

SEANERGY

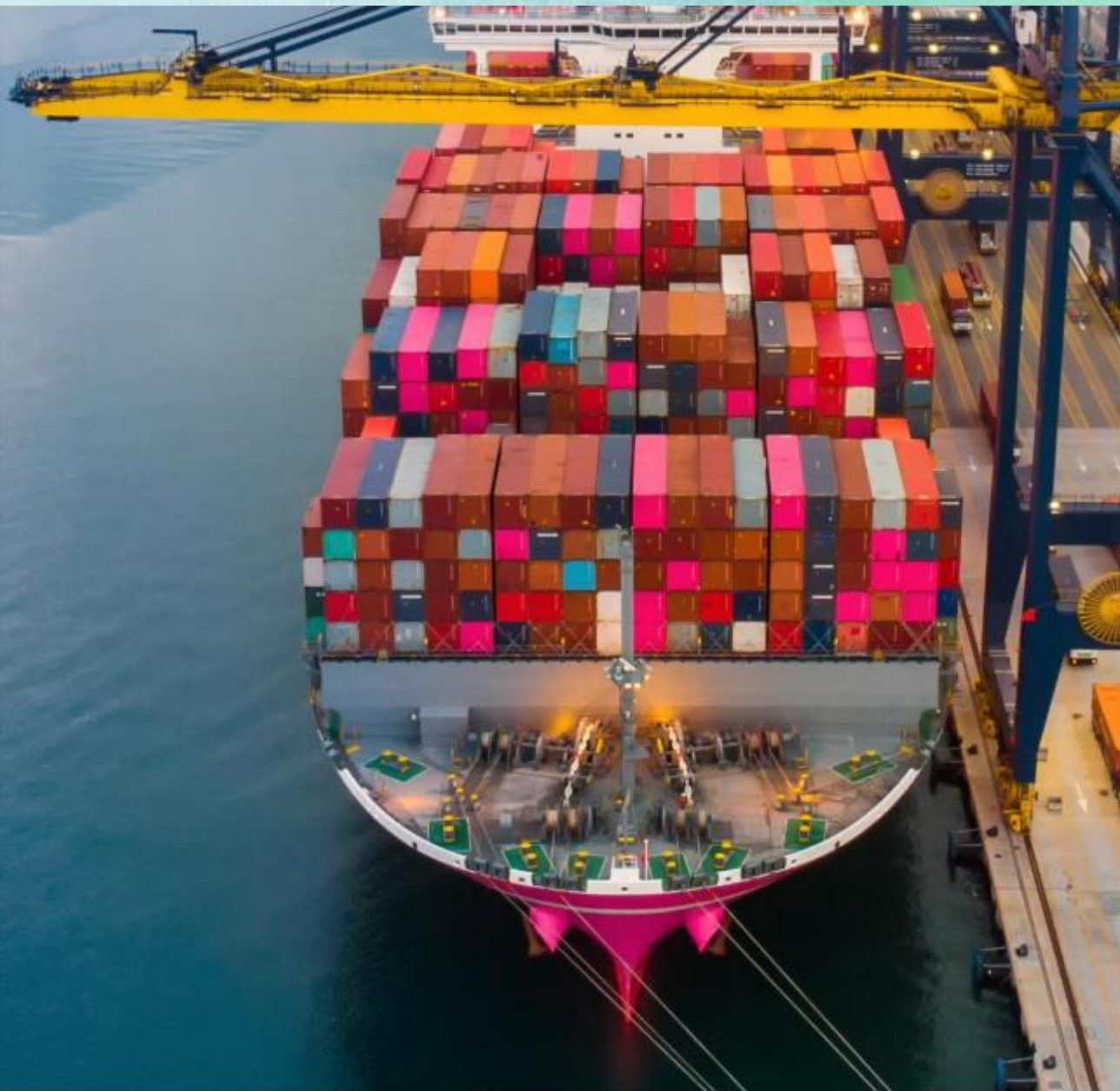
Danube Ports Day 2023

SEANERGY: Project Introduction and Updates

Karin Voglsam, Project Manager, Ennshafen OÖ GmbH
24th November 2023



This project has received funding from the European Union's Horizon Europe research and innovation program under grant agreement number 101075710. This visual support reflects only the author's view; the Commission is not responsible for any use that may be made of the information it contains.



BACKGROUND



SEANERGY

The ports industry is one of the economic pillars of the European community as most imported and exported goods pass through ports. On average, 74% of goods imported and exported go through seaports.

However, ports are responsible for a significant rise of environmental impacts, for example through carbon emissions, soil and water pollution as well as loss of biodiversity.

SEANERGY will create a Master Plan that aims to solve this challenge.



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THE CONSORTIUM



SEANERGY

The SEANERGY project is led by Magellan circle and formed by Ennshafen, Atperson, Anleg, DAFNI, World Maritime University, Rina, Institute for Water Education, Fundacion Valenciaport, Zero-E Engineering, Future Proof Shipping and Eco Imagination

9 European Countries



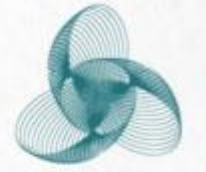
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GOAL

The SEANERGY project will develop by Spring 2025 a Master Plan that will present goals, objectives, training modules, and directions for short-, medium- and long-term operations that will allow stakeholders to assess, plan and execute activities to transform ports into clean energy hubs.

The SEANERGY Master Plan will become the main reference for all EU port institutions in their energy and fuel transition.

IMPACT



SEANERGY

2030

Reduce emissions by 55%



2050

Reach net zero emission



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SEANERGY – Sustainability EducationAI programme for greenER fuels and enerGY on ports



WP1 – Understanding the current EU ports' situation and stakeholders

- Will develop the existing framework under which stakeholders operate at individual, collaborative and policy levels

WP2 – Gap analysis of the EU port clean energy transition

- Build up upon WP1 's information by identifying what information, skills and resources are missing at industrial and governmental level

WP3 – Creation of the SEANERGY Master Plan

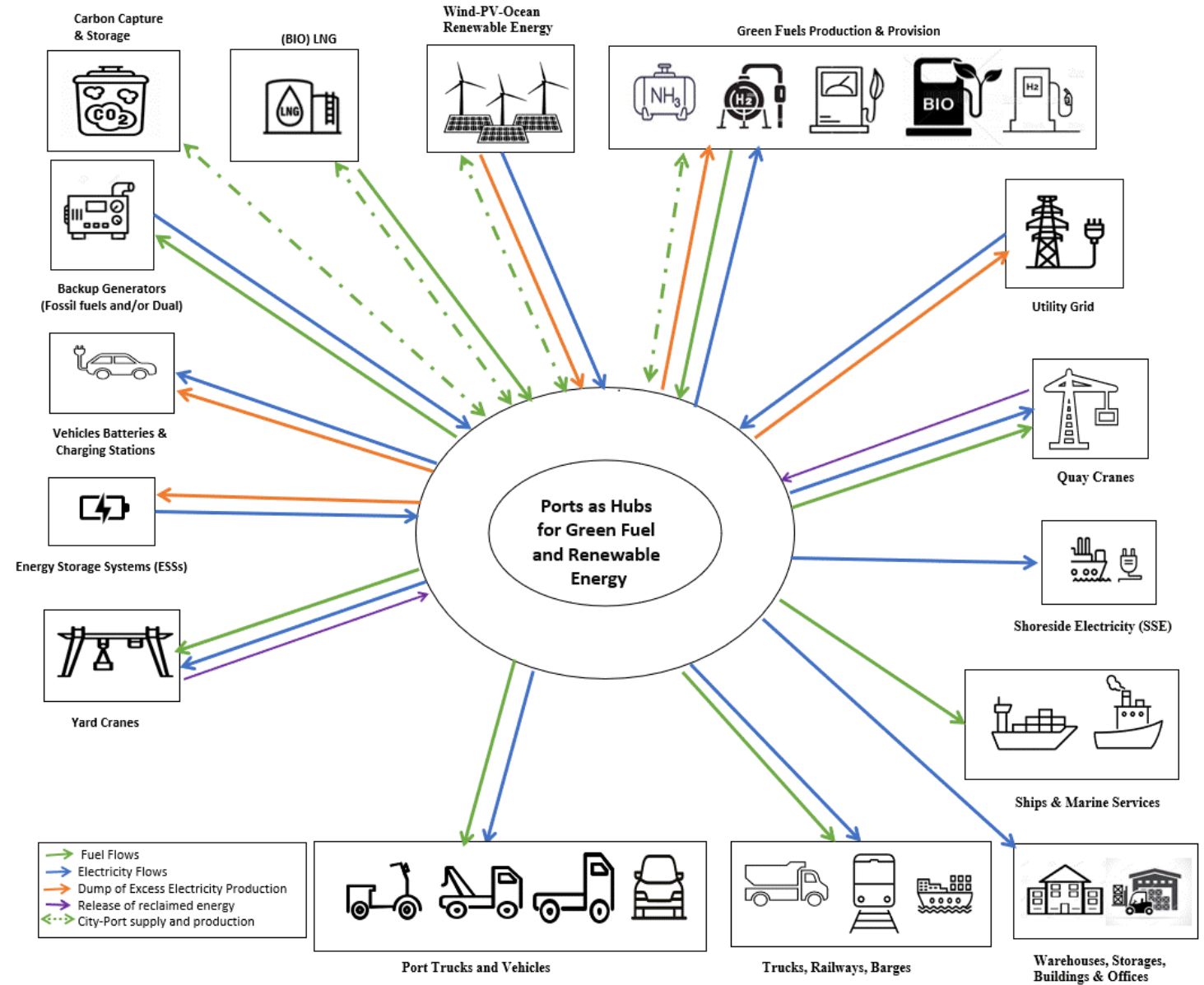
- Takes information obtained from the previous 2 workpackages to construct a suitable Master Plan, providing all necessary tools and content that will aid to choose the right path towards a greener E&F operation in port.

WP4 – SEANERGY Master Plan Implementation

- Will uptake the task of developing the Handbook that will act as a guiding and explicative hand of the Master Plan's



Relevance for Ports



PROJECT DEVELOPMENT

STAGE 1



Understanding the current EU ports' situation and stakeholders.

STAGE 2



Gap analysis of the EU port clean energy transition.

STAGE 3



Creating the SEANERGY Master Plan.

STAGE 4



Implementing the SEANERGY Master Plan.



What is achieved so far in SEANERGY? – STAGE 1 & STAGE 2



SEANERGY

Horizon Europe Energy - HORIZON-CL5-2021-D3-02

EUROPEAN CLIMATE, INFRASTRUCTURE AND ENVIRONMENT EXECUTIVE AGENCY (CINEA)

D1.1 Report on Stakeholders Framework & Database

A framework for the management of ports' stakeholders involved in the energy transition to green fuels and renewable energy

Lead Partner: World Maritime University (WMU)

Author(s): Fabio Ballini, Anas S. Alamoush, Monica Canepa

Date: 9/1/2023

This document is the SEANERGY project "Report on Stakeholders Framework & Database" (contract no. 101075710) corresponding to D1.1 (Month 4) led by "World Maritime University".



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Horizon Europe Energy - HORIZON-CL5-2021-D3-02

EUROPEAN CLIMATE, INFRASTRUCTURE AND ENVIRONMENT EXECUTIVE AGENCY (CINEA)

D1.2: Catalogue of technologies for Maritime and Coastal Communities and Ports

Lead Partner: Fundació Valenciaport (FV)

Author(s): Josep Sanz Argent, Marina Arroyo Bovea

Date: 15 March 2023

This document is the SEANERGY project "Catalogue of technologies for Maritime and Coastal Communities and Ports" (contract no. 101075710) corresponding to D1.2 (Month 4) led by "Fundació Valenciaport (FV)".



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Horizon Europe Energy - HORIZON-CL5-2021-D3-02

EUROPEAN CLIMATE, INFRASTRUCTURE AND ENVIRONMENT EXECUTIVE AGENCY (CINEA)

D1.3: Results of demo-ports' LCA & ESG sustainability assessments

Lead Partner(s): Zero Emissions Engineering B.V. (ZERO-E) and World Maritime University (WMU)

Author(s): Ana Gomez, Johann Ramirez, Lorena Peña, Fabio Ballini, Peyman Ghaforian, Natalia Calderon

Date: 31 July 2023

This document is the SEANERGY project "Results of demo-port's LCA & ESG sustainability assessments" (contract no. 101075710) corresponding to D1.3 (Month 8) led by "Zero Emissions Engineering B.V. (ZERO-E)".



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Horizon Europe Energy - HORIZON-CL5-2021-D3-02

EUROPEAN CLIMATE, INFRASTRUCTURE AND ENVIRONMENT EXECUTIVE AGENCY (CINEA)

D2.1 Report of stakeholders' know-how limitations

Lead Partner: World Maritime University (WMU)

Author(s): Fabio Ballini, Anas S. Alamoush, Peyman Ghaforian Masadzadeh, Monica Canepa, Eldon R. Rene, Capucine Dupont, Reza Karimpour

Part one: Role of Ports in Maritime Energy Transition: Trends, Drivers, Barriers, and Solutions

Author(s): Fabio Ballini, Peyman Ghaforian Masadzadeh, Anas S. Alamoush, and Monica Canepa

Part two: Cultural analysis and social inclusion approach: The role of women in the port and port logistics

Author(s): Eldon R. Rene and Capucine Dupont

Part three: Key tools and certifications for the port energy transition

Author(s): Reza Karimpour

Date: 31/07/2023

This document is the SEANERGY project "Report of stakeholders' know-how limitations" (contract no. 101075710) corresponding to D2.1 (Month 8) led by "World Maritime University".



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More Information is available in:

<https://seanergyproject.eu/>

WHAT'S HAPPENING

NEWS



August 21, 2023

Challenges of the SEANERGY project management and coordination

[Read more →](#)

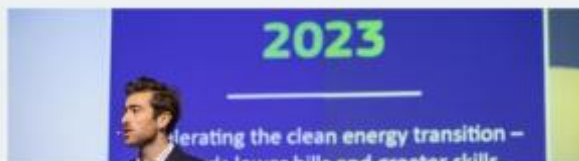


July 28, 2023

Role of women in ports – Questionnaire

The questionnaire aims to investigate cultural and social inclusion in ports, focusing on the roles of women in ports.

[Read more →](#)



July 28, 2023

EUSEW Panel: Career opportunities in the energy transition: the skills you need for the green economy

The EUSEW Policy Conference is the biggest conference dedicated to renewables and efficient energy use in Europe. The 17th edition of the Policy Conference took place in a



July 15, 2023

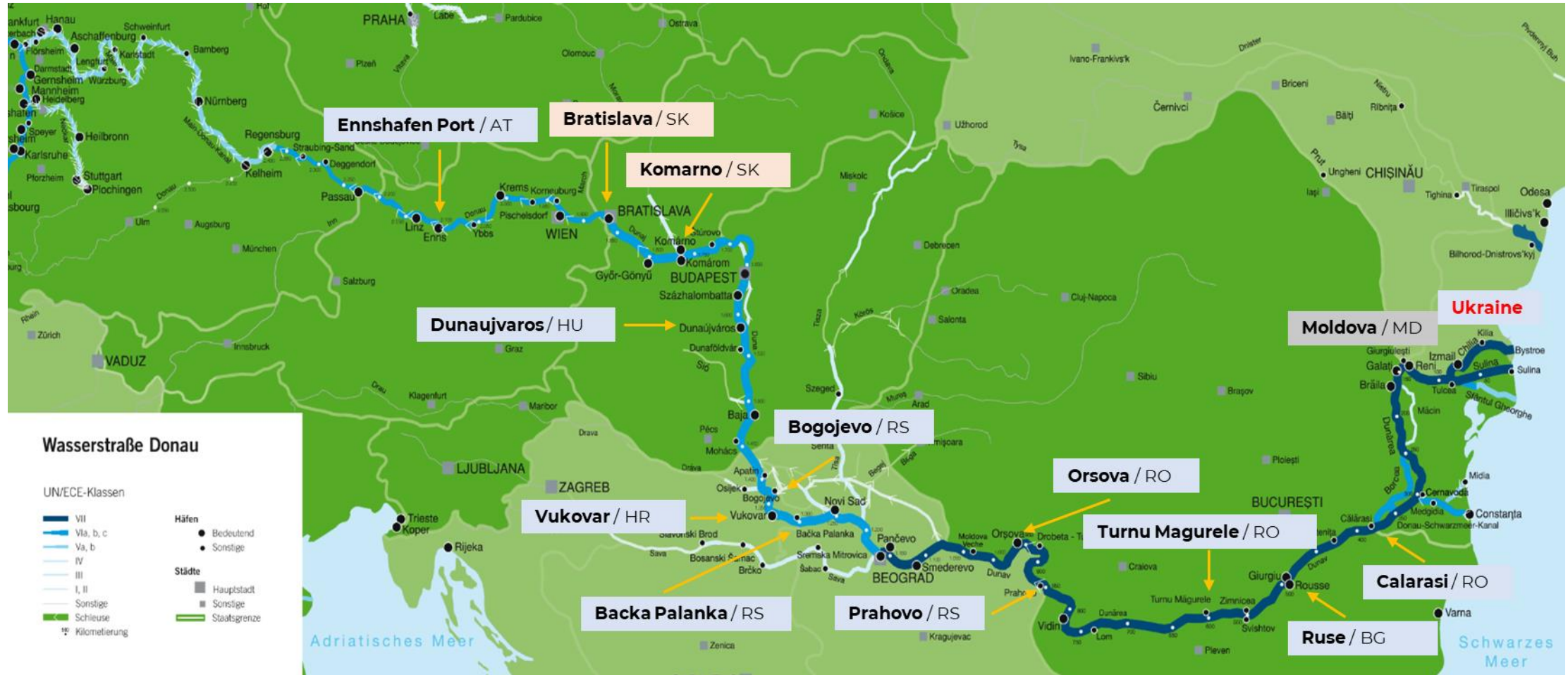
Valencia demoport workshop – Port decarbonization

On Thursday July 6th took place the Valencia demoport workshop at Fundación Valenciaport's headquarters. The event, which was titled "Decarbonization in ports", gathered over 30 professionals from Valencia's port ecosystem, including terminal operators, port authority members



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DIONYSUS project - Port Development Plans in the Danube Region



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DIONYSUS project - Executive Summary / Overview



far away from „one fits all“, each port has his own story and no standard-manual can be applied!

- port area from 5 ha – 352 ha
- public / mixed / private
- cargo - passenger transport – integrated business parks
- from trimodal to single-modal

green port

cargo

infra & digital

structure

in & out

Clustering of elaborated results into 5 categories:

- great diversity
- very different starting status
- big differences in regional economy
- future developments with broad variability
-

>>> measures & projects are very different and taylor-made for each country / each port



DIONYSUS project - Summary of categories in 13 DR ports



9 ports / AT, SK, HU, HR, RS, BG, RO, MD

Ennshafen / Bratislava / Komarno Port / Port of Dunaujvaros / Port of Vukovar / Port of Prahovo / Port of Turnu Magurele / Port of Ruse / Moldova



4 ports / AT, SK, HR, BG

Ennshafen / Bratislava / Port of Vukovar / Port of Ruse



13 ports / AT, SK, HU, HR, RS, BG, RO, MD

Ennshafen / Bratislava / Komarno Port / Port of Dunaujvaros / Port of Vukovar / Port of Bogojevo / Port of Backa Palanca / Port of Prahovo / Port of Orsova / Port of Turnu Magurele / Port of Ruse / Port of Calarasi / Moldova



4 ports / SK, RS,

Bratislava / Port of Bogojevo / Port of Backa Palanca / Port of Prahovo



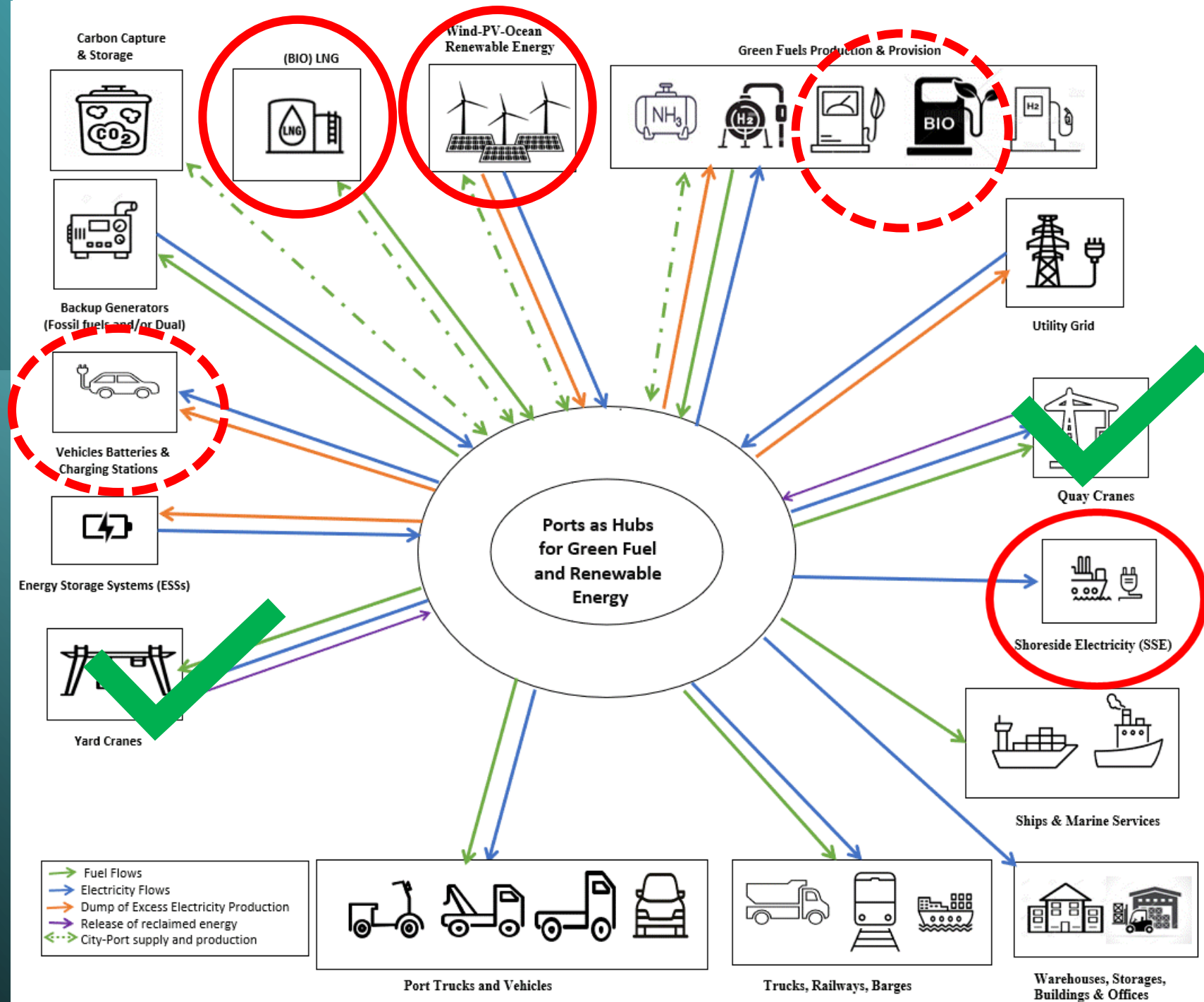
8 ports / AT, SK, HU, RS, RO, MD

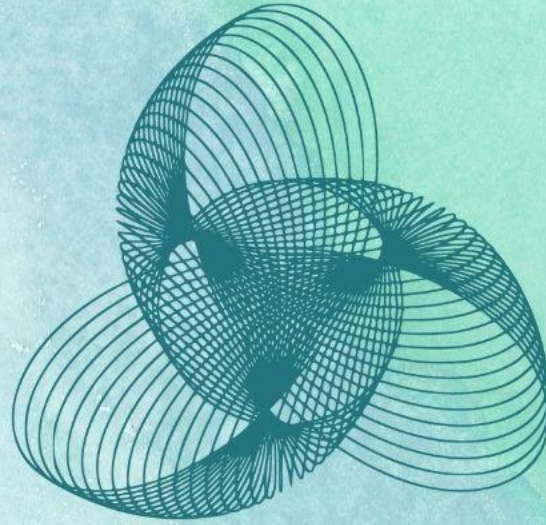
Ennshafen / Bratislava / Port of Dunaujvaros / Port of Bogojevo / Port of Backa Palanca / Port of Turnu Magurele / Port of Calarasi / Moldova



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Relevance for Danube Inland Ports





SEANERGY

**THANK YOU
FOR YOUR ATTENTION**



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