REDII PORTS

Renewable Energy Development and Intelligent Implementation in PORTS

Implementation site

Emden

Organised by

Niedersachsen Ports GmbH & Co. KG

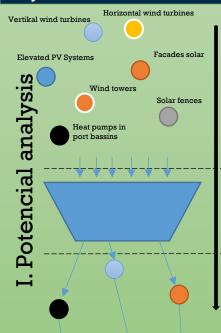
Starting position

- Ports face rising energy prices
- Ports to become climate neutral by 2035
- With rising energy and CO2 prices, renewable energies that were previously considered "uneconomical" are becoming more attractive
- Larger wind turbines could not be approved in ports so far (distance regulations, noise quotas); larger photovoltaic projects on available roofs require sufficient statics and large investment sums but what are the possibilities beyond that?

Project objectives

- Which renewable energy generation alternatives promise the greatest potential in the port environment with regard to small to medium-sized generation plants?
- How can renewable energy solutions (wind/solar) be optimally combined, stored and integrated into the port environment?
- Sharing the results with clients and project partners

Project structure



- a.) Which renewable solutions are available?
- b.) Which offer a great potencial for ports?
- c.) Which port areas/infrastructure could potencially be used for integrating renewables?
- d.) Assesment of solutions
- Technically
- Market regulation
- > Economically(cent/kWh)
- > Feasibility
- e.) Election of promising solutions and design of testf ield concept

II. Test field

Identification of testing locations

ears

- Planing and procurement of necessary facilities
- Monitoring of testfields
- Sharing of experiences with partners and customers



EU Interreg Project REDII Ports



Project duration

Start: 01.11.2022 Duration: 3 Jahre

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Projectpartners

14 partner ports along the coast from Norway over Denmark to France

Involvement of customers

- Involving the clients in the project
- Requirements for the study clarified with the clients
- Clients should contribute and implement their own ideas
- Clients receive the results from the study and the field tests

Support through the resource cluster

- The cluster for resource competence is a local association of companies of various sizes & sectors that are committed to climate protection
- The cluster is to accompany the project as a body consisting of energy experts and potential users of the solutions

