

Monitoringsystem for a solar park with 1.28MWp

Abstract

The aim is the annual production of about 1,300 MWh of electrical power, produced in an environmentally friendly way – without any noise, exhaust or deterioration. In order to achieve this, the solar park is provided with a remote monitoring system from iPLON which reports yields, errors and failures.

The connected datalogger regularly sends status messages via modem allowing immediate reaction if necessary.

Partners: Krauß, Novatech, iPLON

Outline

Total power	1.280 kW
Panel Manufacturer	Suntech and ET Solar
Panelcount	7370
Power / panel	175 W
Inverter-topology	central and decentral
Inverter types	Xantrex (2 x GT500E) 16 inputs per junction box: 6 junction boxes per Inverter SMA 11 Inverters (SMC 8000TL)

Error recognition

- Inverter stopped adjusting to the MPP
- Compare efficiency of central and decentral inverters
- Warranty in case of degradation of strings or panels and the coherent decline in output
- Unified dataveillance via GPRS



Important notes

20/05/09 Version 1.0 Subject to alterations

