

BANGKADI INDUSTRIAL PARK 1 & 2 CCCP PROJECT: BANGKADI, THAILAND

COGENERATION

LOCATION: PATHUMTHANI, THAILAND
 CUSTOMER: IHI CORPORATION
 END USER: AMATA B. GRIMM POWER
 YEAR: 2013

PROJECT OVERVIEW

Gas Turbine

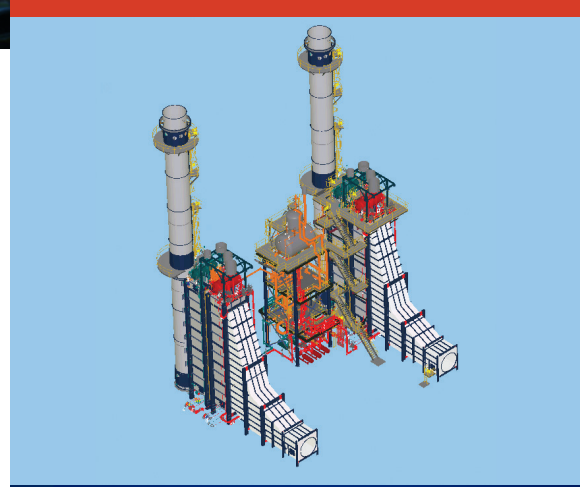
Supplier: GE
 Type: LM6000PD
 Main Fuel: Natural Gas

HRSG

No. of Units: 4
 Cycle Description: 2x2 Cogeneration
 Design: Single Wide MSG
 Pressure Levels: 2 HP, LP

Auxiliary Components Provided by Vogt Power International

Attemperators – Interstage with 453°C Set Point
 Economizer Bypass System
 Deaerator supported over Inlet Duct and External Heat Exchanger
 Deaerator/Feedwater Tower
 Stack Damper and Stack Silencer



BABCOCK POWER SOLUTION

- Two reactors per boiler — 55'-0" L x 58'-8" W
- Four layer reactor — designed for 2 x 2 original loading with two layers of honeycomb catalyst per reactor/unit
- Initial loading changed to one layer COMET catalyst per reactor/unit
- 136 catalyst modules per layer in an 8 x 17 arrangement
- Total duct/reactor weight — 3.5 million pounds per unit

PERFORMANCE RESULTS

NRG Conemaugh SCRs were designed and supplied ahead of schedule and under budget. Babcock Power was able to work dynamically with the client to change catalyst scope mid-project with no overall impact to quality or schedule.

	ENGLISH	METRIC
Unfired		
HP Steam Flow	49.4 tons/hr	44.8 mtons/hr
HP Steam Pressure	638.2 psi	44.0 bara
HP Steam Temp	797°F	425°C
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LP Steam Flow	16.9 tons/hr	15.3 mtons/hr
LP Steam Pressure	62.4 psi	4.3 bara
LP Steam Temp	354.2°F	179°C