

HYBRID ENERGY SUPPLY -TANZANIA, 2016

CAMP IN THE SERENGETI



Previously the camp was supplied by two 100kWp diesel generators running day and night at a high cost per month. The new Solar System –installed and commissioned by Harmonic Systems Ltd. – saves up to 85% diesel costs.

Now the camp is run by a 133kWp PV field and a 900 kWh battery bank with the SMA Multicluster System incorporating Sunny Island battery inverters. During cloudy periods, the diesel gensets serve as backup, charging the batteries and simultaneously provide power. The SMA Multicluster System was the obvious choice for this system due to the reliability of the products given the remote location in Tanzania.

Project

- Location: Tanzania
- Commissioning: 2016
- Specific requirements: High battery storage capacity due "silent night" operation strategy

Plant information

- Installed PV power: 133 kWp
- Annual energy yield: 206,000 kWh
- Reduction in CO₂: 168 tons
- Annual diesel savings: 85%

SMA System Technology

- 15 Sunny Island 8.0H-11
- 6 SMA Sunny Tripower 20000TL-30
- 1 Multicluster Box 36

SMA System Solutions for hybrid applications

