 1 shower & toilet per pod.



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