Lowering costs and ensuring business continuity with a hybrid power solution

Our client, a tv and film production company, needed to ensure a Covid-secure environment for 60 cast and crew members during a three-week shoot in a rural setting.

In addition to requiring power in the areas where cast and crew would sleep and eat, the client wanted to reduce noise in the accommodation areas to enhance the wellbeing of all those on set. Curbing the carbon footprint and adhering to a busy shooting schedule with no interruptions due to refuelling were equally important for the customer.

A seamless turnkey solution

Thanks to a hybrid energy system comprising generators plus energy storage systems, the client was able to reduce fuel usage and CO2 emissions. Our recommended set-up also provided a no-noise sleeping environment for cast and crew members. The fuel-efficient solution avoided any downtime for refuelling which meant the shoot went ahead with zero interruptions.

In addition to the low-noise, fuel-efficient system hire, we provided expert support to ensure the hybrid system served the clients needs throughout the three-week period . All ancillary equipment and transport was provided by Woodlands. Our engineers went on site to set up, connect and test the equipment, liaising with the location facilities manager to ensure the client felt confident and supported. At the end of the hire period, the Woodlands team disconnected all equipment, ensuing a seamless experience for the client from start to finish.

Positive outcomes for our client

- **Generators running 24/7 over the same period would have incurred additional fuels costs of £12,812**
- **No noise disruption** during the night for better cast and crew wellbeing
- **Savings of 8,600 litres of fuel**, in comparison to a non-hybrid solution
- This equates to **a saving of 23.7 tonnes of CO2** or 0.395 tonnes of CO2 per cast/crew member
- **Production stayed on schedule** and remained Covid-secure

Location: Herefordshire, UK. Project type: hybrid power hire. Sector: Creative industries.

Registered in England No. 477998
Vat Reg No. 275452053
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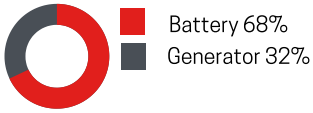
Woodlands Power

Accommodation area 1

- 30 cabins, each with 1 x 32A single phase input
- 1 x 200kVA generator
- 2 x 45kVA/90KWhr ESS systems

Battery usage vs Generator



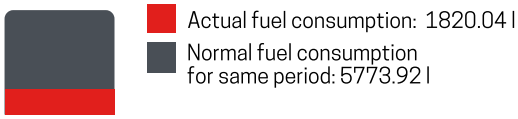
Silent running hours

10.01 tonnes

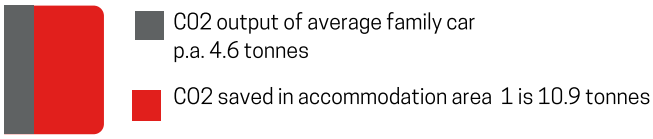
of CO2 saved

For comparison, the annual CO2 output of an average family car is 4.6 tonnes

Fuel savings (litres)



CO2 savings (tonnes)



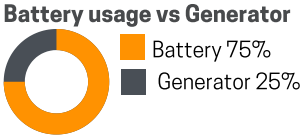
Accommodation area 1

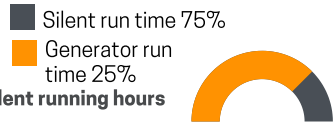
Total fuel savings: £5891.28 **Weekly fuel savings: £1963.76**

Accommodation area 2

- 26 cabins, each with 1 x 32A single phase input
- 1 x 150kVA generator
- 2 x 45kVA/90KWhr ESS systems

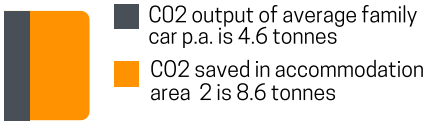
Battery usage vs Generator



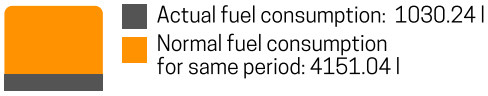


Silent running hours

CO2 savings (tonnes)



Fuel savings (litres)



8.6 tonnes of CO2 saved

Accommodation area 2

Total fuel savings: £4649.99 **Weekly fuel savings: £1549.99**

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Woodlands Power

Catering area

- 1 x 35kVA generator
- 1 x 30kVA/60KWhr ESS systems

Battery usage vs Generator

Battery 71%

Generator 29%

Silent running hours

Silent run time 71%

Generator run time 29%

4.2 tonnes of CO2 saved

Fuel savings (litres)

Actual fuel consumption: 627.9 l

Normal fuel consumption for same period: 2152.8 l

The annual CO2 output of an average family car is 4.6 tonnes

Catering area

Total fuel savings: £2272.10

Weekly fuel savings: £757.36

Enhanced cast and crew wellbeing

Reduced CO2

Significant fuel and cost savings

No refuelling = No disruptions

Fuel usage and generator run hours were monitored over a three-week period. Savings calculations are based on actual running hours versus the cost of continuous running times using non-rebated (white) diesel fuel at £1.49 / litre.