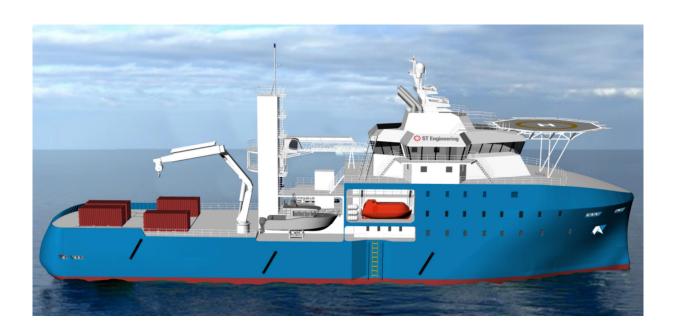


SERVICE OPERATION VESSEL



ST Engineering

SERVICE OPERATION VESSEL



The ST Engineering Service Operation Vessel (SOV) is designed to meet the operational needs of today's offshore renewables industry. Fitted with an electric propulsion system including energy storage system, the SOV is designed based on ST Engineering's innovative Eco-hull for low fuel consumption and enhanced seakeeping characteristics to maximise crew comfort of the crew, service personnel and specialists.

The SOV is configured with two azimuth-type main propulsion propellers, two tunnel bow thrusters and one retractable azimuth forward thruster. The propulsion system, coupled with an advanced dynamic positioning system (DP2) and heave-compensated gangway, equips the vessel for its primary function- the safe transfer of personnel from onboard to offshore wind turbines.

ST Engineering has integrated its proven in-house ship management and sensemaking systems (NERVA SMS²) that adopt data analytics and machine learning techniques to perform predictive maintenance and condition-based monitoring of the equipment, hence providing prescriptive and pre-emptive data to operators for better decision making.

PRINCIPAL SPECIFICATIONS		
LENGTH OVERALL (APPROX)	85.20M	
LENGTH BETWEEN P.P.	76.00 M	
BREADTH MOULDED	18.00 M	
DEPTH MOULDED	7.50M	
DESIGN DRAFT	5.30M	
SCANTLING DRAFT	5.60	
SPEED	13 KNOTS	
DYNAMIC POSITIONING	DP II	
ENDURANCE	30 DAYS	



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GUL YARD: 55 GUL ROAD, SINGAPORE 629353 T: (65) 6862 2902/3 F: (65) 6862 5382



SERVICE OPERATION VESSEL

MAIN AND AUXILIARY ENGINES	
PROPULSION SYSTEM	DIESEL ELECTRIC
MAIN PROPELLERS	2 X AZIMUTH THRUSTERS
(DIAMETER APPROX 2400MM)	
MAIN PROPULSION MOTORS	2 X 1500EKW
TUNNEL THRUSTERS	2 X 880KW
RETRACTABLE THRUSTER	1 X 880KW
MAIN GENERATOR	4 X 1700 EKW @ 1800 RPM
EMERGENCY GENERATOR	1 X 200 EKW @ 1800 RPM
	1 X BATTERY ENERGY
	STORAGE SYSTEM
BESS	1 X ENERGY MANAGEMENT
	SYSTEM

CAPACITIES

BALLAST WATER	1400 M ³
FUEL OIL	750M ³
FRESH WATER	600M ³
CARGO WEATHER DECK AREA	500M ³
SHELTERED DECK AREA	360M ³

25

60

ACCOMMODATION

CREW
TECHNICIAN

OTHER FACILITIES:

DRYING ROOM, CHANGE ROOMS, GYMNASIUMS, GAMING ROOM, SHOPS, RECEPTION, DAY ROOMS, CONFERENCE ROOMS, LOUNGE, MEETING ROOMS, OFFICES, HOSPITAL, VARIOUS LOCKERS

ROLL REDUCTION SYSTEM

2 X PASSIVE ROLL REDUCTION SYSTEMS & TANK

NAUTICAL AND COMMUNICATION EQUIPMENT

RADAR	1 X BAND 1 S BAND
ECDIS	2 X ECDIS CHARTING SYSTEM
DGPS	2 X DGPS
GMDSS	AREA 1, 2 AND 3
GYRO COMPASS	3 GYRO COMPASSES PLUS REPEATERS

DECK LAYOUTS

CARGO / PASSENGER LIFT	1 X 2T CAPACITY SUITABLE FOR
(6 FIXED HEIGHT LEVELS)	3 PERSONS
MOTION COMPENSATED	600 KG WALK-TO-WORK CARGO /
GANGWAY	1000 KG AT TIP
3D MOTION	20T WITHOUT COMPENSATION
COMPENSATED KNUCKLE	6T WITH COMPENSATION
BOOM CRANE	MAX ARM 29.5M
	MIN ARM 5.0M
	LIFTING HEIGHT 35.6M
SKIDDING SYSTEM	1 X SKIDDING SYSTEM FOR
	SKIDDING CONTAINERS
CTV LANDING	1 X PERMANENT BOAT LANDING @ SB
	1 X STRUCTURAL REINFORCEMENT
	READY FOR PS
HELICOPTER DECK	PREPARATION MADE FOR 1 X
(OPTIONAL)	7.5T @ 18M D VALUE

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