SOBOS Energy
Enabling the transition to renewables

Case Study: WALA Mobile Renewable Power System (MRPS)

shadforth

The SOBOS Energy WALA MRPS is a remotely monitored, **self-contained power system** providing 24/7 power through rechargeable lithium-ion battery storage combined with **solar generation**, and integrated **back-up generation**.

The WALA is currently supplying 24/7 off-grid power to a **Shadforth** construction site in Queensland. In addition to delivering **highly reliable energy**, it has resolved multiple issues typically seen with conventional diesel generators—such as fuel costs, emissions, and maintenance. Here are key stats from its first 12 months in operation (April 2024 – April 2025).

- **46% less cost:** Same power output, significantly lower operating costs than diesel gensets.
- **99% less generator run hours:** 8863 less, thanks to integrated solar array, charger, battery and inverter systems.
- **99% less fuel:** Lower runtime reduces fuel consumption and oil changes from fewer services.
- **58.5t less CO2 emissions:** Also cuts NOx, CO, PM & hydrocarbons—cleaner air, smaller footprint.
- **Noise abatement:** Ultra-quiet <40dB operation (similar to a fridge or quiet office).
- **100% uptime:** Fully remote-monitored via SOBOS platform with app-based system access.

Reduction in Generator Run Hours

Number of Days:	370
Conventional run-hours:	8880
Actual run-hours:	16
Reduction in run-hours:	8863

Reduction in Diesel Fuel Consumption

Reduction in run hours:	8863
Fuel used /hr. (L):	2.5
Fuel reduction (L):	22,157
CO2 Savings (t):	58.5

Site Load

1 x Office	2 x Air Conditioners 1 x Fridge 2 x Lights 1 x Hand Tool Charging Station 2 x Computers
1 x Lunchroom	2 x Air Conditioners for Breaks 1 x Fridge 2 x Lights 1 x Microwave 1 x Toaster 1 x Kettle

Unlock reliable, off-grid power with superior efficiency, sustainability and reduced operating costs. The perfect alternative to conventional diesel powered generators is here. Contact us to learn more.

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