



# FOLLOW THE ENERGY

**EEMSHAVEN:** MAIN HUB IN OFFSHORE WIND INDUSTRY



## EEMSHAVEN MEETS MARITIME REQUIREMENTS OFFSHORE WIND INDUSTRY

- Draught: 7,5 - 14 m.
- Quay length: 5,293 m. (private and public quays)
- Jetty length: 1,130 m
- Width of fairway and basin(s): 110 - 350 m.
- Wide port entrance: suitable to transport assembled three-bladed rotors
- No infrastructural restrictions sail in/out of large material (power lines, bridges, locks, etc.)
- Near quay jacking
- Multiple heavy load quays (30 tons/m<sup>2</sup> and 20 tons/m<sup>2</sup>)
- Limited tidal range (2.5 m.)
- Approx. 6 hectares offshore sites available

## GOALS | PLANNING UP TO 2050

### GOALS 2030:

Netherlands (west coast):	± 11.5 GW
Germany (German Bight North Sea):	± 20 GW
United Kingdom	± 40 GW

### GOALS 2050:

Netherlands (west & northern coast):	± 20-40 GW
Germany (German Bight North Sea):	± 40 GW
United Kingdom:	± 75 GW

# FOLLOW THE ENERGY

Eemshaven is a major energy hub, producing around a third of the Netherlands' energy with an installed capacity of 8,000 MW. It hosts several large power stations and high- and medium-voltage stations, ensuring a stable energy supply. The port features three operational power stations, a new floating LNG terminal, two undersea high-voltage cable connections to Norway and Denmark, and 112 onshore wind turbines.

## A LEADING OFFSHORE WIND PORT

Eemshaven plays a key role in offshore wind farm construction and turbine maintenance, positioning it as a leading port in the North Sea offshore wind industry. Eemshaven lives and breathes offshore wind. In 2020/2021, the port supported transport and installation work for Hornsea Two (UK), the world's largest offshore wind farm, and in 2024, it facilitated the installation of the He Dreiht wind farm while TKF opened a cable factory in the port.

## IMPRESSIVE TRACK RECORD

Since 2009, Eemshaven has been a pivotal location for wind turbine assembly and shipping, building an impressive track record with projects like Alpha Ventus, Trianel Windpark Borkum, Gemini, Gode Wind, Hornsea Two, and Hollandse Kust Noord. Currently, Eemshaven serves as the base port for Denmark's Thor wind farm and Germany's Nordseecluster A, its 23<sup>rd</sup> and 24<sup>th</sup> offshore wind project. With numerous future offshore wind projects planned, Eemshaven is set to maintain its critical role in the renewable energy sector.

## PLUG IN

Follow the energy and plug into your opportunities in Eemshaven. Contractors, construction companies, service and maintenance companies in the offshore wind industry, please contact our business manager below.



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## LOGISTICS:

- 24 projects
- 10.62 GW (of which 3.0 GW turbines and 7.62 GW foundations)
- 1,471 turbines

## OPERATION & MAINTENANCE (O&M):

- 4 wind farms
- 1.7 GW
- 316 turbines

## REPOWERING:

- 2 wind farms
- 0.8 GW
- 160 turbines

## OFFSHORE PORT/SHIPPING CALLS:

- Work ships:
- Service Offshore Vessels (SOV's)/Jack-ups:
- Crew Transfer Vessels (CTV's)/Supply vessels:

2023 2024

65 25

463 504

511 846

## HELICOPTER FLIGHTS:

44 26



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# EEMSHAVEN: MAIN HUB IN OFFSHORE WIND INDUSTRY

## EXCELLENT SITUATED AND MANY FACILITIES

Eemshaven lives and breathes offshore wind. The port has become one of the leading ports in the offshore wind industry around the North Sea. Eemshaven is excellently situated, close to the North Sea, and well-equipped to accommodate logistic (offshore) projects. Many facilities are available in Eemshaven, like business sites, service locations, storage possibilities, (heavy load) quays, jetties, a heliport, office space, etc. which makes this port excellent suitable as base or service port. The distance to the wind farms (under construction, planned or completed) is short.

## TRACK RECORD

Eemshaven has an impressive track record of wind farms launched: successively **Alpha Ventus, Bard Offshore I, Borkum Riffgat, Borkum Riffgrund I, Trianel Windpark Borkum, Global Tech I, Gemini, Gode Wind I & II, Veja Mate, Race Bank, Nordsee One, Merkur Offshore, Borkum Riffgrund II, Hohe See, Albatros, Trianel Windpark Borkum II, Hornsea Two, Kaskasi, Hollandse Kust Noord, Gode Wind III, Borkum Riffgrund III, and He Dreiht**. Eemshaven is also in use for operation and maintenance activities. Currently the wind farms Gemini (Siemens Gamesa), Veja Mate (Siemens Gamesa), Merkur Offshore (General Electric - GE) and Deutsche Bucht (Vestas) have their O&M service base in Eemshaven. Moreover Global Tech I and BARD Offshore are maintained and/or repowered in Eemshaven.

## DIRECT ACCESS TO THE NORTH SEA

Due to the uncongested roads and ports, and efficient logistics there are hardly any waiting times in the Eemshaven. Eemshaven is multimodal attainable and has direct access to the North Sea. The port basins are wide and there are no sealocks or bridges, which makes it possible to pre-assemble the rotor blades and the nacelle in Eemshaven and transship the complete rotor star to the concerned wind farm. Furthermore Eemshaven has a heliport, a train station and an airport in the vicinity.

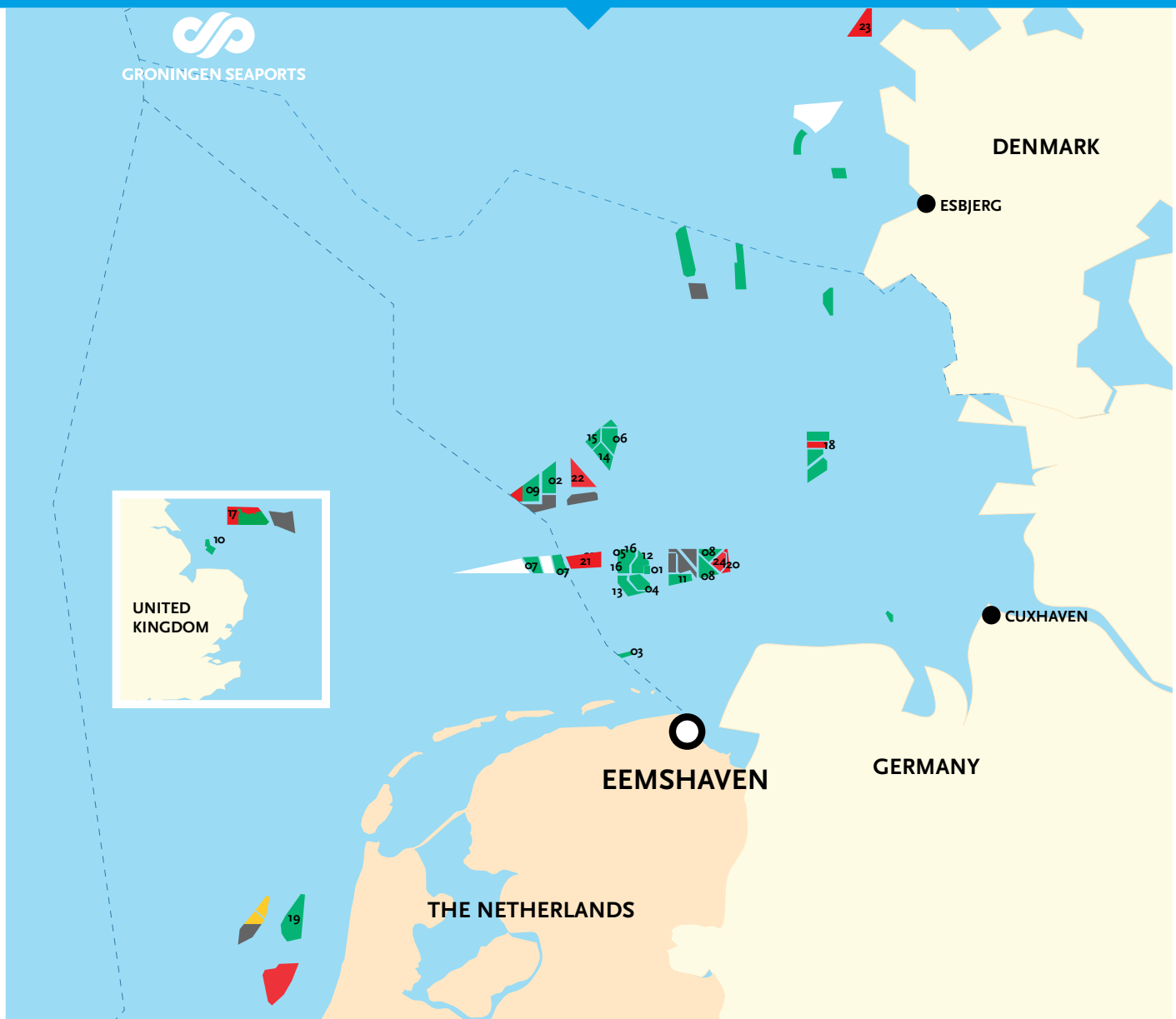
## SERVICE PORT

Both Emmahaven and Beatrixhaven are suitable for service and maintenance activities regarding the offshore wind business. There are sufficient berthing places for service operation vessels, cable layers and other offshore support vessels and it is possible to embark passengers. Besides that, plenty of storage areas are available: paved or unpaved, outside and/or in warehouses. Furthermore, several sites for permanent use are available around the Emma- or Beatrixhaven and can be leased. It is also possible to rent existing locations or make use of existing facilities.

**“EEMSHAVEN: ONE OF THE LEADING PORTS IN THE  
OFFSHORE WIND INDUSTRY AROUND THE NORTH SEA”**

# GENERAL SETTINGS EEMSHAVEN

- Within nautical range of planned windfarms
- Direct access to the North Sea
- Competitive lease prices
- Multimodal accessibility (road, rail, water, air)
- Presence of a heliport; close to airport
- Approx. 6 hectares offshore sites available
- Sufficient paved/unpaved storage area available (also adjacent to quay)
- Heavy cargo storage areas available
- Impressive track record (*see pages 14/15 and below*)
- Specialized stevedoring companies available (*see page 12*)
- Specialized offshore service companies available (*see page 12*)
- Heavy load quays (30 tons/m<sup>2</sup> and 20 tons/m<sup>2</sup> available)
- Extra widened bends to transport rotor blades and other exceptional components, even monopiles



## Offshore wind farms launched from Eemshaven

- 01 ALPHA VENTUS  
12 TURBINES | 60 MW | 28 MILES TO EEMSHAVEN
- 02 BARD OFFSHORE I  
80 TURBINES | 400 MW | 43 MILES TO EEMSHAVEN
- 03 BORKUM RIFFGAT  
30 TURBINES | 108 MW | 21 MILES TO EEMSHAVEN
- 04 BORKUM RIFFGRUND I  
78 TURBINES | 312 MW | 28 MILES TO EEMSHAVEN
- 05 TRIANEL WINDPARK BORKUM I  
40 TURBINES | 200 MW | 35 MILES TO EEMSHAVEN
- 06 GLOBAL TECH I  
80 TURBINES | 400 MW | 54 MILES TO EEMSHAVEN
- 07 GEMINI  
150 TURBINES | 600 MW | 30 MILES TO EEMSHAVEN
- 08 CODE WIND I EN II  
97 TURBINES | 582 MW | 40 MILES TO EEMSHAVEN
- 09 VEJA MATE  
67 TURBINES | 402 MW | 43 MILES TO EEMSHAVEN

- 10 RACE BANK  
91 TURBINES | 580 MW | 265 MILES TO EEMSHAVEN
- 11 NORDSEE ONE  
54 TURBINES | 332 MW | 28 MILES TO EEMSHAVEN
- 12 MERKUR OFFSHORE  
66 TURBINES | 396 MW | 35 MILES TO EEMSHAVEN
- 13 BORKUM RIFFGRUND II  
56 TURBINES | 450 MW | 28 MILES TO EEMSHAVEN
- 14 HOHE SEE  
71 TURBINES | 497 MW | 50 MILES TO EEMSHAVEN
- 15 ALBATROS  
16 TURBINES | 112 MW | 54 MILES TO EEMSHAVEN
- 16 TRIANEL WINDPARK BORKUM II  
32 TURBINES | 203 MW | 35 MILES TO EEMSHAVEN
- 17 HORNSEA TWO  
165 TURBINES | 1,320 MW | 248 MILES TO EEMSHAVEN
- 18 KASKASI  
38 TURBINES | 342 MW | 87 MILES TO EEMSHAVEN
- 19 HOLLANDSE KUST NOORD  
69 TURBINES | 759 MW | 125 MILES TO EEMSHAVEN

- 20 CODE WIND III  
23 TURBINES | 253 MW | 40 MILES TO EEMSHAVEN
- 21 BORKUM RIFFGRUND III  
83 TURBINES | 913 MW | 30 MILES TO EEMSHAVEN
- 22 HE DREIHT  
64 TURBINES | 960 MW | 50 MILES TO EEMSHAVEN
- 23 THOR  
72 TURBINES | 1,000 MW | 200 MILES TO EEMSHAVEN
- 24 NORDSEECLUSTER A  
44 TURBINES | 660 MW | 40 MILES TO EEMSHAVEN

- IN USE
- UNDER CONSTRUCTION
- APPROVED
- REQUESTED
- IN CONCEPT

# EEMSHAVEN: SERVICE PORT FOR MAINTENANCE ACTIVITIES

The profile of Eemshaven answers to be a service port for activities regarding the operations and maintenance (O&M) of offshore wind turbines. Both Emmahaven and Beatrixhaven are suitable to accommodate these kind of activities. There are sufficient berthing places for service operation vessels, cable layers and other offshore support vessels and it is possible to embark passengers. With connections for power supply and fresh water, storage possibilities, office space, customs clearance, and the presence of several logistic providers Eemshaven meets all requirements to accommodate maintenance and service companies.



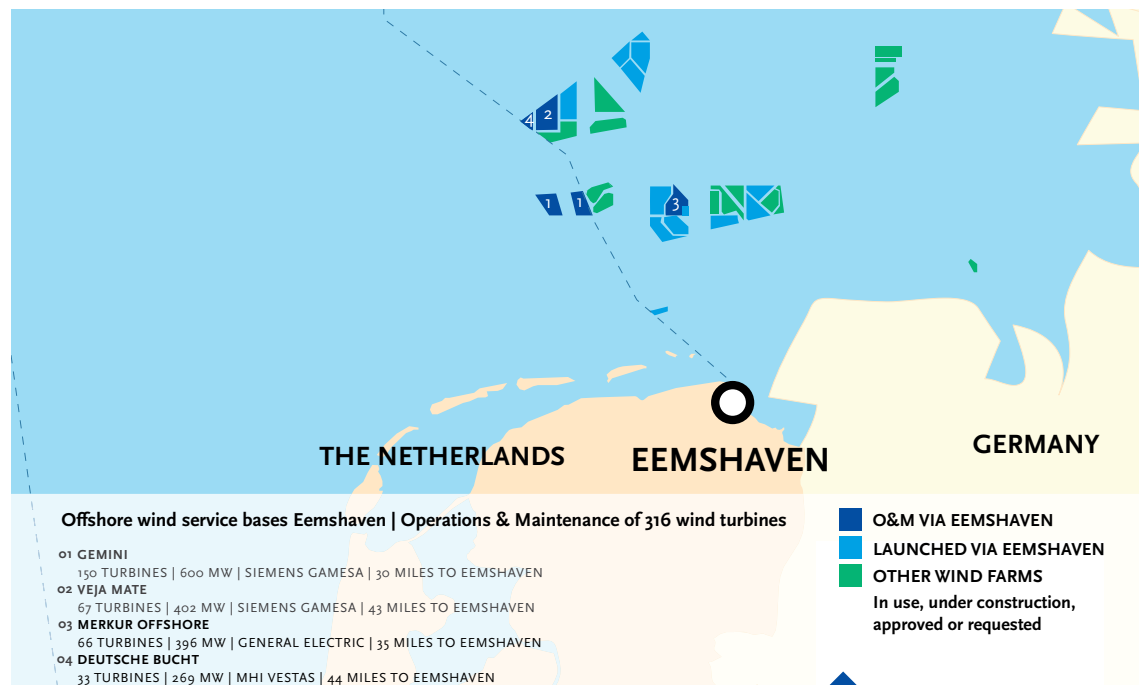


## EMMAHAVEN

Emmahaven is 500 metres long with a width of 120 to 150 metres, and a depth of 9.0 metres. A floating jetty and a services jetty provide more than 700 metres of berthing places for small and medium sized vessels. At the northern part of the Emmahaven Sealane operates a quay of 220 metres for general and/or dedicated cargo. At the western part Amasus has a jetty with a capacity of 130 metres and FincoEnergies operates a bunker terminal and supplies various high-quality fuels and lubricants for all oceangoing and inland vessels.

## BEATRIXHAVEN

Beatrixhaven is 1,200 metres long with a width of 110 to 150 metres, and a depth of 9.0 metres. At the northern part AG EMS operates a ferry terminal and EMS Maritime Offshore (EMO) runs an offshore service facility. EMO provides jetty capacity (300 metres) and offers space for different configuration options. EMO is also the offshore service base for Siemens Gamesa (Gemini, Veja Mate) and General Electric (Merkur Offshore) and the operator of Heliport Eemshaven. At the southern part Wijnne Barends operates a terminal and accommodates Subsea7. A supplier of building materials, Holemans Nederland, has established next to Wijnne Barends. Bek & Verburg, a specialist in waste collection, and Clarksons, a vessel agency and port service provider, together have a offshore service base behind the quay. Clarksons has its own location as well and Vestas uses this as O&M base for the Deutsche Bucht wind farm. At the western part Buss Terminal Eemshaven has a storage area for wind turbine parts and TKF produces cables for offshore wind farms.



## FOR SALE/LEASE MOORING FACILITIES, OFFICES, STORAGE, BUSINESS SITES

### FOR RENT (THIRD) PARTIES

1. EMS Maritime Offshore (storage + jetty)
2. Wijnne Barends (storage + quay)
3. Clarksons (storage + quay)
4. Buss Terminal Eemshaven (storage + quay)
5. Wagenborg (storage + quay)
6. Sealane Terminals (storage + quay)
7. Amasus Shipping (storage + jetty)
8. RelyOn (training centre)
9. FincoEnergies (bunkering)
10. Nijlicht (offices)
11. Services jetty (mooring facility)
12. Floating jetty (mooring facility)
13. Business sites (lease)

## FACTS & FIGURES

### EEMSHAVEN

- Close to wind parks being build (low costs)
- Multimodal accessibility
- Draught Beatrixhaven: 7.5 m
- Draught Emmahaven: 7.5 m
- Jetty capacity: 1,130 m
- Warehouses available; offices available
- Storage space outside
- Connection for power and water
- Heavy mobile cranes
- Fuel bunkering
- Electricity (220 VAC and 380 VAC)
- Grey water disposal
- Water

# BEATRIXHAVEN: DEDICATED FOR OFFSHORE WIND FACILITY

HEAVY LOAD QUAY; 30 TONS/M<sup>2</sup> | NEAR QUAY JACKING



Groningen Seaports has examined the logistic possibilities of the Beatrixhaven for offshore construction and transshipment vessels like jack-ups, pontoons and freighters with large cranes. Simulations demonstrated that most offshore vessels can approach this basin without problems in wind conditions mounting 8 Bft.



#### BEATRIXHAVEN

Beatrixhaven is the Eemshaven's youngest harbour basin. With the completion of the Beatrixhaven Eemshaven has strengthened its position as base and service port in the offshore wind industry. A special quay with a length of 220 metres has been built for extra heavy cargoes on the western side. This heavy load quay has a maximum capacity (equally divided load) of 30 tons/m<sup>2</sup> and has been especially designed for the transshipment of extra-heavy cargoes such as wind turbine components. Jack-up ships can moor just in front of the quay. The Beatrixhaven has a length of 1,200 metres and a turning basin has been put in place at the end. On the southern side a 1,200 metres long quay is available with space for companies to establish their businesses.

#### NEAR QUAY JACKING BEATRIXHAVEN

Jack-up vessels can moor in the Beatrixhaven just in front of the quay. That means these vessels can use their own cranes for loading activities.

#### ALLREADY ESTABLISHED

On the southern side stevedoring company Wijnne Barends, that stores, transships and handles a broad range of cargo, has been established. It also accommodates the offshore service company Subsea7. A supplier of primary building materials, Holemans Nederland, has a location next to Wijnne and Barends. Bek & Verburg, a specialist in waste collection and segregation, and Clarksons, a vessel agency and port service provider, have also constructed an offshore service base behind the southern quay. Clarksons also has its own location and accommodates Vestas for the O&M of wind farm Deutsche Bucht (33 turbines). On the western side Buss Terminal Eemshaven has a storage area for wind turbine parts and TKF (Twentsche Kabelfabriek) produces cables for offshore wind farms. On the northern side AG EMS operates a passenger terminal with a ferry service to the German Wadden island of Borkum. Besides this terminal EMS Maritime Offshore (EMO) runs an offshore service facility with a jetty to accommodate service operations vessels. Siemens Gamesa and Merkur Offshore (General Electric) have offshore service hubs on the EMO premises to operate and maintain 283 wind turbine generators for Gemini, Veja Mate and Merkur Offshore.

### FOR SALE APPROX. 6 HECTARES OFFSHORE SITES IN EEMSHAVEN



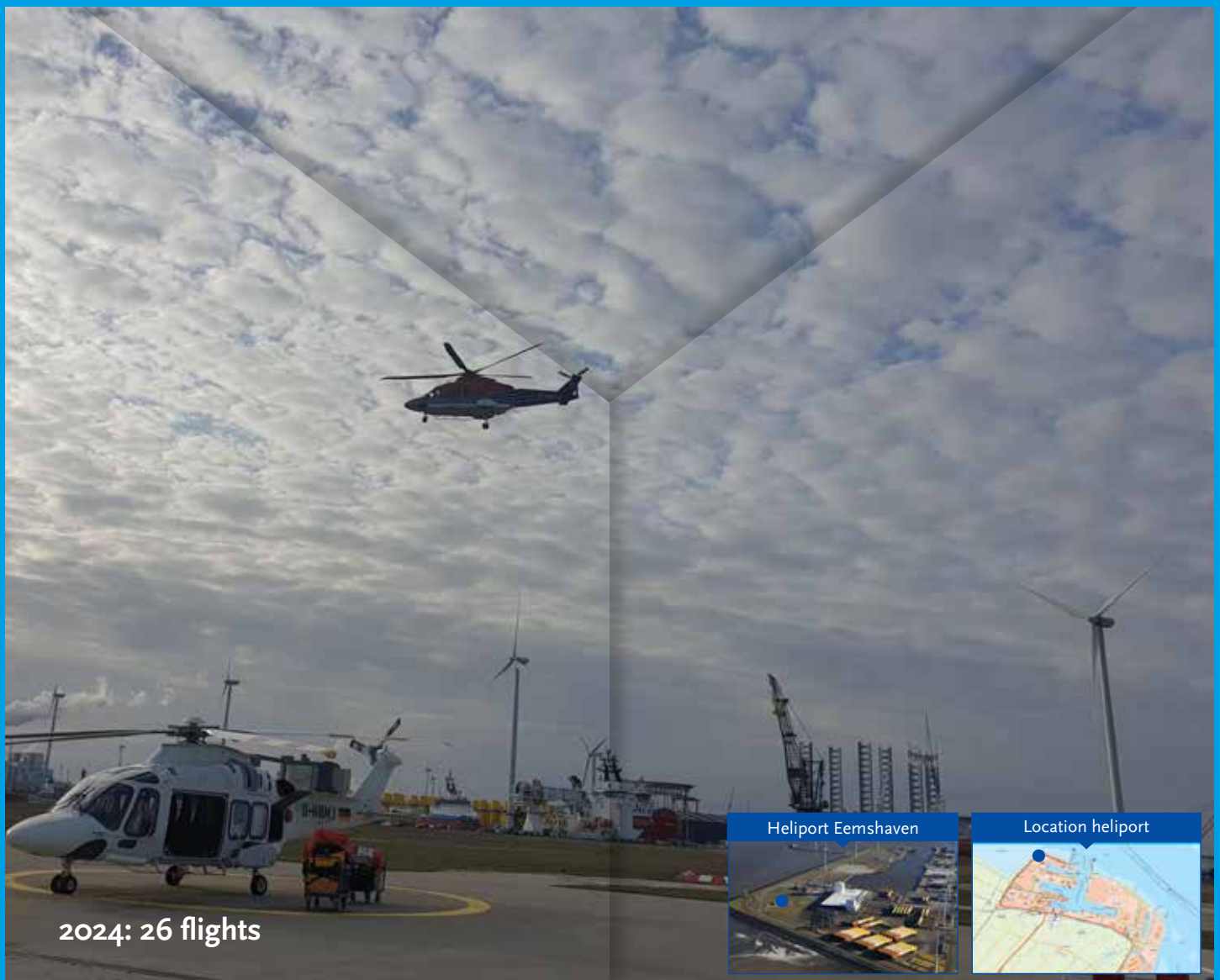
BUSINESS SITES • (HEAVY CARGO) QUAYS • MOORING FACILITIES FOR JACK-UP VESSELS



# HELIPORT EEMSHAVEN

Heliport Eemshaven is certified as international heliport and thus is the ideal gateway for transport and supply flights to offshore projects in the Exclusive Economic Zone in the North Sea. The infrastructure, including a take-off and landing area, is located in the north-western part of Eemshaven, close to the Borkum ferry service of AG EMS Borkumlijn. The total site covers an area of approximately 4.5 hectares, of which approximately 1.35 hectares is airfield. As well as a helicopter landing area, the site contains helicopter parking stands, an administration office and a fuel station. Heliport Eemshaven is operated by Ems Maritime Offshore (EMO). Owner of the infrastructure is Groningen Seaports.

It is necessary to use helicopters in addition to ships for the transport of personnel and tools because of the large distances to e.g. offshore wind farms. With the realisation of the heliport, Eemshaven is strengthening its strong position as a base and service port for the offshore industry. Please visit [www.heliport-eemshaven.nl](http://www.heliport-eemshaven.nl) or contact [heliport@offshoreservice.de](mailto:heliport@offshoreservice.de) by mail.







# STEVEDORING COMPANIES

Specialized stevedoring companies like Buss Terminal Eemshaven, Sealane Terminals, Wagenborg, and Wijnne Barends have been established in Eemshaven. They all offer quay facilities, handle logistic activities and have lots of experience in offshore wind business. Amasus Shipping and EMS Maritime Offshore also provide logistic services and offer for instance jetty capacity.

## OFFERING BERTHS QUAYS



[www.buss-terminal-eemshaven.com](http://www.buss-terminal-eemshaven.com)



[www.sealane.nl](http://www.sealane.nl)



[www.wagenborg.com](http://www.wagenborg.com)



[www.wijnnebarends.com](http://www.wijnnebarends.com)

## PRIVATE JETTIES



[www.offshoreservice.de](http://www.offshoreservice.de)



[www.amasus.nl](http://www.amasus.nl)

## OFFSHORE RELATED COMPANIES

- 2-B Energy
- Alert
- Broekman Logistics
- CIV Offshore
- Clarksons
- Collé Rentals
- Customs
- Datema Nautical Safety
- Eekels
- Enercon
- Equans
- Fugro
- Geoplus
- Gibb Group
- Hef en Hijs Nederland
- HICE
- Hijsspecialist.nl
- Hydraulikom
- Jan de Nul
- Kleinveld
- Lubbers Logistics Group
- Maintec
- Marine Coordination Services
- Marine Offshore Solutions
- Military Police
- Niestern Sander
- OWF (Boskalis | Volker Wessels)
- Peterson
- Q3 North
- Quite Right
- RelyOn
- Reym
- RWE
- Seaway7
- Siemens Gamesa
- Siri Marine
- TenneT GmbH
- TenneT Nederland
- TKF (Twentsche Kabelfabriek)
- Total Offshore
- Total Ship Supply
- Total Wind
- Unishore
- United Rentals
- Van Oord
- Vestas
- WIND Cable Logistics
- Windea



# SERVICE OFFSHORE VESSELS (SOV's)

In recent years, Eemshaven has not only grown into an important base port for offshore wind logistics (18 offshore wind farms have been constructed via Eemshaven), but also into a service port for the maintenance of the currently installed offshore wind turbines. Eemshaven is already the maintenance base for the Gemini, Veja Mate, Merkur Offshore and Deutsche Bucht wind farms (316 turbines in total). Each wind farm uses its own service offshore vessel for operation & maintenance activities. Eemshaven is base port for the vessels below and offers sufficient berthing places for other SOV's, cable layers and/or supply vessels.

**Wind Innovation** for Borkum Riffgrund III



**SOV's in Beatrixhaven** for several projects



**SOV's in Beatrixhaven** for several projects



**Skandi Constructor** for Merkur Offshore



# REFERENCES

## EEMSHAVEN

## OFFSHORE WIND

July 2009



**JB 114 for Alpha Ventus**  
Julianahaven

September 2012



**Oleg Strashnov for Borkum Riffgat**  
Wilhelminahaven

April 2013



**Bold Tern for Bard Offshore I**  
Wagenborg, Julianahaven

July 2013



**Innovation for Global Tech I**  
Buss Terminal Eemshaven,  
Julianahaven

September 2013



**MPI Adventure for Trianel Borkum**  
Buss Terminal Eemshaven,  
Julianahaven

March 2014



**Pacific Orca for Riffgrund I**  
Buss Terminal Eemshaven,  
Julianahaven

March 2014



**Borwin Beta for Merkur Offshore**  
Wijnne Barends, Beatrixhaven

September 2015



**Aeolus | Pacific Osprey for Gemini**  
Buss Terminal Eemshaven,  
Julianahaven

March 2016



**Seajacks Scylla for Veja Mate**  
Buss Terminal Eemshaven,  
Julianahaven

August 2016



**Innovation for Race Bank (UK)**  
Buss Terminal Eemshaven,  
Julianahaven

November 2016



**Saipem 7000 (maintenance)**  
Wilhelminahaven

March 2017



**MPI Enterprise for Nordsee One**  
Buss Terminal Eemshaven,  
Julianahaven



**“EEMSHAVEN OFFERS OPTIMAL CONDITIONS FOR OFFSHORE VESSELS. SPACE, WELL-SKILLED LOGISTIC PROVIDERS AND THE PRESENCE OF FACILITIES NEEDED”**

February 2018



**Vole au Vent for Borkum Riffgrund II**  
Wagenborg, Julianahaven

May 2018



**Seafox 5 for Merkur Offshore**  
Buss Terminal Eemshaven,  
Julianahaven

November 2017



**Pacific Osprey for Hohe See**  
Buss Terminal Eemshaven,  
Julianahaven

February 2018



**Innovation for Albatros**  
Wagenborg, Julianahaven

July 2019



**Taillevent for Trianel Borkum II**  
Doekegatkanaal

March 2021



**Wind Orca for Hornsea Two (UK)**  
Buss Terminal Eemshaven,  
Julianahaven

March 2022



**Seaway Strashnov for Kaskasi**  
Buss Terminal Eemshaven,  
Julianahaven

June 2023



**Wind Osprey for Hollandse Kust Noord**  
Buss Terminal Eemshaven,  
Julianahaven

June 2023



**Les Alizés for Borkum Riffgrund III**  
Wagenborg, Julianahaven

June 2024



**Barge with monopiles for He Dreiht**  
Buss Terminal Eemshaven,  
Julianahaven

March 2025



**Zhi Yuan Kou for Thor (DK)**  
Buss Terminal Eemshaven,  
Julianahaven

July 2025



**Boreas for Nordseecluster A**  
Buss Terminal Eemshaven,  
Julianahaven

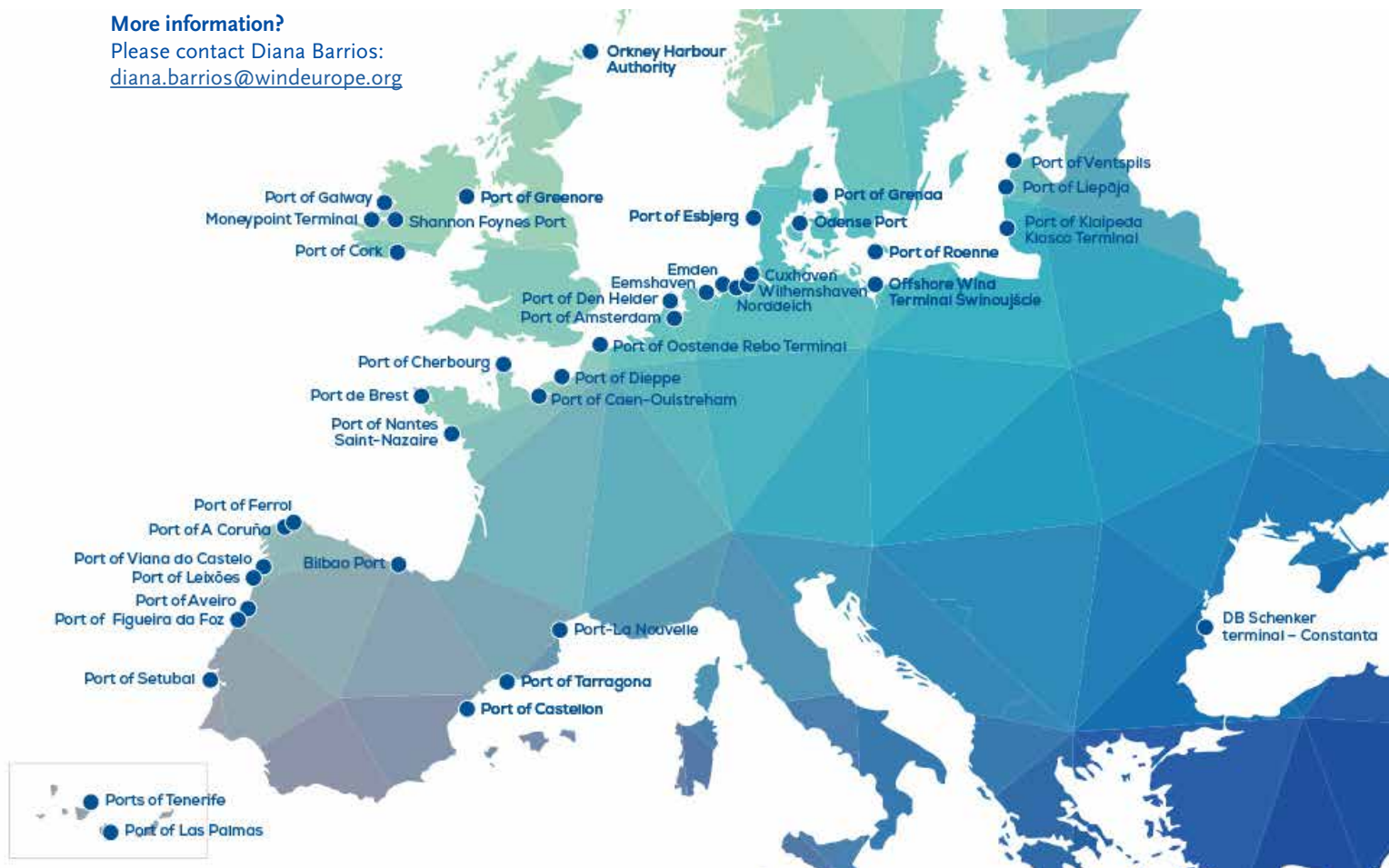
# OFFSHORE WIND PORTS PLATFORM | WINDEUROPE

Offshore wind today represents 3% of the EU power demand. Europe now has a total installed offshore wind capacity of over 30 GW. This corresponds to more than 5,954 grid-connected wind turbines in 126 offshore wind farms across 13 countries. European Government pledges to add up to 150 GW of offshore wind in the next decade to comply with Europe's climate ambitions. This huge expansion entails a major increase in how much new offshore wind in Europe installs each year: from 3 GW a year today to 7 GW by mid-decade and over 20 GW a year by 2030.

The Ports Platform is currently composed of 35 members. The group has a steering committee composed of 6 of the most experienced ports in the industry. They steer the work of the platform and set the priorities of the working group. Eemshaven chairs the Port Platform steerco. Ports are central to the development of offshore wind. They play a key role for the local supply chain, logistics and supporting infrastructure (e.g. storage of components). Ports are where operation and maintenance of offshore wind farms are run, where all offshore wind turbines and other equipment get transported, and where floating turbines are assembled. And they will have a prominent role in the production and distribution of renewable hydrogen.

## More information?

Please contact Diana Barrios:  
[diana.barrios@windeurope.org](mailto:diana.barrios@windeurope.org)





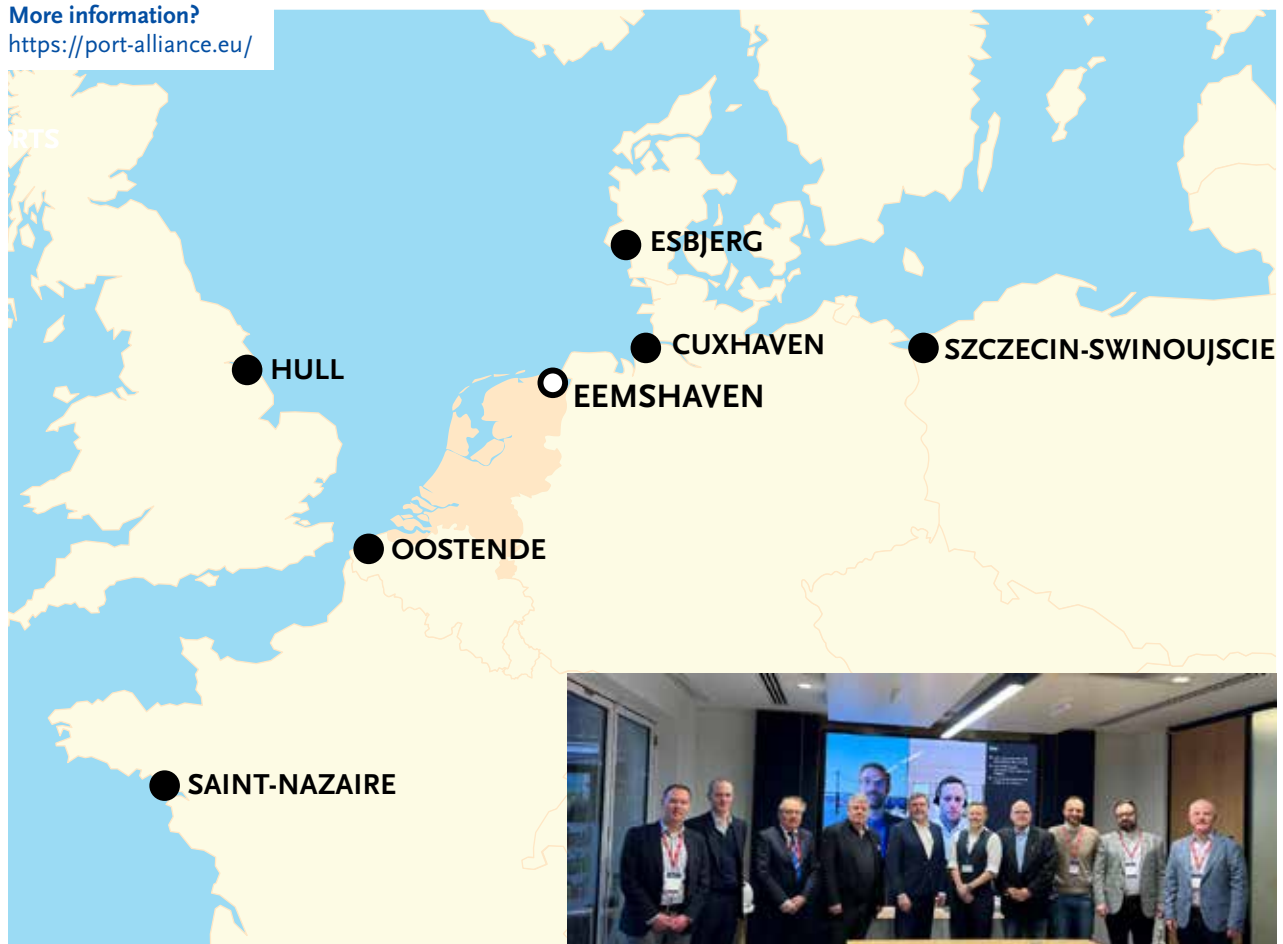
# PORT ALLIANCE OF MAJOR EUROPEAN WIND PORTS

Even though they are usually competitors, representatives of the six largest wind ports in Europe shook hands and signed a declaration in January 2023 at Port Esbjerg in Denmark. They have agreed to join forces to speed up the green transition in order to meet Europe's ambitious offshore wind deployment targets. The ports lack capacity. The European offshore wind strategy target is to deploy at least 65 GW of offshore wind by 2030. A tall ask. Not least considering that there is currently just over 13 GW in the seas around Europe. In other words, Europe aims to install well over five times as much offshore wind in the next seven years as we have built during the previous twenty years. This target puts great pressure on European wind ports because there is currently not enough port capacity to install all these offshore wind farms by the deadline.

Seven of Europe's leading wind ports will try to change that. Although they are competitors, they have joined forces in a collaboration: Port Alliance. The aim is to collaborate at an operational and practical level. The participating ports are Port Oostende (Belgium), Groningen Seaports/Eemshaven (The Netherlands), Niedersachsen Ports/Cuxhaven (Germany), Nantes-Saint Nazaire Port (France), Humber (UK), Port Esbjerg (Denmark), and Port Szczecin-Swinoujscie (Poland).

## More information?

<https://port-alliance.eu/>



# EEMSHAVEN: POWER POINT (8,000 MW) FOR WIND ENERGY

Eemshaven is not only base port or service port for the offshore wind industry, but it is also the landing port for international connections, especially for wind energy. Several converter stations are operational in Eemshaven and there are connections with Norway, UK, Germany, and Denmark. Add the energy producing companies established in Eemshaven and it is obvious that with a capacity of 8,000 MW Eemshaven is the power point of and balancing hub for Northwest Europe.



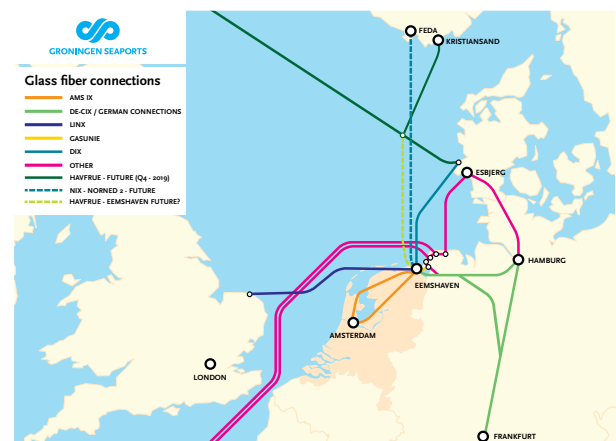
Landing station Gemini



Wind farm 'Ten noorden van de Waddeneilanden' will land in Eemshaven



Converter station TenneT | NorNed (above) - undersea high voltage cable between Eemshaven (NL) and Feda (N) and TenneT | COBRA (under) - cable between Eemshaven (NL) and Endrup (DK).



Present and future fibre connections e.g. the COBRACable to Denmark. It is expected that many future wind farms are located close to this COBRACable.

# NAUTICAL POSSIBILITIES



## BEATRIXHAVEN

Length	1,200 m
Width	110-150 m
Draught max.	7.5 m
Jacking permitted	Yes

### QUAY:

Quay length (south)	1,200 m (pressure 4-6 ton/m <sup>2</sup> )
Quay length (west)	220 m (pressure 30 ton/ m <sup>2</sup> )
Quay width	30 m
Quay height	4.4 m

PASSAGE WIDTH SLIDING GATES:	ENTRANCE GATE:
Heavy load quay	10.6 m
Holemans	8.3 m
Heliport	6.9 m

### OTHER FACILITIES:

Private jetty	300 m
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## JULIANAHAVEN

Length	1,200 m
Width	315 m
Draught max.	11.5 m
Jacking permitted	Yes, >15 m from quay *

### QUAY:

Quay length (north)	1,100 m (pressure 6-20 ton/m <sup>2</sup> )
Quay length (south)	1,200 m (pressure 2.5-7.5 ton/m <sup>2</sup> )
Quay width	varies
Quay height	4.4 m

### PASSAGE WIDTH SLIDING GATES:

Holland Malt	8.2 m
Westlob	8.6 m

## WILHELMINAHAVEN

Length	1,200 m
Width	275-350 m
Draught max.	14 m
Jacking permitted	Not allowed

### QUAY:

Quay length (north)	525 m (pressure 4-10 ton/m <sup>2</sup> )
Quay length (south)	450 m (pressure 4-6 ton/m <sup>2</sup> )
Quay length (east)	275 m (pressure 4-6 ton/m <sup>2</sup> )
Quay width	40 m
Quay height	5.5 m

### PASSAGE WIDTH SLIDING GATES:

North quay	6.15 m
South quay	10.05 m
Losstoep Theo Pouw	6.10 m

## EMMAHAVEN

Length	500 m
Width	110-150 m
Draught max.	7.5 m
Jacking permitted	Not allowed

### QUAY:

Quay length (north)	250 m (pressure 4-6 ton/m <sup>2</sup> )
Quay width	varies
Quay height	4.4 m

### OTHER FACILITIES:

Private jetty	130 m
Services jetty	120 m
Floating jetty	740 m
Losstoep Wagenborg	320 m (mooring location pontoons)

# SOIL CONDITIONS

## EEMSHAVEN SUITABLE

### FOR JACKING

The port of Eemshaven is situated in the north of the Netherlands at the river Ems close to Germany, bordering the Wadden Sea. Most of the port area is reclaimed land outside the primary dikes. The area has been raised with 4 to 5 m sand, therefore providing stable soil conditions for on-shore developments. Jack-up vessels frequently visited Eemshaven during the last years to load heavy equipment required for the construction of wind farms.



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#### JULIANA- AND BEATRIXHAVEN BASINS

Based on cone penetration tests a W-E profile has been constructed directly North of the western part of the Juliana harbour basin. The depth of the soil profile is 50 m starting at approximately NAP+4,5 m. The profile shows a sandy top layer to approximately NAP -15 m, followed by a layer of clayey silt, silty clay to NAP-19 m/NAP-23 m. Underneath follows generally a well compacted sand layer.



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