

# WANG NOI

## COMBINED CYCLE POWER PLANT BLOCK 4

LOCATION: PHRA NAKORN SI AYUDHAYA, THAILAND

CUSTOMER: BLACK & VEATCH THAILAND

END USER: EGAT

YEAR: 2011



### PROJECT OVERVIEW

#### Gas Turbine

- Supplier: Siemens
- Type: SCC5-4000F
- Main Fuel: Natural Gas

#### HRSG

- No. of Units: 2
- Cycle Description: 1x1 cogeneration
- Design: Double Wide SMART
- Pressure Levels: 3 HP, IP, LP with RH

#### Auxiliary Components Provided By Vogt Power International

- Bypass Deaerator
- Attemperators
  - HP and RH Interstage with 567°C Set Points
  - HP and RH Final Stage with 567°C Set Points
  - ST CRH Bypass Station with 340°C Set Point
- WPH Recirculation System and Bypass System
- Operation with Distillate Oil as Backup Fuel
- Stack Damper and Stack Silencer
- Blowdown Tank and Flash Tank

	ENGLISH	METRIC
<b>Unfired</b>		
HP Steam Flow	309.7 tons/hr	281.0 mtons/hr
HP Steam Pressure	1856.5 psi	128 bara
HP Steam Temperature	1018.4°F	548°C
<b>Reheat</b>		
Reheat Steam Flow	361.7 tons/hr	328.1 mtons/hr
Reheat Steam Pressure	442.4 psi	30.5 bara
Reheat Steam Temperature	1018.4°F	548°C
<b>LP</b>		
LP Steam Flow	40.3 tons/hr	36.6 mtons/hr
LP Steam Pressure	65.3 psi	4.5 bara
LP Steam Temperature	439°F	226°C

