

Note-taking template

Theme	Energy Transition, Sustainability & Clean Industries	Round	1, 2
Room		Note-taker	Thulasi Ajith Vattekkatte
Facilitator	Tim Durant	Date	17 September 2026
Experts <i>names and organisations as they should appear in print</i>	Round 1 - Mathijs, PSA , Session 2 - André Lisboa, EDP Round 2 - Jeoren , TU Delft, Session 2 - Rob Kroon, FIER		
Approx. headcount	R1 approximately 35 R2 approximately 30	Sector mix <i>port authorities, terminals, shippers, technology providers, public authorities, researchers</i>	Planning and coordinating team, technology providers, people working in ports, researchers, startup innovators, university students

1. How the facilitator framed the prompt

- 1.What are the main elements of ports' energy transition roadmaps AND are these shared and well-coordinated?
- 2.What cooperation arrangements should ports put in place to plan and deliver a shared energy roadmap amongst its shareholders?

2. Quotes

Three to five per round. Mark clearly if a speaker asked not to be quoted or not to be named, and flag any wording you are unsure of so it can be checked.

Speaker	Organisation	Statement – as close to their own words as possible
Mathijs De Laet, R1	PSA	Each terminal is different, so the solutions need to be is different
oh André Lisboa, R1	EDP	"Today, ports are actively pursuing ambitious decarbonization initiatives. " "It's hard to navigate through demand, price, technology and carrier uncertainty to one coherent pathway" "The Energy Matching Tool showcases local production and operational flexibility greater value"
Jeroen Pruyn, R2	TU Delft	"Technology is not the issue, collaboration between innovators and legislators is needed to move forward"
Rob Kroon , R2	FIER	"Ports are becoming interconnected energy systems" "A shared energy roadmap is not one collective masterplan, It is a continuous process for improving individual and collective investment decisions "" The technology is not the issue; it is how to make proper agreement

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3. What participants said would actually change

- Energy demand is based on the usage and time for different industries and therefore corporation should be coordinated.
- Listen to the client, their needs and organize energy partnership

4. Preconditions named

What keywords, organisational elements and tools do you think should shape 'Partnerships for Energy Cooperation'?
Data sharing , Orchestration , willingness to cooperate. Governance, funding

5. Barriers raised

Type of barrier	What was raised, and by whom
Regulatory	
Financial	• Flexibility to invest on basic infrastructure- port authority • Politics around subsidies for technology - technology provider
Governance and organisational	• Space or land area for the deployment of new innovations is a challenge.
Data and digital	• Willingness for data sharing
Skills and labour	
Other	• No real business case for energy corporation • Stakeholder coordination was bit challenging to align with purchase plans

6. Concrete examples

- *OPS could be one of the best solutions for decarbonization and scope 3 emissions , but main challenge facing is grid connection*
- *Electric and hydrogen dual fuel straddle carrier at PSA terminal port of Antwerp, PIONEERS*
- *Automated staking cranes at port of Antwerp*
- Digital infrastructure and smart technologies
- Battery Zess packs ,Pioneers
- Opera model to figure out demand by carreirs ,Magpie
- Energy matching tool showcases local production operational flexibility to manage the port operation , Magpie
- Energy management system
- Electric terminal tractor, port of venlo

7. Explicit asks of the EU or of national regulators

- *Energy transition is an EU priority. However, should also give more freedom to invest in the basic infrastructures connecting to these innovations.*
- Ports require more governmental support

8. Disagreements

Who disagreed with whom, and on what. Record both positions rather than a compromise.

9. Questions the facilitator or experts could not resolve

10. Room dynamics

Did the discussion converge or fragment? Did one or two voices dominate? Was the mix broad or concentrated in one part of the sector?
The atmosphere was interactive. The experts provided presentations with innovative examples ie. demonstrations from both PIONEERS and Magpie project. Participants were encouraged to ask questions. Self-moderated group discussions were encouraged to address their opinion about corporation agreements.

11. Comparison with the other round

Complete after Round 2. Points prominent in Round 1 that were absent, contested or reversed in Round 2 – and points both rounds reached independently.
The mentimeter survey in both the rounds showed similar results regarding the need on the partnership for energy corporation. Majority of the participants in both the rounds were involved in planning and coordinated activities across port sectors.

12. Priority points for each output

Completed at the end of the session, so that the people writing up the material do not have to make this judgement for you.

For the EU position paper – policy and regulatory implications, EU-level asks, barriers recurring across ports, points of convergence

- Current priority for decarbonization terminal operation is by electrification of port equipment, but usage of hydrogen as fuel for port equipment could be a good technical solution once the hydrogen prices are affordable
- Collaboration is the key to get included in energy transition
- Ports and municipalities can open floor for such Energy corporation agreements

For the session report and newsletters – practice examples, participant experience, illustrative anecdotes, atmosphere

Participants did not had opportunity to present their examples. The examples were discussed in smaller groups .

- Ports should establish partnership for energy corporation - 27/ 30 voted in mentimeter exercise
- Participants knowledge about ports says that there exists short- medium term planning and multi partner initiatives relating to electrification and or alternative fuels
- Port of Rotterdam stated that Decarbonization and emission reduction were the main objective and could achieve 55% reduction compared to 2019 and aiming for netzero by 2050.

- A port energy hub could analyse the energy demand, local production flexibility and align to investment options with defined agreements.
- A shared energy roadmap is not one collective masterplan. It is a continuous process for improving individual and collective investment decisions