

INVESTING IN CUTTING-EDGE CAPABILITIES TO SEIZE NEW OPPORTUNITIES



OUR GAME-CHANGING 30,000-TONNE LIFTING CAPABILITY

Sembcorp Marine's new 30,000-tonne capacity gantry cranes at Tuas Boulevard Yard (TBY) will greatly enhance our value proposition as a one-stop production centre for fabricating, assembling and installing larger, heavier and more complex projects. Mega-structures can be completely integrated before leaving TBY, instead of being transported out in several smaller parts that require further assembly and which will incur more costs and logistics for customers. TBY's superior lifting capability is a game-changing differentiator for us.



LEVERAGING R&D AS A STRATEGIC ENABLER

In 2019, Sembcorp Marine gained DNV GL certifications for our 3D printing procedures and specifications. We can now use 3D printing to make and restore parts for construction and repair projects. We will strengthen our 3D printing capability with large-format, metal-additive manufacturing printers to custom-make more components. This lowers material

wastage, shortens production lead-times, and allows us to better manage Sembcorp Marine's supply chain risks by reducing our reliance on external procurement.

We will soon set up an advanced manufacturing lab at TBY, with Singapore's Agency for Science, Technology and Research (A*STAR), to test-bed and implement Industry 4.0-related technologies. Besides 3D printing, this facility will develop integrated digital robotic systems, new solutions for tracking of assets, materials and manpower through Internet-of-Things (IoT), as well as Virtual and Augmented Reality applications for production control and visualisation.

SIGNIFICANT EVENTS

15 JAN

Sembcorp Marine acquires a 100% stake in Semb-Eco Pte Ltd, Semb-Eco Technology Pte Ltd and Semb-Eco R&D Pte Ltd



Sembcorp Marine engineers inspecting the Semb-Eco LUV Ballast Water Management System

25 FEB

Sembcorp Marine secures a contract to design and construct a 12,000-cubic-metre (cbm) LNG bunker vessel for Indah Singa Maritime Pte Ltd, a subsidiary of Mitsui O.S.K. Lines, Ltd (MOL)



Designed by Sembcorp Marine subsidiary LMG Marin, the MOL LNG bunker vessel comes with two GTT Mark III Flex membrane tanks and will be the largest of its kind built in Singapore, in terms of size and tank capacity

11 MAR

Keel-laying Ceremony for the Johan Castberg FPSO at Tuas Boulevard Yard



Project management teams from Sembcorp Marine and Equinor

JAN

FEB

MAR

APR

8-11 APR

Sembcorp Marine Repairs & Upgrades exhibits at the 2019 Seatrade Cruise Global event, held at the Miami Beach Convention Center in Florida, USA



Sembcorp Marine Repairs & Upgrades team with other delegates at Seatrade Cruise Global

9-11 APR

Sembcorp Marine participates in Sea Asia 2019, a leading maritime conference and exhibition in Singapore



Sembcorp Marine representatives at the biennial Sea Asia 2019

2 MAY

Sembcorp Marine completes new Corporate Office Building at Tuas Boulevard Yard



Tan Sri Mohd Hassan Marican, Chairman of Sembcorp Marine, cutting the ribbon at the opening ceremony of the new Corporate Office Building at Tuas Boulevard Yard



Sembcorp Marine's Corporate Office Building at Tuas Boulevard Yard

6-9 MAY



Sembcorp Marine participates in the Offshore Technology Conference (OTC) 2019 in Houston, USA

Representatives of Sembcorp Marine at the customer reception held at the Asia Society Texas Center

13 MAY

Sembcorp Marine inks an agreement with NYK Cruises Co. Ltd. to upgrade the *Asuka II* cruise ship at Admiralty Yard



Mr Fukashi Sakamoto, President of NYK Cruises Co. Ltd., exchanging signed contracts with Ms Wong Lee Lin, Advisor of Sembcorp Marine Repairs & Upgrades

22 MAY

Sembcorp Marine holds prize-giving ceremony for the annual Green Wave Environmental Care Competition, which attracted 281 project submissions from over 1,000 students



Sembcorp Marine President & CEO Mr Wong Weng Sun and Associate Professor Muhammad Faishal Ibrahim, Senior Parliamentary Secretary for Education and Social and Family Development, with student participants at Green Wave prize-giving ceremony

MAY

SIGNIFICANT
EVENTS

24 MAY

Sembcorp Marine completes SSCV *Sleipnir*, the world's biggest and strongest semi-submersible crane vessel, for Heerema Marine Contractors



VIPs and representatives of Sembcorp Marine and Heerema at the vessel's christening



Named after Norse god Odin's eight-legged stallion, *Sleipnir*'s two main cranes are capable of hoisting 20,000 tonnes in a single lift

4-7 JUN

Sembcorp Marine participates in Nor-Shipping 2019, a biennial conference and exhibition in Lillestrøm, Norway



Sembcorp Marine and other Singapore Pavilion delegates at Nor-Shipping 2019

MAY

JUN

JUL

AUG

2 JUL

The Norled Battery-powered ROPAX Ferries Strike-steel Ceremony at Tuas Boulevard Yard



Sembcorp Marine Head of Operations Mr Wang Zijian and Norled Project Manager Mr Geir Haaland initiating the first steel cut

18-20 JUL

Sembcorp Marine participates in National Engineers Day (NED) 2019, held at Devan Nair Institute for Employment and Employability



Mr Ong Ye Kung (right), Minister for Education, visiting the Sembcorp Marine booth at NED 2019

9 AUG

Sembcorp Marine participates in the 2019 National Day Parade



A contingent of 43 Sembcorp Marine representatives marching proudly in front of 27,000 spectators at NDP 2019

2 SEP

Sembcorp Marine announces new projects:

- FPSO conversion of VLCC *Ariake*, with Shapoorji Pallonji and Bumi Armada
- Conversion of LNG Tanker *Dwiputra* into a 125,000cbm FSRU for Mitsui O.S.K. Lines and Karpower International B.V.
- Conversion of gas carrier *LNG Flora* into a 127,000cbm FSU for Gasfin Development S.A.
- Upgrading works on the 173,400cbm FSRU *BW Magna* for BW LNG Pte Ltd
- Fabrication of 15 jacket foundations under a contract with Jan De Nul N.V., for the Formosa 2 Offshore Wind Farm



Dwiputra is renamed Karmol LNGT Powership Africa

17 SEP

Sembcorp Marine's Brazilian shipyard Estaleiro Jurong Aracruz (EJA) completed Petrobras P-68 FPSO, its first floating production, storage and offloading project



P-68 will be deployed to the ultra-deepwater Berbigão and Sururu fields in Brazil's Santos Basin

SEP

17-19 SEP

Sembcorp Marine participates in Gastech 2019 in Houston, USA



Sembcorp Marine representatives at Gastech 2019

15 AUG

Sembcorp Marine holds its first National Day Observance Ceremony at Tuas Boulevard Yard



Secretary-General of NTUC and Minister in the Prime Minister's Office, Mr Ng Chee Meng (centre in red), at Sembcorp Marine's National Day Observance Ceremony

29 AUG

Sembcorp Marine and Noble Corporation celebrate the successful upgrading of the *Noble Johnny Whitstine* and *Noble Joe Knight* jack-up rigs at Tuas Boulevard Yard



Sembcorp Marine and Noble Corporation project teams

SIGNIFICANT
EVENTS

30 SEP

Strike-steel Ceremony of MOL's 12,000cbm LNG bunker vessel at Tuas Boulevard Yard Steel Fabrication Facility



(From right to left) Sembcorp Marine President & CEO Mr Wong Weng Sun, Pavilion Energy Executive Vice President Mr Alan Heng and MOL Senior Managing Executive Officer Mr Yoshikazu Kawagoe initiating the first steel cut

SEP

29 OCT

Sembcorp Marine earns 3D printing certifications for parts used in construction and repairs



Representatives of Sembcorp Marine, DNV GL, National Additive Manufacturing Innovation Cluster and 3D Metalforge at the 3D printing certifications award ceremony

OCT

8 OCT

Sembcorp Marine hosted Ms Liv Lønnum, Norway's Deputy Minister of Petroleum and Energy, at Tuas Boulevard Yard along with Ms Anita Nergaard, Ambassador of Norway to Singapore, and 20 other Norwegian delegates from 13 oil and gas companies



Ms Liv Lønnum, Norway's Deputy Minister of Petroleum and Energy (second from right), at Tuas Boulevard Yard

NOV

1 NOV

Sembcorp Marine secures FPU construction and integration contract for Shell's Whale field development in Gulf of Mexico



Shell Vice President (Deepwater Projects) Ms Lucia Andrade (seated, left) with Sembcorp Marine President & CEO Mr Wong Weng Sun and other representatives at the Whale FPU contract signing



26 DEC

Sembcorp Marine wins two offshore platform contracts worth over \$550 million for Al Shaheen field and Tyra field redevelopment projects



North Oil Company CEO Mr Frederic Paux (seated, left) with Sembcorp Marine Head of Offshore Platforms Mr Samuel Wong and other representatives at the Al Shaheen field's Gallaf Batch 2 Project contract signing

8 NOV

Sembcorp Marine delivers the Q7000 well intervention semi-submersible rig to Helix Energy Solutions Group, Inc.



Senior Management of Sembcorp Marine and Helix at the Q7000 Naming Ceremony

11 NOV

Sembcorp Marine awards \$173,500 in SchoolBAG bursaries to 835 students



Sembcorp Marine SchoolBAG 2019 recipients with Guest-of-Honour Ms Indranee Rajah, 2nd Minister for Education

AWARDS AND ACCOLADES



LOW COST LNG RETROFIT CHALLENGE



The Sembcorp Marine-Singapore Institute of Technology team emerges as one of the top three winners in the Low Cost LNG Retrofit Challenge

PMI PROJECT OF THE YEAR 2018 - 2019 AWARDS



Sembcorp Marine places second runner-up in the Engineering & Construction Category A at the Project Management Institute Singapore Chapter Project of the Year 2018-2019 Awards, for the Kaombo Norte project

SINGAPORE INTERNATIONAL MARITIME AWARDS 2019



Sembcorp Marine wins the Offshore and Marine Engineering Award at Singapore International Maritime Awards 2019

WSH AWARDS 2019



Presented by the WSH Council, with support from the Ministry of Manpower, in recognition of Sembcorp Marine's high standards of workplace safety and health (WSH)

Workplace Safety and Health
Performance Award

Sembcorp Marine Tuas
Boulevard Yard
Silver

Sembcorp Marine
Pandan Yard
Silver

Workplace Safety and Health Award
Recognition for Projects (SHARP)

In recognition of projects or worksites with good WSH management systems and WSH Performance

Sembcorp Marine Tuas
Boulevard Yard
FSO Ailsa
Benchamas Explorer
Deepwater Titan
JE3T
Johan Castberg Hull
Noble Clyde Boudreaux
Pyrenees Venture
Shell Vito
Sleipnir
Transocean Norge

Sembcorp Marine
Pandan Yard
Borr Drilling - Gyne
Borr Drilling - Matt
Borr Drilling - Groa



WSH Innovation Award

Sembcorp Marine Tuas Boulevard Yard
Team Awesome - Eye Pad Arrangement
System (EPAS)



WSH Supervisor Award

In recognition of supervisors who take care of workers under their charge by improving safety and health performance at their workplaces

Sembcorp Marine Tuas Boulevard Yard
Mr. Andy Lai Yew Chiong

HR EXCELLENCE AWARDS
2019

Sembcorp Marine's unique transport service for employees, powered by the SWAT mobile app, wins a *Silver Award* in the *Excellence in HR Innovation* category of the HR Excellence Awards 2019

MARITIME HSSE CONTRACTOR
CONFERENCE 2019

Sembcorp Marine Head of HSE Mr Alex Teo (left) represents Sembcorp Marine in receiving the *Most Noteworthy Effort in HSE Award* at the Maritime HSSE Contractor Conference 2019, held at Radisson Blu Edwardian, Heathrow, UK

AWARDS AND ACCOLADES

22ND ASMI CONVENTION ON WSH INNOVATIONS IN MARINE INDUSTRIES



GOLD AWARD

Awarded to Hull Innovators from Admiralty Yard for their WSH Innovation Project: the Conta-Lifter

Awarded to Lions VI from Tanjong Kling Yard for their WSH Innovation Project: EZI-LAP



SILVER AWARD

Awarded to Cactus from Tuas Boulevard Yard for their WSH Innovation Project: the Exo-Grinder



BRONZE AWARD

Awarded to OPS Challengers from Admiralty Yard for their WSH Innovation Project: Just-Plug-It!

51ST ASSOCIATION OF SINGAPORE MARINE INDUSTRIES (ASMI) ANNIVERSARY DINNER



Mr Wong Weng Sun, Semcorp Marine President & CEO, receives the ASMI Special Recognition Award for his contributions to ASMI and to the development of Singapore's offshore and marine industry, while 11 Semcorp Marine employees are presented with the ASMI Certified Marine Supervisor Award