



- HEAT EXCHANGERS
- FEEDWATER HEATERS
- SURFACE CONDENSERS
- MSRs
- ENGINEERING CONSULTANTS
- SERVICES
- PETROCHEMICAL EXCHANGERS

THERMAL ENGINEERING INTERNATIONAL (USA) Inc.

Thermal Engineering International (USA) Inc. (TEi) is the leading supplier of heat transfer technology to the electric power generation industry. We offer fully-integrated design, engineering, manufacturing, research and development, construction and service capabilities.

Formerly Southwestern Engineering—and most recently Senior Engineering Co.—we have been designing and fabricating surface condensers, feedwater heaters, power plant heat exchangers and moisture separator reheaters (MSRs) for the world's power generation industry continuously for over 40 years. We own and operate dedicated manufacturing facilities within the U.S. and license local shops throughout the world.

TEi also engineers and manufactures industrial heat exchangers. Located at our Los Angeles headquarters, our design teams have the unique capability to provide integrated product engineering, resulting in single-point responsibility for design and manufacturing.

Utilizing assets from the purchase of EFCO and Struthers Industries, TEi-Struthers Wells designs and supplies a full range of fired heaters, waste heat boilers and heat exchangers for the petrochemical industries.

group provides solutions which can help you increase equipment efficiency, reliability, and performance. Our solutions are tailored to the specific needs of our clients. Built on over 80 years of extensive industry knowledge, innovative design, and proven technology, we remain committed to providing outstanding value to our clients with creative engineering ideas.

Our technical capabilities cover a vast array of activities, including, but not limited to:

- Performance Analysis
- Cycle Analysis
- Failure Analysis
- Condition Assessment
- Thermal & Structural Analysis
- Conceptual System Redesign
- Design Optimization
- Finite Element Analysis
- Solid Modeling
- Piping Flexibility Analysis
- Field Modification Evaluation
- Equipment Re-rates
- Physical Inspection
- Troubleshooting
- Engineer & Operator Training



A highly-skilled welder works on a feedwater heater at our Joplin, MO manufacturing facility

TEi Engineering Consultants: A Network of Engineering Solutions

TEi Engineering Consultants, as a collaborative technology partner, can provide technical support to your organization's feedwater heater, condenser, and heat exchanger needs. Based on our progressive design, manufacturing and service experience, our engineering consulting



Preparation for final shell-to-skirt closing seam at our Joplin, MO facility





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TEi Aftermarket Products:

There is no substitute for knowledge when it comes to supplying the right replacement part for plant equipment. Many spare parts suppliers are manufacturers who sell parts that fit their own equipment, or they are agents who merely sell prefabricated parts. TEi applies extensive engineering knowledge and manufacturing experience in building replacement components, which stand the test of time in the aggressive environment of a power plant. We provide all replacement parts for feedwater heaters, condensers, heat exchangers, moisture separator reheaters, and other heat transfer equipment found in power plants. We supply such components as:

- Covers
- Diaphragm Plates
- Expansion Joint Belts
- Expansion Joints
- Gauge Glasses
- Gaskets
- Hoses
- Manways
- Nuts & Bolts
- Packing
- Pressure Gauges
- Relief Valves
- Studs
- Temperature Gauges
- Torus Rings
- Tubesheets
- Tube Plugs

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At our Los Angeles HQ, our designers use the latest CAD technology to design our products



Condenser Modules being picked up by crane in preparation for installation

For information on other Babcock Power Inc. companies, go to www.babcockpower.com.

