



Ubungo Substation 33 kV switch gear

Dar es Salaam Gas Turbine Project Dar es Salaam, Tanzania

Client: Tanzania Electric Supply Company (TANESCO)

Installation of 2x20 MW emergency gas turbines generators at Ubungo substation, Dar es Salaam.

Services Rendered:

- Design
- Tendering
- Contract negotiations and signature
- Construction supervision

Project Key Data:

- Installation of a fuel tank farm
- 2*20 MW Gas-turbines
- 2*30 MVA Transformers
- Upgrading of 6 pcs. 33 kV bays

During the early nineties, Tanzania and East Africa experienced a severe power shortage, mainly due to drought in the region. TANESCO was compelled to introduce load shedding in order to reduce the power consumption to the actual power available.

As an emergency measure two Swedish-made gas turbines were installed, and the construction of a tank farm with a capacity of about 4,000 m³ for fuel storage.

The gas turbines were both prepared for future combined cycle operation.

The project covered detail design of a complete turnkey gas turbine generating plant, and design of all civil works such as site layout, control building, foundations, auxiliary, etc.

The assignment also included design of electrical and mechanical works with extension of two new 11/33 kV, 30 MVA transformers, outdoor 33 kV feeders, gantries, 11 kV indoor switchgear, control equipment, and auxiliary equipment.

As part of the Consultancy Services Contract an environmental impact assessment (EIA) was carried out.

Value of Services:

USD 0.7 million



Professional Staff:

5 man-months

Year:

1993 - 1994

Financing:
Sida and NORAD