

Bang Pa-In (BIC II),
Thailand

120 MW



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Small Horizontal HRSGs prefabricated in Modular Box Design

Project Description

This contract was signed by John Cockerill with Thai Shinryo Ltd, the local Thai company of Shinryo Corporation in Japan. John Cockerill designed and supplied two small horizontal heat recovery boilers for the Bang Pa-In Cogeneration Power Plant Block II. In 2004, John Cockerill Energy had already supplied boilers to Shinryo for the South Bangkok International Airport. The scope of the BIC II project includes two small horizontal HRSGs made in Modular Box design, completely prefabricated in workshops.

The Contract

This Bang Pa-In (BIC II) plant is a cogeneration plant to serve the Bang Pa-In Industrial Estate Ayudhya Province in the North of Bangkok.

Plant Operation

The Bang Pa-In plant is designed for base load.

Gas Turbines

- LM 6000
- 43 MW
- Fuel: natural gas

Heat Recovery Steam Generator

- 2 horizontal John Cockerill HRSGs
- Double pressure
- Natural circulation
- Condensate preheater

Performances

STEAM	°C	BarA	t/h
HP	430	43	42
LP	262	6	13

Schedule

- | | |
|---------------------------------|------------|
| • Contract Award | May 2015 |
| • Start (first) boiler erection | April 2016 |
| • First Firing | March 2017 |
| • HRSG ready for PAC | May 2017 |
| • Full Commercial Operation | July 2017 |



The Modular Box design enables a faster assembly of the boiler.

CMI becomes John Cockerill

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Market for small HRSGs (gas turbines below 80 MW)

Under project specific conditions, John Cockerill Energy and its Indian licensee Larsen & Toubro (L&T) collaborate for small HRSGs associated with gas turbines below 80 MW in South East Asia and the Middle East.