

HYBRID ENERGY SUPPLY – BENIN, 2015

RURAL ELECTRIFICATION OF KOSIA & KOKABO



The projects in Kosia and Kokabo provide electricity to 75 households in each village and feed the common infrastructure: schools, clinics, maternities and night distribution of drinking water, as well as small workshops, profit from the PV installation which is backed up by diesel gensets.

The Sunny Boy inverters and the Sunny Island battery inverters are part of the RURAL ABIC system (Autonomous Backup Integrated Compact – Power Plant), manufactured by Spanish company IDNA.

Project

- Location: Kosia (Sinendé) & Kokabo (Bembereké) villages, Borgou, Benin
- Commissioning: October, 2015
- Manufacturer: Investigación y Desarrollo Nuevas Alternativas (www.idna.es)

Plant information

- Installed PV power: 2 * 36 kWp
- Annual energy yield: 2 * 55,000 kWh
- Diesel generator rating: 2 * 25 kVA
- CO₂ reduction: 2 * 95 tons/ year

System Technology

- 2 * 6 SMA Sunny Boy 5000
- 2 * 3 SMA Sunny Island 8.0
- SMA Sunny Webbox, Sunny Sensorbox, Meterconnection Box
- 2 * 147 REC245 modules

SMA system solutions for hybrid applications

