

Operational Scenario: Remote Communities

Off-Grid Energy for Isolated Areas

AFB presents mobile power generation and energy storage for remote communities. Remote and island communities rely heavily on diesel generators for power, which are expensive to run and maintain.

AFB Solutions



Solar Energy

A solar array with multiple options for generating capacity.



Energy Storage

An onboard battery system for storage and continuous power.



Fast Deployment

3 to 4 people can have the system up and running in 3 to 4 hours.



Mobile

Easily transportable by truck or air for rapid deployment and reuse.



Water Purification

Reverse osmosis water purification is available as an option to generate clean drinking water.

Many remote communities in Australia and the Pacific, such as Indigenous settlements or island communities, rely on expensive and logistically challenging diesel generators. AFB's mobile power generation and energy storage systems offer a scalable energy solution that combines solar arrays and industrial grade batteries to reduce reliance on diesel generators. It ensures 24/7 electricity for homes, schools and community facilities, while significantly lowering energy costs.



Benefits:

- **Cost Savings:** Reduces fuel transportation and diesel costs.
- **Energy Independence:** Solar energy with energy storage ensures 24/7 power.
- **Environmental Sustainability:** Lowers CO2 emissions and reliance on fossil fuels.
- **Long-term energy independence,** reducing dependency on external fuel supply.
- **Scalable to meet varying energy demands** across communities.
- **Supports local development** by reallocating funds previously used for diesel logistics.