

Kirkuk GT Power Plant

Major overhaul and upgrade project

Project Description

- Maintenance & major overhaul on GT power plant
- Generator, starting frequency and excitation services



Kirkuk PP with its 3 GT units is an important pillar of the local infrastructure, supplying the city of Kirkuk with reliable electrical power since commissioning in 2005.

Role & Scope

Generator maintenance and fact finding

- Auxiliary system checks
- Rotor winding insulation test
- Generator bushing and cooling system inspection
- Stator winding polarisation index measurement
- Stator core inter lamination verification testing (ELCID)
- Partial discharge, dissipation factor ($\tan \delta$), charge-/discharge current measurement

Starting frequency converter and static excitation equipment (SFC/SEE) unit replacement and recommissioning

- Consultation on engineering material & documents
- Installation supervision
- Auxiliary supply checking and startup
- Software upgrade and parametrisation of SFC/SEE units
- Control and signal checking with overriding system
- Thyristor firing checks
- Full speed no load run
- Load & load rejection testing
- PSS tuning, grid compliance review

Highlights & Benefits

Great versatility paired with high flexibility as well as high technical proficiency enables INP to display its full power systems service potential in challenging environment such as Kirkuk power plant

Technical Component Details

- Siemens SGT-1000F GT 65MW
- Siemens SGT-4000F GT 265MW
- Siemens THRI 108/44-30 Generator
- Siemens 6RV80, Thyripol-3 SFC/SEE System



Customer: **Siemens Energy**



Location: **Kirkuk, Iraq**



Project Duration: **3 months**



Services: **Generator fact finding and maintenance testing, SFC/SEE replacement and re-commissioning**

"I'm proud to highlight that our adaptability and technical excellence enable us to deliver top services in this demanding environment."

IVO, DIVISION MANAGER
INP SCHWEIZ AG