# Water Treatment Solutions

## Power Plants

TEMAK®

TOTAL WATER SOLUTIONS

# The ultimate design, **the selection of suitable water treatment** equipment and hydraulic equipment ensures **high performance, safe and optimal operation.**

Water used for steam generation in power plants (combined cycle plant etc.) requires strict quality standards for purified or deionized water. TEMAK has carried out numerous water treatment projects producing purified and deionized water in the industry sector as well as in power plants in Greece and abroad.

Moreover, TEMAK has significant experience in contemporary technologies used as treatment stages in the production of deionized water, such as ultra-filtration of pre-treatment water through ultra-filtration membranes, CEDI (polishing stage) or degassing membranes (stage of removing $CO_2$ from water before it enters CEDI).

## Water

- Drinking water for the personnel
  - Filtration
  - Disinfection
  - Reverse Osmosis
- Purified water for steam production
- Reverse osmosis water treatment system for general use and fire stations
- Potable water treatment plants

## Hydraulic Equipment

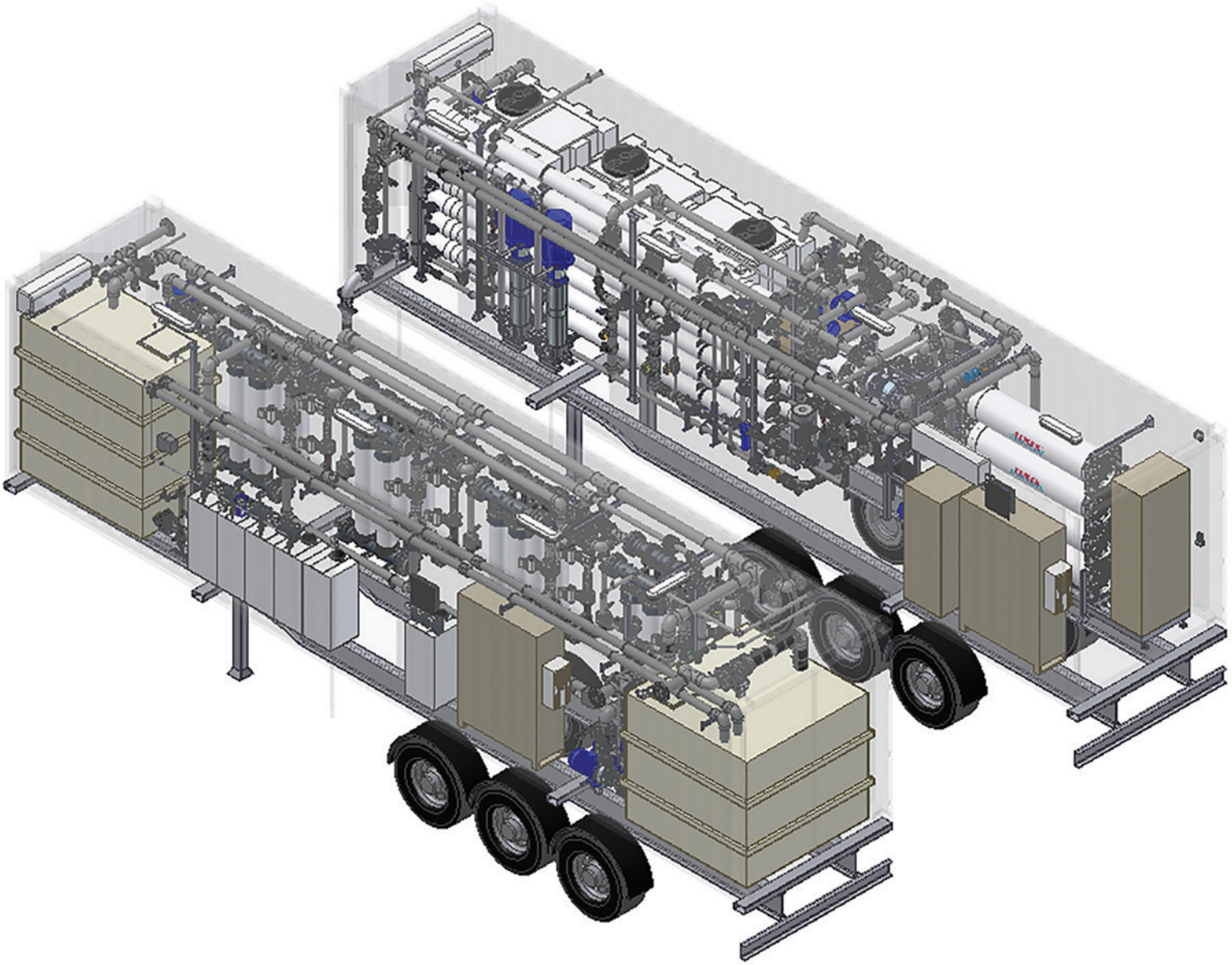
High quality hydraulic equipment and safety valves with production and quality control certificates

- Safety valves (Lesser)
- Butterfly valves with electric – pneumatic motors (Emerson)

**Valves with Pneumatic Motor**

**Safety Valve**

# «TEMAK is the ideal partner in Design, Construction and Support of Water Treatment Plants producing Purified Water »



**Potable Desalination System of Brackish Water for the Production of 1.200 cubic meters/day of purified water for high pressure boilers in Power Plants**

## Chemicals

Anticorrosive chemicals and antiscalants for the protection of closed hydraulic circuits from corrosion and scaling, as well as chemicals for water treatment with reverse osmosis membranes.

- R/O antiscalants
- Antiscalants-anticorrosive chemicals B-Fine and C-Fine for hot water-steam circuits and cooling circuits

## Customers

- Public and private sector power plants
- Power station construction companies
- Oil refineries
- Industries that require large electricity consumption for their productions, such as aluminum and nickel mining, fertilizer production etc

# Benefits of working with **TEMAK**

- ✓ Integrated solutions
- ✓ Quality in design, construction and the performance of the system
- ✓ Experience in the installation and commissioning of Electrodeionization (EDI) and Ultra-Filtration (UF)
- ✓ Sufficient durability and adequacy 24 hours per day for the whole year
- ✓ Uninterrupted operation of the unit
- ✓ Remote monitoring
- ✓ Rational Management (economy in consumption) of the available and rejected water
- ✓ Operation and maintenance by our specialized staff
- ✓ Environment protection with the use of the available water and energy sources

- High quality-reliability
- Competitive prices
- Short delivery time
- Material availability
- Support for funded projects
- Proper material selection
- Recommendations for the improvement of the systems
- Recommendations in design and new installations
- Complying with international regulations
- Technical support
- Immediate service

Since 1980, TEMAK has been by the side of the Power Plants Sector covering all its needs with reliability and consistency, as it has a complete range of certificated water treatment products. Based on the production of the systems in Greece and the high expertise of its staff, TEMAK can offer complete water treatment solutions, from the study and design to the construction and installation of the necessary systems.

The 800.000 cubic meters/day of treated water suitable for various uses, which are produced daily from the installed systems by TEMAK in Greece and in more than 30 countries abroad, are the proof of its experience and expertise in water treatment.

TEMAK®
TOTAL WATER SOLUTIONS

WATER VALUE AMBASSADOR
• ATHENS 1980 •

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