

# 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 Multiclustor System incorporating Sunny Island battery inverters. During cloudy periods, the diesel gensets serve as backup, charging the batteries and simultaneously provide power. The SMA Multiclustor 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 Multiclustor Box 36

SMA System Solutions for hybrid applications

