Western power stand alone systems

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Stand-alone power systems. SPS is an off-grid power solution, independent to the ...

SPS is an off-grid power solution, independent to the main electricity grid, which generates, stores and delivers power to rural households and small businesses. It uses renewable energy via solar photovoltaic (PV) panels, battery storage, inverter(s) and a backup diesel generator. We pay for the upfront cost of the unit and any ongoing costs associated with operation and maintenance, faults and replacement. Customers continue to be billed by their retailer at the same unit cost as a grid or network connected property.

An SPS is a self-sufficient off-grid power source. Energy is generated by the solar panels, powering the property and charging the batteries for use when the sun isn’t shining. A backup generator also kicks in when needed to keep energy flowing. The unit operates independently of the main electricity grid to store and deliver reliable power to a household or business.

90-95% of the SPS electricity comes from solar panels and stored solar energy in the battery.

In rural and remote areas, customers are serviced by powerlines that stretch over long distances. Using SPS instead of poles and wires on suitable properties and locations has a number of benefits, including:

After comprehensive feasibility evaluation, we will reach out to customers eligible for the SPS program.

Some of the things we consider when determining eligibility include:

The success of our SPS program has resulted in a strong interest from regional families and businesses who are keen to have SPS installed on their property. Currently, only customers who live on properties we’ve identified after a comprehensive feasibility evaluation are eligible. We proactively contact customers who meet the eligibility criteria.

We cover the cost of SPS installation, maintenance and replacement. This includes site visits and investigations, system installation and ongoing maintenance.

We design our SPS systems to cater for the standard supply of 63A, with up to 40A of inrush, as defined in the WASIR. Given the range of customer load & consumption requirements, we’ve designed our fleet to be modular and flexible, and can be scaled up or down.

Our initial customer engagement, site visit and review of historical consumption data is critical to provide us with the information we need to get the SPS sizing right. The nature, timing and duration of the load being used would impact the PV and battery capacity required for the system.

On days with significantly higher night time energy consumption than usual, or days with cloud cover, backup generation may be utilised. The design of the system is in accordance with the relevant Australian Standards (4509 & ASNSZ 3000) and a lifecycle assessment is used to identify the optimum mix of solar, battery storage and backup generation. We currently aim for greater than 90-95% of all energy to be generated from renewable sources.

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