

SMITH RESIDENCE –

Private Residence situated in False Bay Area, Kwa-Zulu Natal (2021 - 2023)

Three Phase Grid-Connected System with Solar Panels and 23kVA Backup Generator.



Description:

NuRa Energy designed, installed, and commissioned a three-phase grid-connected system with solar panels at a private residence – False Bay Area, Hluhluwe, Kwa-Zulu Natal.

This system consists of three Victron Energy 48V/10kVA 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. One Freedom Won 48V 40/32kWh Lithium-Ion Phosphate Battery (LiFePO₄) are connected to the specified inverters.

Sixty LG Solar Panels (400Wp) were installed on a wooden structure. The panels are connected to one 20kW Fronius Symo Pv Inverter to charge the battery 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: R600 000.00 Including VAT