

Reference List

PV plants connected to islands grids

**Daundolu village,
Rote island**



Indonesia – Rote island - 1999



Customer:
ENEL Polo Energie
Alternative

Power: **20kVA**

Science Park | Taiwan island



Power: **10 kWp**

Connection date: **2004**

EPC: Sinonar

Inverters: 1 Sunway™ TG 10 600V

USPs / Key Notes

- Our first Sunway™ TG



Hotel Parking | Cefalù – Sicily island - Italy



Power: **41 kWp**

Connection date: 2005

EPC: Enel.Si

Costumer: Hotel Paradiso



ST | Catania – Sicily island



Power: **18,9 kWp**
Connection date: 2006
EPC: ST Microelectronics



Enna | Sicily island - Italy



Power: **1 MW**
Connection date: 2007
EPC: Sorgenia



Villacidro I-II | Sardinia island - Italy



Power: **2 MW**
Connection date: 2007
EPC: Sorgenia



Melenara | Canary Islands - Spain



Power: **50 kW**

Connection date: 2008

EPC: Ecostream





- ✓ Fiume Santo **thermoelectric power station** is located near Sassari (Sardinia, Italy).

It covers a surface of approx. 153 hectares on the Golfo dell'Asinara; with its 300 employees, it is one of the most important production plants in the north-west of Sardinia.

Six generation units are installed, for total **982 MW** available power.

- ✓ The first two units, commissioned in 1983-84, are fuel oil-fed and have an individual rated power of 160 MW.
- ✓ In 1992-93, two additional 320 MW units were commissioned, coal-fed since 2003. In late 2005, two gas turbine units, 40 MW each, were commissioned.
Net production in 2007 was 4,260 GWh, equalling 36% of the total energy consumption in Sardinia.

Critical issues of the project:

- ✓ **Proximity to approx. 1 GW electrical power station**
- ✓ **Project timing: “Plug & Play” solution required**

Sardinia island - Fiume Santo E.ON



Installed power: **1.35 MW**

Commissioned: **2010**

Module Brand: Sunpower



Pachino | Siracusa – Sicily island



Power: **5,98 kWp**

Connection date: 2009

EPC: Sunglobal

Modules: 26 Aleo S 18 230 Wp

Inverters: 1 Sunway™ M Plus 3600



OASIS Project for FIAMM



Paraná- Brazil- 2011

PV Generator:
 Rated power: 5.12kWp
 Voltage: 300+580Vdc
 Daily production: 18+33kWh/d

Inverter:
 Sunway MPlus 7800
 Rated ac power: 5.98kW
 Input voltage: 260+585Vdc



Storage system:
 Rated power up to 70kW
 Rated voltage: 248+446Vdc
 Rated capacity: 56.4kWh
 Weight: 2x243kg

Wind generator:
 Rated power: 5kWp
 Daily production: 12+23kWh/d

Inverter:
 Etesian Mini 7800
 Rated ac power: 6kW
 Input voltage: 24+550V



Inverter:
 Sunway 6000 Mini Grid
 Rated ac power: 5.7kVA

Backup gen-set:
 Rated power up to 2.4kWp



AC Bus:
 1 phase - 230Vac 50/60Hz

V

f

Generation power measures:
 Renewable generation
 Batteries generation



Auxiliaries and
 Uninterruptible loads

Primary loads

Secondary loads

Load power measures:
 Auxiliaries and Uninterruptible loads
 Primary loads
 Secondary loads

Overall load:
 15kWp (peak power)
 10kW (continuous power without generation)
 Range without generation: 2 days @ 20kWh/d

Paranà- Brazil- 2011



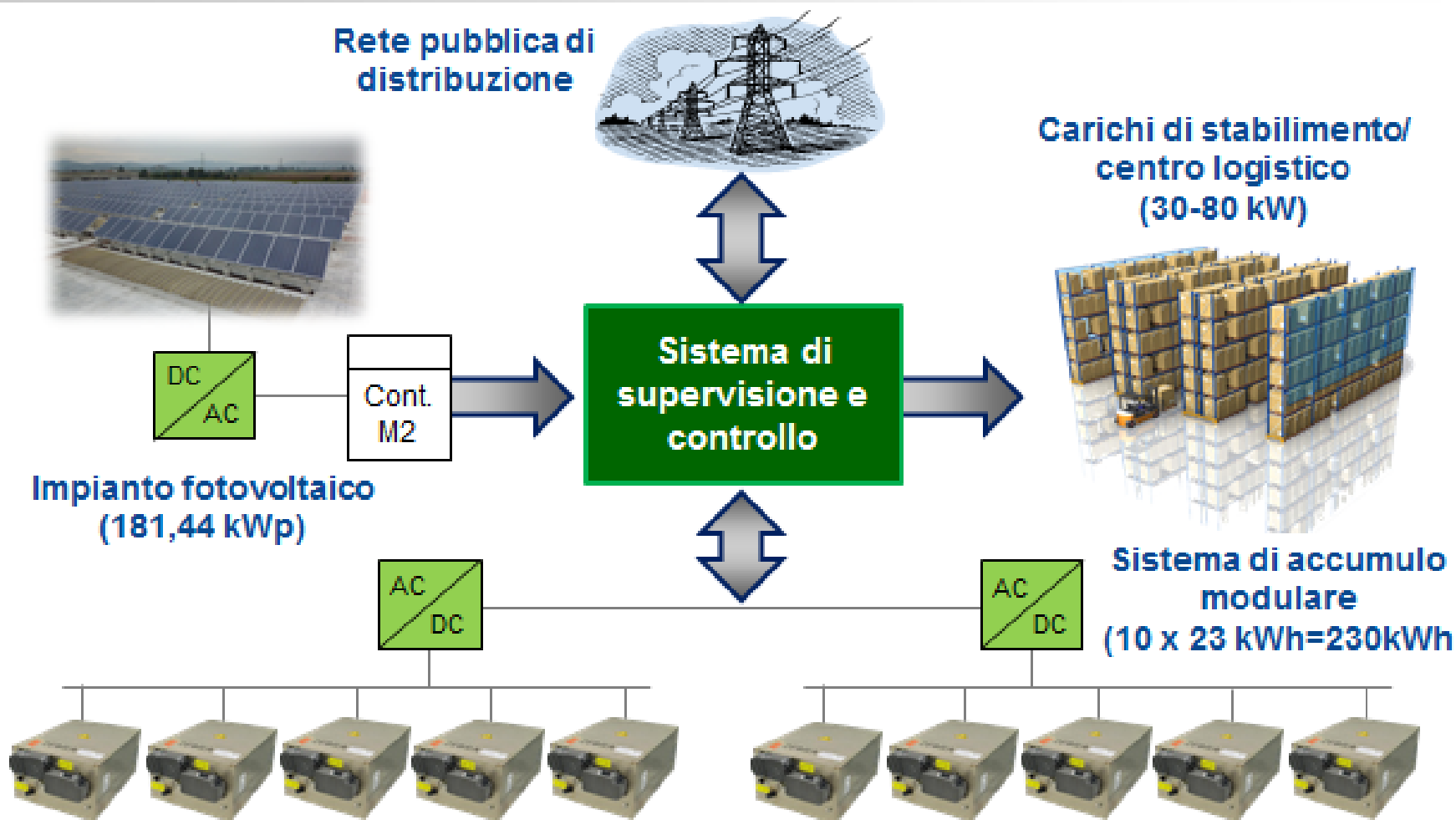
Vicenza Italy -2011



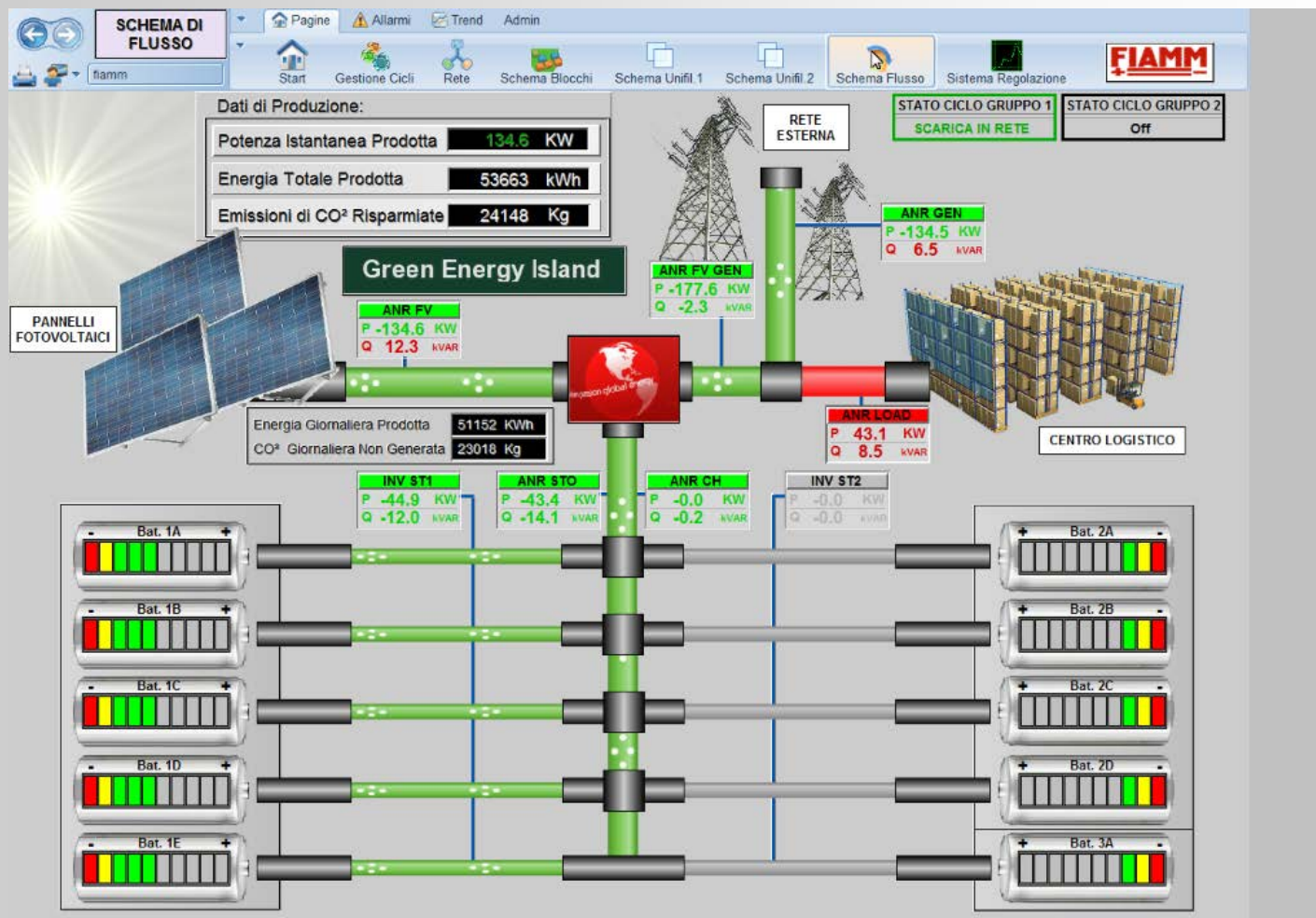


N° 2 Sunway™ TG 145 800V
N° 1 Sunway™ TG 42 800V
N° 1 Sunway™ TG 240 800V
TE

Schema principale



Schema di flusso



Schema a blocchi

