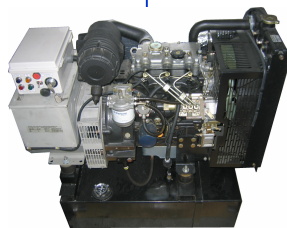
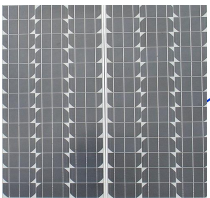


# Off-Grid Energy Solutions



*"Your AS/NZS Compliant Off-Grid Energy Specialists"*

Large Power Hut  
30-60kW



*A Fully Compliant One Stop Off-Grid Energy Solution  
Delivery Nationwide*

[www.powerandwater.co.nz](http://www.powerandwater.co.nz)

*All Components are chosen for their Reliability and Durability*

### **Standard Power Hut Components**



The **Generator** has a water-cooled diesel engine coupled to a brushless single phase alternator. The Generator in turn is situated via anti-vibration mounts atop the fuel tank and is enclosed inside a sound proof enclosure. The generator is the workhorse of the system, and provides a cost effective solution to providing reliable electrical capacity for Off-Grid energy.



The **Battery Bank** consists of a number of sealed type Gel or AGM batteries that are mounted on there own purpose built stand.



The **Inverter/Charger** has been chosen for its ability, not only to synchronise to the generators output, but also to redistribute surplus generator output to charging the battery bank.



**Solar Panels** are included and connected via a solar regulator to provide standby charging for the battery bank. Additional panels can be added.



The **Controller** acts as an interface between the generator and the rest of the installation as well as collecting important data from the installation that can be accessed from the front screen or off site via communications interface.

### **Other Generating Component Options**



**Wind Turbine Generators** are optional components that can be connected into the Power Hut system to provide additional charging capacity to the battery bank. They could be a considered if the installation is in an area of consistent wind speeds



**Mini Hydro Generators** are optional components that can be connected into the Power Hut system to provide additional charging capacity to the battery bank. They could be a considered if the installation is near a water source with sufficient head height and flow rates.



*“Committed to providing Off-Grid Energy Solutions for the 21st Century and beyond”*

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