REDII Ports partner aiming to exploit resources for a technically feasible and economically affordable generation, storage and consumption of cleaner energy and fuels in port communities.

REDII Ports is #MadeWithInterreg and funded by the Interreg North Sea Programme.

Lead Partner

Jesper K.Rulffs | jkr@skagenhaven.dk

Port of Skagen

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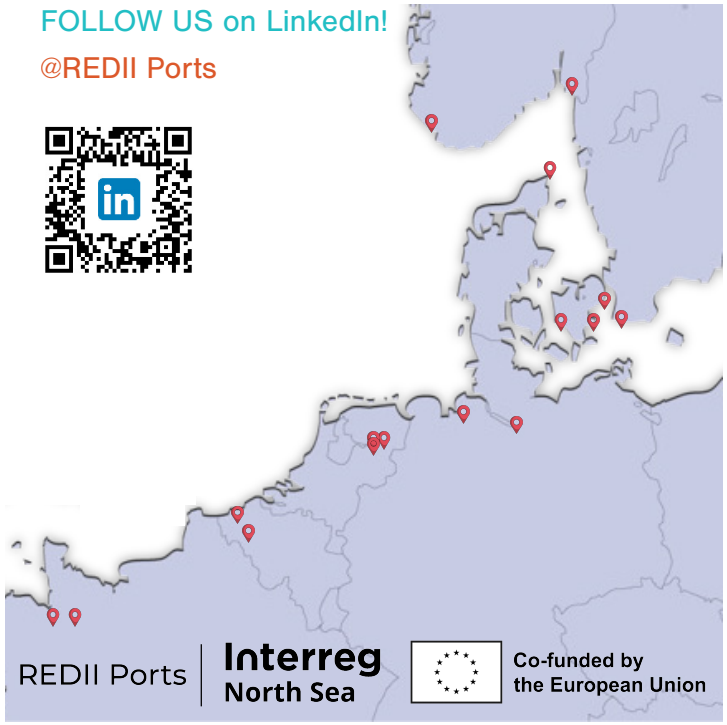

REDII Ports Project Partnership

- Port of Skagen (Lead Partner)
- Niedersachsen Ports
- Port of Korsør
- Port of Moss
- Port of Zwolle
- Multimodal Container Services
- Port of Egersund
- Region Bretagne
- Port of Hamburg Marketing
- Vives University of Applied Sciences
- Noordelijk Innovatielab Circulaire Economie
- Bretagne Dévelopment Innovation
- Maritime Equity Partners
- Port of Trelleborg
- Disposal Collection Care
- Blue Power Synergy

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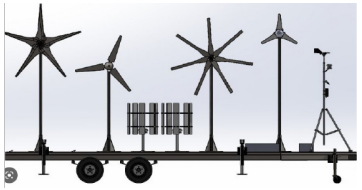
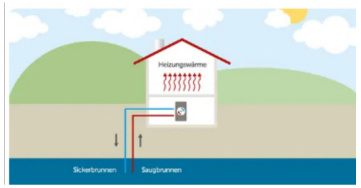
REDII Ports

Renewable Energy Development and Intelligent Implementation in Ports

Pilots on Renewable Energy Production

Port of Egersund | Niedersachen Ports | Region Bretagne





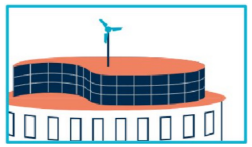
Interreg North Sea

Co-funded by the European Union

REDII Ports

Niedersachsen Ports evaluates and tests small-scall solutions for renewable energy production in ports.

Three renewable energy test fields will be monitored in Emden port:



Micro wind turbines

- Installed on buildings and light poles.

Containerized wind turbine

- Includes wind turbines, solar panels, and a storage unit for charging electric vehicles.

Battery storage

- Uses recycled e-vehicle batteries to optimize the PV system and support the circular economy.

Your Contact

Niedersachsen Ports | Dr. Matthäus Wuczkowski | mwuczkowski@nports.de

Port of Egersund completes a feasibility study focusing on the uptake of E-methanol and Biomethanol production.

E-methanol

Resources: CO2 from local fishing industries.
Green hydrogen from the plant in Kaupanes.
Challenges: Seasonal fluctuations in CO2 availability.

Biomethanol

Resources: Wood chips available within the port's territory.
Challenges: Strong competition for wood chips

Benefits of Green Methanol

- Compatibility with existing engines
- Simple transportation and bunkering
- Cost-effective use of existing infrastructure

Future Step

Development of an Addendum to explore different scenarios and build synergies between ports

Your Contact

Egersund Industry & Port | Tommy Bjellås | tommy.bjellas@egersund.havn.no

Region Bretagne conducts studies on hydrogen & ammonia at Port of Brest and Saint-Malo.

Hydrogen

- Interim outcome:

Interviews with local actors on hydrogen consumption in the port environment from 2030 to 2050;
Analysis of the supply chain required to meet the consumption and the urbanism plan

- Collaboration with BDI:

Integration of data from Brest study into the CRAFT platform.

- Next step:

Launch of Study on Port of St Malo - using the same method as Brest, with a focus on the local ferry activity.

Ammonia

- To understand the future of ammonia in maritime transportation.
- Next step: Analysis of the consequences of developing an ammonia ecosystem at the Port of Brest.

Your Contact

Regional Council of Brittany | Maximilien Le Menn | maximillien.lemenn@bretagne.bzh