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Jurong Island

Factsheet 2011

Jurong Island Heart of Singapore's Energy & Chemical Hub

At a Glance

Singapore's global leadership position in the energy and chemical industry started as a dream - a dream to amalgamate seven small islands into Jurong Island, an integrated complex housing many of the world's leading energy and chemical companies.

Today, Jurong Island hosts over 95 global companies including heavyweights such as Shell, ExxonMobil, Chevron, DuPont™, BASF, Sumitomo Chemicals and Mitsui Chemicals. Jurong Island has drawn cumulative fixed asset investments of over S\$30 billion and employing about 8,000 as of date.

Upon completion of reclamation, Jurong Island will have a total land area of 3,200 hectares - triple its original land size.

Vibrant Portfolio of Companies

USA: Air Products, Celanese, Chemical Specialties, Chevron (JV partner in SRC), Chevron Oronite, Chevron Philips, DuPont™, Eastman Chemical, ExxonMobil, Huntsman, Invista, Rohm & Haas, Tate & Lyle

Europe: Akzo Nobel, BASF (JV partner in Ellba), Ciba, Coim, Croda, Faci, Infineum, Katoen Natie, Linde, Lucite, Oiltanking, Perstorp, RohMax Evonik, Shell, SOXAL, Stolt-Nielson, Vopak

Japan: Asahi Kasei, Dainippon Ink & Chemicals, Denka, Mitsui Chemicals, Mitsubishi Gas (JV partner in Polyxlenol), Kuraray Asia Pacific Pte. Ltd, Sumitomo Chemical, Sumitomo Seika, Teijin, Toagosei, Stella Chemifa, Unimatec



World-Class Infrastructure

As a self-contained hub with an all-encompassing network of infrastructure, Jurong Island provides companies with a plug-and-play environment where companies can quickly ramp up their operations. This unique feature has helped to bring in investments from upstream to downstream companies.

Seamless Integration

Industry integration on Jurong Island enables companies to “buy and sell” feedstock and products literally over the fence such that the output of one plant is the input for neighbouring plants. Moreover, integration in utilities and logistics not only creates production synergies, but also cost efficiencies, allowing companies to focus on their core business activities.

A comprehensive host of third party providers therefore enables companies to outsource functions including waste water treatment and utilities such as steam and hydrogen, as well as storage requirements to support manufacturing plants.

Also located on Jurong Island is Banyan LogisPark, an 80 hectare strip of land dedicated to third party logistic services including chemical ware-housing, tank filling, cleaning and maintenance, drumming and water treatment facilities. As Singapore’s first integrated chemical logistic park, it serves as a one-stop hub to handle both bulk liquids and solid chemicals as well as provide the entire value chain of chemical logistics services.

Strong Manpower Capabilities

Aimed to develop manpower competencies for the energy and chemical industry, the Chemical Process Technology Centre (CPTC) was set up in 2004 on Jurong Island to train new entrants as well as to enhance the capabilities of existing professionals.

CPTC is owned by the Singapore Economic Development Board (EDB) and managed by Petrofac Training, the training arm of the Petrofac Group.

As the first training centre in the world to contain an industry-scale petro-chemical process plant, CPTC allows trainees to undergo comprehensive training in “live” plant operations under safe and controlled conditions.

Research & Development

The Institute of Chemical and Engineering Sciences (ICES), an autonomous national research institute under A*STAR (Agency for Science, Technology and Research), is located on Jurong Island. Given its established world leading laboratories and facilities, ICES has the capability to undertake a diverse range of activities from exploratory research to process development, optimisation and problem solving as well as the running of pilot-scale projects.

With the focus to provide highly trained R&D manpower, to establish a strong science base and to develop technology and infrastructure, ICES is well-positioned to support future growth of the energy and chemical industry in Singapore through new innovations and research development.

Comprehensive Security Framework

A security framework has been put in place on the island to protect investors' assets. This includes vigilant air, sea and land surveillance as well as security checks which are carried out as vehicles and personnel enter Jurong Island. At the checkpoint, advanced security technologies are deployed to allow for swift clearance and effective screening.

A fire station that is armed with hazardous materials fire fighting equipment and a 40-men fire fighting team has been located on Jurong Island. The station can respond to emergency situations in any part of the island in under 8 minutes.

Project Highlights

In 2005, construction of substantial storage capacities got underway with the Horizon, Vopak, Oiltanking and Hin Leong projects, which will collectively add 26 per cent to Singapore's total storage capacity of 18 million cubic metres. This will make Singapore the owner of the biggest oil storage capacity in Asia.

Integrated into the complex infrastructure of the island are underground **Jurong Rock Caverns**. The first phase of underground storage plans got underway with the creation of 1.47 million cubic metres of storage space below ground. A second phase of 1.73 million cubic metres is catered for if there is enough demand.

Sustainable Growth

Recognising the importance of achieving sustainable growth through high standards of environmental protection and socially responsible practices, Singapore is working to further enhance Jurong Island as a model of sustainable development.

This will be achieved through energy optimisation, water sufficiency via desalination and waste-water collection and recycling, as well as enhanced efforts to reduce emissions and improve already high standards of processing.

About the Singapore Economic Development Board

The Singapore Economic Development Board (EDB) is the lead government agency for planning and executing strategies to enhance Singapore's position as a global business centre. EDB dreams, designs and delivers solutions that create value for investors and companies in Singapore. Our mission is to create for Singapore, sustainable economic growth with vibrant business and good job opportunities.

EDB's 'Host to Home' strategy articulates how we are positioning Singapore for the future. It is about extending Singapore's value proposition to businesses not just to help them improve their bottom line, but also to help them grow their top line through establishing and deepening strategic activities in Singapore to drive their business, innovation and talent objectives in Asia and globally.

For more information on how EDB can help in your business and investment, please visit www.sedb.com

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