



# COMBINED HEAT AND POWER POWER PLANT SAHACOGEN PUBLIC COMPANY LIMITED

## OWNER

**Sahacogen (Chonburi) Public Company Limited**

## LOCATION

**Laem Chabang, Chonburi, Thailand**

## PRODUCT

**Titan™ 250 (23 MWE) Gas Turbine**

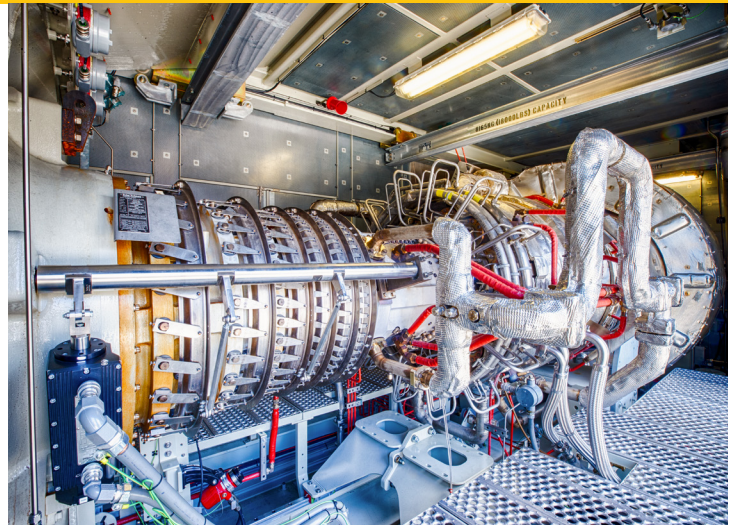
The Sahacogen power plant is located about 125 km from the capital of Thailand, Bangkok, in the Laem Chabang region. This is a cogeneration combined cycle plant that uses natural gas fuel and has the capacity to produce 174 MW of electricity and 81 tons of steam per hour.

The plant services the Saha Group Industrial Park in Sri-Racha where 150 businesses use either electricity or steam to manufacture products such as food, electronics and textiles. In an effort to increase their flexibility in meeting the industrial park's energy demand, Sahacogen partnered with Solar Turbines for the purchase of a Titan 250 generator set with SoLoNOx™ combustion system. The Titan 250 generator set was selected for its environmental sensitivity, reliability and ability to perform in hot weather conditions. Sahacogen has a strong commitment to sustainability, and SoLoNOx, a dry low-emission technology, enables them to meet new stringent emissions requirements without using water.

## **Solar® Turbines**

*A Caterpillar Company*

## Combined Heat and Power – Power Plant



### PLANT DATA

One Titan 250 (23 MWe) Gas Turbine

Natural Gas Fuel

Up to 81 Pounds of Steam Per Hour

### OUR PRODUCTS AND SERVICES

Gas Turbine Package and Auxiliary Support

Startup and Commissioning

Operation and Maintenance Training

Extended Service Agreement

In addition to providing power and steam to its immediate customers in the park, Sahacogen sells about 90 MW of power to Thailand's electrical generating authorities for distribution throughout Thailand. The rugged reliability of Solar's product was a key factor in Sahacogen's product selection. Thailand has a very hot climate that typically reduces gas turbine output. To address this, the Titan 250 generator set package was equipped with an air inlet cooling unit to lower the inlet temperature, allowing the engine to generate near maximum power.

In addition to the Titan 250 generator set, Sahacogen elected to purchase Solar's Equipment Health Management service agreement – a comprehensive service agreement for the turbomachinery to ensure high reliability, availability and optimum performance. The extended service agreement uses InSight Platform™ to determine required maintenance activities based on equipment condition. The agreement also allows for training services and emergency call out support on a transactional basis. The extended service agreement coverage and Solar's worldwide support network result in more uptime, greater productivity and optimized life cycle.

**RELIABILITY**

**FLEXIBILITY**

**DRY LOW EMISSIONS**

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