



Issued 09/2016

An aerial photograph of a large port terminal. The foreground and middle ground are dominated by stacks of wind turbine components, including long white nacelles, blue and white tower sections, and numerous blades. In the background, a busy port area is visible with several yellow and red gantry cranes and a large stack of colorful shipping containers. The sky is blue with scattered white clouds.

**EUROGATE - WIND ENERGY
SIZE IS OUR DAILY BUSINESS**

MOVING THE GLOBAL ECONOMY



ONSHORE AND OFFSHORE WIND ENERGY IN EUROPE – A BIG CHALLENGE FOR LOGISTICS

According to the European Wind Energy Association (EWEA), wind energy in 2020 is forecasted to meet up to 14.9 per cent of the EU's electricity demand totalling 192 GW – and by 2030, this will increase to 24.4 per cent of demand totalling 320 GW. Furthermore, the EWEA believes that, by 2050, wind energy can provide half of Europe's total power supply.¹

For wind turbine manufacturers and suppliers of electrical power, the installation of wind farms thus becomes a genuine, big challenge for logistics. The handling of such heavy and giant wind energy components requires specific know-how as well as the suitable infrastructure and superstructure, which only qualified logistic providers can offer.

EUROGATE – SIZE IS OUR DAILY BUSINESS

EUROGATE is Europe's leading container terminal logistics group that is independent of shipping companies. Size is our daily business, not only when it comes to container handling. As a terminal operator, we also have the essential know-how and many years of experience in handling and storing over-sized and heavy goods. Our seaport terminals in Bremerhaven and Wilhelmshaven are ideally located for handling both onshore and offshore wind energy components. They offer short distances to wind park projects in Germany's North Sea waters and excellent connections to the German and European hinterland via road or inland waterway.

 Offshore wind farms



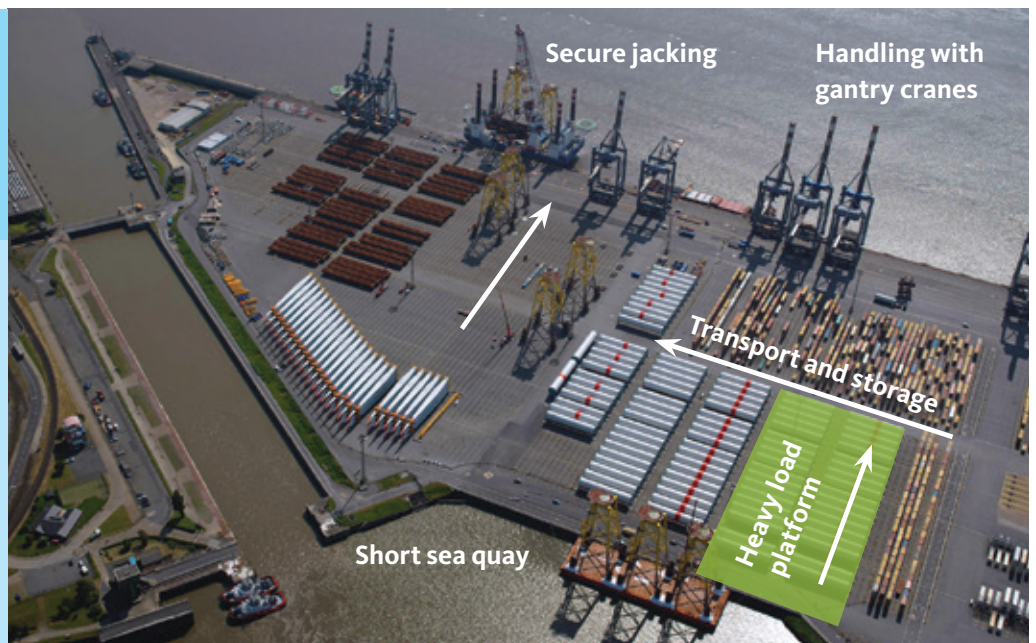
¹Source: "Wind energy scenarios for 2030"; A Report by the European Wind Energy Association (EWEA), August 2015.



ONE BASE PORT FOR EVERYTHING

Handling, transport, storage and pre-assembly of:

- Foundations
- Piles
- Towers
- Turbines
- Hubs
- Blades
- And more



BREMERHAVEN

The wind energy sector enjoys beneficial support in Bremerhaven. Around 270 companies and institutions from industry and science know the advantages – and now call Bremen and Bremerhaven their home. Hence, the German port of Bremerhaven has experienced an economic upturn, transforming into a **major regional hub for wind energy**.

Bremerhaven provides highly qualified maritime services with logistic service providers, tug companies, an experienced port authority and harbour master as well as extensive, highly efficient yards.

The **EUROGATE Container Terminal Bremerhaven** is nautically and geographically well located, offering direct access to the German North Sea. The main quay faces the open sea, with the Weser river shipping channel and two large turning basins right in front. Passing a lock, a tide-independent short sea quay is available for the handling of particularly heavy components.

TERMINAL FACILITIES FOR HANDLING WIND ENERGY COMPONENTS



Equipment: gantry cranes (max. 163 t in tandem lift), straddle carriers, reach stackers up to 40 t, forklifts up to 16 t, tractors and trailers



Existing Roll On/ Roll Off Ramp



Draft:
15 m



Terminal area for assembly and storage: 250,000 m²



Length of quay: exclusive use up to 500 m



Area loading:
up to 20 t/m²



Jacking:
verified and proved for various Jack-Up vessels



Safety and security: ISPS and AEO certified, free trade zone



WILHELMSHAVEN

Germany's only deep-water port started operation in August 2012 and is situated directly at the open sea. With a short approach of only 23 nautical miles and in close proximity to the offshore wind parks in the German North Sea, the **EUROGATE Container Terminal Wilhelmshaven** offers marvellous conditions with hardly no restrictions for the handling of big wind energy components.

It meets all requirements:

- Tide-independent shipping channel, with a water depth of 18 m
- Direct motorway access
- The world's biggest gantry cranes
- Flexible storage area

All this is complemented by EUROGATE's expertise in handling high and heavy project cargo.

TERMINAL FACILITIES FOR HANDLING WIND ENERGY COMPONENTS



Equipment: gantry cranes (max. 110 t), intermodal transport cranes, straddle carriers, tractors and trailers



Draft:
18 m



Terminal area for assembly and storage: 150,000 m²



Length of quay: exclusive use
up to 250 m



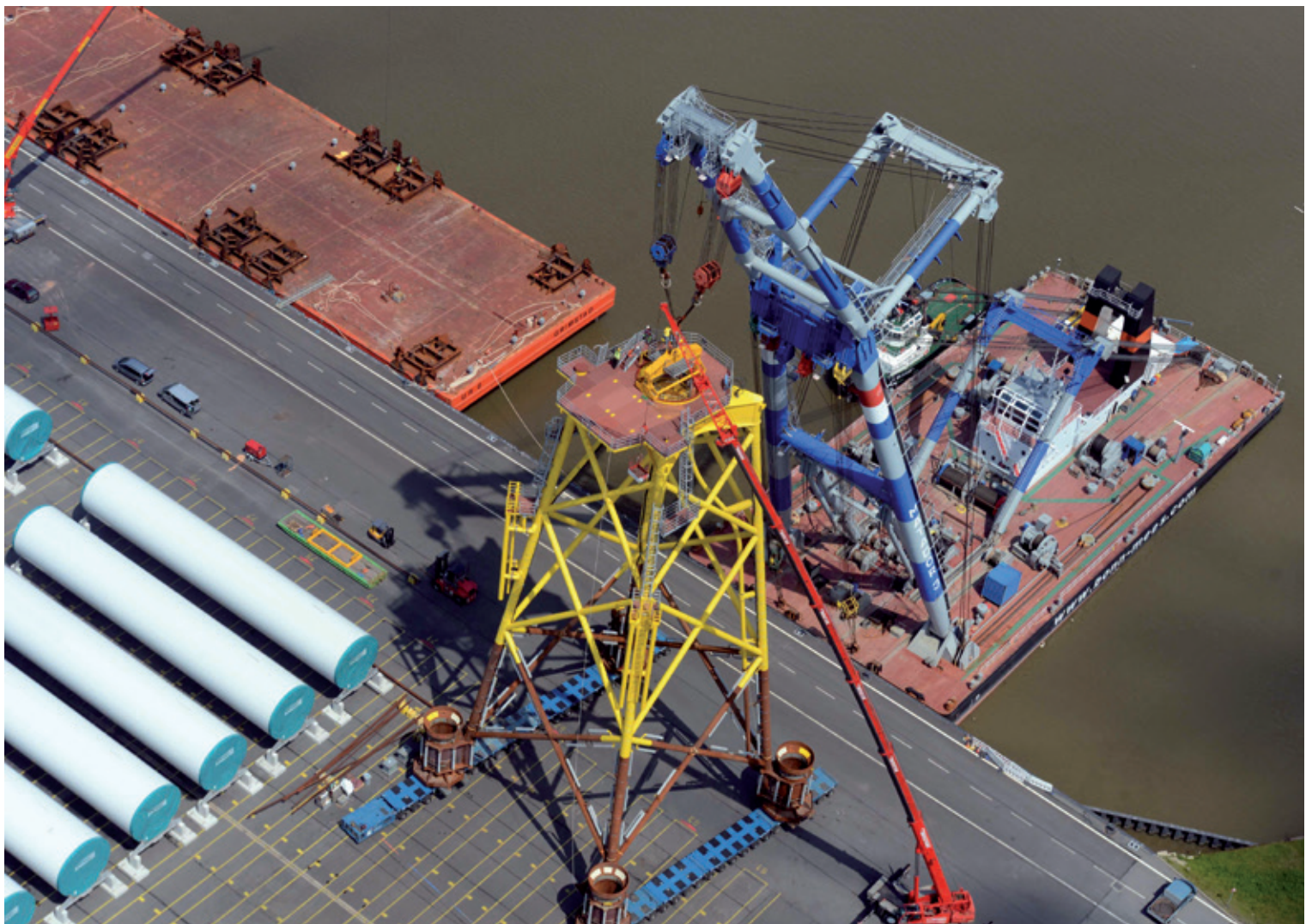
Area loading:
up to 20 t/m²



Jacking:
verified and proved for various Jack-Up vessels



Safety and security:
ISPS certified



TERMINAL QUALITIES AND EQUIPMENT

AREA LOAD

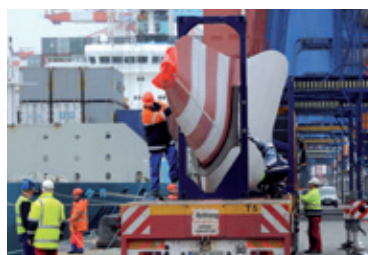
The EUROGATE terminals comply with the requirements for the handling, transport and storage of very heavy goods, for instance jacket foundations (approximately 550 t) or gantry cranes (more than 1,000 t), including the positioning of required crawler cranes at the quay side.

Moreover, the EUROGATE Container Terminal Bremerhaven provides a proven RoRo solution for cost-effective logistics processes.



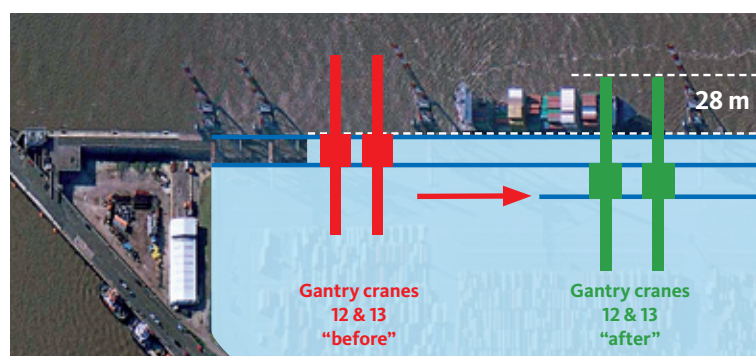
GENERAL EQUIPMENT

- Super-Post-Panamax gantry cranes, terminal tractors, trailers, reach stackers, forklifts, spreaders and various slings and shackles
- Additional equipment such as SPMT, Mobile cranes or crawler cranes is supplied in collaboration with long-term business partners



SPECIAL EQUIPMENT IN BREMERHAVEN

At our terminal in Bremerhaven, EUROGATE has upgraded two gantry cranes for the handling of over-sized and heavy-lift goods such as tower segments, blades, hubs or foundation piles. These gantry cranes can handle vessels with a width of up to 28 m and components of up to 163 t.



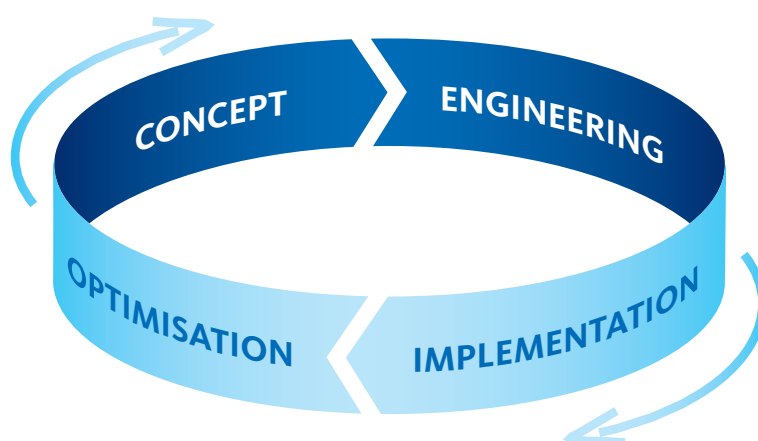


ALL YOU NEED – OUR FULL RANGE OF SERVICES

EUROGATE operates 24 hours a day, 7 days a week. Our teams consist of highly skilled experts in handling high and heavy cargo.

For onshore and offshore wind energy, EUROGATE offers a **full range of logistics services** and supports your project during **every step of the process**:

- Consulting and support in all logistics and base port related topics
- Conceptual design and implementation of customer individual logistics processes
- Value-added services such as the pre-assembly for installation
- Exclusive provision of dedicated base port facilities, heavy lift equipment and experienced personnel
- Close cooperation and continuous improvement of processes



The portfolio is complemented by the terminal-operation-related services of the EUROGATE Group:

- Covered storage and packing or unpacking of goods (CFS – Container Freight Station of EUROGATE Container Terminal Bremerhaven)
- Lashing of goods (SWOP – Seaworthy Packing)
- Technical engineering, installation, maintenance and repair of equipment (EUROGATE Technical Services)
- Transport and forwarding via road, rail or inland waterway (EUROGATE Intermodal, ACOS Group)

REFERENCES

EUROGATE has offered services to RWE, SENVION, AREVA, Vestas, Siemens and Gamesa.

ABOUT EUROGATE

EUROGATE is Europe's leading shipping-line-independent container terminal operator network with locations in eleven seaports. With Bremerhaven, Hamburg and Wilhelmshaven, we are the number one on Germany's North Sea coast. The same applies to our affiliated company Contship Italia on Italy's Mediterranean coast. The network also includes locations in Tangier, Morocco; Lisbon, Portugal; and Ust-Luga, Russia. Our range of services is complemented by an intermodal transport network across the whole of Europe.

For more information, visit www.eurogate.eu.

CONTACT

Wolfgang Schiemann
Managing Director
Phone: +49 471 1425 4600
wolfgang.schiemann@eurogate.eu

Nina Distler
Projectmanagement
Phone: +49 471 1425 4650
nina.distler@eurogate.eu

Friedrich Stuhmann
Commercial Manager
Phone: +49 471 1425 4989
friedrich.stuhmann@eurogate.eu

David Panten
Projectmanagement
Phone: +49 471 1425 4828
david.panten@eurogate.eu

Thomas Pramor
Operations Manager
Phone: +49 471 1425 4419
thomas.pramor@eurogate.eu

Rieke Otten
Projectmanagement
Phone: +49 471 1425 4717
rieke.otten@eurogate.eu



EUROGATE Container Terminal
Bremerhaven GmbH
Senator-Borttscheller-Str. 1
27568 Bremerhaven, Germany
www.eurogate.eu

EUROGATE Container Terminal
Wilhelmshaven GmbH & Co. KG
Ozean-Pier 1
26388 Wilhelmshaven, Germany
www.eurogate.eu