

MAKAKATANA BAY LODGE – Safari Lodge situated in Mtubatuba, Kwa-Zulu Natal (2022)

Three Phase Grid-Connected System with Solar Panels.



Description:

NuRa Energy designed, installed, and commissioned a three-phase grid-connected system with solar panels at Makakatana Bay Lodge - Mtubatuba in January/February 2023.

This system consists of six Victron Energy 48V/15kVA Quattro Inverters and one 20kW Fronius Symo PV inverter. The inverter units convert DC voltage (from the battery and solar panels) into AC voltage to use normal household appliances. Two Freedom Won 48V 40/32kWh Lithium-Ion Phosphate Battery (LiFePO4) are connected to the specified inverters.

Fifty Jinko Solar Panels (550Wp) were installed on a wooden structure. The panels are connected to one Victron Energy 250V/100A BlueSolar MPPT Solar Charge Controller as well as the 20kW Fronius Symo Pv Inverter to charge the batteries and supply the load.

The system also has a Cerbo GX remote monitoring unit installed which when connected to an internet connection allows the system to be monitored and controlled remotely by installers and the client via the Victron Energy VRM application.

Price: R1 450 000.00 Including VAT