

Final Conference DUAL Ports – Niedersachsen Ports 2 | June 16th 2022 - Brussels







Final Conference DUAL Ports – Niedersachsen Ports 3 | June 16th 2022 - Brussels







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LED Pilot on Sustainable Port Lighting

Project objective: Development of a new innovative sustainable lighting

> Initial Situation: 25% of Energy = Port lighting

> Targets:

- > How can we reduce energy consumption and CO2?
- > How can we make lighting future oriented and smart?
- > How can we improve safety and reduce light emissions?

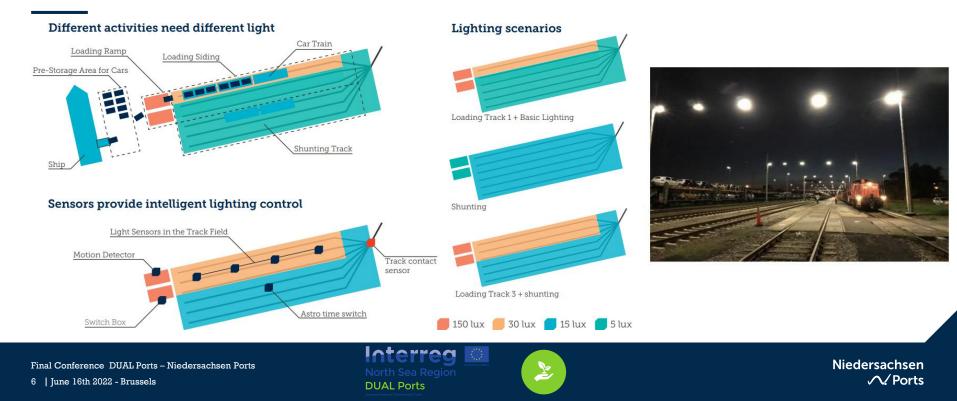






LED Pilot on Sustainable Port Lighting

Project objective: Development of a new innovative sustainable lighting



LED Pilot on Sustainable Port Lighting

Lessons learned

- > LED technology as most-efficient solution for port requirements
- Digital solutions are more prone to faults during implementation and special expertise for maintenance and upkeep is crucial
- >26% CO2 saving with LED technology \rightarrow 43% CO2 saving with LED in combination with smart technology
- > Spin-off: 100% LED Target for all port locations till 2025 (approx. 40% reached already)
- > In Process: Guideline for environmentally friendly lighting

North Sea Region OLIAE Parts	Niedersachsen	January 2023
PILOT 1		
SMART LE	DLIGHTING IN	
PORTS		
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Approved by: Wim Stubbe, Project Leader for DUAL Ports

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Three major fields of action in pilot

 Strategy and Management
Developing and implementing a sustainability strategy that focus economical, ecological and social aspects and a sustainability management

Projects & Measures Triggering and coordination of sustainability measures and projects

> **Communication** Internal Communication: Intranet, meetings External Communication: Press releases, articles, homepage, conferences Strategy & Management

> Projects & Measures

Communication

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Strategy and Management



Strategy & Management Projects & Measures Communication







Green Port Of

Strategy and Manag



Strategy & Management

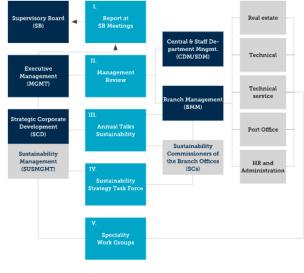
Projects & Communication Measures

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2019-2025

Niedersachsen \mathcal{N} Ports

Strategy and Management



I. Report Dur	ing SB Meetings	
Involved Parties:	SB, MGMT	
Frequency:	annually	
Tasks:	Progress Monitoring and Reporting of the MGMT to the SB	
II. Manageme	nt Review	
Involved Parties:	MGMT, CDM, SDM, BMM	
Frequency:	annually	
Tasks:	Verification of Corporate and Sustainabilit Goals and Suggestions for Improvement for Their Implementation	
III. Annual Tal	ks Sustainability	
Involved Parties:	SCD/SUSMGMT,BMM, SCs	
Frequency:	annually	
Tasks:	Planning for the Implementation of the Sustainability Goals and Drafting of the General Annual Planning	
IV. Task Force	Sustainability Strategy	
Involved Parties:	SCD/SUSMGMT, SCs	
Frequency:	Twice a Year	
Tasks:	Verification of the Goals, Exchange, and Recommendations for Management Review	
V. Specialty W	lork Groups	
Involved Parties:	SCD/SUSMGMT, Departments	
Frequency:	From 2 to 4 times a year	

Tasks: Exchange of Experiences and Development of Sustainability Measures Strategy & Management

Projects & Co Measures

Communication



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Green Port Officer Pilot - Measures



PV-Systems





7 roofs; 150kWp installed

Outlook: Rent roof space for solar systems

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Lighting



- Several additional pilots in the ports
- LED Transformation now (40% implemented)

Outlook: Smart, remote controlled LEDlighting in all ports

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Mobility- cars





- Electrification of port fleet (25 alternative cars; 15 e-charging points)
- Alternative fuel for ships (GTL)
- Cargo bikes

Outlook: More electrified vehicels; H2?

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Mobility - ships

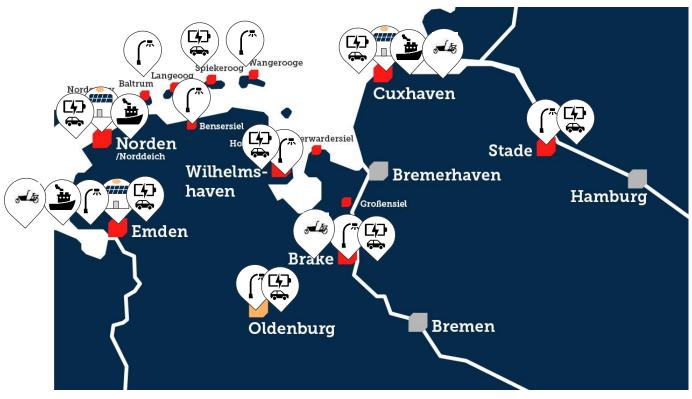
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- Electrification of port fleet (25 alternative cars; 15 e-charging points)
- Alternative fuel for ships (GTL)
- Cargo bikes

Outlook: Real alternatives needed; Concepts in planning



Mobility - bikes



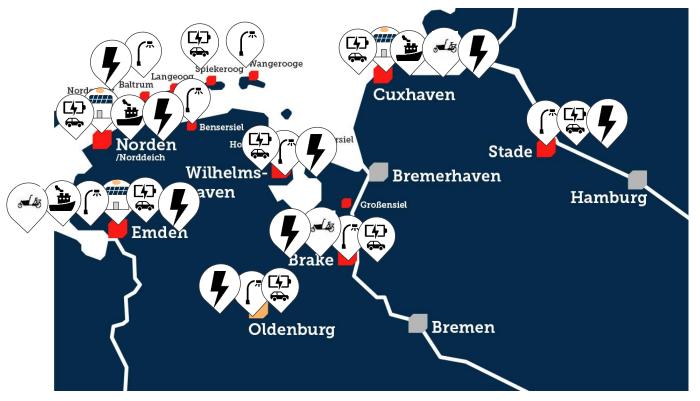
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- Electrification of port fleet (25 alternative cars; 15 e-charging points)
- Alternative fuel for ships (GTL)
- Cargo bikes

Outlook: Expand bike fleet

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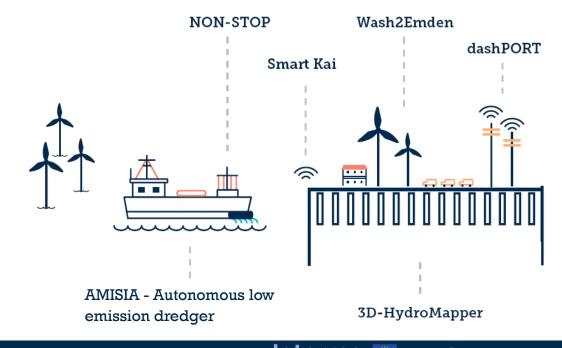
- 100% green energy in all ports

Outlook: Potential study for production of own renewable energy

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Projects & Measures



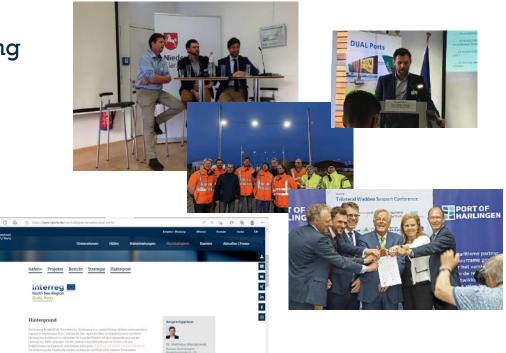
Strategy & Management Projects & Measures Communication

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Communication & Knowledge sharing





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Lessons learned

- > Just do it: Every step helps! A lot of low hanging fruits available out there!
- > Involve others: The port knows more than it knows
- > Ongoing Process: Sustainability is not a project it's a mindset and needs to be integrated into DNA
- > Be patient: Culture changes slowly a systematic and strategic approach helps
- > Everybodies business: Every employee needs to be a green port officer
- > Money Talks: Limited budget is a barrier but funding is an accelerator
- > Transformation just started: We are right at the beginning of a transformation

Thank you for your attention!

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DUAL Ports is co-funded by the North Sea Region Programme 2014-2020; Eco-innovation priority. <u>www.northsearegion.eu/dual-ports</u> J-No: 38-2-7-15