

The image shows a massive industrial gas turbine engine. The upper portion of the engine is painted with alternating horizontal stripes of red and white. Below this, the engine is encased in a complex network of green-painted steel pipes and structural supports. The entire unit is situated within an industrial facility, with various pipes and structural elements visible in the foreground and background.

SEVERNAYA
400 MW
GAS COMBINED CYCLE
POWER PLANT



OWNER:
AZERENERGY
JOINT STOCK COMPANY

MAIN CONTRACTOR:
MITSUI – MITSUBISHI HEAVY
IND.

CONTRACT VALUE:
30,000,000 US \$

DATE OF CONTRACT:
22 September 2000

DATE OF COMPLETION:
15 November 2002

PROJECT LOCATION:
SHUVELAN
REPUBLIC OF AZERBAIJAN

SCOPE OF WORKS:

TML as the leader and sponsor of the TML-Borova Joint-Venture was entrusted with the main subcontract to execute all civil works, water intake, mechanical, electrical, instrumentation works and a 3 km. railway extension.



CONSTRUCTION WORKS:

- Turbine & Generator Building,
- Turbine & Generator Pedestals,
- HRSG Foundation,
- Tank Foundations,
- Ancilliary Equipment foundations,
- Water/Waste Water Treatment Buildings,
- Pump Pit & Pump House,
- Auxilliary buildings.

MAJOR CIVIL WORKS ITEMS:

- 700 No. RC Piles (400 mm square, 14 m deep),
- 100,000 m³ Earthworks,
- 20,000 m³ Reinforced Concrete,
- 2,000 Tons of Reinforcement,
- 40,000 m³ Formwork,
- 2,000 Tons of Steel Structure,
- 1,500 m Concrete Coated Steel Pipe in 1800 mm diameter,
- 7,000 m² Asphalt Works,
- 3,000 m² Dredging.

MARINE WORKS:

- Cooling Water Intake Channel,
- Discharge Outfall,
- Breakwater Structure.

RAILWAY WORKS:

- Design, Supply and Construction of 3 km. Railroad.

MECHANICAL INSTALLATION WORKS:

- Gas Turbine - 370 tons,
- Steam Turbine - 340 tons,
- Generator - 300 tons,
- HRSG - 1,615 tons,
- Piping - 3,000 tons.

ELECTRICAL INSTALLATION WORKS:

- Cabling 550 km.,
- Installation of Instrumentation (Indoor and Outdoor 3000 nos.)





DESIGN, SUPPLY & INSTALLATION OF:

- HVAC System,
- Telephone System,
- Lightning System,
- Well Water Supply System,
- Sewage Treatment Equipment,
- Dredging Equipment.

DESIGN, SUPPLY and ERECTION OF TANKS:

- 10,000 m³ Condensate Storage Tank,
- 5,000 m³ Fuel Storage Tank,
- 2,000 m³ Fire Water Tank,
- 200 m³ Well Water Tank,
- 60 m³ Potable Water Tank,
- Lube Oil Tank.

SUPPLY OF:

- Electrodes,
- Paint,
- Cables,
- Structural Steel,
- Ironmongery,
- Architectural Materials.

LEGEND OF PHOTOGRAPHS:

- 1- HRSG
- 2- Turbine & Pedestal
- 3- Water Treatment Plant
- 4- Interior of W. Treatment Plant
- 5- Compressor Shed
- 6- Pipe Rack
- 7- Overall View
- 8- Start-up Boiler
- 9- Railway Extension
- 10- Fuel Pumps
- 11- Control Room
- 12- Piping Works-Inside TG Building
- 13- Piping Works-Inside TG Building
- 14- Gas Turbine & Generator
- 15- Intake Channel & Pump house
- 16- Pump House
- 17- Gas Turbine
- 18- Intake Pumps
- 19- Heavy Lift of Turbine





TML completes this 400 MW Gas Combined Cycle Power Plant in 2002, marking the thirtieth year of its principals professional co-operation.

After years of international contracting in Libya, Saudi Arabia, Tunis, Iran and Russia, in 1966 TML moved into the Azerbaijan construction market and have completed and delivered to their owners:

- An Office and Apart Hotel Complex measuring 22,000 square meters, currently the tallest building in Baku,
- A Supermarket and its warehouses,
- A Built-It-Yourself store,
- A Training center for an Oil sector multinational,
- An underground parking garage in the city center and
- A 400 MW Power Plant,

And is presently continuing construction; mechanical and electrical installation works at

- Renovation and extension works at a SPS offshore platform manufacturing shipyard
- A compressor station on the gas pipeline delivering gas to the Severnaya Power Plant.

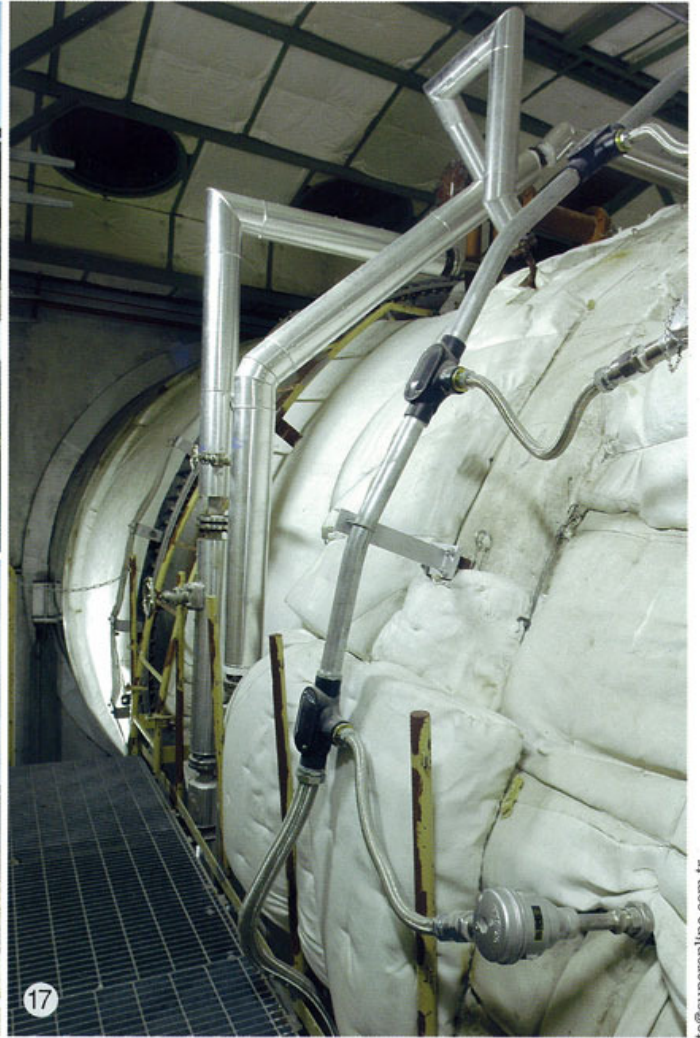
Today, **TML İNŞAAT SAN. TİC. ve TUR A.Ş.**, awarded with an **ISO 9001** certificate continues to serve its clientele, in Turkey, Libya, Georgia and Azerbaijan, in the fields of **Building** construction, **Process and Power Plant** construction and assembly, **Heavy Civil** works (Bridges, Roads, Tunnels, Infrastructure works), **Environmental Engineering** and **Construction Management**.



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photograph by ersin alok phone: (+90-212) 249 13 09 e-mail: alokphoto@superonline.com.tr



TML İNŞAAT SANAYİ TİCARET VE TURİZM A.Ş.
Adres: Çavuşbaşı Caddesi, No: 33 Kavacık 34810 İstanbul
Tel: (0216) 413 33 39 Fax: (0216) 413 13 22
tml@tml.com.tr www.tml.com.tr

