

EXTENDED PROGRAMME

11-22 OCTOBER

TOWARDS 2030: RESHAPING
THE EUROPEAN ENERGY SYSTEM

#EUSEW2021



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Hydrogen and its potential to decarbonise industrial hubs through ports

Isabelle Ryckbost - European Sea Ports Organisation

Sustainable Energy Week – 14 October 2021



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EUROPEAN SEA PORTS ORGANISATION

ESPO represents the port authorities, port associations and port administrations of the seaports of 22 Member States of the European Union and Norway at EU political level.

ESPO also has observer members in Albania, Iceland, Israel, Ukraine and United Kingdom.



The first port of call
for European transport policy makers in
Brussels

A knowledge network
that drives ports to perform better



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Port environment, stakeholders and interests



Source: Deloitte ESPO study June 2021

https://www.espo.be/media/Deloitte-ESPO%20study%20-%20Europe%E2%80%99s%20ports%20at%20the%20crossroads%20of%20transitions_1.pdf

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GREEN DEAL



Green Deal

New Growth Strategy

“will frame everything that is happening”

Fit for 55

Solving the problem, for ports:
essentially assist the shipping in
green transition

Ports : changing role

Develop new Business Strategy



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WHAT DOES IT MEAN FOR PORTS?



Solve the problem

- Energy transition of the port and its stakeholders

Be part of the solution

- Developing ports as sustainable energy hubs

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GREEN TRANSITION: PORTS ARE PART OF THE SOLUTION



Hubs of energy

- On average 40% of throughput of European ports are sources of energy
- Ports will play an equally important role in the production, supply, import, export and storage of clean energies and technologies

Unique landing points for blue economy

- All blue economy sectors, in particular the offshore renewable energy need a port (supply of the offshore, bringing on land and conversion of the energy)

Ideal location for circular economy

- Being the place where a lot of industrial activity is coming together and being in 90% of the cases located in or near urban agglomerations, Europe's ports are ideal locations and matchmakers for the circular economy

TURNING PORTS INTO SUSTAINABLE ENERGY HUBS: IMPLICATIONS



Port infrastructure and spatial planning

- More space needed
- Upgrade of infrastructure: e.g. offshore wind

Supply chains and Hinterland connectivity

- Other modes of transport: less rail?
- Pipelines

Maritime connectivity

- New connectivities: e.g. for import or export of new energies

Stakeholders and partnerships

- New partners: energy suppliers and producers

Skills

- Energy profiles and expertise needed

Port governance

- From land lord to investor, operator?

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WHAT ABOUT HYDROGEN?

1. **Important role** of ports in ramping up Europe's hydrogen economy => **different role depending on port, region**: import hub? export hub?
2. Important to **identify the infrastructure** needed in a comprehensive way: varied needs of hydrogen
3. Importance of **single-use hydrogen infrastructure**: during transition period gas infrastructure still very much needed; dual use not possible
4. Need for **hydrogen import infrastructure** if Europe wants to satisfy hydrogen demand by 2050
5. Importance of **local hydrogen market** (last mile): cross-border impact
6. Ramping up the hydrogen economy implies **boosting the renewable energy**: off-shore wind
7. Further develop **synergies between TEN-T and TEN-E** infrastructure



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IMPORTANT ELEMENTS TO SUCCEED IN THIS NEW ROLE



1. EU, national and local **governments must recognise this new role** of ports
2. This new role as sustainable energy hub can lead to a **revalorisation of port-city relations**
3. Becoming a sustainable energy hub: **both big and small ports** have this potential
4. Port authority must have **the tools** (port governance) to develop such a strategy
5. Uncertain development of technologies make it **difficult to make future-proof choices**
6. This **new role** is not coming instead of the traditional role of ports as transport and logistic hubs, but **comes on top**



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Deloitte

ESPO

Europe's ports at the crossroads of transitions

A Deloitte and ESPO Study

June 2021

AMME
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STEM
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Thank you
More information: www.espo.be



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