



GreenPowerHire

200kVA Day/Night Split Distribution Hybrid Power Solution

Below is an example of a hybrid power solution combining a 200kVa diesel generator with one of our 45kVa 75kWh battery storage systems. In this example we are using the generator to power the site between 7am -7pm Monday - Friday and 8am - 4pm on Saturday with the generator being off all day Sunday. The battery takes over from the generator outside of these times delivering a 59.5% reduction in generator run time but maintaining a reliable, constant and silent power supply to the essential site loads. As you can see the generator has 2 outputs, the first is connected to the main site distribution board which feeds all the non essential loads. When the generator turns off the power to this board is automatically lost. The second generator output is fed into our battery system that is connected to each of the essential site cabins. Overnight we use the battery to keep a constant power feed to the CCTV and security hut but we intermittently turn power to the cabins and drying rooms on and off, keeping them warm but minimising draw on the battery system. This automated control allows a much smaller battery to be used and still deliver a large reduction in generator run time.

28 Day Savings



Fuel Consumption reduced by

10,292L



Total CO2e emissions cut over by

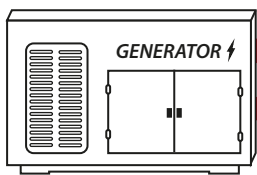
32.48T



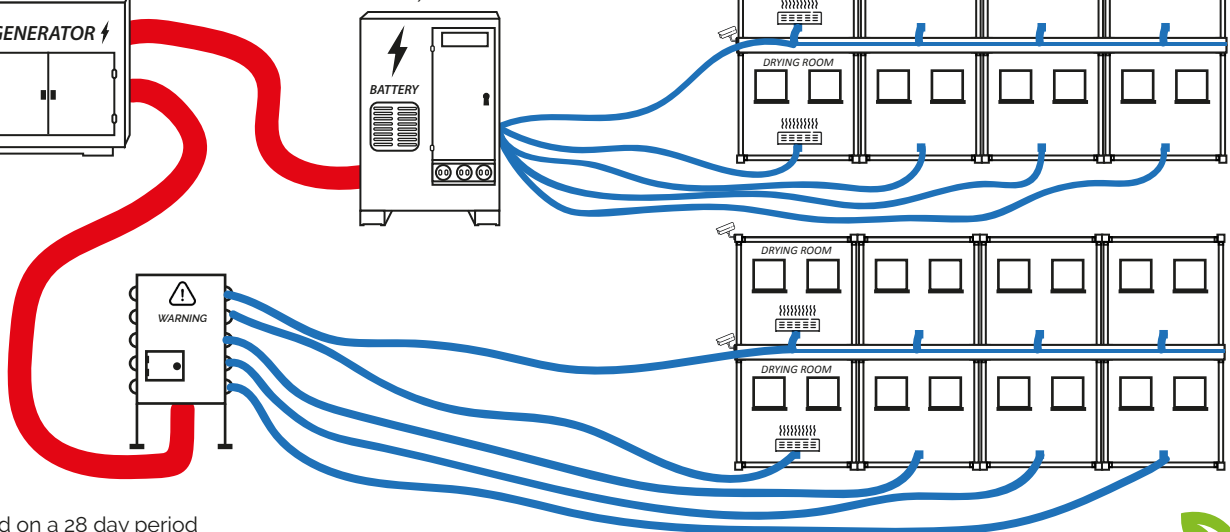
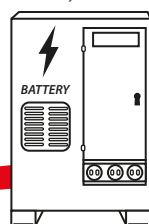
Total percentage of silent hours

59.5%

Generator Size: 200kVa



Battery Size: 45kVA 75kWh



*Figures based on a 28 day period

GREEN POWER HIRE

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