

Stand Alone Power Systems (SAPS)



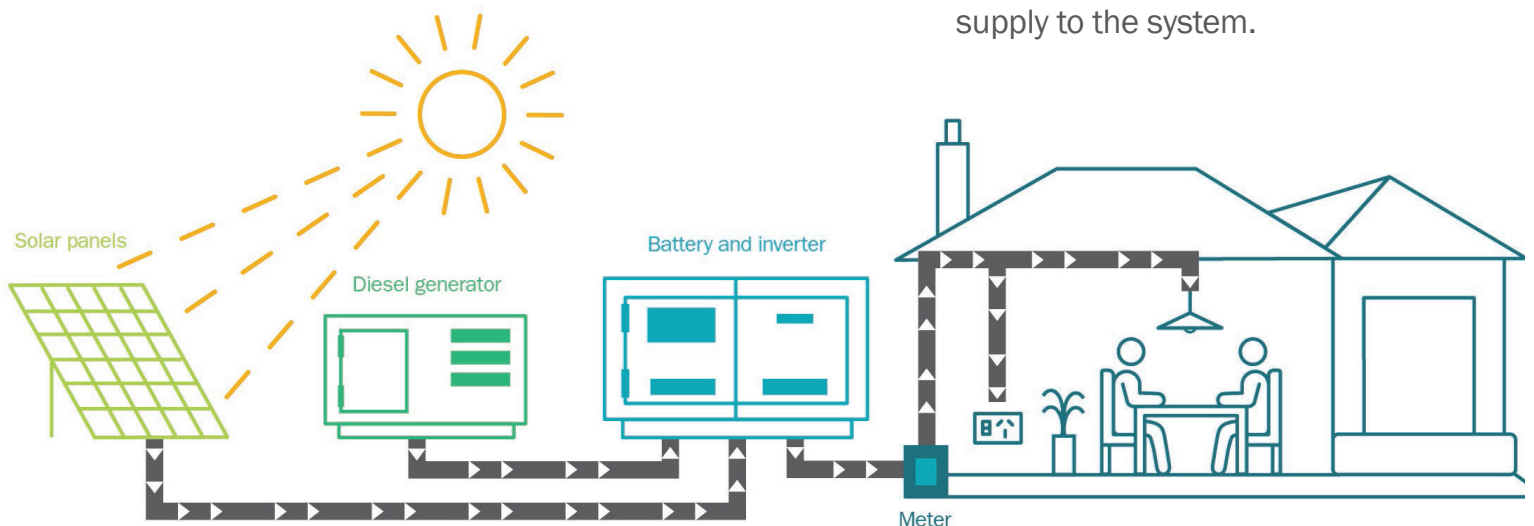
Essential Energy delivers reliable, safe and efficient energy solutions that meet our customers' changing needs. For customers located at the end of remote powerlines, Stand Alone Power Systems (SAPS) are an innovative and cost-effective way to ensure reliable and safe electricity supply. For suitable properties, Essential Energy will install, maintain and operate these systems free of charge.

What is a Stand Alone Power System?

A SAPS is an independent power supply which includes solar panels, a battery for energy storage and a back-up diesel generator. It operates independently from the electricity network of poles and wires and can be used to power homes or other types of accommodation, sheds, workshops and offices.

How does a SAPS work?

- > The solar panels generate electricity during daylight hours
- > Solar energy collected is used to power your premises and charge the battery
- > The battery provides power at night or when it is overcast for long periods of time
- > A diesel generator provides back-up supply to the system.



Benefits of a SAPS

These independent power systems:

- ✓ Deliver more reliable power to customers located at the end of long, remote powerlines
- ✓ Provide clean and sustainable energy via a system owned, operated and maintained by Essential Energy in the same way that we manage the current poles and wires
- ✓ Eliminate outages caused by powerline maintenance, weather, wildlife and vehicle impacts
- ✓ Improve safety through removal of hazards that can be caused by poles and wires
- ✓ Improve resilience during natural disasters – on-site electricity generation removes the need to rely on infrastructure that could be affected by natural disasters
- ✓ Reduce environmental impact – there is no need to access and maintain long corridors of vegetation around poles and wires
- ✓ Offer flexibility and scalability – the modular design can be adapted to suit different situations, locations and changing needs

When is a SAPS installed?

- > We're installing SAPS in locations where they can increase power supply reliability and resilience and reduce operating costs for all customers
- > SAPS are an ideal solution for properties in remote locations at the end of long powerlines, in areas prone to natural disasters and in densely vegetated or difficult to access area
- > SAPS installed by Essential Energy are owned, operated and maintained by us, in the same way that we manage the current poles and wires – with continued 24/7 access to support
- > After a successful SAPS implementation, powerlines will be removed.



Essential Energy is responsible for building, operating, and maintaining one of Australia's largest electricity networks. We look after the poles, wires and energy solutions that deliver electricity to 95 per cent of New South Wales and parts of southern Queensland. The electricity we deliver powers homes, hospitals, schools, businesses and services in communities across our footprint.

For more information on SAPS:

Visit www.essentialenergy.com.au/SAPS

Call our Customer Reliability Specialist on **02 6941 1214**

Email SAPS@essentialenergy.com.au

