

SOLLATEK CASE STUDIES

Positive life; Kiotani Boarding School – 2.3Kw Solar System



- 2k VA Inverter
- 6 x 200 Ah batteries
- 9 x 260 W solar PV

Kiotani (Swahili for 'Inside the nest') is our ongoing project which is currently in the construction stage. Today, it runs as a Primary School and we are in the process of improving our farm and infrastructure to become a sustainable boarding school and rescue center for highly vulnerable and orphaned children.

Over the years our work within the community has indicated the necessity to provide a safe haven for vulnerable children. Positive Life Kenya is often faced with the challenge of how and where to care for children who are either abandoned or whose parents have deceased.

Kipungani Explore Eco Camp Lamu Island – 4Kw Solar System



- 5k VA Inverter
- 16 x 260 W solar PV
- 16 x 200 Ah batteries

Kipungani Explorer is a unique community run eco-lodge with close ties to local Swahili culture located on the southwest side of Lamu Island overlooking the Kipungani Channel.

Kasigau Ranching Co – Cattle Ranch and Wildlife Conservation Trust in Taita Taveta – 1.3Kw Solar System



- 2k VA Inverter
- 5 x 260 W Solar PV
- 4 x 200 Ah Batteries

A working cattle ranch and part of the Taita Taveta Wildlife Conservancies Association forming an important wildlife corridors between Tsavo East and Tsavo West National Parks.

Products Used

1. Sollatek Solar PV Modules - <https://sollatek.co.ke/shop/sale/special-offer/solar-panel-14w-120w/>
 - Sollatek's high efficiency solar modules are constructed from 36 polycrystalline, (12V modules) or 72 cells (24V modules) cells. The cells are individually tested and matched for optimum performance before being built into the protective module structure. A Tedlar® base is used and ethylene vinyl acetate encapsulant. High transmission tempered glass protects the cells from the front and a high strength polymer sheet at the rear. A reinforced aluminium frame completes the laminate structure which is fully sealed against moisture and protected from environmental and mechanical damage.

2. 200 Ah Maintenance Free GEL batteries - <https://sollatek.co.ke/shop/solar-systems/solar-batteries/maintenance-free-batteries/>
 - a. 200AH MF AMG battery with a design life of 8-10 years and a cycle life of 400 on depth of discharge (DOD) Ideal for solar systems, street lighting and all portable power applications
3. Sollatek Inverter 850VA, 1.5kVA, 2kVA - <https://sollatek.co.ke/shop/power-backup/inverter-1-5kva-pb1500/>
 - a. The PB2000L or 2kVA inverter is a robust inverter designed to power your home appliances or precious electronics. It also accepts wide input voltage to generate stable and pure power downstream AC loads. Based on different types of loads, this inverter can provide pure and stable power either to house appliances or too sensitive personal computers via selectable operation modes. It is a brilliant choice for homeowners or small office users in the unstable power area.