

HEA

Eco 4



HEA ENERGY

Al Khatem Tower | Level 18 | PO Box 4341
| ADGM | Abu Dhabi | UAE
Info@hea-energy.com
+971 2 585 5173

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A next generation offshore construction vessel, purpose-built in 2026 to support a wide range of offshore operations with efficiency and versatility. Designed to accommodate up to 100 personnel, it features a hybrid Integrated Electric Propulsion System (IEPS), advanced battery storage, and DPS-2 dynamic positioning. With a high-capacity main crane, spacious open deck, and full compliance with modern safety and class standards, HEA Eco 4 delivers reliable performance while aligning with the latest sustainability and operational excellence requirements.

General Information

Type:	Offshore Construction Vessel (OCV)
Design:	FOCAL 551WD 70M OCV
Built:	2026
Builder:	Fujian Mawei Shipbuilding, China
Class & Notations:	ABS A1, E, Offshore Support Vessel (FFV 1, SPS), AMS, DPS-2, BWT, CRC(SC), ESS-Li BATTERY, HYBRID [LEE, PMT], IP, MLC-ACCOM, RW, UWILD
Flag:	Panama
IMO:	1078470

Principle Dimensions

Length overall LOA:	69.8m
Hull length:	69.3m
Hull breadth:	17.6m
Total beam (BOA):	17.6m
Hull depth:	6.0m
Draft:	3.5m - 4.5m
Deadweight:	2100t
Deck load capacity:	7.5 t/m2
Main deck area:	520 m2

Generators and Machinery

Main generator:	4 x Cummins CCFJ1350-Z- WMTCM 1350kW @ 1800 rpm
Emergency generator:	1 x Cummins CCFJ250-Y- WMTCM 250 kW @ 1800 rpm
Battery:	3 x 172.2 KWh (500 KWh), LFP Battery system with BMS, 690V
Water maker:	2 x 15 m3/day
STP:	100 POB

Propulsion

AFT thrusters:	2 x TLAT2000WM Azimuth, 1470 KW @ 1020 rpm
FWD thrusters:	2 x Bow (TLTT165-CP), 700 KW @ 1180 rpm
Service speed:	12 knots

Tank Capacity

Fuel oil:	653 m3
Fresh water:	958 m3
Ballast water:	1500 m3
Endurance:	60 Days

Cranes

Main crane

Maker/ Model:	TSC Group PTC3150
Type:	Telescopic boom crane at SB
Boom length:	36m
Capacities:	70t @ 6.5m-8.5m, 20t @ 20m Aux 10t @ 7m-30m, 6t @ 36m
Hooks above main deck:	Main hook: 24m Aux hook: 41.5m

Auxiliary crane

Maker/ Model:	Jiangsu Sanke Offshore YQ3/13.5
Type:	Pedestal hydraulic crane at Port
Capacity:	3 ton @ 3.3-13.5 m

Safety Systems

Lifeboats:	2 x 50 POB
Life rafts:	4 x 25 Men
FIFI system	
Fire pumps:	2 x 1,830 m3/hr @ 117 m
Fire monitors:	2 x 1,200 m3/h (1 foam)

Operation Conditions

Criteria	Wind	Hs	Current
DP (best case):	32 m/s	2.5m	1.5 m/s
DP (worst case):	20 m/s	2.5m	1.37 m/s

Control SystZems

DP system:	Kongsberg K-POS 21
DP reference systems:	-Taut Wire System MK 16B -RADIUS 2000 Dual -HiPAP 352P

Navigation and communication systems, according to IMO requirements.

Accommodation and Facilities

Configuration:	Current
1 Man cabins:	12 Cabins
2 Men cabins:	20 Cabins
4 Men cabins:	12 Cabins
Total POB:	100 POB

Facilities

Galley, mess room, client offices, meeting room, recreation rooms, gymnasium, changing rooms, coffee rooms, sick bay, Heli reception/ departure facilities, laundry, stores, workshops, Starlink VSAT and DP-PRS