



A BABCOCK POWER INC. SUBSIDIARY



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# HP ECONOMIZER RETROFITS

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## OVERVIEW

From the infancy of the power industry in the 19<sup>th</sup> century to today's high demands for sophisticated technology blended with top-notch performance, the business units of Babcock Power Inc.® have shaped us into a global leader in our field, offering products and with services as diverse as the customers we serve.

In order to keep up with those increased demands, our customers have been experiencing several growing, shifting needs. Among those needs have been retrofitting of HP Economizers. Under our umbrella organization, and in keeping with our mission to be a single-source provider to the industry, our business units Vogt Power International and TEiC Construction Services (TEiC) have combined their skills and expertise to offer comprehensive, long-term alternatives that successfully address this critical situation. Through this type of collaboration, we gain knowledge while we grow, and while we provide our customers with the best our industry can offer.

As a global leader in the field, the Babcock Power organization continues to develop and seek out the most efficient, cost effective, environmentally responsible generation solutions available today that will bring all of us safely into the future.

## BENEFITS

- At Babcock Power Inc., our greatest strength comes from our integrated business units. Our teams at Vogt Power International, and TEiC Construction Services (TEiC) combine to create HP Economizer Retrofits. Vogt Power provides the expert analysis and design; TEiC completes the construction needs.
- Our innovative, proprietary thermal software, TRS, is a technological forerunner in the industry. Exemplary features of TRS enable Vogt to utilize the GT performance summary provided by our customers to redesign the HP Economizer to their exact specifications and requirements.
- Turnkey solutions that result in increased power plant efficiency and provide unwavering reliability year after year: through our Babcock Power business units, we offer over a century of service to the power industry, ensuring expertise that is unequalled and performance that is unsurpassed.



Inspection of External Penetration Hot Spot



Stack Corrosion Inspection

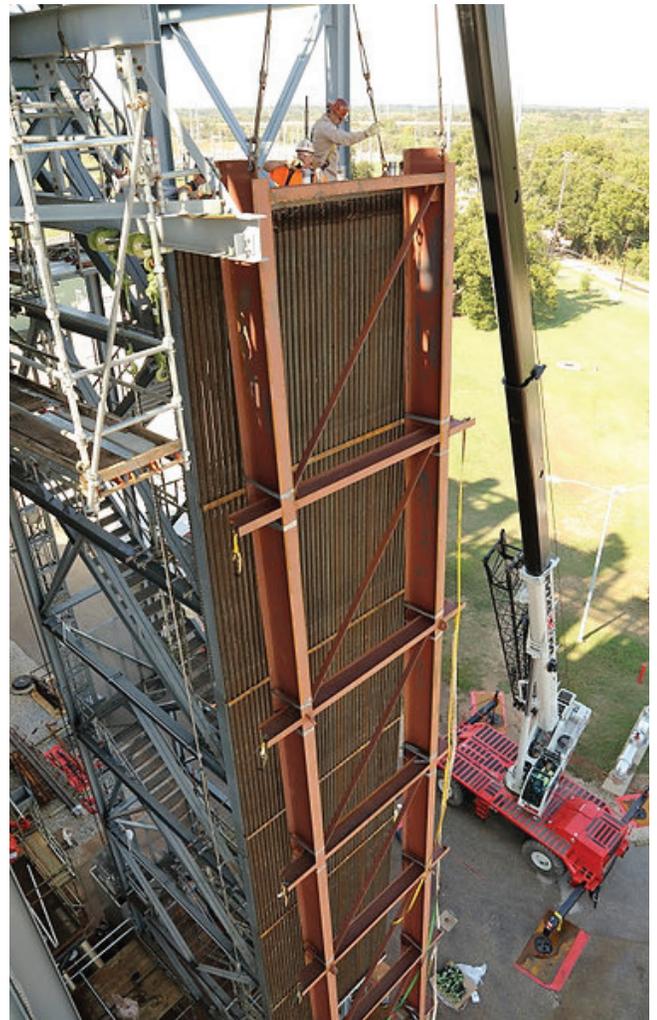
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## HP ECONOMIZER RETROFIT

Over a period of time, numbers of starts within a plant can increase from those for which the original equipment and components were designed. Babcock Power has solutions with features that will:

- **ADDRESS TUBE LEAKS AND FAILURE** — Babcock Power’s team of expert engineers at Vogt Power International will design new harps to accommodate changed cycling activity and minimize harp failure at cross-over supports. The new design features ten (10) replacement HP Economizer carbon steel harps.
- **MAXIMIZE HARP LONGEVITY** — Because new harps are custom designed to each customer’s specific needs and plant operation, customers can cycle their HRSG as needed while experiencing top-of-the-line dependability for a longer period of time.
- **PROVIDE A PERMANENT FIX** — While some companies offer a type of “Band-Aid” retrofit involving spring cans to lessen thermal expansion on the tubes, Babcock Power knows this is only a temporary solution that will only last about 3–5 years. Our solution, however, is permanent: multiple testing has proved it.
- **INCREASE POWER PLANT EFFICIENCY** — The HP Economizer Retrofit heat water in the HRSGs by using the GT exhaust to product steam. This results in increased overall efficiency; which, in turn, saves customers time and money while providing superior performance.



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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