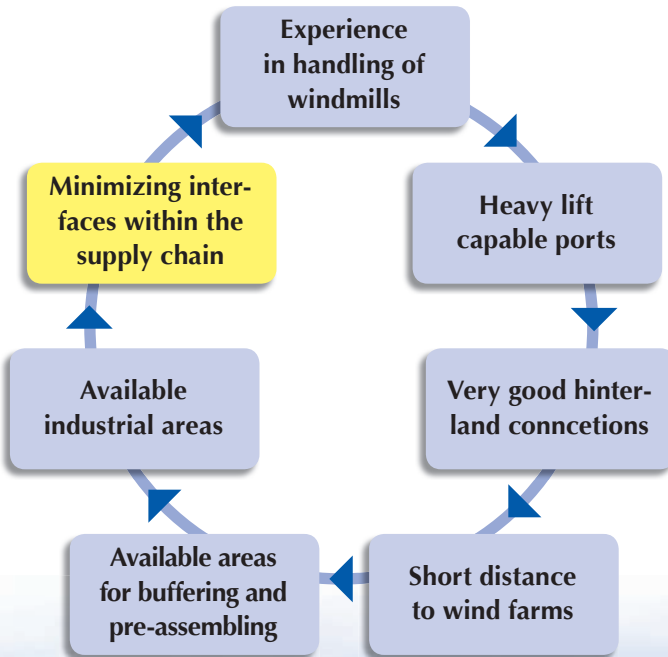


## Advantages and services

Benefits for the customer and the ports of Schleswig-Holstein as positive outcome of the cooperation



## Contact

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#### Dagebüll

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#### Hörnum

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#### Rendsburg-Osterrönfeld

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#### Wyk / Föhr

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Photos: Title top: agenda/Michael Kottmeier; inside top left: Bundesverband Wind-Energie e.V., top centre: REpower, Christian Eiche; others: Brunsbüttel Ports GmbH



Assembly,  
supply and  
service ports  
for Offshore  
wind farms



# Offshore wind farms: Energy generation of the future

Benefits for the customers due to the cooperation



In future there are up to 10.000 offshore wind power stations in 92 wind farms to be erected in the German North Sea. Some fine tuned logistical supply chain is necessary for installation, operation and servicing of the offshore wind farms. Sea ports are an important chain link within the supply chain and they must be prepared for the future demands, fulfilling various functions.



The ports of **Brunsbüttel, Büsum, Husum, Helgoland, Wyk auf Föhr, Dagebüll, Rendsburg-Osterrönfeld, Hörnum and List** have agreed on a cooperation for the purpose of offering an overall maritime service to the offshore wind farm operators with regards to installation and servicing of the wind farms.



Three examples for linking the port locations

## **Brunsbüttel / Büsum / Husum / Helgoland**

Linking-up for the purpose of installation and continuous supply of offshore wind farms. In the heavy lift capable deep water port of Brunsbüttel the components of the wind power stations can be stored and pre- installed before they are shipped to the offshore wind farms with suitable transport barges. Furthermore the ports of Büsum, Husum and Brunsbüttel act as servicing ports for the immediate supply port at Helgoland. Due to the excellent location of Helgoland, the offshore wind farms are within fast and easy reach.

## **Dagebüll / Husum / Hörnum / List**

Optimum linking-up for permanent supply and maintenance of offshore wind farms. The immediate supply ports at Hörnum and List are serviced by the supply ports at Dagebüll and Husum. Due to the off the coast positions of Hörnum and List, short journeys to the offshore wind farms are ensured.

## **Brunsbüttel / Rendsburg-Osterrönfeld**

The heavy lift capable deep water ports of Brunsbüttel and the heavy lift capable port at Rendsburg-Osterrönfeld can be connected by shuttle via Kiel Canal. Long distance road transport is completely avoided. The components are gathered at Brunsbüttel and shipped just-in-time to the offshore wind farms.



Due to linking of the ports customers may enjoy the services of all port locations. In the heavy lift capable deep water ports of Brunsbüttel and Rendsburg-Osterrönfeld the components of the wind power stations can be stored, pre-installed and loaded. Swift supply of the ports for immediate support at Helgoland, Hörnum and List is guaranteed via the ports of Büsum, Husum, Dagebüll and Brunsbüttel. The ports for immediate support, especially the open sea island of Helgoland, are in very short distance to the offshore wind farms.

### **Port for assembly & manufacturing of large components**

(Basis- / Installation Port)

- **Brunsbüttel**
- **Rendsburg-Osterrönfeld**

Heavy lift capable deepwater port with enough free and available space for buffering and preassembling of windmill-components. From this site Offshore Wind parks can be installed.

### **Port for supply**

(Service Port)

- **Büsum**
- **Dagebüll**
- **Husum**
- **Brunsbüttel**

Supply Ports are needed to serve the `immediate support Ports` with scheduled regular transports.

### **Port for immediate support**

(Service Port)

- **Helgoland**
- **Hörnum**
- **List**
- **Wyk auf Föhr**

Site for immediate and short-noticed repair work with short distance to the offshore wind farms