

KLEYNFAAN LANDGOED–

Pineapple farm situated in False Bay Area, Kwa-Zulu Natal (2023

Three Phase Grid-Connected System with Solar Panels and 100kVA Backup Generator.



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

This system consists of three Victron Energy 48V/15kVA Quattro Inverters and two 10kW Fronius Symo PV inverters. 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.

Forty Jinko Solar Panels (550Wp) were installed on the roof with an aluminium mounting system. The panels are connected via a combiner box with overvoltage and overcurrent protectors to two 10kW Fronius Symo Pv Inverters 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: R1 600 000.00 Including VAT (excluding generator)