

Reference List: Ground Plants

NOVEMBER, 2013



Mildura | Australia

Location: Mildura – Australia

Commisioned: 2013

Power: 1.5 MW

Concentrated Solar Power PV plant



Nahorn Sawan | Thailand



Power: 126 MW
Commisioned: 2013
Inverter: 182 Sunway™ TG 610 OD
PV modules: LDK 50% and CSUN 50%.

Rainforest, tropical climate



Kathu Project | Kalahari Desert



Power: 81 MW

Commissioned: 2013

Customer: Building Energy

Inverters: 110 Sunway™ TG 750 1000V
55 Medium Voltage Trafo
1110 String boxes

Altitude: 1197 m above sea level in the Kalahari Desert

Key Notes:

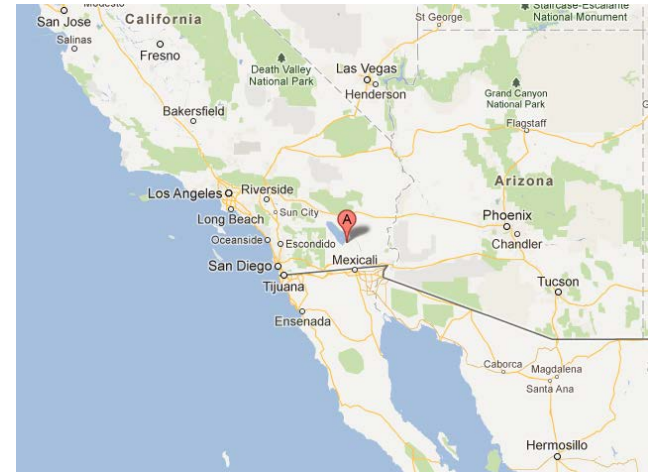
- Inverters delivery started in March 2013
- The delivery ended in August 2013
- Santerno has now one plant project manager and 2 resident technicians in South Africa
- Santerno is now negotiating an O&M contract for 5 /10/15 and 20 years



Imperial Valley | California – USA



Power: 265 MW
Commissioned: 2013
Inverters: n. 138 Skid Stations each with 2 Inverters
Total: 276 Sunway™ TG 760 1000V



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Podari | Romania

Power: 9,5 MW
Commisioned : 2012
Inverter: 10 Sunway™ TG 750 1000V



Kalenta | Grecia

Power: 5,44 MW

Commisioned : 2012

Inverter: 4 Sunway™ Station 1220 each with 2 Inverters
Total: 8 Sunway™ TG 730 800V TE – 270 OD



Amonix Lab | Denver, CO – USA



Power: 85 kWP

Commissioned: Jan 2012

EPC: Amonix / SolarTAC

Customer: Amonix

Modules: Amonix CPV two-axes tracker

Inverters: Santerno TG 100 NA

Notes:

- 210 high efficiency multi-junction cells
- ca. 30% module high efficiency
- 7 strings each tracker
- one single inverter (one MPPT) each tracker
- Active/reactive voltage / PF control
- UL 1741 compliant
- Scada monitoring system included



Linden | New Jersey – USA



Power: 200 kWp
Commissioned: 2011
Customer: ARE Sun Solar
Modules: Sunpower
Inverters: Santerno TG 100 NA

Notes:

American Renewable Energy (ARE) designs and installs cutting edge, highly efficient photovoltaic (PV) systems with components from leading global manufacturers for residential, commercial, and nonprofit customers.



Kutch Project | Gujarat – India



Power: 1 MW
Commissioned : Feb 2012
Customer: IVRCL Limited
Inverters: 2 Sunway™ TG 610 800V TE

Notes:

IVRCL operates in the following core infrastructure sectors:

- Water & Environment
- Transportation
- Buildings
- Power



Panchkula Project | Chandigarh – India



Power: 20 MW
Commissioned : Dec 2011
Customer: Solar Semiconductor
Inverters: 28 Sunway™ TG 750 1000V
300 String Boxes
with 4850 monitored strings

Notes:

The project location is situated about 7 km from (Ahmedabad-Kandla Port) National highway **Mouje Village Shivilakha** in Kutch district, State of Gujarat.

Latitude: 23°19'28' N
Longitude: 70°24'1'E
Altitude: 24 m above sea level



Piombino | Livorno – Italy

Power: 994.84 kWp
Commisioned : 2011
EPC: Renience Srl
Customer: Enerlive
Modules: LDK 220
Inverter: Sunway™ Station 1020



Shigatze | Tibet – China



Power: 10 MW
Commissioned : 2011
Customer: Linuo Group
Inverters: 12 Sunway™ TG750 900V TE

Notes:

- The plant is located in the regions of Shigatze, Tibet
- Altitude: 3.895m asl
- Atmospheric conditions of this type (desert area, altitude, strong sunlight) may subject the facility to non-optimal working conditions and require that the inverters are rugged and can withstand and manage these situations.



Casole d'Elsa | Siena – Italy

Power: 993.6 kWp
Commisioned : 2011
EPC: Renience Srl
Customer: Solatos
Modules: LDK 230
Inverter: Sunway™ Station 1020



Rapolano Terme | Siena – Italy

Power: 998.2 kWp
Commisioned : 2011
EPC: Renience Srl
Customer: Primasolar
Modules: LDK 230
Inverter: Sunway™ Station 1020



Casole d'Elsa | Siena – Italy



Power: 643.9 kWp
Commisioned : 2011
EPC: Renience Srl
Customer: Primasolar
Modules: LDK 235
Inverter: Sunway™ Station 620



Alfonsine and S. Alberto | Ravenna – Italy



Power: total cluster of 124 MW

Commissioned : 2010 - 2011

EPC: Tozzi Sud Spa

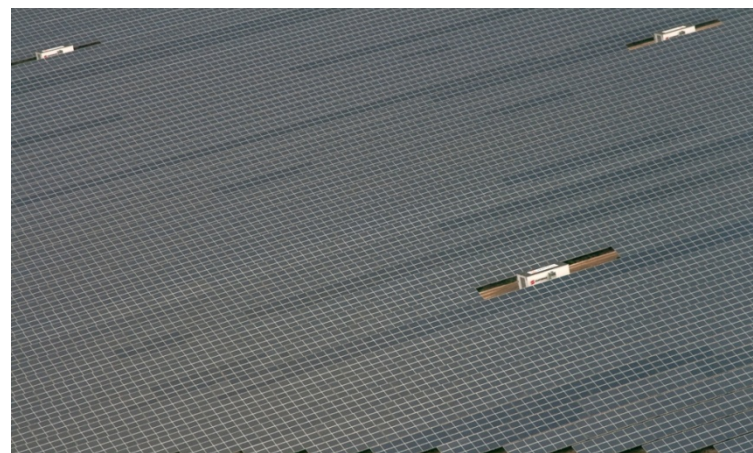
Customer: Terna

Inverters:

- **Project 1 San Alberto:** n. 42 Sunway™ Station 1.350 and 752 Smart String Box 1000V – Modules: Jinko
- **Project 2 Alfonsine:** n. 40 Sunway™ Station 1.350 and 560 Smart String Box 1000V – Modules: Trina

Key Notes:

- 97% availability and maintenance contract for 20 years warranty
- PV plant completed in five months thanks to SANTERNO plug-and-play solutions
- Bearing structure of the modules: galvanised steel and aluminium with no use of concrete (Supplied and installed by Schletter GmbH)
- Oil MV transformer
- Area size: total of 240 ha (2,4 Km²)
- Expected production: total of 148 GWh/year



Isola di Capo Rizzuto | Crotone – Italy

Power: 1.287 MWp
Commisioned : 2010
EPC: Renience Srl
Customer: Soc. Agricola Orrizontesole
Modules: Suntech 185
Inverters: 1 Sunway™ Station 820
1 Sunway™ Station 520



Bagnolo di Po | Rovigo – Italy

Power: 100 kWp
Commisioned : 2010
EPC: Elektra Group
Customer: Comune Bagnolo di Po
Modules: VPM Solar
Inverter: 1 Sunway™ TG 110 600V



Belgorod | Russia

Power: 100 kWp
Commissioned : 2010
EPC: LLC "VIECO"
Customer: ALT Energo Invest kft
Inverters: 2 Sunway™ TG 61 600V

Key Notes:

- The largest running PV plant in Russia
- SANTERNO was chosen as supplier due to the shortest delivery time for high-end inverters
- The project is the first PV station of its kind in in Russia, a good reference for any additional project
- New projects are already in the pipeline, capitalizing on SANTERNO's favourable market position in Russia
- Two Smart String Boxes with 24 inputs and two LED Displays



Corinaldo | Ancona – Italy

Power: 5.5 MW

Commisioned : 2010

EPC: General Building – IFE
Eriksen AG

Modules: 23.000 Aleo Avim

Inverters: 5 Sunway™ TG 750 900V TE
3 Sunway™ TG 730 800V TE



Golmud | Qinghai – China

Power: 10 MW

Commisioned : 2010

EPC: Longyuan Group

Inverters: 18 Sunway™ TG 730 800V TE
2 Sunway™ TG 750 900V TE

Notes:

- The facility was built by Longyuan, which is part of China Guodian Group (one of 5 major power companies in China).
- Longyan was established in 1993 and becoming a leader internationally.
- Longyan below 70% of businesses related to renewable energy of the parent company.
- The planned installed capacity by 2020 is 2GW



Soletto | Lecce – Italy



Power: 6 MW
Commisioned : 2010
Investor: HFV Novenergia
EPC: Ansaldo Energia
Inverters: 6 steel Sunway™ Station 1020



South Korea

Power: total of 3.1 MW (3 projects)

Commissioned : 2010

Customer & EPC: SR TECH CO., LTD

Inverters:

Project 1: Two PV Plants, 1 MWp each

3 SunwayTM TG 485 KR-800V

4 SunwayTM TG 385 KR-800V

Project 2: Two PV Plants, 400 kWp each

2 SunwayTM TG 385 KR-800V

1 SunwayTM TG 385 KR-800V

Project 3: Three PV Plants, 100 kWp each

1 SunwayTM TG 145 KR-800V

1 SunwayTM TG 145 KR-800V

Key Notes:

- Total installed capacity in 2010: 3.4 MW



Bagnolo di Po | Rovigo – Italy



| | |
|-------------------------|------------------------------|
| Power: | 5.6 MW |
| Connection date: | 2010 |
| Investor: | HFV Novenergia |
| EPC: | Ansaldo Energia |
| Inverters: | 5 steel Sunway™ Station 1020 |

Key Notes:

- Valued investors and EPC
- Realized in steel container, instead of cabinet (useful for transportation)
- Ansaldo belongs to the important Finmeccanica company and can be seen as key client



Corinaldo | Ancona – Italy

Power: 2.3 MW
Commissioned : 2009
EPC: General Building
Modules: 10.000 Aleo
Inverters: 12 Sunway™ TG 230 600V TE

Key Notes:

- The solar power plant produce clean energy for about 2.5 to 3 million kWh / year, saving about 1,500 tons of CO₂ to the atmosphere each year.
- Overall, the entire plant life cycle, the solar park will be able to save the atmosphere at least 30,000 tons of CO₂.



Cascina | Pisa – Italy

Power: 9.9 kWp
Commisioned : 2009
EPC: Sunglobal
Modules: 45 Aleo S18 220 Wp
Inverters: 3 Sunway™ M Plus 3600



Thermal Power Station | Sardegna – Italy

Power: 1.35 MW
Commisioned : 2009
Customer: E-On
Modules: Sunpower



Zello | Bologna – Italy



Power: 2 MW
Commisioned : 2009
Customer: CEIF
Inverters: 2 Sunway™ Station



Valfabbrica Plant | Valfabbrica, Perugia – Italy



Power: 999 kWp
Commisioned : 2008
EPC: Consorzio ABN
Customer: Ecosuntek SpA
Inverters: 3 Sunway™ TG 385 800V TE



Altomonte | Calabria – Italy

Power: 3.3 MW

Commissioned : 2008

Customer: Edison



Los Cabezos | Andalusia – Spain



Power: 1.89 MV
Commisioned : 2008
Customer: Ecostream



El Viso | Bogaris, Andalusia – Spain



Power: 1.89 MW
Commisioned : 2008
Customer: Ecostream



Puebla de Almoradiel | Toledo – Spain

Power: 1.6 MV
Commisioned : 2008
Customer: Gestamp – Asetym



Villanueva de Alcardete | Toledo – Spain



Power: 2 MW
Commisioned : 2008
Customer: Gestamp – Asetym



Fuente Alamo | Murcia – Spain



Power: 26 MW
Commisioned : 2008
Customer: Gestamp – Asetym
Inverters: 160 Sunway™ TG 145 800V
32 Sunway™ TG 385 800V



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Maials | Lleida – Spain



Power: 1 MW
Commisioned : 2008
Customer: Comsa
Inverters: 11 Sunway™ TG 135 600V



Calasparra | Murcia – Spain

Power: 20 MV

Commisioned : 2008

EPC: Gestamp – Asetym, (GA) Solar SA

Customer: GA Solar (new Fotowatio)

Modules: Trina Mainly and also Jetion, Yingli and Suntech

Inverters: 80 Sunway™ TG 145 800V
40 Sunway™ TG 385 800V



Tolentino | Macerata – Italy

Power: 7.3 MW
Commisioned : 2008
EPC: Sunpower
Customer: Api Nòva
Modules: Sunpower
Inverters: 4 Sunway™ TG 485 800V
2 Sunway™ TG 610 800V



Abanilla | Murcia – Spain



Power: 3.6 MW
Commisioned : 2007
Customer: Gestamp – Asetym
Inverters: 36 Sunway™ TG 145 800V



San Fernando | Reggio Calabria – Italy



Power: 1 MV
Commisioned : 2007
EPC: Sorgenia



Enna | Sicilia – Italy

Power: 1 MV
Commisioned : 2007
EPC: Sorgenia



Villacidro I-II | Sardegna – Italy

Power: 2 MV
Commisioned : 2007
EPC: Sorgenia



Benevento – Italy

Power: 1 MV
Commisioned : 2007
EPC: Sorgenia



Sahara | Tunisia

Power: 5 kWp
Commisioned : 2007
Inverters: 1 Sunway™ TG



Special water Company | Napoli – Italy



Power: 1 MW
Commisioned : 2005
EPC: Enel.SI



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Serre | Salerno – Italy



Power: 3 MV

Commisioned : 1994

EPC: Enel



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