

## Heat Transfer Technology

### OVERVIEW

Thermal Engineering International (USA) Inc. (TEi), a Babcock Power Inc. company, is a leading provider of heat transfer technology, meeting the needs of the power generation, petro-chemical, pulp and paper, and refinery industries worldwide. We have a rich history of designing and fabricating feedwater heaters, surface condensers, moisture separator reheaters, waste heat boilers, fired heaters, and other heat transfer equipment that spans more than 50 years. TEi offers fully integrated design, engineering, manufacturing, research and development, construction, and service capabilities.

### FEEDWATER HEATERS

TEi feedwater heaters can be found in hundreds of conventional fossil, nuclear, and cogeneration facilities around the world. TEi's significant experience contributes to feedwater heater reliability whether operating at base load, part load or transient conditions. TEi also provides vertical feedwater heaters according to project needs.

### CONDENSERS

TEi condensers represent a continuous evolution of advanced technology, offering unmatched thermal efficiency and superior mechanical design. Our designs incorporate enhanced deaeration systems, and can accommodate a variety of steam turbine exhaust options to optimize plant layouts.

TEi has emerged as the preferred supplier for condenser tube module retrofits of OEM and non-OEM condensers. We prepare a module design that meets or exceeds the performance characteristics of the original design and fits into the existing condenser envelope.



### INDUSTRIAL HEAT EXCHANGERS

TEi's Industrial Products Division has worked with general industry, electric utilities, consulting engineers, and end users since 1911. Heat exchangers are designed to ASME Section VIII Div. 1 or TEi standards and incorporate TEMA Class C, R or B. Depending on client needs, API, ABS and HEI specifications can also be accommodated. To insure the integrity of our products TEi pressure tests every heat exchanger before it leaves our facilities and has an independent Authorized Inspector on site.



# TEi

A Babcock Power Inc. Company  
Thermal Engineering  
International (USA) Inc.  
10375 Slusher Drive  
Santa Fe Springs, CA 90670  
[www.ThermalEngInt.com](http://www.ThermalEngInt.com)

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### STRUTHERS WELLS

Struthers Wells began in 1851 as a manufacturer of pressure vessels, boilers, and steam-powered machinery and has continued to set the standard for high temperature heating systems. No other company can match the depth of experience in all aspects of fired heater and heat recovery technology.

Struthers Wells is a pioneer in developing solar steam generating systems, central receivers, and molten salt heat exchangers. We have designed and manufactured high temperature heat transfer systems for every heat transfer fluid available, including Dowtherm®, Therminol®, Syltherm®, molten salts, and liquid metals.

### TEI STRUTHERS SERVICES

TEi Struthers Services provides unparalleled emergency repair services. Our code-certified welders and skilled technicians are available 24 hours/day and 365 days/year to provide emergency and planned service for your heat transfer equipment, regardless of the original manufacturer.



### TEI MSR TECHNOLOGY & ADVANCED PROGRAMS DIVISION

TEi is the global leader in Moisture Separator Reheater (MSR) Technology. We offer a complete suite of products and services for MSRs including the modification and upgrading of existing MSR systems and complete MSR vessels for new and life extended plants.

Our MSR customer list includes electric utilities from around the world. Over 400 MSR replacement bundles and moisture separation systems have been installed in the USA, Canada, China, Korea, Taiwan, Japan, Brazil, Mexico, Belgium, Spain, Slovenia, Romania, and Slovakia.



Thermal Engineering  
International (USA) Inc.

TEi-MSR Division  
TEi-Struthers Services  
Struthers Wells