



MEDIA RELEASE

Houston, Texas
2 May 2023

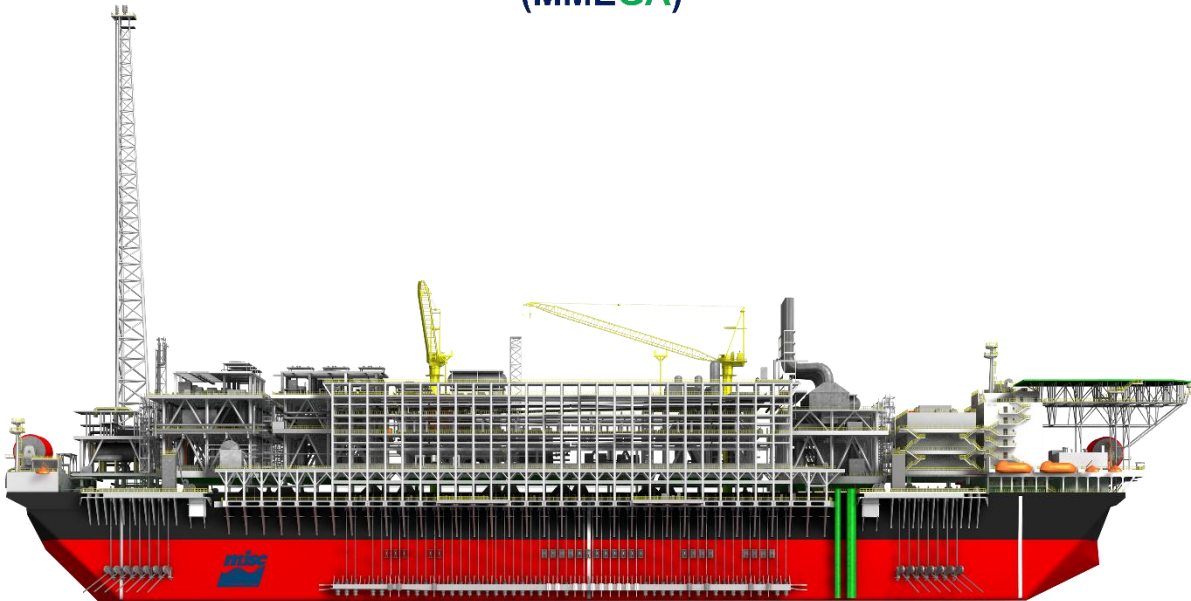
MISC UNVEILS MMEGA: THE WORLD'S FIRST FUTURE-READY NEWBUILD FPSO WITH MEGA-MODULE TOPSIDES

MISC today unveils its future-ready Newbuild Floating Production Storage & Offloading (NBFPSO) Unit at OTC Houston 2023. It is the world's first NBFPSO, which uses the Mega-Module topsides and incorporates sustainable technologies into the design, which makes it one of the largest and greenest NBFPSOs in the market.

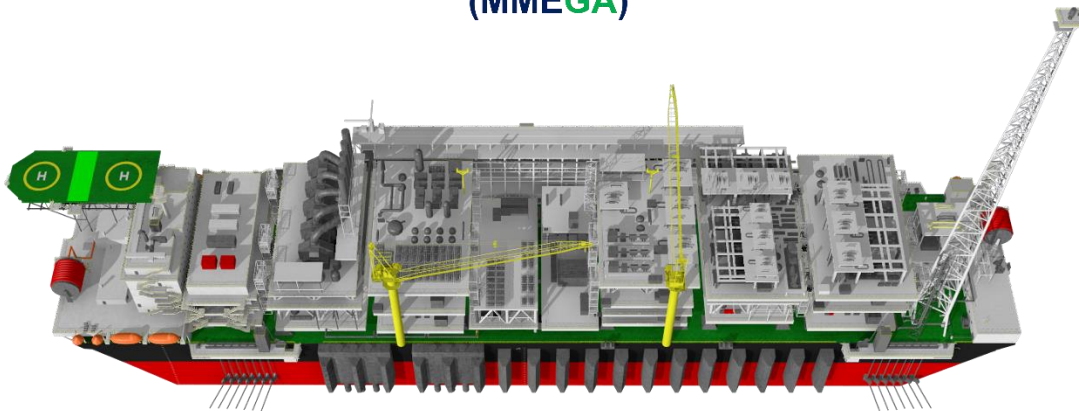
The NBFPSO, known as Mega-Module Engineering & Green Architecture (MMEGA), capitalizes on its innovative mega-module topsides that minimize interfaces and improves system integration. It reduces the overall engineering, procurement, construction, installation and commissioning (EPCIC) schedule and optimizes the capital expenditure. With Combined Cycle Power Generation and an all-electric drive, MMEGA has the potential to reduce CO₂ emissions by nearly 40%, making it one of the greenest NBFPSOs. MMEGA is based on modern fifth-generation FPSOs for deepwater and ultra-deepwater fields, with high production capacity and longer field life.

MISC President and Group CEO, Capt. Rajalingam Subramaniam said, *"MMEGA represents MISC's solution to the offshore industry's current and future needs. The design, which was 24 months in the making, demonstrates our continued commitment to developing innovative solutions that are both eco-efficient and economically viable. Leveraging on proven sustainable technologies, the MMEGA has the potential to reduce the CO₂ emission intensity by up to 40% per barrel of oil extracted, for a much-needed energy solution for the world. This would make MMEGA one of the greenest FPSOs in the world. We are confident that the improved design and construction flexibility of MMEGA will generate maximum economic value for our customers by reducing project costs and timelines. We look forward to sharing the solution and building greater synergy with like-minded partners to decarbonize the energy value chain and achieve society's aspiration for a just energy transition"*.

MISC Mega-Module Engineering & Green Architecture (MMEGA)



MISC Mega-Module Engineering & Green Architecture (MMEGA)



MMEGA is poised to be one of the world's largest and greenest FPSOs that incorporates proven sustainable solutions including all-electric drive for compression system, gas for reinjection and closed flare with combined cycle power generation system. In recognition of its innovative and sustainable features, the MMEGA has been granted with Approval-in-Principle (AiP) and the SUSTAIN -1 notation by the American Bureau of Shipping (ABS).



MMEGA comprises of a double-sided single-bottom hull and has been engineered to accommodate 8 topsides mega-modules, with a riser balcony at the port side that can hold up to 51 riser slots. It is designed as a spread moored FPSO with a design life of 35 years.

The topsides process and utility systems can process 225,000 bopd, 424 MMScfd of gas with 250,000 bpd of Water Injection and treat up to 60 mol% CO₂ in the well stream. MMEGA is capable of storing 2 million bbls of oil and offloading 1 million bbls of oil in 24 hours.

Note :

- mol% : mole percent
- bopd : barrels of oil per day
- MMScfd : million standard cubic feet per day
- bbls : barrels
- EPCIC : engineering, procurement, construction, installation, and commissioning

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About MISC Berhad

MISC Berhad (MISC or the Group) is a global leader in delivering energy-related maritime solutions & services with more than 50 years of experience in the maritime industry. Our principal businesses comprise energy shipping and its related activities, owning and operating offshore floating solutions, marine repair and conversion, integrated marine services, port management and maritime services as well as maritime education and training.

The Group's modern and diverse fleet consists of more than 100 owned and in-chartered vessels comprising of Liquefied Natural Gas (LNG) and Ethane carriers, Petroleum and Product vessels, Floating Production Systems (FPS) as well as LNG Floating Storage Units (FSU) with a combined deadweight tonnage (dwt) capacity of more than 13 million tonnes.

We are a proud constituent of the DJSI Emerging Markets Index and FTSE4Good Bursa Malaysia Index, a testament to our sustainability performance and strong Environmental, Social and Governance (ESG) practices. MISC Berhad is listed on the Main Board of Bursa Malaysia.

For more information, visit www.misc.com.my

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