



**CMI ENERGY**

# Complete HRSG Solutions



# The Power to Change the World

CMI Energy, LLC  
A USA company since 1840

# A Powerful History

## Two Centuries of **Success**

Part of a global enterprise with a 200-year history, CMI Energy knows the power industry as only an experienced business can.

Technological expertise and a strong foundation mean you can trust CMI to provide not only today's power solutions but also tomorrow's power innovations.

Experienced teams, extensive industry knowledge, and more than 700 units in operation worldwide make CMI Energy a preferred global supplier of complete HRSG solutions:

- HRSG technologies for the latest power industry trends and demands
- Flexible designs, custom-tailored to site and client requirements
- Skilled engineering for efficiency, reliability, and maintainability
- Accurate, on-time deliveries and hassle-free project execution
- Superior customer service, from proposal to aftermarket support

Discover optimized heat recovery steam generators from CMI Energy!



- ◀ A tour de force of operational efficiency, CMI's HRSG created for the Bouchain Power Station in Northern France is one example of the advanced technological expertise that has made CMI Energy a preferred supplier in heat recovery steam generation worldwide.

Site: A project of GE and EDF, France

Turbine: GE 9HA.01

Plant Capacity: 605 MW

Fast Start: Full power in less than 30 min.

Steam Temperature: 1,085° F

Performance: Highest efficiency plant in operation worldwide (62.2%); the Guinness World Record holder

## CMI HRSGs:

### Efficient, Reliable, Flexible **Performance** for Today's Power Demands

#### Customized, Proven Technologies

Natural or assisted circulation; Once-Through designs; single, dual, or triple pressures +/- reheat; auxiliaries (duct burners, CO and SCR sub-systems, etc.); horizontal or vertical gas flow; expertly engineered to any construction standards or codes: ASME, EN, PED, SAA, IBR...

The M100 Modular Design: ▶  
One of several CMI solutions for minimizing field labor and meeting deadline challenges



#### Cost-Effective, Adaptable Components

Engineered for flexibility, including modular options to minimize field labor, meet demanding schedules, and tackle challenging logistical concerns: "BMC" (bundles with modular casing for easy transport and minimized fabrication costs); "M100" (modular design with optimal shop fabrication)...

#### Responsive, Maintainable Designs

High-temperature technologies (HP / RH temperatures to 1115F / 602C); fast-start features for handling increased ramp rates while maintaining overall unit life; CMI Boiler Stress Evaluator software option for enhanced maintainability and longevity...

#### Comprehensive Quality Management

ISO 9001 and ASME\* certifications denote CMI Energy's commitment to quality in-house, on-site, and throughout the supply chain:

- Complete Quality Management System conforming to ISO 9001 requirements
- Suppliers tracked in Electronic Approved Supplier List (EASL) and rigorously evaluated

*\*CMI's ASME "S" stamp (No. 28) and "U" stamp (No.30) are two of the oldest continuously-held stamps in the industry.*



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**Complete  
HRSG  
Solutions**

## Shaping the World of Power

- CMI Energy's expertise is rooted in its enduring business developments both in America and in Europe.
- For 200 years, CMI know-how has generated performance, reliability, and advances in technology that have The Power to Change the World.

- 1817: Industrialist John Cockerill founds Belgian company now known as CMI Group  
1824: CMI begins first production of boilers  
1840: The American company, Presque Isle Foundry (PIF), now CMI Energy, LLC, is established in Erie, PA  
1858: Erie City Iron Works (ECIW), formerly PIF and now CMI, provides a boiler for the world's first oil well, Titusville, PA  
1880: ECIW is named largest boiler manufacturer in USA  
1966: ECIW becomes Zurn Energy  
1966: CMI Energy wins first turnkey HRSG contract  
1980: CMI wins contract for world's first HRSG behind "E" class Gas Turbine (GT)  
1987: Company's first triple-pressure HRSG in the USA  
1994: CMI's first triple-pressure + reheat HRSG  
1995: CMI's first natural-circulation, vertical HRSG behind "F" class GT  
2006: CMI's first triple-wide horizontal HRSG  
2007: CMI's first HRSG behind 300 MW GT (GE 9FB)  
2012: CMI's first high-temperature HRSG behind 9HA.01 GT  
2013: Construction begins on CMI's first M100 module design HRSG  
2014: CMI's first HRSG behind 7HA.02 GT  
2015: First HRSG behind "J" class GT  
2015: CMI's first HRSG behind 400 MW GT (SGT5-8000H)  
2016: CMI supplies HRSG for world's most efficient power plant, Bouchain, France

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**Regional Reps**



**Cockerill Maintenance & Ingénierie**