




GreenPowerHire


40kVA Power Assist Full Hybrid Power Solution


Below is an example of a hybrid power solution combining a 40kVA diesel generator with one of our 45kVA 45kWh battery storage systems. In this example we are running the solution in full hybrid mode. This means that the battery controls the generator automatically based on the battery charge level and the site electrical load. When load is high the battery starts the generator and when the load drops low the generator is automatically stopped. The changeover between the battery and generator is seamless and delivers a 70% reduction in generator run time.

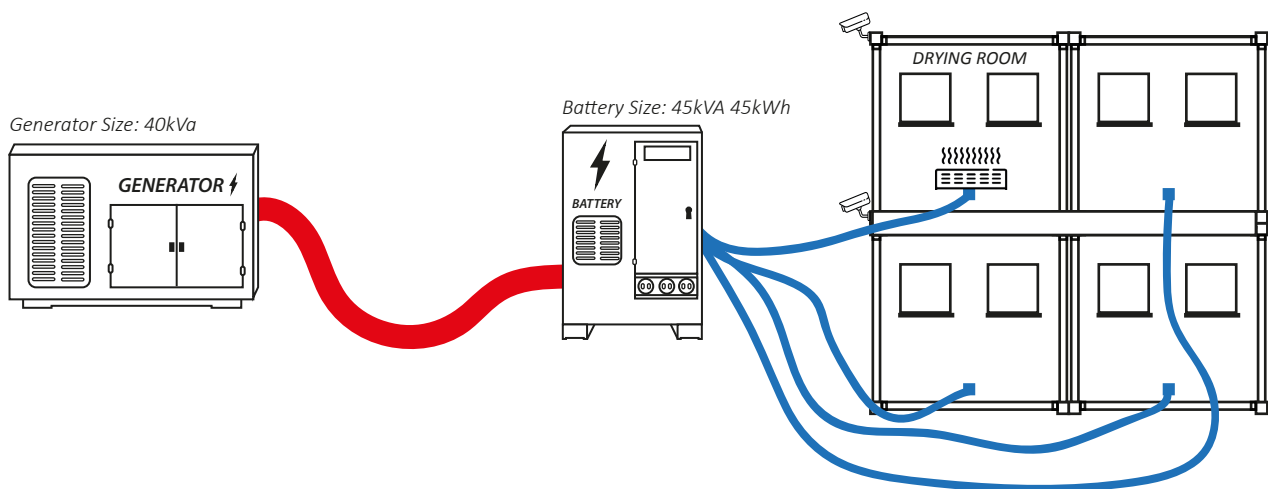
The battery and generator can also work together to deliver a peak load of 85kVA allowing a smaller, more fuel efficient generator to be used. As you can see the battery system is connected to each of the on site cabins, we can control the power supply to each of these cabins, automatically turning them off when not in use. Overnight we use the battery to keep power on the drying room and CCTV cameras whilst turning off the power to the other cabins. This full hybrid mode solution delivers the largest reduction in generator runtime but the generator could possibly start anytime day or night.

28 Day Savings

 Fuel consumption reduced by **2686.7L**

 Total CO2e emissions cut by over **8.48T**

 Total percentage of silent hours **70%**



*Figures based on a 28 day period

GREEN POWER HIRE

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