

Northwood Trail England

OFF-GRID CASE STUDY



SYSTEM SPECIFICATIONS	
Location	Northwood Forest, York, England
System Power	11.4kW
Components	<ul style="list-style-type: none"> • (2) Radian™ GS3548E w/ GSLC • (2) FLEXmax™ 100 • (24) OPzV Battery Bank



OVERVIEW

Christian already ran a successful luxury camping business in a forest near York, England. His next plan was to create a fairy trail around the nearby forest. There, children could explore in an exciting and safe environment with a fairy museum and grotto in a cabin, complete with a restaurant that serves high quality locally-produced food and drinks. He already had limited electricity on the camp site, but the power company could not connect any additional loads. He was quoted a large fee from the local grid for a new connection, and as the land was on a lease, Christian was not willing to add value to the land at his cost. In addition to that, he was also keen on making the business sustainable, similar to the camp site.

CHALLENGE

- Have enough budget to buy a complete stand-alone system
- Generate reliable, clean electricity in a rural area
- Build a self-contained, non-permanent system
- Be fully supported by a professional installer, with remote monitoring and control

We had the ideal secluded rural location, and a successful business nearby. We were shocked to get an eye watering new connection quote from the district Network Operator.

Its simply was not feasible to pay that much to connect, and then get ever increasing bills.

The prospect of running 100% off a diesel generator wasn't a sustainable or convenient option. We heard about some European funding to support green businesses, we didn't think off grid solar was really an option in the UK until we found Outback Power and Xerogrid.

Christian Van Outersterp

Director Jollydays Luxury Camping UK





SOLUTION

- Xerogrid Ltd. presented a number of case studies suggesting an already well-proven setup using the™™™ OutBack Power Radian inverter/charger
- The system could be built in a container nearly 150 meters away from the restaurant without™™™ experiencing voltage drop
- FLEXmax 100 charge controllers provided high voltage and output to the battery bank

OUTCOME

- The system is monitored, controlled, serviced, and seasonably adjusted by Xerogrid Ltd. so Christian can concentrate on running a great restaurant
- April through September, there is enough power from the solar panels to forego the use of a generator
- If there isn't enough sun, the generator will automatically start and recharge the batteries



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