



TPGS Green Energy

NEWS RELEASE

TPGS GREEN ENERGY PTE LTD DEVELOPS AND CONSTRUCTS SINGAPORE'S FIRST TRIGENERATION FACILITY

New facility enables the pharmaceutical giant to contribute to environment conservation and reduce its annual utility costs by 8%

SINGAPORE, 7 November 2006 – Pfizer Asia Pacific Pte Ltd and TPGS Green Energy Pte Ltd (TPGS) held a groundbreaking ceremony today for a trigeneration facility which will support the utility needs of Pfizer's existing plant in Tuas Biomedical Park. The global pharmaceutical company is the first in Singapore to use the energy-efficient and environment-friendly technology, reaffirming Pfizer's global commitment to protecting the environment.

The groundbreaking ceremony was officiated by Dr Amy Khor, Senior Parliamentary Secretary of the Ministry of the Environment and Water Resources.

With an initial investment of S\$8 million, the first-of-its-kind facility in Singapore employs a 5 MW gas turbine that will be developed and constructed by TPGS, a joint venture company formed by Tuas Power Ltd and Gas Supply Pte Ltd. Leveraging on the expertise of both companies in the power and gas industries, TPGS will offer utility provision, operation, maintenance and asset management services for the trigeneration facility under the 15-year agreement with Pfizer.

When completed by end-2007, the trigeneration facility is expected to help Pfizer reduce its annual utility costs by about 8%. But more significantly, the natural gas-fired facility will deploy the trigeneration technology, which will effectively reduce carbon dioxide emissions by 17% per annum.

Commenting on the milestone event in Singapore's utility industry, Mr Lim Kong Puay, President and Chief Executive Officer of Tuas Power Ltd, and Director of TPGS Green Energy, said: "The rising global interests in environmental conservation has brought urgency for solutions that are environment-friendly yet cost effective for businesses. With this in mind, TPGS wants to pave the way for the development and widespread use of energy-saving and environment-friendly technologies such as trigeneration in Singapore. As fuel oil prices remain volatile, trigeneration will provide our business community with a more stable and commercially-viable alternative for its utility needs, particularly for companies such as Pfizer which require substantive heat and power in their daily operations. The use of natural gas, a clean fuel, also eases the reliance on fuel oil and contributes to the global effort in environmental conservation."

Pfizer's bold move to be the first company in Singapore to use trigeneration technology stems from its global commitment to protecting the environment through best practices. Besides Singapore, Pfizer has also incorporated the trigeneration technology in other global plants, including Japan, Puerto Rico, the United Kingdom and the United States.

"The use of the Trigeneration Plant is aligned with our Corporate Mission of protecting the health and safety of our colleagues at our facilities and the environment of the communities in which we operate. Over the next three years, Pfizer is committed to increasing the percentage of our electricity generated using "Clean Energy" and the implementation of this project fully supports that goal," said Dr Terence Lambe, Area Vice President, Ireland/Singapore, Pfizer Global Manufacturing.

Pfizer is a member of the Pharmaceuticals Workgroup of the National Climate Change Committee, chaired by Senior Parliamentary Secretary of the Ministry of the Environment and Water Resources, Dr Amy Khor. The idea to adopt trigeneration technology was first mooted by the workgroup as part of the long-term strategy in energy management to improve energy efficiency, reduce emissions and energy costs. The workgroup has been meeting regularly to exchange and share information and ideas on this area.

Said Mr Lee Yuen Hee, NEA's Chief Executive Officer, "This project marks an important milestone in our quest to improve energy efficiency and shows that with innovative technology, we can maximise the use of resources in energy production and minimise the impact on the environment. NEA is glad to be part of this project from the inception stage to the actual implementation, and would be providing funding support for this project under the Innovation for Environmental Sustainability Fund (IES Fund). This project would serve as a good showcase to spur interest in the technology and encourage its wide adoption by the industry in Singapore."

Trigeneration works by producing three types of utilities – electricity, steam and chilled water from a single integrated system. Unlike conventional systems which convert part of the fuel energy into electricity while the rest is lost as heat, the 'waste heat' in a trigeneration system is harnessed to generate steam, which is channelled for process use and to steam absorption chillers to produce chilled water. In comparison with conventional systems, the trigeneration system enhances energy efficiency by about 20% as less fuel is required to generate the same amount of energy.

While the new trigeneration facility at Pfizer was developed to support the utility needs of the existing plant, it can be expanded to accommodate an additional 4.6 MW gas turbine to cater to the potential increased demand for steam and electricity in the future.

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About TPGS Green Energy Pte Ltd

TPGS Green Energy, a 75-25 joint venture between Tuas Power Ltd and Gas Supply Pte Ltd, was incorporated in August 2006 to promote environment-friendly cogeneration and trigeneration technologies in Singapore. Drawing on their expertise in the power and gas industries, TPGS Green Energy offers a synergistic approach to utility provision, asset management support and other related services for its clients.

About Tuas Power Ltd

A subsidiary of Temasek Holdings, Tuas Power owns generation assets totalling 2,670 MW. The Company contributes to 25 per cent of Singapore's electricity consumption, utilising the environment-friendly natural gas for its power generation.

Tuas Power's retail subsidiary, Tuas Power Supply Pte Ltd, is a trusted and reliable energy solutions provider offering complete electricity solutions to businesses across all the major industries in Singapore.

About Gas Supply Pte Ltd (GSPL)

Gas Supply Pte Ltd (GSPL) is the major importer and supplier of natural gas in Singapore. It is the only importer supplying natural gas to all three major power generating companies. A wholly owned subsidiary of Temasek Holdings, GSPL started the importation of natural gas from South Sumatra in September 2003 when then Prime Minister Mr Goh Chok Tong and Indonesian President Megawati Sukarnoputri inaugurated the 470 km overland and submarine pipeline from the Asamera field in Sumatra to Jurong Island. It has since supplied natural gas without interruption and continued to expand its natural gas business with significant market share in the pharmaceutical and process industries.

About Pfizer Asia Pacific Pte Ltd

Pfizer's first large scale-active pharmaceutical ingredients (API) facility in Asia, Pfizer Asia Pacific Pte Ltd (PAPPL), started production in April 2003. The S\$600 million multi-purpose plant occupies a 22-acre site at the Tuas South Biomedical Park and employs 265 colleagues in the production of active pharmaceutical ingredients for a range of products.

Pfizer Inc, established in 1849 and headquartered in New York City, USA, employs 122,000 people worldwide. The Company discovers, develops, manufactures and markets leading prescription medicines for humans and animals and many of the world's best-known consumer brands. Pfizer's products are available in more than 150 countries around the world.

About National Environment Agency

The National Environment Agency (NEA) was formed on 1 July 2002 as a statutory board of the Ministry of the Environment (ENV) to focus on the implementation of environmental services. Each of the NEA operational divisions – Environmental Protection, Public Health, and Meteorological Services – plays a vital role in ensuring a safe, clean and healthy environment for Singapore. More information about the NEA is available at <http://www.nea.gov.sg>.