Teknokon Group Highlights

Founded in 1993

Full-fledge Engineering, Manufacturing, Construction and Maintenance Services for Industrial Plants


10,000 m² Manufacturing Plant and and 3,000 m² Maintenance Workshops

Ranked 6th In Turkey’s fastest growing companies

Over 1,000 employees in payroll In Head Office, Plants and Sites

Completed over 100 Industrial Construction Projects

Undertaken contracts in Russia, Turkmenistan, Georgia, Iraq, Cuba, Kazakhstan

Exported thousands of equipment to over 40 countries

Over 3 million manhours yearly
Teknokon Group at a Glance

- 1993: Teknokon Machinery was founded
- 1995: First contract over USD 1 Million
- 1996: First overseas contract over USD 10 Million
- 2000: Implementation of ISO 9001 quality management
- 2001: Teknokon founded was in Russia
- 2002: Became the first Turkish contractor in Cuba
- 2004: Teknomont Construction was founded
- 2006: Teknopur was founded
- 2008: First 400 MW and 800 MW power plant mechanical erection contracts
- 2009: Teknokon Industry was founded
- 2011: A strategic partnership is established with Enerpion for EPC services for energy, environmental and water projects. Tek Design was founded
- 2013: Teknokon Maintenance, and Teknokon International and Teknokon Kazakhstan were opened
- 2014: Teknokon Group organizational restructuring is completed
- 2017: First project in Europe
- 2018: Moved to its own premises in Gebze Industrial Zone
- 2020: First full-scale refinery unit construction contract
Teknokon Group Companies

- **Teknokon**
  - Design and fabrication of industrial process equipment

- **Teknokon ENDÜSTRİ**
  - Undertaking of lump sum turnkey industrial construction projects

- **Teknomont**
  - EPC services for energy, environmental and water projects

- **Teknopur ISP**
  - Turnkey scaffolding services

- **Teknokon SERVIS & BAKIM**
  - Large spectrum maintenance services for industrial plants

- **Tkn DIZAYN**
  - Design and Engineering service for industrial plants
Teknokon Group Activity Fields

- Detail Engineering
- Procurement and Material Management
- Fabrication of Process Equipment
- Infrastructural & Civil Works
- Mechanical Erection
- Piping Pre-Fabrication & Erection
- Electrical & Instrumentation Works
- Scaffolding
- Commissioning & Start Up
- Maintenance and Turn-Arounds
Teknomont at a Glance

• Established at 2010

• Mandated to execute turnkey energy, environment and water projects based on the strategic partnership between Teknokon Industry with experience of about 7000 MW and Enerpion having individual experience of about 15000 MW

• Interested in new power generation plants, rehabilitation of the existing plants and energy transmission projects

• Aims to establish relations based on long term and trust with the clients in the Middle East, Commonwealth of Independent States (CIS) and Africa
EPC Services

- Turnkey thermal power plants - simple and combined cycle gas plants, steam plants, combined heat and power plants
- Rehabilitation of power generation plants
- Turnkey solution partnership in refinery facilities
- Turnkey renewable energy production facilities - solar, wind and geothermal
- Turnkey substations and transmission lines
- Turnkey waste-to-energy system plants
- Turnkey waste disposal facilities
- Turnkey solution partnership in petrochemical plants
- Turnkey solution partnership in oil & gas plants
- Turnkey water generation and transmission facilities
EPC Execution Methodology

We are committed to execute all types of large-scale power generation projects, as well as rehabilitation of them providing the complete range of Engineering, Procurement and Construction (EPC) services which are needed to successfully deliver turn-key projects to its clients, either as a main contractor, or in consortium with leading OEMs.

The scope of Engineering ranges from the conceptual design of the plant to the full detailed design of all aspects of the plant:

- In house conceptual Design capability at the Bidding Stage of the Power Plant Projects
- Basic & Detailed Engineering through reputable International Engineering Companies
- Interface Management between Owner, Engineering Companies, Suppliers and Subcontractors
- Review of Equipment Specifications and Design for the compliance with Project engineering requirements

The scope of Procurement includes all aspects of procuring and expediting the delivery of all equipment, bulk materials and services required for the successful execution of complex projects in the energy industry:

- Worldwide purchasing through qualified suppliers
- Expediting & Inspection, which provides vendors monitoring services, through internal and hired resources
- Full range of logistic services as required to ensure timely receipt of materials at site.

The scope of Construction covers the activities of on-site erection, testing and commissioning of the plant, extending up to completion of the warranty period:

- In house Construction Management Team
- Prefabrication & Installation Services through sister companies in the Teknokon Group where applicable
- Civil Construction through qualified subcontractors
- Full range of Commissioning with the support of OEM Technical Advisory Services
Strengths

• 20,000 MW extensive EPC experience
• Comprehensive command for EPC expert network in Turkey our skilled workforce
• Full command of worldwide sourcing channels
• Tested and proven execution procedures
• Close contact with reputable Engineering Design firms and OEMs
• Committed to setting high level of quality for customer satisfaction
• Ensuring the health and safety of all personnel as well as protection of the environment

Competitive Advantages

• Reluctance of existing EPC’s
• Lack of capable firms having worldwide experience in minor rehabilitation and transmission projects
• Willingness to work in relatively unsafe and difficult geographical locations unlike other large scale companies
GROUP REFERENCE PROJECTS

POWER PROJECTS
Total Experience of about 7000 MW

OMV Samsun, 880 MW COMBINED CYCLE POWER PLANT / Samsun, Turkey
RWE & TURCAS South Power Generation, 775 MW COMBINED CYCLE POWER PLANT / Denizli, Turkey
OGK-4 / E-on, 400 MW COMBINED CYCLE POWER PLANT / Shatura, Russia
OGK-4/E-on, 800 MW COMBINED CYCLE POWER PLANT / Surgut, Russia
GAMA POWER SYSTEMS ENGINEERING and CONTRACTING INC. 840 MW COMBINED CYCLE POWER PLANT/ Kırıkkale, Turkey
CENGİZ ENERGY 600 MW COMBINED CYCLE POWER PLANT/ Samsun, Turkey
ZORLU ENERGY COMBINED CYCLE POWER PLANT / Moscow, Russia
SIEMENS Bandırma-II 600 MW COMBINED CYCLE POWER PLANT / Bandırma, Turkey
ACWA POWER 950 MW COMBINED CYCLE GAS TURBINE / Kırıkkale, Turkey
**EPC EXPERIENCE OF MANAGEMENT TEAM**

Total experience of about 15000 MW in 12 countries

<table>
<thead>
<tr>
<th>Project</th>
<th>Technology</th>
<th>Location</th>
<th>Total MW</th>
<th>EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kırıkkale Diesel Engine Combined Cycle Power Plant</td>
<td>DPP</td>
<td>Turkey</td>
<td>150</td>
<td>11 Wartsila Engines</td>
</tr>
<tr>
<td>Ayen Ostim Combined Cycle Power Plant</td>
<td>CCGT</td>
<td>Turkey</td>
<td>35</td>
<td>GE LM2500 GTG</td>
</tr>
<tr>
<td>Samra Combined Cycle Power Plant</td>
<td>CCGT</td>
<td>Jordan</td>
<td>300</td>
<td>GE 9E GTG + FUJI STG</td>
</tr>
<tr>
<td>Tynagh Combined Cycle Power Plant</td>
<td>CCGT</td>
<td>Ireland</td>
<td>400</td>
<td>GE 109FA Multi-shaft</td>
</tr>
<tr>
<td>Çumra Sugar Factory Power Plant</td>
<td>TPP</td>
<td>Turkey</td>
<td>16</td>
<td>2 Units of CFB Boiler + SIEMENS STG</td>
</tr>
<tr>
<td>Isdemir 6&amp;7 Steam Boiler Project</td>
<td>TPP</td>
<td>Turkey</td>
<td></td>
<td>2 Units of Babcock PC Boiler</td>
</tr>
<tr>
<td>Whitegate Combined Cycle Power Plant</td>
<td>CCGT</td>
<td>Ireland</td>
<td>450</td>
<td>GE 109GB Single Shaft</td>
</tr>
<tr>
<td>Shatura Combined Cycle Power Plant</td>
<td>CCGT</td>
<td>Russia</td>
<td>400</td>
<td>GE 109FA Single-shaft</td>
</tr>
<tr>
<td>Surgut Combined Cycle Power Plant</td>
<td>CCGT</td>
<td>Russia</td>
<td>800</td>
<td>GE 109FA Single-shaft</td>
</tr>
<tr>
<td>Skopje Combined Heat and Power Plant</td>
<td>CHP</td>
<td>Macedonia</td>
<td>220</td>
<td>ALSTOM GT13E2 GTG + ALSTOM STG</td>
</tr>
<tr>
<td>Riga Combined Heat and Power Plant</td>
<td>CHP</td>
<td>Latvia</td>
<td>450</td>
<td>GE9FB GTG + SIEMENS STG</td>
</tr>
<tr>
<td>Erzin Combined Cycle Power Plant</td>
<td>CCGT</td>
<td>Turkey</td>
<td>850</td>
<td>GE 209FB Multi-shaft with SKODA STG</td>
</tr>
<tr>
<td>Khabat Oil Fired Thermal Power Plant</td>
<td>TPP</td>
<td>Iraq</td>
<td>300</td>
<td>Doosan Boilers + SIEMENS STG</td>
</tr>
<tr>
<td>Hamitabat Combined Cycle Power Plant</td>
<td>CCGT</td>
<td>Turkey</td>
<td>1200</td>
<td>SIEMENS 8000H Single-shaft Units</td>
</tr>
<tr>
<td>Boufarik Simple Cycle Power Plant</td>
<td>SCPP</td>
<td>Algeria</td>
<td>750</td>
<td>GE 9FA GTG</td>
</tr>
<tr>
<td>Kazanskaya Combined Heat and Power Plant</td>
<td>ChP</td>
<td>Tatarstan</td>
<td>390</td>
<td>GE 9HA.01 GTG</td>
</tr>
<tr>
<td>Hartha Thermal Power Plant Unit-4 Rehabilitation</td>
<td>TPP</td>
<td>Iraq</td>
<td>200</td>
<td>MHPS Boiler + STG</td>
</tr>
<tr>
<td>Kırıkkale Combined Cycle Power Plant</td>
<td>CCGT</td>
<td>Turkey</td>
<td>840</td>
<td>GE 209FB Multi-shaft</td>
</tr>
<tr>
<td>Riyadh PP13 Combined Cycle Power Plant</td>
<td>CCGT</td>
<td>S.Arabia</td>
<td>1800</td>
<td>GE 7FA GTG</td>
</tr>
<tr>
<td>Alba PS5 Combined Cycle Power Plant</td>
<td>CCGT</td>
<td>Bahrain</td>
<td>1800</td>
<td>GE 9HA.01 GTG + GE STG</td>
</tr>
<tr>
<td>Rades C Combined Cycle Power Plant Project</td>
<td>CCGT</td>
<td>Tunisia</td>
<td>450</td>
<td>MHPS F7 GTG + MHPS STG</td>
</tr>
<tr>
<td>Hartha Thermal Power Plant Unit-1 Rehabilitation</td>
<td>TPP</td>
<td>Iraq</td>
<td>200</td>
<td>MHPS Boiler + STG</td>
</tr>
<tr>
<td>Project</td>
<td>Location</td>
<td>Substation Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
<td>---------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>400kV AIS Substation for Kırıkkale 840 MW Combined Cycle Power Plant</td>
<td>Turkey</td>
<td>400kV AIS, Double Busbar + Transfer Busbar, 8 Feeders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>400kV AIS Substation for Erzin 870 MW Combined Cycle Power Plant</td>
<td>Turkey</td>
<td>400kV AIS, Double Busbar + Transfer Busbar, 8 Feeders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>220kV AIS Substation for Tynagh 400 MW Combined Cycle Gas Power Plant</td>
<td>Ireland</td>
<td>220kV AIS, H Type 3 CB with Coupling Disconnectors, 3 Feeders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>154kV AIS Substation for Kırıkkale 150 MW Diesel Engine Combined Cycle Power Plant</td>
<td>Turkey</td>
<td>154kV AIS, Double Busbar, 8 Feeders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>220kV Hybrid Substation for Boufarik 750 MW Simple Cycle Power Plant</td>
<td>Algeria</td>
<td>220kV Hybrid Substation, H 5CB Type, 5 Feeders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>132kV AIS Substation for Khabat 300 MW Oil Fired Power Plant</td>
<td>Iraq</td>
<td>132kV AIS, Double Busbar, 8 feeders, 13 Feeders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>380kV and 132kV GIS Substation for PP13 1800MW Combined Cycle Power Plant</td>
<td>Kingdom of Saudi Arabia</td>
<td>380kV and 132kV GIS, One&amp;Half CB Type in 380 kV, Double Busbars in 132 kV, 10 Diameters in 380 kV, 30 Feeders + Coupler in 132 kV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>400kV AIS Substation extension for Hamitabat 1200 MW Combined Cycle Power Plant</td>
<td>Turkey</td>
<td>400kV AIS, Double Busbar + Transfer Busbar, 2 Feeders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>220kV &amp; 110kV AIS Substation extension for Kazanskaya 390 MW Simple Cycle Power Plant</td>
<td>Russia</td>
<td>220kV &amp; 110kV AIS, Double Busbars + Transfer Busbar in 220 &amp; 110 kV, 2 x 220 kV Feeders, 1 x 110 kV Feeder</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
GROUP REFERENCE PROJECTS

OIL & GAS PROJECTS

Tüpraş DHP / HDS / SRU Process & Utility Systems / Kirikkale, Turkey
Tüpraş CCR Izometrization Unit, Hydrotreater and CCR Unit / Izmir, Turkey
Tüpraş Aliaga GSIP Project / Izmir, Turkey
BP / Ataş Refinery / Terminal Conversion Project / Mersin, Turkey
Batumi Oil Terminal Railcars, Unloading and Storage Terminal / Batumi, Georgia
OMV POAS Trabzon Distribution and Storage Terminal / Trabzon, Turkey
Tüpraş Rail & Road Trucks, Unloading and Storage System / İzmit, Turkey
Opet Petrol Jetty Transfer Lines and Unloading Arms / M.Ereğlisi, Turkey
Ministry of Natural Resources
Oilfield Services Company (OSC) Registration & AVL Listing System
OSC Registration License

The license has satisfied the minimum OSC Registration & AVL Listing System General Registration Standard (as prescribed in Ministerial Instruction No. 57 of 2014). By issuing this license, the license permits the licentiate to provide certain services to the Ministry of Natural Resources, Petroleum Companies and Umbrella Operators in the Kurdistan Region of Iraq, as defined by those Approved Authorities (Joint Arrangements) and in accordance with the terms and conditions the license is issued to.

Date of Issuance: 25 October 2018
Date of Expire: 25 October 2019
Registration No: 109733

Signature of the Director General
Signature of the Director of the Oilfield Services Company
TEKNOKON GROUP REFERENCE PROJECTS
OMV Samsun, 880 MW COMBINED CYCLE POWER PLANT

Client: METKA
Location: Samsun, Turkey
Status: Completed
Configuration: 2 Single Shaft Combined Cycle Units
Technology: GE 2 x 109 FB
Our role: Construction Partner
RWE & TURCAS South Power Generation, 775 MW COMBINED CYCLE POWER PLANT

Client: METKA
Location: Denizli, Turkey
Status: Completed
Configuration: 2 Blocks of Multi-Shaft Combined Cycle Units
Technology: 2 x SIEMENS SGT5 - 4000F GTG + 1 x SIEMENS STG
Our role: Construction Partner
OGK-4/E-on, 800 MW COMBINED CYCLE POWER PLANT

Client: GAMA-GE Consortium
Location: Shatura, Russia
Status: Completed
Configuration: 1 Block of Single-Shaft Combined Cycle Unit
Technology: GE 109FA
Our role: Construction Partner
**OGK-4/E-on, 800 MW COMBINED CYCLE POWER PLANT**

<table>
<thead>
<tr>
<th>Client</th>
<th>GAMA-GE Consortium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Surgut, Russia</td>
</tr>
<tr>
<td>Status</td>
<td>Completed</td>
</tr>
<tr>
<td>Configuration</td>
<td>2 Blocks of Single-Shaft Combined Cycle Unit</td>
</tr>
<tr>
<td>Technology</td>
<td>2 x GE 109FA</td>
</tr>
<tr>
<td>Our role</td>
<td>Construction Partner</td>
</tr>
</tbody>
</table>
GAMA İÇ ANADOLU 840 MW COMBINED CYCLE POWER PLANT

Client: GAMA-GE CONSORTIUM
Location: Kırıkkale, Turkey
Status: Completed
Configuration: 2 Blocks of Multi-Shaft Combined Cycle Units
Technology: GE 209FB
Our role: Construction Partner
CENGİZ ENERGY 600 MW COMBINED CYCLE POWER PLANT HRSG & BOP

Client: Cengiz Energy
Location: Samsun, Turkey
Status: Completed
Configuration: 1 Block of Single-Shaft Combined Cycle Unit
Technology: SGT5-8000H Gas Turbine + SST5-5000 Steam Turbine
Our role: Construction Partner
ZORLU ENERGY 230 MW TERESHKOVO COMBINED CYCLE POWER PLANT

Client: Zorlu Energy
Location: Moscow, Russia
Status: Completed
Configuration: 3 Blocks of Multi-Shaft Combined Cycle Units / 180 MWe+230MWth
Technology: 3 x GE LM-6000 GTG + 1 GE STG
Our role: Construction Partner
SIEMENS Bandırma-II 600 MW COMBINED CYCLE POWER PLANT

Client: Siemens
Location: Bandırma, Turkey
Status: Completed
Configuration: 1 Block of Single-Shaft Combined Cycle Unit
Technology: SGT5-8000H Gas Turbine + SST5 - 5000 Steam Turbine
Our role: Construction Partner
ACWA POWER 950 MW COMBINED CYCLE GAS TURBINE

Client: ACWA POWER
Location: Kırıkkale, Turkey
Status: Completed
Configuration: 2 Blocks of Single-Shaft Combined Cycle Unit
Technology: 2 x Alstom GT26 GTG + Alstom STG
Our role: Construction Partner
Tüpraş DHP / HDS / SRU
Process & Utility Systems

Client: Alsim-Alarko
Location: Kirikkale, Turkey
Status: Completed
Scope: Structural Steel and Piping Erection
Our role: Construction Partner
Tüpraş CCR Izometrization Unit, Hydrotreater and CCR Unit

Client: Tüpraş
Location: İzmir, Turkey
Status: Completed
Scope: Prefabrication and Site Erection of Process & Utility Piping
Our role: Construction Partner
Tüpraş Aliağa GSIP Project

Client: Tüpraş
Location: İzmir, Turkey
Status: Completed
Scope: Civil Works, Structural Steel & Piping  
         Erection, Equipment Installation
Our role: Construction Partner
BP / Ataş Refinery / Terminal Conversion Project

**Client:** BP Ataş  
**Location:** Mersin, Turkey  
**Status:** Completed  
**Scope:** Civil Works, Equipment Installation, Piping Erection  
**Our role:** Construction Partner
Batumi Oil Terminal Railcars, Unloading and Storage Terminal

Client: Petroleum Capital Equipment Ltd.
Location: Batumi, Georgia
Status: Completed
Scope: Design & Engineering, Civil Works, Structural Steel & Piping Erection, Equipment Installation, Insulation, E&I
Our role: Construction Partner
OMV POAS Trabzon Distribution and Storage Terminal

Client: Petrol Ofisi (OMV)
Location: Trabzon, Turkey
Status: Completed
Scope: LSTK Design, Supply and Erection of Loading and Automation systems
Our role: Construction Partner
Tüpraş Rail & Road Trucks, Unloading and Storage System

Client: Tüpraş
Location: İzmit, Turkey
Status: Completed
Scope: Civil Works, Structural Steel & Piping
        Erection, Equipment Installation, E&I
Our role: Construction Partner
Oil & Gas

Opet Petrol Jetty Transfer Lines and Unloading Arms

Client: OPET A.Ş.
Location: Marmara Ereğlisi, Turkey
Status: Completed
Scope: Structural Steel & Piping Erection, Equipment Installation
Our role: Construction Partner