



VESSELS

Renewables

seaway<sup>7</sup>

# Seaway Ventus

## Vessel Info

*Full specification overleaf*

**Seaway Ventus** is a large self-propelled jack-up installation vessel designed to install offshore wind turbines and monopile foundations, able to accommodate up to 130 people on board.

The vessel is capable of installing wind turbine components in water depths of 65m, to a height of up to 182m above the sea and features a telescopic leg encircling crane with a maximum lifting capacity of 2,500t in retracted mode and 1,600t in extended mode.

The vessel is able to transport and install Monopile foundations as well as Transition Pieces, Anode Cages and Secondary Steel installation.

**Seaway Ventus** utilises a state-of-the-art electrical distribution system for the thrusters, main crane, energy storage system, and the option for a shore connection, to reduce the carbon intensity of its operations.



## Seaway Ventus

### GENERAL INFORMATION

|                                      |                       |
|--------------------------------------|-----------------------|
| DNV Self-elevating unit              |                       |
| IMO MODU code                        |                       |
| SNAME-RP T&R 5-5A and/or ISO 19905-1 |                       |
| Type                                 | GustoMSC NG-14000XL-G |
| Flag                                 | Cyprus                |
| Built                                | 2023                  |

### MAIN CHARACTERISTICS

|                              |                                                  |
|------------------------------|--------------------------------------------------|
| Hull length                  | 142.0m                                           |
| Hull width                   | 50.0m                                            |
| Hull depth                   | 11.0m                                            |
| Draft (max.)                 | 9.4m                                             |
| Dynamic positioning          | DP2                                              |
| Accommodation                | 130 persons                                      |
| Helideck                     | suitable for Sikorsky S92/S61<br>(12.8t - 22.2m) |
| Variable load (max.)         | 10,931t                                          |
| Deck load capacity main deck | 10t/m <sup>2</sup>                               |
| Free deck space (approx.)    | 4,600m <sup>2</sup>                              |
| Leg length under hull (max.) | 84m                                              |
| Leg type                     | x4 triangular open truss                         |
| Overall length               | 109m                                             |
| Spud can area (approx.)      | OR ≈ 160m <sup>2</sup>                           |
| Water depth                  | > 65m                                            |

### POWER SYSTEM

|                                     |                                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------|
| Main generators                     | 6 water cooled generator sets. Combined<br>output 15MW. Emission class IMO Tier III |
| Emergency generator                 | 750kW                                                                               |
| Energy storage system               | batteries rated at 4,000kWh                                                         |
| Heat recovery system                |                                                                                     |
| Regenerative energy recovery system |                                                                                     |
| LOHC fuel system prepared           |                                                                                     |
| Full DC electrical system           |                                                                                     |

### PROPULSION

|                |                              |
|----------------|------------------------------|
| Thruster type  | Azimuth and tunnel thrusters |
| Thruster power | 3x 3,500kW + 3x 3,000kW      |
| Maximum speed  | 11.7 knots                   |

### MAIN CRANE

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Type                             | Telescopic truss boom                        |
| Location                         | Starboard aft leg                            |
| Retracted mode:                  |                                              |
| Lifting capacity (max.)          | 2,500t                                       |
| Lifting height above deck (max.) | 116.5m<br>(at 30m radius)                    |
| Lifting height above LAT (max.)  | 142.5m<br>(with 15m air gap) (at 30m radius) |
| Extended mode:                   |                                              |
| Lifting capacity (max.)          | 1,600t                                       |
| Lifting height above deck (max.) | 155.4m<br>(at 38.5m radius)                  |
| Lifting height above LAT (max.)  | 182<br>(with 15m air gap) (at 38.5m radius)  |
| Auxiliary hoist:                 |                                              |
| Lifting capacity (max.)          | 250t                                         |
| Lifting height above deck (max.) | 166m<br>(at 26.6m radius)                    |

### AUXILIARY CRANES

|                |                                           |
|----------------|-------------------------------------------|
| Type           | Pedestal mounted knuckle boom             |
| Crane capacity | 20t at 35m radius<br>15t at 40m radius    |
| Type           | Pedestal mounted telescopic boom          |
| Crane capacity | 15t at 30m radius<br>/ 7.5t at 45m radius |



### JACKING SYSTEM

|                                   |                           |
|-----------------------------------|---------------------------|
| Type                              | Opposed rack and pinion   |
| Number of pinions                 | 4 layers of 24 pinions    |
| Jacking speed (max. hull lifting) | 0.8m/min                  |
| Jacking speed (max. leg handling) | 1.2m/min                  |
| Drive                             | Electric, individual, VSD |



client.enquiry@seaway7.com



www.seaway7.com