



Noor Energy CSP – United Arab Emirates

Solar Power Plant using Central Tower and Parabolic Trough Technology

Project Description

- The plant consists of one central tower and three parabolic trough systems used to generate steam to feed the 4 steam turbines. Overall, the plant boosts electric power generation in UAE of up to 700 MW peak.



The project supports the Dubai Clean Strategy to increase clean energy to 25% overall by 2030 as well as reducing 2.4 million tons of CO2.

Role & Scope

A commissioning team with multidisciplinary commissioning proficiency and extensive resource capacity allows INP Schweiz to quickly adapt to technical challenges as well as stay vastly flexible on project schedule and support with additional staff when needed.

Electrical Power Installation Supervision, Commissioning and Consultancy

- Commissioning of Electrical Generator Protection System
- Commissioning of Generator Synchronisation System
- Commissioning of Transformer Protection System
- Commissioning of Automatic Voltage Regulator and Excitation System
- Commissioning of electrical Balance of Plant Systems
- Commissioning of Steam Turbine and Steam Turbine Controller System (cold & hot comm.)
- Commissioning of Steam Turbine Auxiliary Systems
- Commissioning of LV Frequency Converters

Technical Component Details

- 3 x 200 MW SST-500/800 (PT), 1 x 250 MW SST-700/900 (CT) Steam Turbines
- 7VE61, Siemens Siprotec-4 Synchronisation System
- 7UM62, Siemens Siprotec-5 Generator Protection
- 7SJ61, Siemens Siprotec-4 Transformer Protection
- Electrical LV/MV Distribution
- Siemens Thyripol-S Excitation System
- Movitrac B LV VFD's

REFERENCE



Customer: **Siemens Energy**



Location: **Dubai, UAE**



Project Duration: **24 months**



Services: **Installation
Supervision and Commissioning**

"I greatly appreciated the professional work on site of the INP Commissioning Team. Their good teamwork and customer cooperation was an important success factor for this project. It was a pleasure for all of us to work with INP Commissioning Engineers and I hope we can work with INP again in upcoming projects."

NICO J., SITE MANAGER
SIEMENS ENERGY