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#### **NEWS RELEASE**

# SEMBCORP MARINE'S SEMBAWANG SHIPYARD SIGNED MEMORANDUM OF AGREEMENT WITH ECOSPEC GLOBAL TECHNOLOGY

**Singapore, April 14, 2011:** Sembawang Shipyard, a wholly-owned subsidiary of Sembcorp Marine has signed a Memorandum of Agreement (MOA) with Ecospec Global Technology to provide customized and greener environmental solutions to the marine and offshore industry.

In anticipation of the huge demand for green environmental solutions to meet international and local regulations, this MOA will provide both companies with the capability to serve this demand and at the same time play a role in enhancing environmental protection. The objective of this partnership is to tap on the forte of both parties: Sembawang Shipyard's design and engineering expertise and Ecospec's technological developing capabilities to provide ship-owners with innovative and effective green solutions for complying with stringent international and local regulations. Ecospec which is an enterprising Singapore-based research and development technological company is a market leader in advance emission reduction and environmental technologies with an international presence and numerous technology patents to its name. Ecospec has developed the world's first emission abatement technology, CSNOx capable of removing SOx, CO2 and NOx in one system and vet the quality of wash water surpasses all IMO criteria, thus not resulting in secondary pollution. To cater to shipowners' emission reduction goals, different versions of CSNOx have been developed: cSOx, a system primarily to address the SOx issue but achieve at a carbon neutral position and CNOx, a system to take care of NOx emission and again at a carbon neutral position.

Apart from different versions of CSNOx, Ecospec has also developed other systems to provide green, non-chemical solutions for bio-fouling control with its BioMag system; corrosion control, ElMag system; boiler water treatment, ScaMag.

To showcase the variety of these revolutionary systems already developed or to be developed, a new state-of-the-art demonstration site will be erected in Sembawang Shipyard, in a simulated operating condition.

Both companies are confident that the strong co-operation will lead to their increased competitiveness in the marine and offshore industry.

### **About Sembawang Shipyard**

Sembawang Shipyard, a wholly owned subsidiary of Sembcorp Marine, has one of the largest integrated ship repair facilities in Southeast Asia. The shipyard's world-class reputation is based on the company's commitment to high quality standards, Health, Safety and Environment standards, timely delivery, superior customer service and innovative solutions.

Besides its proven expertise in the sectors of tankers, bulk carriers and container / cargo vessels, the shipyard is also recognised as a specialist in the niche markets such as passenger ship conversion / upgrading/ repairs, LNG carrier repairs, FPSO conversion, offshore conversion and new building, damage repairs and repair of chemical tankers, liquefied gas carriers and navy ships.

In July 2002, Sembawang Shipyard became the first shipyard in South East Asia to achieve ISO14001 Environmental System Certification by Det Norske Veritas Ltd. The certification is a firm endorsement of the shipyard's commitment and efforts towards environmental preservation and protection.

## **About Ecospec Global Technology**

Ecospec is a Singapore technological company that researches and develops cost-effective solutions to environmental issues in the marine and onshore industries. Founded in 2001, Ecospec has since established itself as a pioneer and global market leader in advanced emissions abatement and environmental technologies with a worldwide presence and numerous technology patents.

In 2009, CSNOx a groundbreaking green technology capable of effectively reducing  $SO_2$ ,  $CO_2$ , and  $NO_x$  was introduced. Until today, it is world's first and only commercially viable system able to remove these three gases in a single process and without causing secondary pollution. Ecospec pushes forth to continually develop and will be introducing new systems: BioMag, ScaMag and ElMag for environmental problems like bio-fouling, scaling and corrosion.

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Signing ceremony: (from left) Sembawang Shipyard's Executive Director Ms Wong Lee Lin and Managing Director Mr P.K. Ong, with Ecospec Global Technology's Managing Director Mr Chew Hwee Hong, and General Manager Ms Tany Tay.