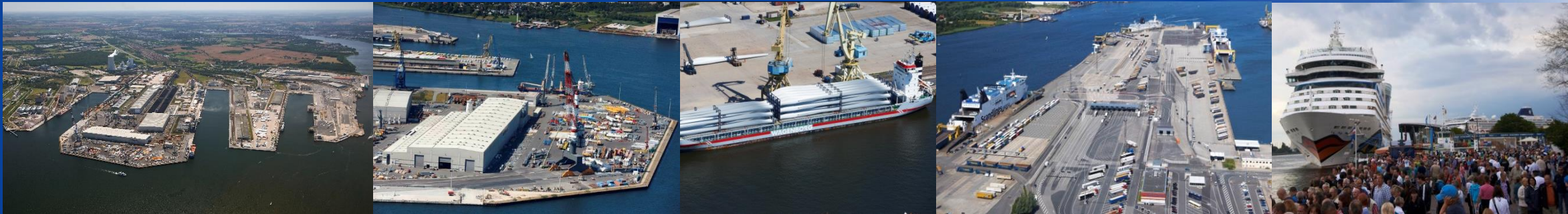


# Baltic Sea ports as drivers of the sustainable blue economy: Making the Green Deal a reality (SEARICA)

## Rostock - Future in Green Hydrogen?

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ROSTOCK PORT GmbH  
22. October 2021

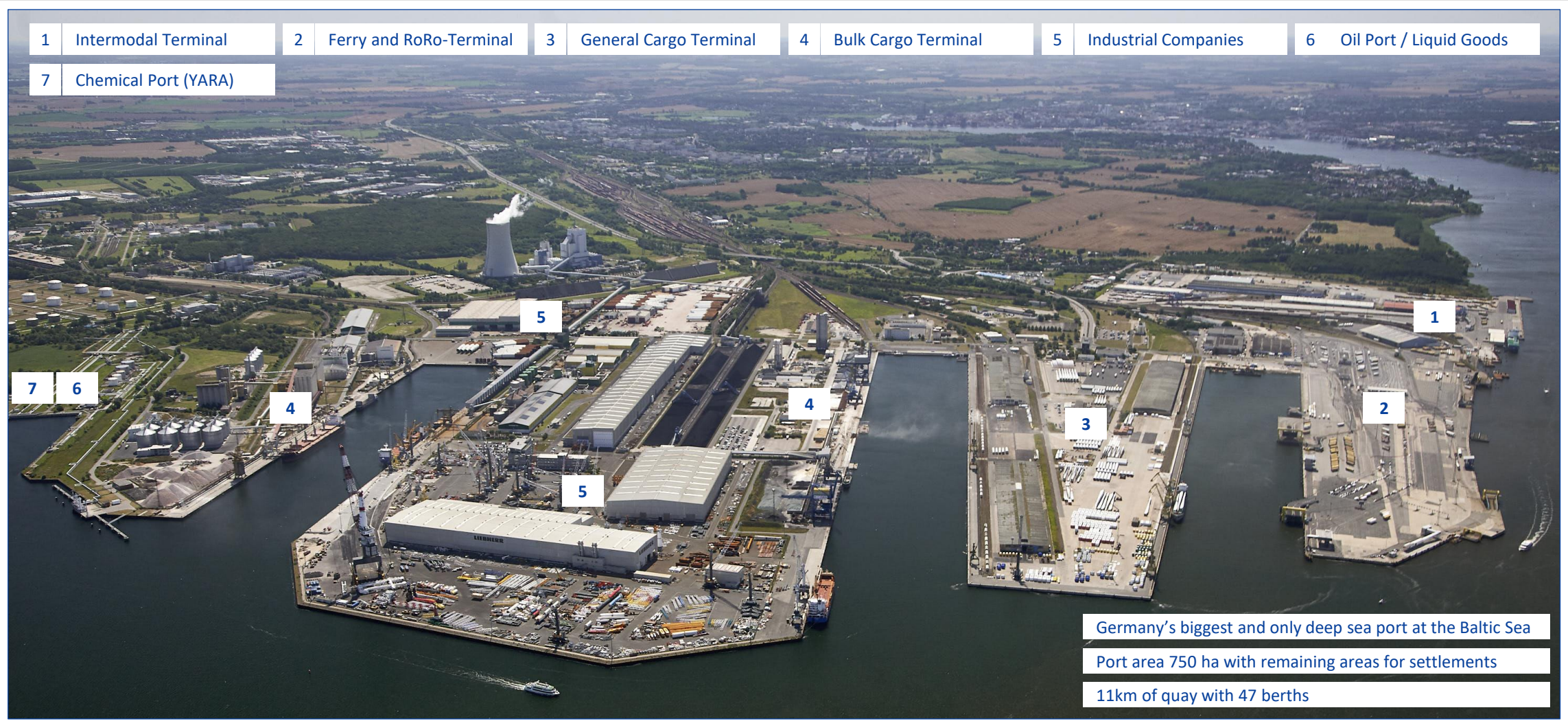


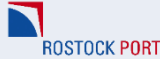



1. Port of Rostock in a nutshell

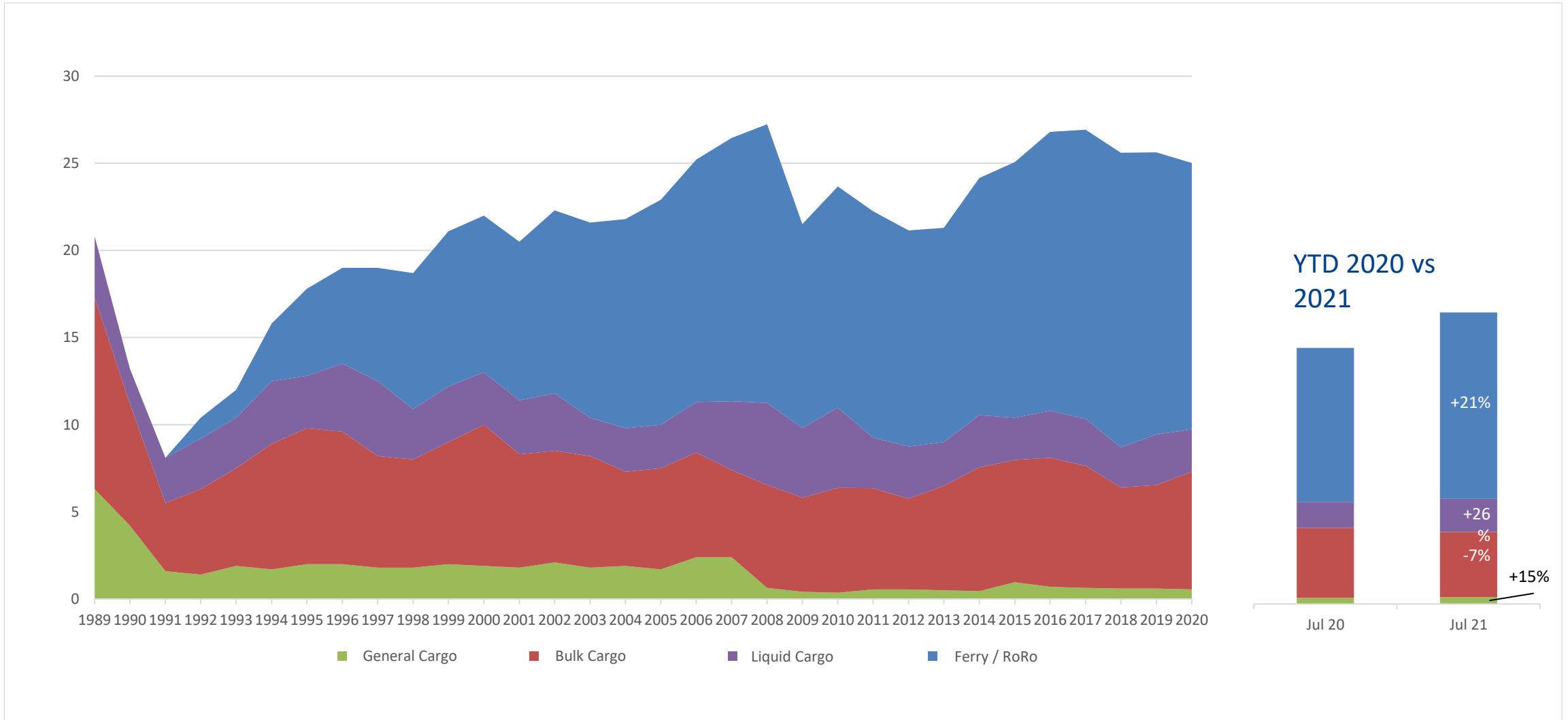
2. Hydrogen activities Port of Rostock





1960	Construction of the so called „Oversea port“ (Überseehafen Rostock) part of state holding company „VEB Kombinat Seeverkehr und Hafenwirtschaft“	
1990	transformation in corporation („Seehafen Rostock“ AG)	
1994	Port of Rostock – „Landlord Model“	
	<p>Infrastructure „Seehafen Rostock Verwaltungsgesellschaft“ owner: 74,9 % Hansestadt Rostock 25,1 % Land MV</p>	<p>Suprastructure „Seehafen Rostock Umschlagsgesellschaft“ (owner: all 100 % Hansestadt Rostock)</p>
1997		Sale of Seehafen Rostock Umschlagsgesellschaft-SHRU (owner: 100 % Albemarle Ltd., London )
today	<p><b>ROSTOCK PORT GmbH</b> </p> <p>Port operator // Owner of port infrastructures // Landlord Port A. 25,1% Federal state of Mecklenburg-Vorpommern // 74,9% Hanseatic City of Rostock</p>	<p><b>EUROPORTS Deutschland GmbH</b> </p> <p>2012 Euroports acquires the remaining 50% of shares in SHRU Rostock, and becomes the sole shareholder of Euroports Germany</p>
	<p>Maintenance of port infrastructures // Leasing of port areas // General location marketing //</p> <p>External and internal port development // Renting of office premises // political lobbying</p>	<p>operate and manage own terminals // develops, operates and manages global maritime supply-chain solutions for international customers in target industry sectors</p>








**Gedser (Denmark)**  
2 hours | 10 times a day



**Trelleborg (Sweden)**  
6 hours | 3-4 times a day



**Trelleborg (Sweden)**  
6 hours | 3 times a day  
-> direct connection to Klaipeda



**Nynäshamn (Sweden)**  
18 hours | every second day  
-> daily departures planned




**Rauma (Finland)**  
34 hours | 2 times a week



**Kotka (Finland)**  
36 hours | 1 times a week



**Hanko (Finland)**  
26 hours | 4 times a week  
**Helsinki (Finland)**  
32 hours | 1 times a week



**Kaliningrad (Russia)**  
24 hours | 2-3 times a week





Maritime cargo handling equipment:  
Liebherr-MCCtec Rostock GmbH



Large diameter pipes:  
Erndtebrücker Eisenwerke (EEW)



Wind turbine components:  
Nordex



Shipyards:  
MV-Werften, Caterpillar, Neptun

Treatment of agricultural products:  
Malteurop, Power Oil, Biopetrol



Fertilizer plant:  
YARA



Energy production:  
KNG, Vattenfall





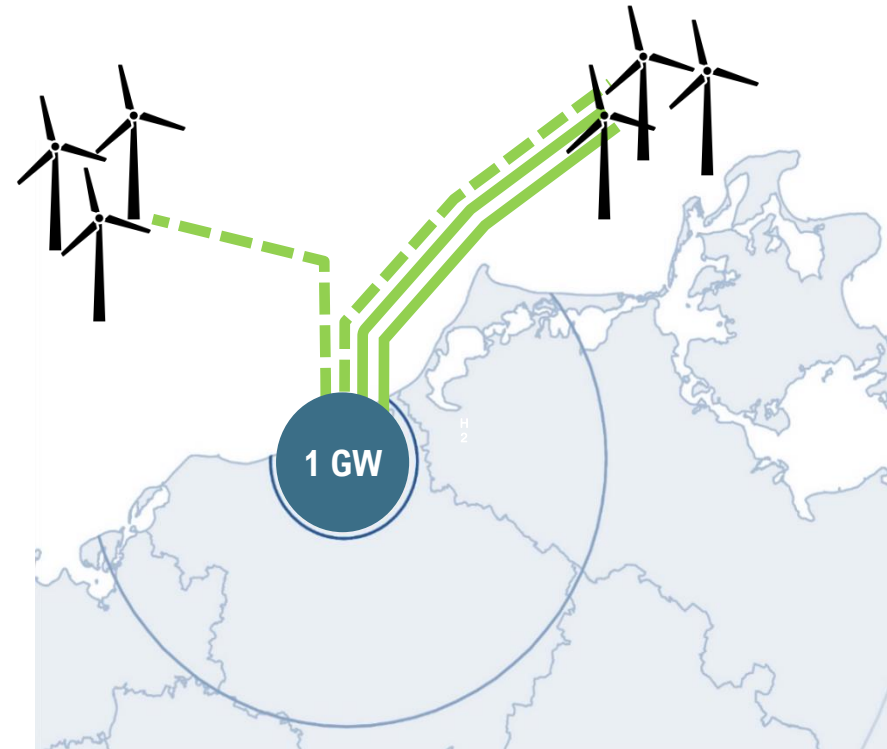


1. Port of Rostock in a nutshell

2. Hydrogen activities Port of Rostock

## Direct access to renewable energy as a major advantage

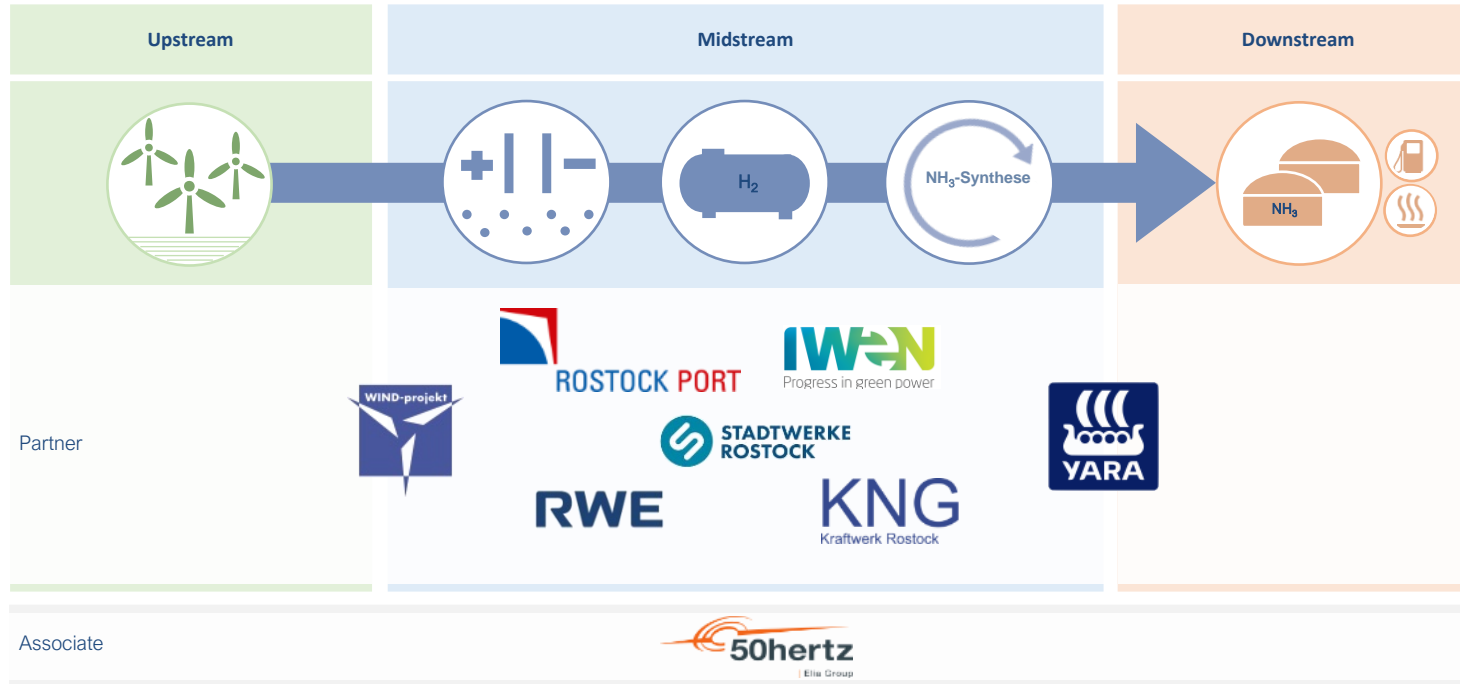
- 67% of the electricity generated in Mecklenburg-Vorpommern comes from renewable energies
- today the offshore power in the german baltic sea region is about 1 GW and could increase up to 2,6 GW until 2030
- connection point to the 380 kV powergrid is located at the port of Rostock



## Port of Rostock as a hub for hydrogen and (green) power fuels

- existing powerfuel-ready infrastructure with
  - handling of liquid goods
    - storage capacities of 700 000 m<sup>3</sup> for crude oil, diesel, naphta, methanol, ethanol, marine gas oil, rape oil
    - pipelines to refineries in Leuna (naphta) and Schwedt (oil)
    - rail loading
  - handling of ammonia → YARA
    - storage capacity of 40 000 tons (YARA)
    - pipeline to fertilizer plant (YARA)
- current water depth is 14,5 m and will be deepened to 16,5 m until 2024

## IPCEI hydrogen – „HYTechHafen Rostock“ - partners



- Wind energy
- Plant engineering
- Hydrogen in industry
- Chemical plants
- Residential applications
- Concrete partnership
- Research and knowledge dissemination

## IPCEI hydrogen – „HYTechHafen Rostock“

100 MW electrolyser power to set up a hydrogen value chain with a focus on the production of green ammonia

- Initiation of a “home market” with a complete 100 MW H<sub>2</sub>-chain
- pilot project to set up a modular industrial scale H<sub>2</sub>-infrastructure
- includes a green ammonia plant with 300 Mt per day and uses the existing ammonia storage facility of 46 000 t
- planned commissioning is in 2024



## Port of Rostock as a hub for hydrogen and (green) power fuels

- Germany has to cover most of its energy demands from import
- hydrogen-based, CO<sub>2</sub>-free and CO<sub>2</sub>-neutral “green” power fuels can already be imported at the port of Rostock
  - methanol
  - Fischer Tropsch fuels (gasoline, diesel, naphta, kerosene)
  - ammonia



ROSTOCK PORT



Thank you very much for your  
attention!

Opening new horizons



[www.rostock-port.de](http://www.rostock-port.de)



# Back Up





**ROSTOCK PORT GmbH**  
 Hafenbetreiber | Infrastruktureigentümer | Landlord Port Authority  
 25,1% Land Mecklenburg-Vorpommern | 74,9% Hanse- und Universitätsstadt Rostock

Umschlagsunternehmen



Logos of turnover companies: GETREIDE AG, Baltic Lloyd, RZU, EUROPORTS, Stena Line, KAPACK GMBH

Logistikunternehmen



Logos of logistics companies: DB SCHENKER, ScanRo, FRACHTCONTOR, André Voß, SCHULTZ BALTIMAR SHIPPING, AHLMANN ZERSEN

Industrieansiedlung



Logos of industrial sites: LIEBHERR, Krebs, Malteurop, POWEROIL, EEW

