Erfurt – Germany
1.96MW Photovoltaic Power Plant

PROJECT AT A GLANCE
Project Type
Photovoltaic Power Plant

Location
Erfurt, Germany

Customer
maxx-solar

Applications
Electric power production

Equipment Installed
PV Box including GT500E inverters, LV/MV transformers, MV switchgear

CUSTOMER BENEFITS
• A reliable and experienced partner
• Enhanced uptime thanks to qualified & reliable designs
• Fast execution: project completion in three months
• A single contact for the entire electrical balance of system
• Reduction of CO2 emissions avoided by replacing a conventional energy for clean energy

maxx-solar & energy is a German leading company in the solar photovoltaic industry, a specialist when it comes to roof - and ground mounted systems. The company has realized more than 1000 successful projects in the private and commercial sector in Germany.

The PV power plant in Erfurt Binderleben is one of the biggest in the region and it was constructed close to the airport with the objective to power an entire community of 800 single-family homes with a yearly production of approximately 1.8GWh. The installation is constructed on a former military ground where an energy efficient community of 8 family homes is also planned to be built. This community will contribute to the objective of the city of Erfurt to produce 10% of the consumed energy with PV power from local Power plants by 2020.

This installation consists of 8184 modules and an electrical balance of system delivered by Schneider Electric. Thanks to this installation approximately 1.100t of CO2 emissions will be saved.

maxx-solar & energy chose Schneider Electric for this project because of its ability to deploy the entire electrical balance of system with a plug and play solution making the installation and commissioning easier and more efficient and from one provider.

Another decisive factor was the positive and long-lasting relationship the project developer had to Schneider Electric, the quality of the solution and the know-how in large projects.
Solution:
- Turnkey power conversion substations, PV BOX
- 4 x GT500E inverters
- 3 winding Transformers 1000kVA 10-20kV/2x315V
- 3 kVA captive transformers
- MV Switchgear RM6 NE-DI
- 2 x Ground fault protection
- APC UPS System SURT2000XLI 2000VA 1400W for LVRT support
- Combiner Boxes
- Aluminum wiring

OTHER REFERENCES
- Ground-mounted installations :
  - Spain - Moratalla (10 MW)
  - France - Vinon Sur Verdon (4.2 MW)
  - France - Le Gabardan (20 MW)
  - France - St Clar (8.9 MW)
  - France - Les Mées 2 - Haute Montagne (12 MW)
  - Greece – Kourtesi (4.99MW)
  - Italy - Cellino San Marco - AES (43 MW)

- Buildings :
  - France – Istres (10.49MW)
  - France – Truck Etape (4.5MW)
  - La Réunion & Mayotte - 7 Casino stores (16 MW)
  - USA – Shoe Show (5.2MW)