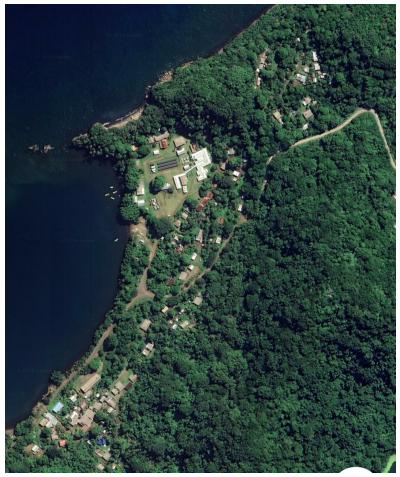
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LOLOWAI VILLAGE AND CLINIC

24/7 RENEWABLE POWER ON AMBAE ISLAND, VANUATU



Existing solar put back to full use



Remote island community

FROM LIMITED HOURS TO 24/7 POWER

Before: diesel and failed batteries

Diesel supplied the village from 6 am to 8 pm. Failed batteries left the clinic without stored solar power through the night.

Now: power through the night

The new Freedom Won system stores daytime solar and supplies the clinic and connected village around the clock.

50 kW
EXISTING SOLAR
Retained and integrated

150 kW
HYBRID INVERTER
ATESS HPS150 power conversion

300 kWh
FW HV STORAGE
Three 100 kWh battery cabinets

24/7
POWER SUPPLY
Clinic and connected village

SOLAR AND STORAGE AS THE PRIMARY SUPPLY, WITH DIESEL ON STANDBY

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EXISTING SOLAR, RESTORED STORAGE

A NEW POWER ROOM FOR THE CLINIC AND CONNECTED VILLAGE



BEFORE: NON-FUNCTIONAL STORAGE

The old lead-acid battery bank could no longer store solar energy for use after sunset.



AFTER: FW BATTERIES AND HYBRID INVERTER



Delivery and commissioning team

Freedom Won Australia and Energy4All, working with the Vanuatu Government and VUI.

RENEWABLE ENERGY THROUGH THE NIGHT

Existing solar feeds the hybrid inverter and charges the new batteries. Stored energy then supports the clinic and village outside sunshine hours.

DIESEL RESERVED FOR BACKUP

Automatic controls start diesel only when needed. During the first three weeks, no generator starts were recorded on good sunny days.