Taweelah Unit III Pumping Station
Abu Dhabi, U.A.E

Taweelah Unit III Water Pumping Station with Reservoir Storage Area. Unit III receives water from Taweelah Sea Water Distillation Plant and pumps it into the storage area at Unit IV respectively to the existing pressure distribution system.

The client was Abu Dhabi Water & Electricity Authority (ADWEA), U.A.E.

ABB was project consortium leader, the consortium being responsible for complete mechanical and electrical work (turnkey).
Technical Specification/Scope

- 3 pumps, Q max. = 700 m³/h, H = 7.2 m
- 3 pumps, Q max. = 4500 m³/h, H = 9.5 m
- 3 motors 125 kW / 0.415 kV
- 3 motors 1250 kW / 6.6 kV
- VSD’s 3 x 150 kVA, 415 V, 600-1485 rpm
- speed control by hydraulic coupling 320-970 rpm
- transformers 2 x 4000 kVA, 11 / 6.6 kV
- LV switchgear
- DC power supply 110 V / 24 VDC
- UPS uninterruptable power supply
- control system and cabling
- 70 km fiber optical cable / telemetry system
- mimic panel
- instrumentation: analyzer, flow, level, vibration, temp., pressure etc.
- chlorination system
- fire fighting system

The project was completed in December 1994.