

Solar Pod

Sustainable Power Supply

Solar charge & diesel fuel consumption report.

Site location

Basildon UK

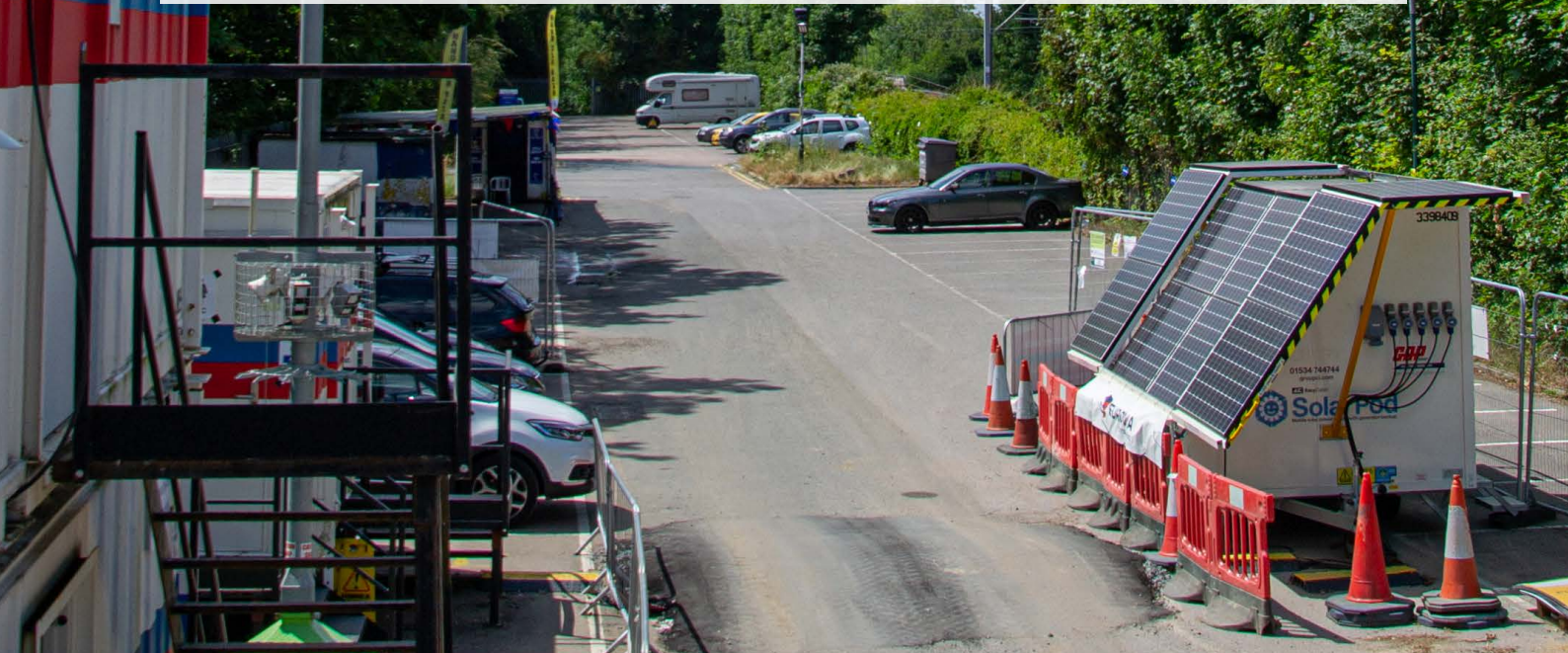
1 Year

December to December
12h per day, 7 days a week

Hire
Supplier



End
User

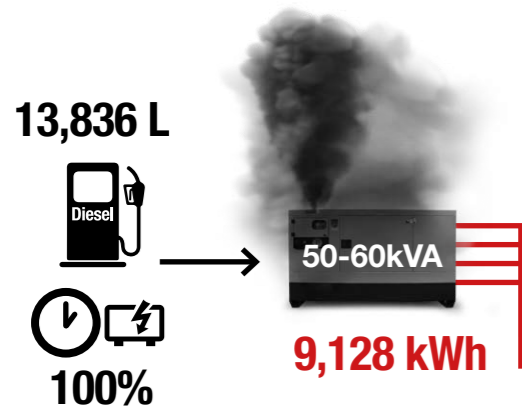


Generator VS Solar Pod

Recorded data from remote telemetry

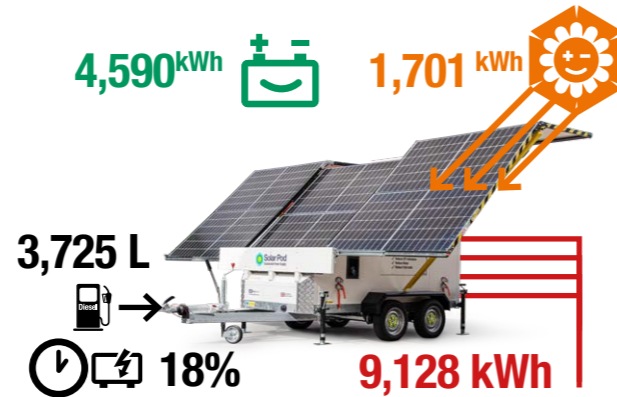
Standard construction site stand-alone generators

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

LOW CO₂
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.

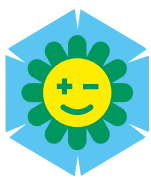
I have been able to set the power output to the desired times of the day, removing any power wastage and improving efficiency. Overall the solar pod has been nothing but a positive move forward for our static site set up, and we are looking at taking this forward onto future schemes and seeing how this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



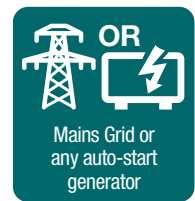
Solar Pod



Battery Pod



Solar Smart



All together / Any combination / Multiples of each



We have dedicated support teams to help you with every part of your journey with us.

We are more than just a manufacturer. Your success is the key to our success.

- Sales Support
- Marketing Support
- Delivery / Handover
- Product Training

- Service Support
- Technical Support
- Parts / Upgrades



Power Solutions



www.ajcpowersolutions.co.uk

01582 486663

info@ajcpowersolutions.co.uk

DESIGNED & BUILT IN THE UK

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

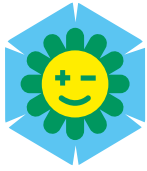
FOOTNOTES

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.



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

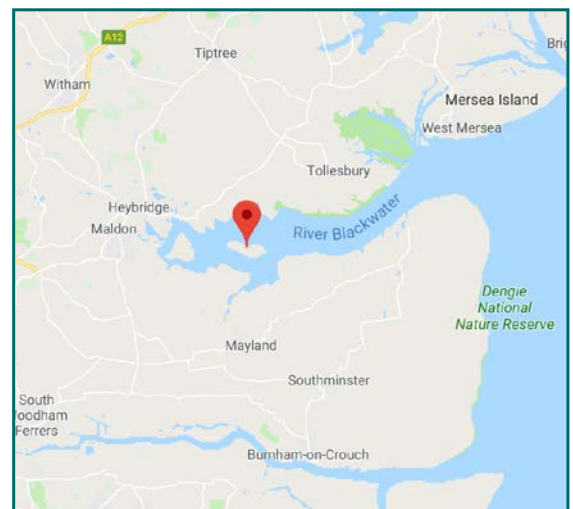
SITE

Film set on location

9x Solar Pods powering 30x Snooze Pods

CUSTOMER / END USER

The Third Day Ltd

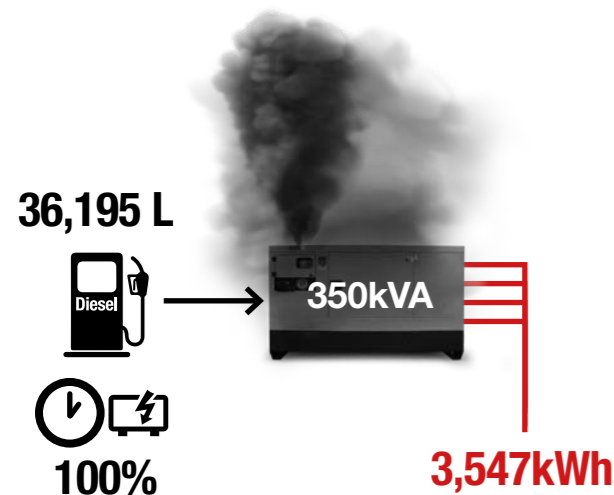


Generator

Projected use 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.



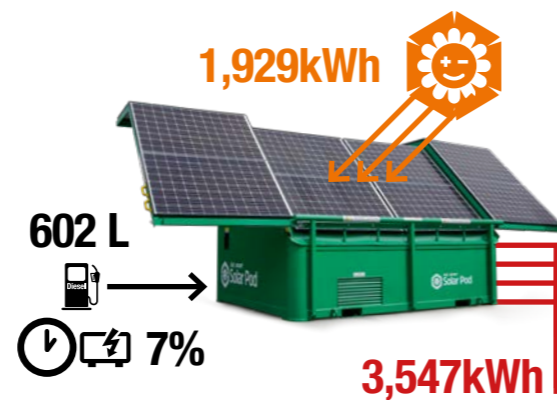
Total diesel cost
£54,288

VS

Solar Pod x9


Recorded data over 36 weeks


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

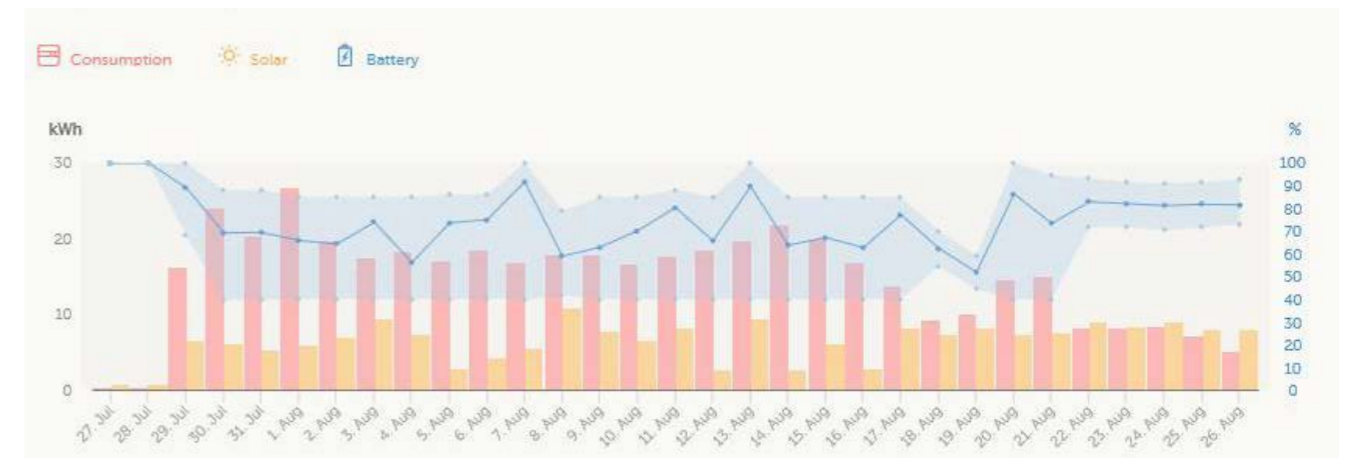

Solar Gain
1,929kW


Silent running hours
93%
Power from Solar / Batteries only

LOW CO²
Carbon saving*
98 Tonnes

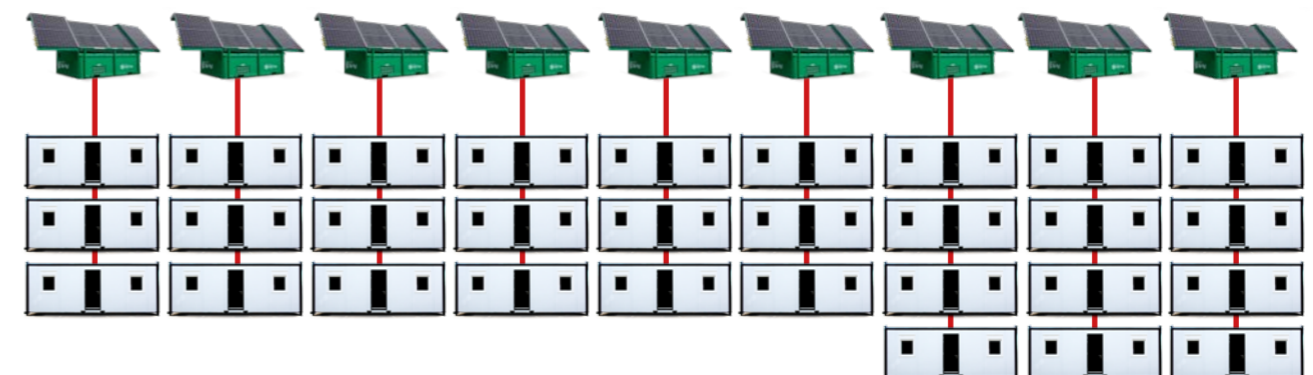

Equivalent to planting
4,991 Trees
to absorb this amount of CO₂ over a year.

Data (4 weeks)



About the site

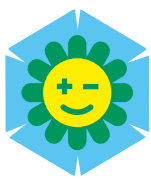
9x Solar Pods powering 30x Snooze Pods:
60 bed modular hotel with full self-catering & en-suite facilities.
2 Bedrooms, 1 kitchen, 1 shower & toilet per pod.



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

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.



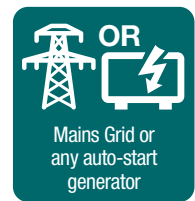
Solar Pod



Battery Pod



Solar Smart



All together / Any combination / Multiples of each



We have dedicated support teams to help you with every part of your journey with us.

We are more than just a manufacturer. Your success is the key to our success.

- Sales Support
- Marketing Support
- Delivery / Handover
- Product Training

- Service Support
- Technical Support
- Parts / Upgrades



Power Solutions



www.ajcpowersolutions.co.uk

01582 486663

info@ajcpowersolutions.co.uk

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.