

Open Cycle Gas Turbine Contracts

2006 - 2009



Balance of Plant (BOP) for Eskom, the South African power utility

Detailed design, procurement, construction and commissioning of the balance of plant for the Gas Turbine Power Stations:

- fuel unloading, treatment and forwarding systems
- fire protection and detection systems
- demineralised and potable water distribution systems
- compressed air system
- electrical power distribution system
- electrical, control and instrumentation design, procurement and installation using a Profibus network and EMH instruments
- supply fully documented construction records
- supply a full set of operating and maintenance procedures
- dedicated training for Eskom personnel on plant operations and maintenance

Piping Manufacture and Erection for SIEMENS

- 50 NB to 300 NB carbon and stainless steel piping
- workshop prefabrication and field installation (including all supports and hangers)

Mechanical Erection for SIEMENS

- 9 x 150 MW Siemens Gas Turbines - Atlantis and 5 x 150 MW Siemens Gas Turbines - Mossel Bay
- Installation of the power generating components including turbines, combustion chambers, generators and clutches using laser alignment equipment
- installation of all associated mechanical equipment, auxiliary and utility skids
- provision and management of experienced artisans
- Supply fully documented construction records
- Supply a full set of operating and maintenance procedures
- Dedicated training for Eskom personnel on plant operations and maintenance

Turbine Hall Erection for ROSHCON

- 1,800 tonnes of structural steel work
- 8,400 m² of sound proofing and environmental protection cladding
- support beams and rails for two 250 tonne overhead gantry cranes

Value: > \$100 Million

The Open Cycle
Gas Turbine
Power Stations
were built in
record time by
Lesedi!

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