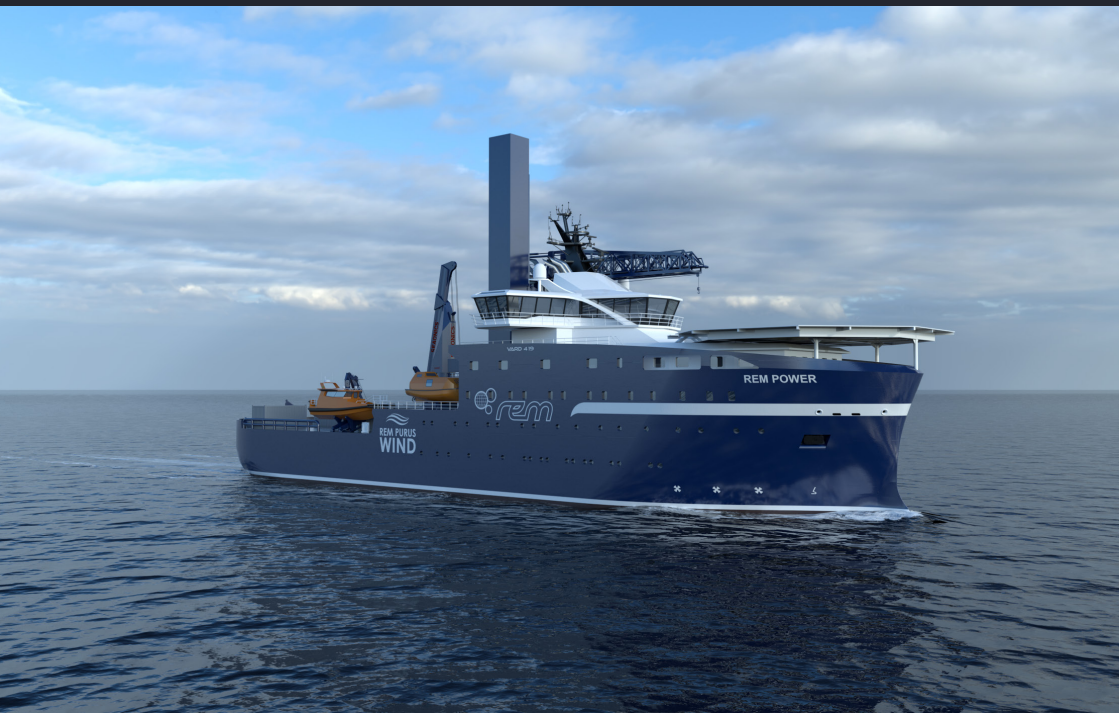
built on trust™

TECHNICAL SPECIFICATION

947 | REM POWER

Construction Service Operation Vessel



VARD™

a **Fincantieri** company

TECHNICAL SPECIFICATION

REM Power

OWNER:	REM Offshore
YARD NO:	947
DELIVERED:	May 2023
DESIGN	VARD 4 19
TYPE:	Construction Service Operation Vessel

THE VESSEL is a Construction Service Operation Vessel (CSOV) equipped with a Diesel-Electric & battery hybrid propulsion system designed for highly flexible and fuel-efficient operation. Substantial volumes in the vessel are set aside for future upgrades or conversion to zero emission energy sources.

The first CSOV delivered with VARD SeaQ integrated bridge system, the highest level of bridge integration with an extended architecture, including Kongsberg decision support system, utilizing a combination of VARD developed integration solutions, combined with touch monitors to gather various systems into one operator station, backed by full-featured onboard commissioning and verification features.

A world first to be equipped with Kongsberg Rim driven azimuth propellers as main propulsion. Permanent Magnet motors provide a compact and highly responsive and energy efficient thruster, while keeping operational and service costs low. The thrusters can also contribute to motion damping in DP operations. Further, the vessel is equipped with Kongsberg RIM DRIVE tunnel thruster that provide high hydrodynamic efficiency, and low noise and vibrations.

The first renewable vessel to be equipped with Metizoft Life Cycle Assessment system (LCA), that measure the vessel's environmental impacts throughout each stage of the lifecycle, from raw materials extraction to disposal. By analyzing all relevant Environmental Product Declarations (EPDs) a complete assessment of the total environmental impact is made.

MAIN PARTICULARS

Length overall incl. boat landing	88,71 m
Length between p.p.	79,2 m
Breadth moulded	19,5 m
Depth main deck	7,4 m
Max Draught	5,6 m

CLASS

1A, Walk2work, DYNPOS(AUTR), Naut(OC), Clean(Design), Recyclable, COMF(V2, C2), E0, BIS, Battery(Power), SPS

ACCOMMODATION

4 off Single Cabins, Captain class
23 off Single Cabins, Crew class
15 off Single Cabins, Passenger class
39 off Double Cabins , Passenger class

POWER AND PROPULSION

2 off Main Diesel generators	1790kW
2 off Main Diesel generators	990kW
ESS (Energy Storage System) Capacity	744kWh C3

2 off 2000kW Ø2,6m PM Drive Main Azimuth Propellers
2 off 1500kW Ø2,0m PM Rim Drive Tunnel thrusters
1 off 1500kW Ø 2,2m Swing -up Azimuth thruster

MAIN EQUIPMENT

Uptime 30m W2W system
Seaonics all electric 5t 3D Crane
Mare DC12WM Daughtercraft
Helideck 18.0m Load 8.6t

AUXILIARY MACHINERY

1 off Emergency generator, 343kVA/274 ekW

DYNAMIC POSITIONING

3 off Gyro compasses
3 off Wind sensors
3 off VRS
1 off Scenescan system
2 off DGPS/GLONAS
1 off cJoy
1 off Interface to offshore gangway
1 off Radar scann system

NAVIGATION AND COMMUNICATION SYSTEMS

GMDSS Sea area A3
2 off DGPS
1 off BNWAS
2 off Autopilot
1 off Speed log
1 off Echo sounder
1 off VDR
SeaQ™ Navigation and Communication
SeaQ™ Communication

LIFESAVING EQUIPMENT

1 off Rescue boat with davit
1 off Lifeboat combined rescue boat with davit
1 off Life boats with davits
2 off Life rafts with davits

ROLL REDUCTION SYSTEM

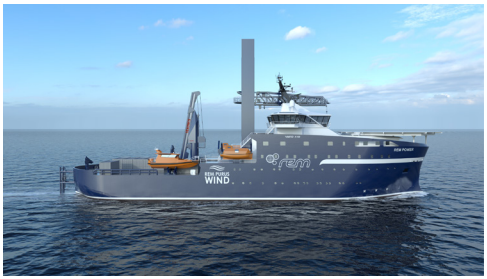
1 off Active controlled roll reduction system

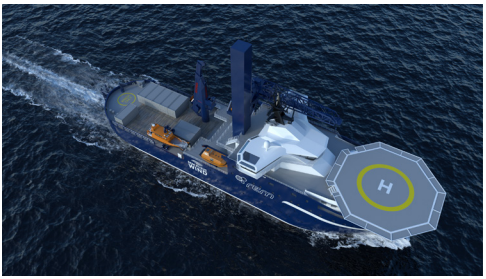
CAPACITIES

Low sulphur Marine Gas Oil(LS MGO)	500 m3
UREA	48 m3
CTV Fuel	50 m3
Fresh water	700 m3
Water ballast	1 200 m3
Cargo deck area	440 m2
Warehouse area	370 m2

ELECTRICAL SYSTEM AND POWER MANAGEMENT

SeaQ™ Integrated Automation System
SeaQ™ Power Management System
SeaQ™ Switchboard
SeaQ™ Energy Storage System





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