

Tss4U commissioned two major projects in May 2008

FRES project

This project comprises a mini-grid (= interconnection of small, modular generation sources to a ac distribution system) solar power system for the town of Kimpanara, Mali, which provides 500 families and small enterprises with solar electricity.

The project has been executed by FRES, in cooperation with N.V. Nuon (Netherlands) and Yeelen Kura (Mali). It was supported by PSOM, the Programme for Cooperation with Emerging Markets from EVD, the Dutch Agency for International Business and Cooperation.



The Fres solar array with in total 72 kWp of solar modules

The solar power system comprises of:

- 600 solar modules of 120 Wp each
- 8 vented lead acid batteries 48V with a total capacity of 35.200 Ah/C240
- Tss4U charge control equipment
- SMA Sunny Island inverters.

Newsletter June 2008

Shell UK/NAM project

Tss4U commissioned two explosion proof solar/wind hybrid systems which were supplied in 2007 to Shell UK. The systems are installed on the Caravel and Shamrock platforms.

The solar/wind hybrid power system supplies a continuous 1.4 kW power in a hazardous area Zone 1 offshore environment and consists of:

- Two 2.5 kW Wind Turbines
- 72 pcs. TSM85EX (85 Wp each) solar modules
- 11.220 Ah/24Vdc Battery storage
- Associated charge control and data monitoring systems
- Area Classification: ATEX II 2 G Gas group IIB, Temp. Class T3, ATEX 94/9 EX



Hybrid solar-wind system offshore on Caravel platform



Hybrid solar-wind system in folded/transport position



Hybrid solar-wind system folded on transport

The solar/wind system is designed for a maintenance interval of two years. In case of maintenance the skid mounted solar-wind system will be replaced with new units in order to minimize the maintenance period (and cost) offshore.

The solar modules and wind turbine can be folded so that the whole package can be easily transported via boat and truck. Tss4U is responsible for the maintenance onshore and offshore.