

Umm Al Houl

Combined Cycle Power and desalination Plant

Project Description

Umm Al Houl Combined Cycle Power Plant is part of Qatar's biggest power and water projects and is located in the Qatar Economic Zone 3, south of the capital city of Doha. The power plant is able to supply up to 2.52GW of electricity and 590,000m³ (136 million gallons) of drinking water a day to 2.5m homes in the area. The plant is equipped with six Siemens SGT5-4000F gas turbines, four SST5-4000 steam turbines and 10 SGen5-1200A generators. It is divided into two power blocks with each block consisting of three gas turbines that operate two downstream steam turbines.

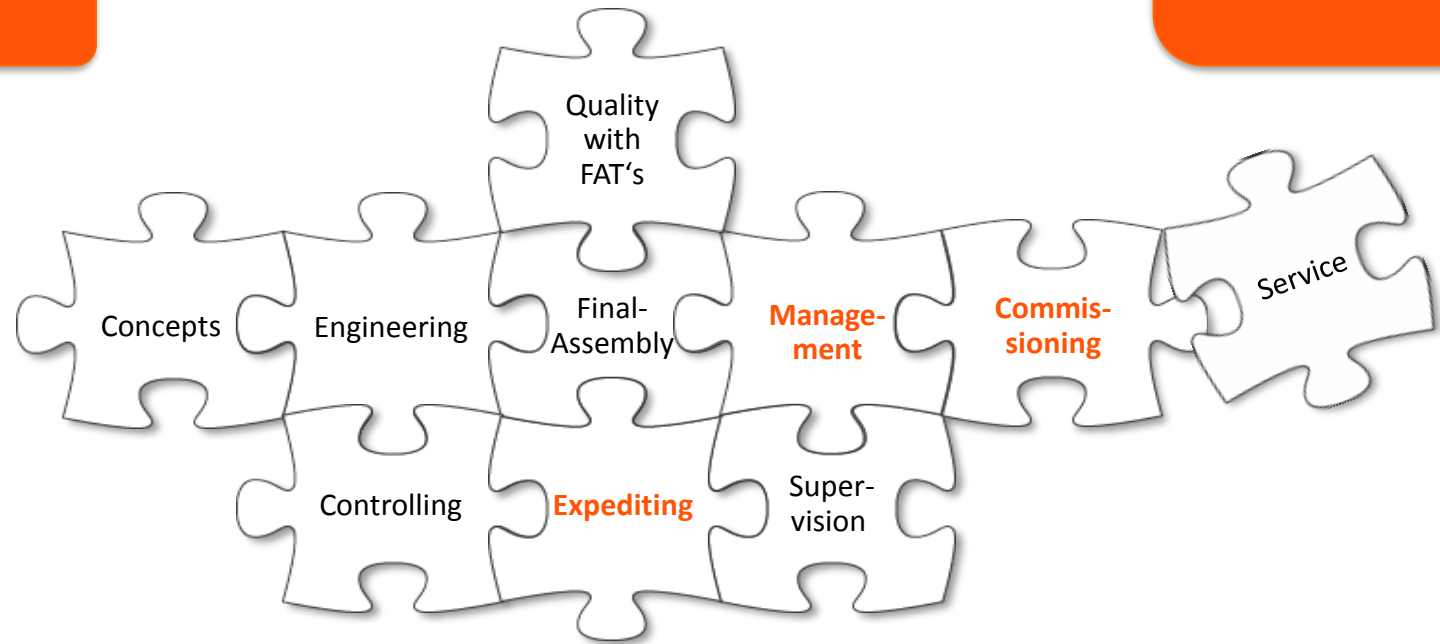


Role of INP Switzerland

INP supported Siemens to achieve PAC ahead of project schedule. The INP chief TFA (advisory commissioning manager) coordinated and managed the entire Siemens site team (power plant part) from construction to successful handover. Additionally, INP was also involved in the commissioning works and carried out the commissioning of the LV / MV / DC electrical systems, and the unit protection systems (generator and transformer protection) of the 10 units as well as the commissioning of the Siemens Thyripol T3 excitation system on two of the steam turbine units.

Smart E-Engineering Services

Flexibility throughout the project



- Coordination of project site team
- Commissioning of unit protection system
- Commissioning of excitation system
- Commissioning of electrical auxilliary systems



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