Siemens AG: Rapid to get gas turbines: The first gas turbine to generate energy for the Pengerang Integrated Petroleum Complex in Pengerang, Johor, will arrive at the end of this month.

## Siemens AG: Rapid to get gas turbines

First of four gas turbines for PIPC in Johor to be delivered by next month

## by P PREM KUMAR

THE first gas turbine to generate largest and most efficient gas-fired energy for the Pengerang Integrated Petroleum Complex (PIPC) in Pengerang, Johor, will arrive at the said. end of next month, says the turbine maker Siemens AG.

order in Siemens Malaysia's history, was shipped from Germany last month, said Lothar Balling, executive VP of Global Project Management, Siemens Energy Solutions.

The PIPC hosts the RM61 billion Refinery and Petrochemical Integrated Development project (Rapid) developed by national oil firm Petroliam Nasional Bhd (Petronas).

The Pengerang order consists of a combined-cycle power plant with steam extraction and four gas turbines of which the first of the latest technology — SGT5-8000H turbine — is units and two steam turbine units, balance would arrive between July and September, he told The Malaysian Dusseldorf, Germany.

tion Plant (PCP) would be one of the mentation and centrol system.

power plants in Malaysia with steam supply to the industrial complex, he

The first co-generation unit of the PCP is expected to go online by mid-The gas turbine, part of the largest 2017. It will also supply power to the

national grid for public consumption. The remaining co-generation units will supply to other facilities within the PIPC, he said.

Balling said the PCP would be able to produce approximately 1,220MW of power and up to 1,250 tonnes per hour of steam for the Rapid complex.

Power Sdn Bhd, was awarded the co-generation power plant order in 2014 for the turnkey construction of the PCP. It comprises four gas turbine

expected to arrive in June, while the along with a long-term maintenance and services contract.

Each unit comes with a Siemens Reserve during a recent interview in H-class gas turbine, a waste-heat recovery steam generator (HRSG), a The power turbines which will be steam turbine, associated mechanical installed in Pengerang Co-genera- and electrical systems and the instru-

Each of the four co-generation units will include a Semens SGT5-8000H gas turbine, and the installation of these gas turbine with the associated

HRSGs, steam turbines and auxiliaries will help Pengerang meet its longterm energy needs with efficient, clean energy, said Balling.

Likening a Siemens SGT5-8000H gas turbine as heavy as one unit of a fully fuelled Airbus A380 plane, he said each such turbine produces sufficient energy to supply to a city of approximately 2.2 million inhabitants.

Each turbine consists of more than Petronas' subsidiary, Pengerang 7,000 individual parts. Temperature in the combustion chamber is more than 1,500°C, and the turbine blade tips can almost reach sonic speed, he explained.

Besides Rapid, PIPC also consists of naphtha crackers, a liquefied natural gas import terminal and a regassifica-

Rapid's Steam Cracker Complex is targeted to start refinery operations by first-quarter 2019 as the first to operate within PIPC, whereby the project's commercial operations expected by middle of 2019.