

# LNG TERMINAL: A PROMISING START

Just over a year after its official opening, Singapore's Liquefied Natural Gas (LNG) Terminal has developed significantly in proficiency and capacity. Some of the people behind the terminal share about its progress.

As of January 2015, 43 LNG vessels have delivered more than 2.5 million metric tonnes of LNG to Singapore. This is about 1.5 times the size of MacRitchie Reservoir.

SLNG's priority is to maintain high-quality operations at the LNG Terminal to ensure the safe, efficient and smooth delivery of natural gas to the Singapore network.

A third tank, additional regasification facilities and a Secondary Jetty were completed in early 2014, increasing the Terminal's throughput capacity from 3.5 million tonnes per annum (Mtpa) to 6 Mtpa.

**Dr Ang Pei Pei,**  
GM (Operations), SLNG

Built with the future in mind, the Terminal has more than sufficient storage and throughput capacity to meet the current domestic demand for regasified LNG. The excess capacity allows Singapore to better prepare for demand increases and hence enhance our energy security. Additionally, it also boosts the Terminal's ability to capitalise on business opportunities in the global LNG market, such as LNG trading activities.

We have hence expanded the portfolio of services that the Terminal offers.

Our Vessel Cool-down Services help cool the tanks of LNG ships that are newly-built; have just completed maintenance or repairs; or were completely emptied at their previous discharge port.

Our Storage & Reload Service allows customers to unload and store a cargo of LNG at the Terminal for a period of time before reloading onto one or more ships for delivery to a market.

**Sriram Narayanan,**  
VP (Commercial), SLNG

We are delighted to have received accolades from the LNG and engineering communities for the LNG Terminal. In July 2014, the Terminal received the IES Prestigious Engineering Achievement Award from the Institution of Engineers, Singapore.

Shortly after, we were honoured with the ASEAN Outstanding Engineering Achievement Award from the ASEAN Federation of Engineering Organisations in November 2014.

We also marked an important milestone in SLNG's development as a commercial entity when we secured a S\$1.11 billion term loan facility with five banks. The proceeds from the facility will be used to refinance some of the government loans that were extended to SLNG for the development of the Terminal. This facility reflects the growing confidence in the marketplace about the future of the LNG industry in Singapore.

**John Ng,**  
CEO, SLNG

SLNG awarded the Engineering, Procurement and Construction (EPC) contract for the Terminal's Phase 3 expansion to Samsung C&T Corporation in August 2014.

The EPC contract, valued at about S\$700 million, involves the construction of a fourth LNG storage tank and additional regasification facilities to increase the Terminal's throughput capacity to around 11 Mtpa.

With a capacity of 260,000 m<sup>3</sup>, the Terminal's new fourth storage tank will be the largest in the world. It will be capable of receiving a full load of cargo from a Q-Max carrier - currently the largest LNG carrier in the world.

The regasification facilities are targeted to be completed by 2017, while the fourth tank is slated to be ready by 2018.

**Peter Wood,**  
VP (Projects & Development), SLNG

The LNG Terminal has enhanced Singapore's energy security and competitiveness by allowing us to diversify our energy supplies and to tap on new sources of gas.

EMA will continue to enhance our energy security and competitiveness by adopting a tranche-by-tranche approach for the import of new gas supplies. There is a Request-for-Proposal currently in progress to appoint up to two new LNG importers to serve the gas market.

A second LNG terminal will be built in the east to support new industrial sites, power plants and enhance energy security.

**Lee Seng Wai,**  
Director (Gas Policy And  
Infrastructure Department), EMA

**SLNG**  
Singapore LNG Corporation