

## PHINDA PRIVATE GAME RESERVE –

### Private Game Reserve situated in Hluhluwe, Kwa-Zulu Natal (2022)

#### Single Phase Grid-Connected Backup System with Solar Panels

#### **Description: Main Gate**

NuRa Energy designed, installed and commissioned a single-phase grid-connected backup system with solar panels at Phinda Private Game Reserve – Hluhluwe in 2022.

This system consists of one Victron Energy 48V/1200VA Multiplus Inverter/Charger. The inverter units convert DC voltage (from the battery and solar panels) into AC voltage in order to use normal household appliances. One Pylontech 3000C US Lithium-Ion Phosphate Battery (LiFePO4) is connected to the specified inverter.

Two Jinko Solar Panels (545Wp) were installed on a wooden structure. The panels are connected to one Victron Energy 100V/20A BlueSolar MPPT Solar Charge Controller in order 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:** R75 000.00 Including VAT (2022)



#### **Description: Gate 1-4**

This system consists of one Victron Energy 48V/1200VA Multiplus Inverter/Charger. The inverter units convert DC voltage (from the battery and solar panels) into AC voltage in order to use normal household appliances. One Pylontech 3000C US Lithium-Ion Phosphate Battery (LiFePO4) is connected to the specified inverter.

Two Jinko Solar Panels (545Wp) were installed on a wooden structure. The panels are connected to one Victron Energy 75V/10A BlueSolar MPPT Solar Charge Controller in order 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:** R63 000.00 Including VAT (2022)