





















TEMSAN

It is affiliated to Ministry of Energy and Natural Resources and is State Owned Enterprise (The Decree of the Council of Ministers dated 13.11.1975 and numbered 7/10907)

General Directorate of TEMSAN has been providing service in its premises at Yenimahalle district in ANKARA since 1985.

Ankara Factory

Ankara Factory is located near premises of General Directorate of TEMSAN.

98.349 m² Area

25.889 m² Closed Area

16,000 m² Production Hall



Diyarbakır Factory

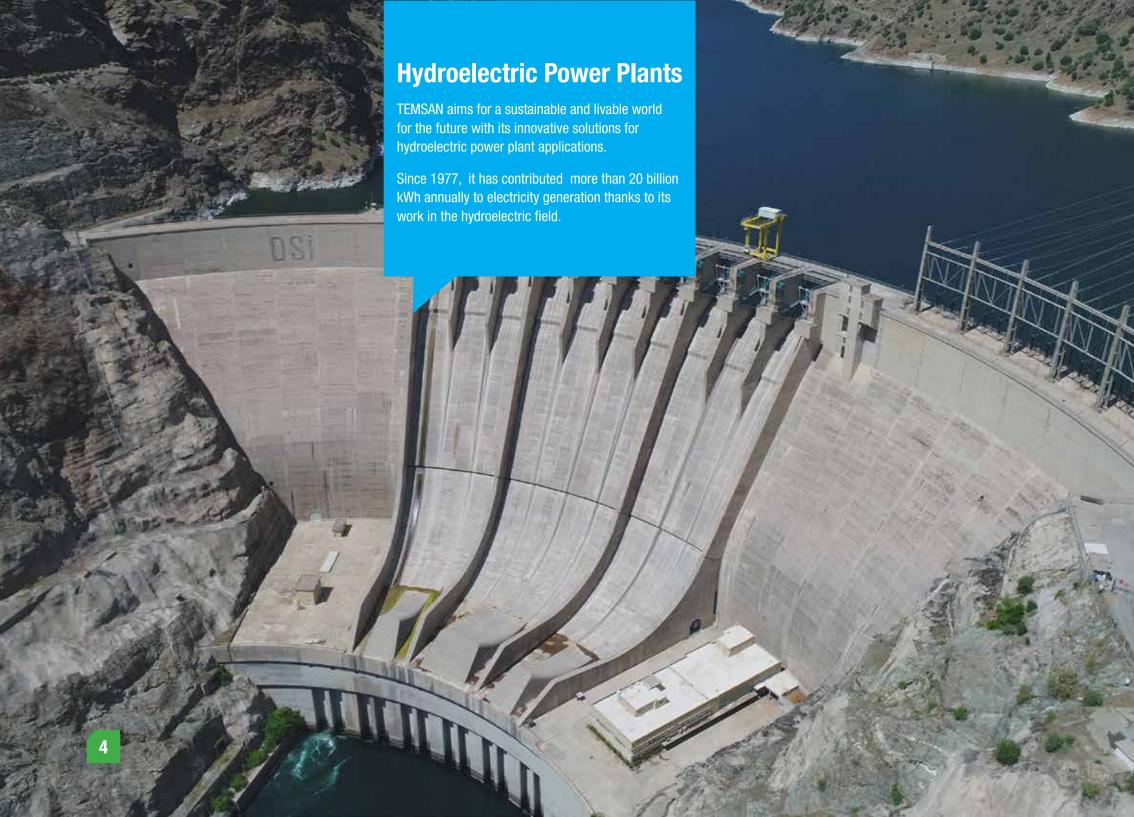
Diyarbakır Factory consisting of welded assembly hall, manufacturing hall for turbine and manufacturing hall for generator was established in 1982.

30.000 m² Closed Area

13.000 m² Production Hall

100 MW Annual Production Capacity







ENERGY SYSTEMS AND MISCELLANEOUS INDUSTRY ACTIVITIES



- > Manufacturing all kinds of turbines, generators and transformers
- > Manufacturing all kinds of pressure boilers and tanks as well as steam boillers
- Preparing construction projects and contracting
- > Steel construction works and building machinery
- > Project design, manufacturing and installation of energy transmission lines and similar equipment
- > Project design and installation of all kinds of automation systems on turnkey basis
- > Project design of switchgear and their equipment and fields on turnkey basis
- > Manufacturing electric motors and pumps
- Manufacturing and trading of all kinds of equipment for power generation, transmission and distribution
- Conducting commercial activities for the needs of the power plants such as project design and feasibility studies for power plants, manufacturing and provision of the equipment needed, erection of such plants, rendering consultancy and supervision services, testing commissioning and all kinds of maintenance, repair and rehabilitation works
- Contracting in goods, services, consultancy and construction projects for power generation, transmission, storage and distribution plants and industrial plants and carrying out testing, R&D and M&D activities for equipment and systems used in these plants
- Carrying out project approval and acceptance procedures on behalf of the Ministry for the licensed and unlicensed power generation plants depending on the power output and type determined by the Ministry
- Establishing accredited testing laboratories and rendering laboratory services needed in energy industry
- Preparing reports and conformity certificates for tested and manufactured products and rendering consultancy, counselling, supervision, reporting, testing and similar services in regard to the matter for state organisations and institutions and private sectors

R&D

HYDRAULIC TURBINE DESIGN

In our firm, designs of hydraulic turbines of different types (reaction and impulse) and model and function tests of impulse type turbines are performed. Analytical studies are carried out to increase the efficiency of the turbines developed by our firm and these studies are tested in real environment in TEMSAN turbine test station. Calculation, design and analysis are performed with HAD and Structural Analysis programs to ensure that they work in the most efficient manner.

MANUFACTURING TECHNOLOGY

Manufacturing technologies change with the developing technology. Our company closely follows the current developments and conducts researches and tests on innovative manufacturing technologies to be used in the sector. In this context, Pelton Turbine runner has been produced by using carbon fiber material by layered production technique and carried out its mechanical tests.

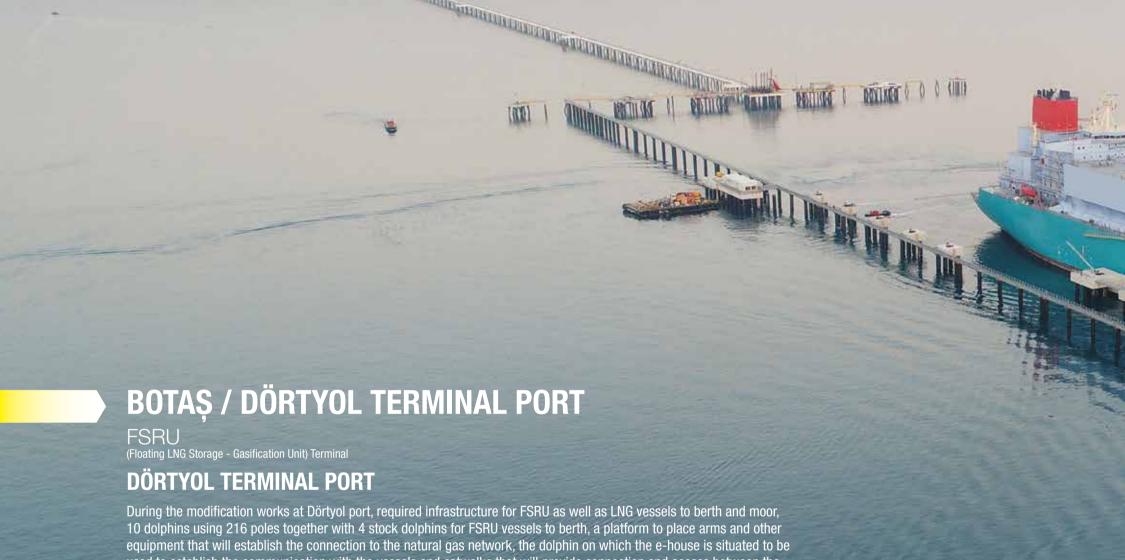












used to establish the communication with the vessels and catwalks that will provide connection and access between the dolphins and the platform was provided.

Distance of the platform constructed to the land is 1820 meters and farthest point of the port is 2200 meters away from the land.

The natural gas pipeline of 2 km in length and 30 inch in diometer is installed under the sea.



1800 MW

It is 3rd largest power plant of Turkey with an installed capacity of 1800 MWe.

Second Largest It is 2nd largest hydroelectric power plant (HEPP) of

Turkey.

5720 mm

The diameter of turbine runner of power plant having the largest turbine runner in Turkey is 5720 mm.

7.500.000.000 kWh

It can meet all electrical energy requirements which 2.000.000 people need in their daily life (housing, industry, metro, government office, environmental luminance etc.).

6x300 MW

Nominal Flow rate: 235 m³/s

Net Head: 144 m

Maximum water level of Karakaya Dam which is 2nd largest dam built on river after Atatürk Dam on The Euphrates (River) is 693 m.

1987

Karakaya HEPP built by DSI was put into operation in 1987.

KARAKAYA HEPP TURBINE REHABILITATION PROJECT





1355 MW

It is 8^{th} largest power plant of Turkey and 2^{nd} largest power plant of Kahramanmaraş with an installed capacity of 1355 MWe.

Second Largest

It is 2nd largest lignite thermal power plant of Turkey.

Eighth-Largest

It is also 8th largest power plant of Turkey.

2.800.000.000 kWh

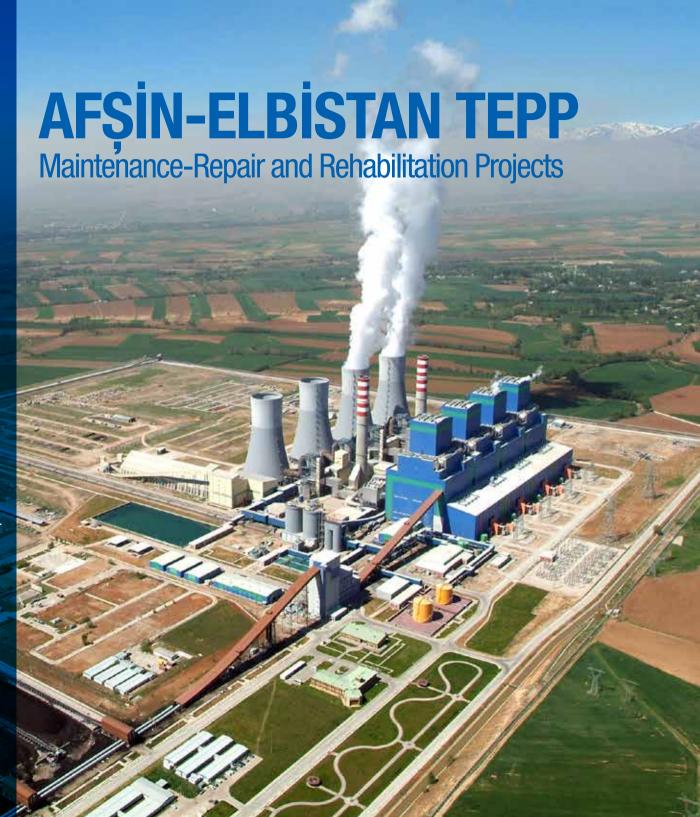
It can meet all electrical energy requirements which 900.000 people need in their daily life.

Specialist

The service is performed to Afşin-Elbistan Thermal Power Plant, one of the largest plants in the region, by team of specialists of maintenance & repair and site.

1984

Afşin-Elbistan TEPP was put into operation in 1984.







As it is known, in case of usage of domestic turbine and generator, domestic manufacturing incentive is applied in purchase of energy within scope of YEKDEM.

2,3 Dollar Cent Incentive Share

The investors who prefer TEMSAN products will be able to sell the electricity as 9,6 dollar cent/kWh per unit by also adding domestic manufacturing incentive share of 2,3 dollar cent/kWh to the their electricity sale price of 7,3 dollar cent/kWh.

Domestic Manufacturing Means Profit



TEMSAN PAU (PROJECT APPROVAL UNIT)
PROJECT APPROVAL AND ACCEPTANCE PROCESSES OF ELECTRICITY

FACILITIES

Until September 2019, approvals of 106 preprojects, 203 final projects, 35 restoration projects, 196 provisional acceptances and 29 statement approvals were realized by TEMSAN Project Approval Unit at our company re-authorized by the EiGM letter dated 34.12.2018 and numbered 34783. In addition, 25 project approvals and 11 provisional acceptances were rejected and the input of 622 MWe was provided to our national electricity grid.

The following procedures including also the electronic reviews of each of them are generally carried out in TEMSAN Project Approval Management

- Pre-project review and approvals,
- Restoration project review and approvals,
- Final project review and approvals,
- Engineering report review,
- Formation of partial, restoration and provisional acceptance committee and acceptances



STAKEHOLDERS





















MEMBERSHIPS













Ankara Headquarters

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