



## COMPANY OVERVIEW

With over 160 years of success, **Struthers Wells™**, a Babcock Power Inc. company, has proven themselves to be a reliable supplier of heat recovery equipment to the world's leading chemical, petrochemical, petroleum and power (including solar) providers.

Struthers Wells™, a TEI line of products, has built an unparalleled reputation in successfully designing and manufacturing fired heaters and heat recovery equipment for the extraction of heat from high temperature process or flue gas systems worldwide.

### LEADING THE INDUSTRY

Struthers Wells™ was established in 1851 as a foundry and manufacturer for the agricultural industry. When oil was discovered in Pennsylvania in 1859, Struthers Wells™ became involved in the capacity of designer and fabricator of process equipment for the oil industry and produced the *first* all-welded carbon steel pressure vessel.

From 1940 to 1965, Struthers Wells™ achieved worldwide recognition as a designer and fabricator of process and energy-related equipment and developed many *firsts* in the industry. They developed the *first* forced circulation thermal fluid vaporizer, manufactured the *first* furnace used for thermal cracking of ethylene dichloride (EDC), they designed and built the *first* Once Through Steam Generator (OTSG) for enhanced oil recovery and *first* developed a convective-only titanium tetrachloride (TiCl<sub>4</sub>) preheater/boiler/superheater utilizing metal tubes in lieu of unwieldy quartz tubes.





## ENGINEERING SOLUTIONS

Struthers Wells™ can support an organization's existing heat exchanger needs, regardless of the OEM by providing engineering solutions. The vast array of technical capabilities include:

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

## PRODUCTS AND SERVICES

### Waste Heat Boilers

- Fire Tube Waste Heat Boilers
- Water Tube Waste Heat Boilers
- Kettle Type Reboilers Process Gas Boiler (PGB)
- Reactor, Hot Process Gas or Delayed Coker

### High Pressure Shell and Tube Heat Exchangers

- Breech-lock Closures
- Diaphragm Closures
- Confined Solid Metal Gasket Closures
- Self-energized Double Cone Closures

### Fired Heaters

- Fuel Gas Heater Skids
- Thermal Fluid Systems
- Process Furnaces
- Heat Pipe Air Preheaters

Once Through Heat Recovery Steam Generators (OTHRSG)

Thermal Fluid Heaters for Concentrated Solar Power (CSP) Projects

Molten Salt to Oil or Steam Heat Exchangers

Industrial Heat Recover Steam Generators (HRSG) <20MW

### STRUTHERS WELLS™

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### TEI

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SAFETY<sup>3</sup> PEOPLE. POWER. PROJECTS.

We're giving safety the third degree.

Babcock Power Inc. and its subsidiaries place the safety, health and security of our people at the core of our company values. Our team is our most valuable resource, generating solutions everyday to deliver safe, clean, reliable energy globally. With a keen focus on safety, Babcock Power Inc. conducts business in a manner that protects our people, our customers and the environment. From innovation to generation, we are proud of our award-winning safety record and are committed to operating with integrity and excellence.

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