

Port of Antwerp-Bruges

Energy transition impact
on product flows and
hinterland connectivity

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Port of
Antwerp
Bruges



Your journey

1. A global port connected to the world
2. Port for sustainable industry
 - NextGen district: circular economy
 - Antwerp@C: CCUS value chain
3. Port for sustainable energy
4. Port for sustainable transport



Chapter 1

A global port connected to the world



Port of
Antwerp
Bruges



Total throughput
287 mio ton/year



Number one **export**
port in Europe
140 mio tons/year



Largest **car handling**
port in the world
3,5 mio cars/year



Largest **chemical**
hub in Europe



15% of EU **gas** market



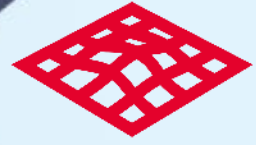
Important **cruise**
port in Benelux
+300,000 passengers



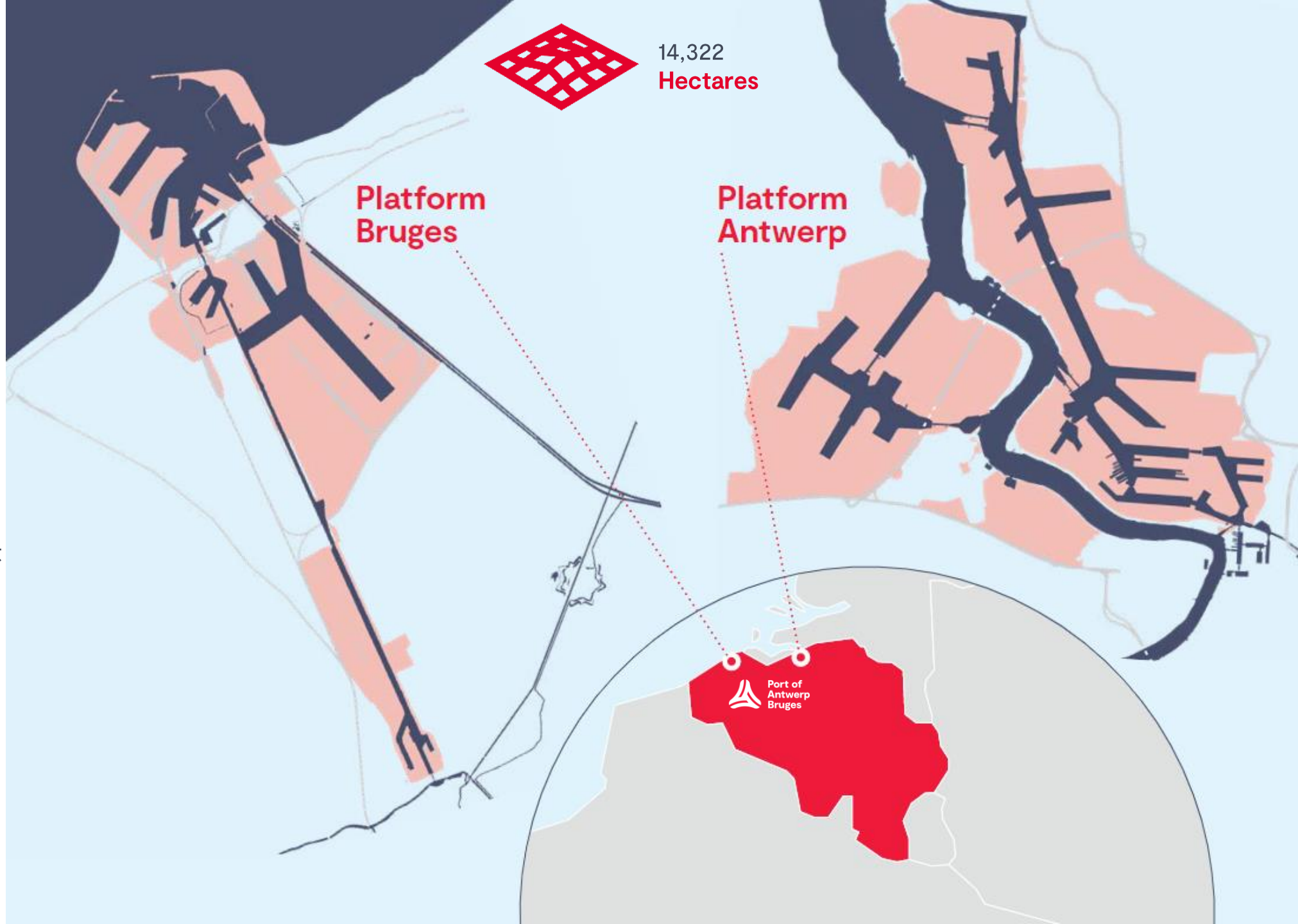
164,000 **jobs**
Direct and indirect



1,400
Companies



14,322
Hectares



On the road to a climate-neutral port in 2050 **Port of Antwerp-Bruges as an indispensable link in circular economy and energy transition**



Chapter 2

Port for sustainable industry



Port of
Antwerp
Bruges

Antwerp as largest petrochemical cluster in Europe

Monomer and polymer production capacity

Monomer
capacity
8,5 Mt

80% of total
capacity in Belgium

Polymer
capacity
3,7 Mt

50% of total
capacity in Belgium



- | | | |
|---------------------|-----------------------------------|--------------------------|
| 1 BASF DOW HPPO | 10 Evonik | 19 TotalEnergies |
| 2 BASF | 11 Covestro | 20 Nippon Shokubai |
| 3 Ineos Styrolution | 12 Ashland | 21 Kuraray |
| 4 Air Liquide | 13 Monument Chemical | 22 Praxair |
| 5 Eurochem | 14 Lanxess | 23 3M |
| 6 Gunvor | 15 Lubrizol | 24 Kuwait Petroleum (Q8) |
| 7 Ineos | 16 Borealis | 25 Inovyn |
| 8 Bayer Agriculture | 17 TotalEnergies | |
| 9 Eastman | 18 ExxonMobil (Ref. + Petrochem.) | |

Nextgen District: circular hotspot



PU & PET
Recycling
plant (2024)

Recycling
end-of-live
tyres (2025)

Triple
Helix

Bolder
Industries

NextGen Demo
± 2,2 ha

Eko-
pak

Waste water
treatment
plant (2025)

Plugpower

PureCycle
Technologies

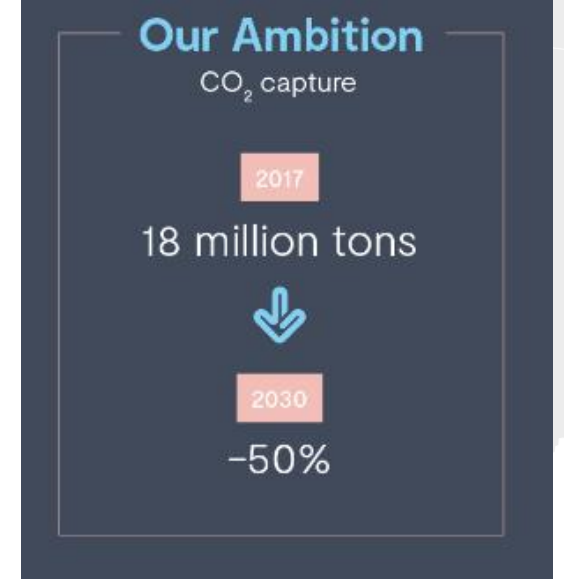
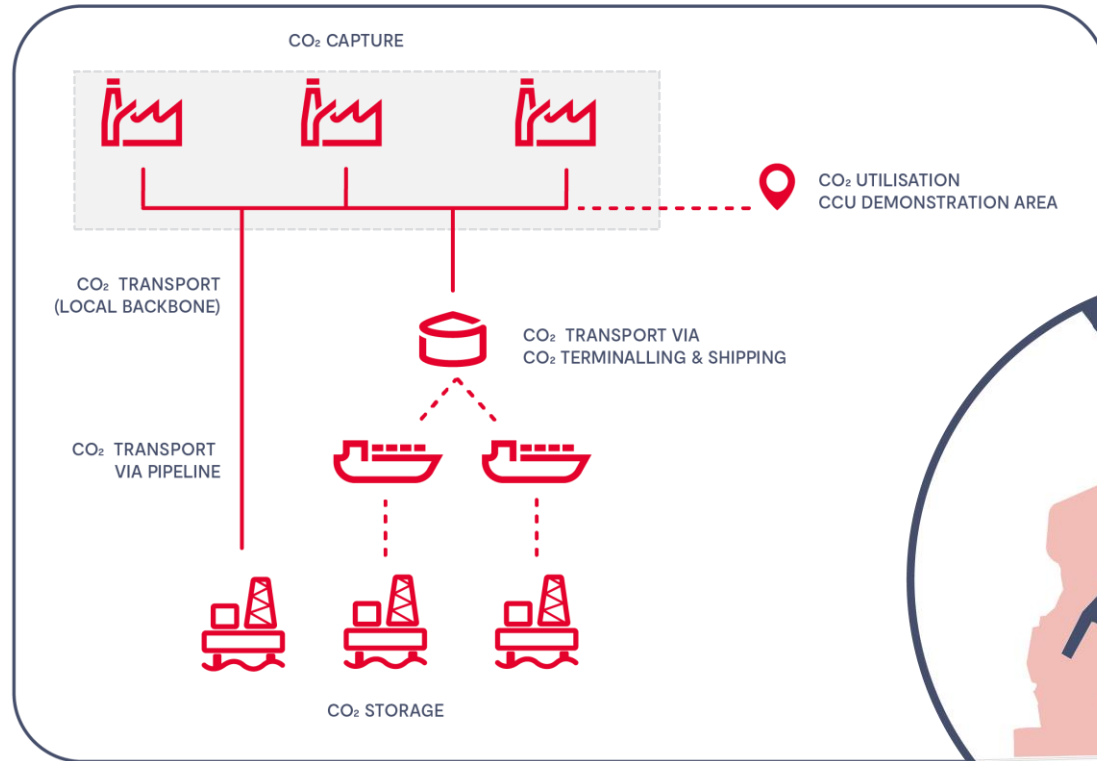
Green
hydrogen
plant (2025)

Plastic
recycling
plant rPP
(2026)



Antwerp@C

Building a CCUS value chain in Port of Antwerp-Bruges



Project partners:



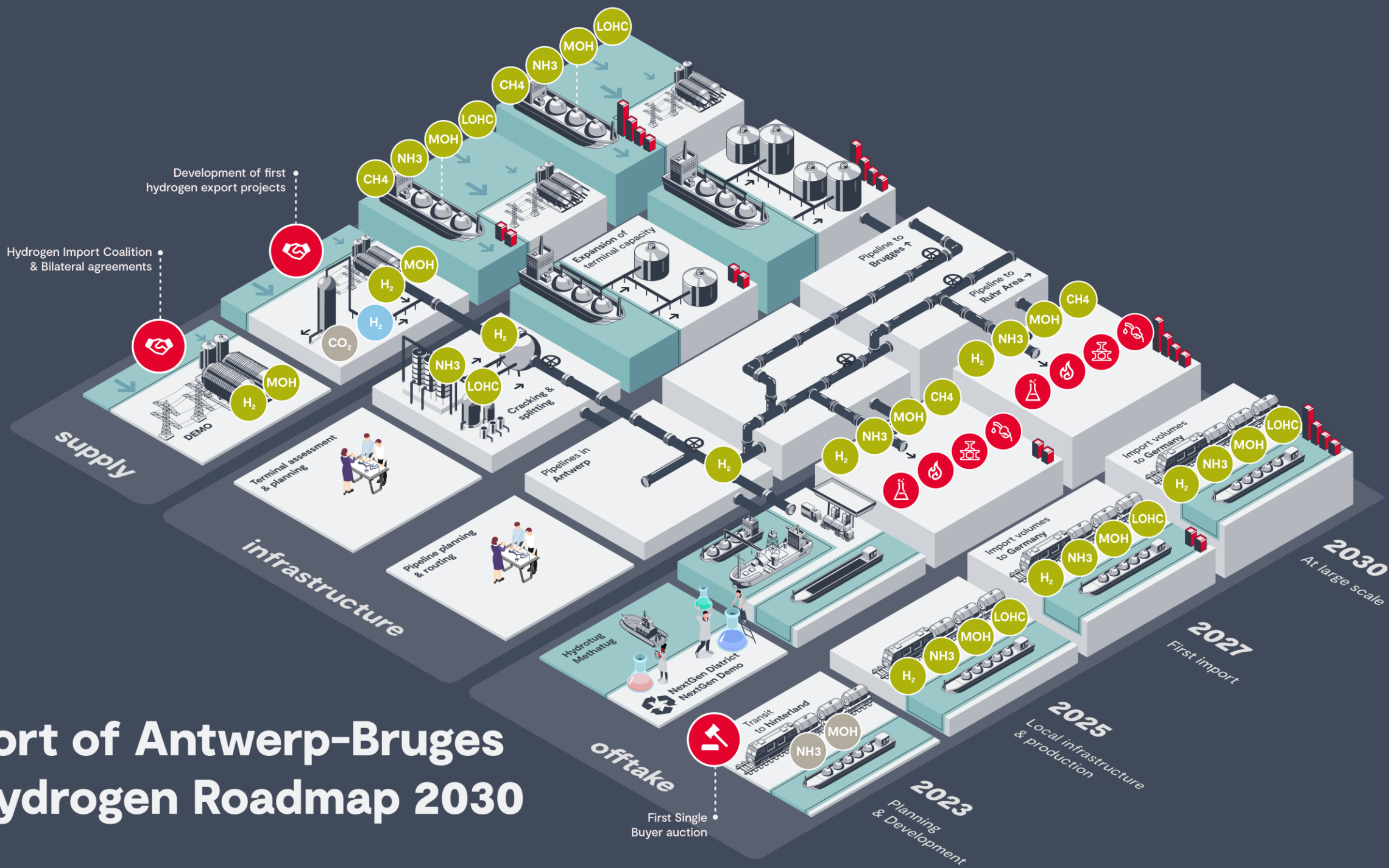
Chapter 3

Port for sustainable energy



Port of
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Bruges

Port of Antwerp-Bruges Hydrogen Roadmap 2030



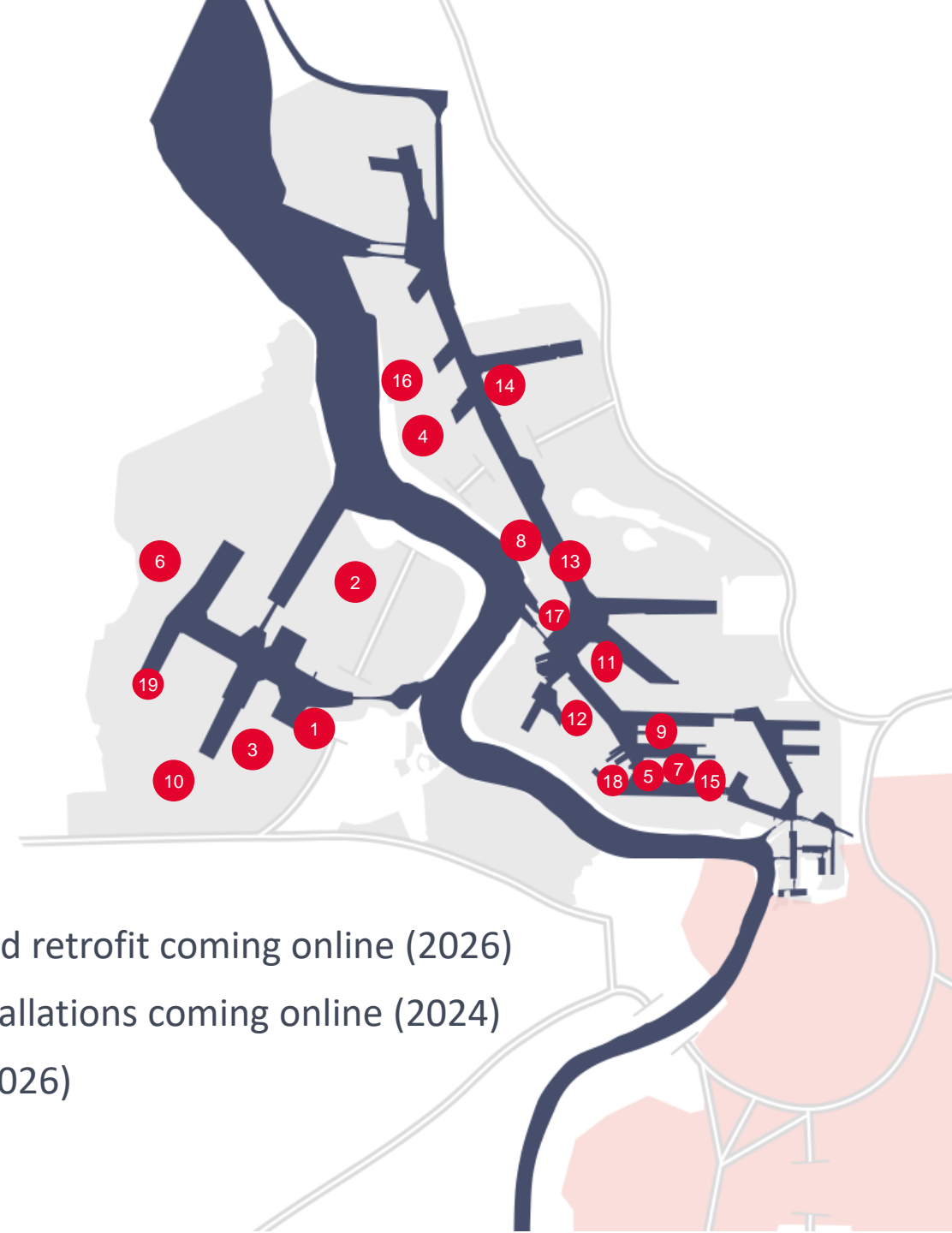
Infrastructure: terminal analysis

Tank storage in Antwerp

1	ADPO Kallo
2	ADPO LLH
3	Advario Antwerp Gas Terminal
4	Advario Stolthaven Antwerpen
5	Antwerp Terminal & Processing Company
6	ITC Rubis Terminal Antwerp
7	LBC Antwerp
8	LBC Cepsa Antwerp
9	Noord Natie Odfjell Antwerp Terminal
10	Pantank Terminals
11	SEA-Tank Terminal Antwerp K300
12	SEA-Tank Terminal Antwerp K405
13	SEA-Tank Terminal Antwerp K510
14	SEA-Tank Terminal Antwerp K700
15	Standic
16	Vesta Terminal Antwerp
17	Vopak Terminal ACS
18	Vopak Terminal Eurotank
19	Vopak Terminal Linkeroever



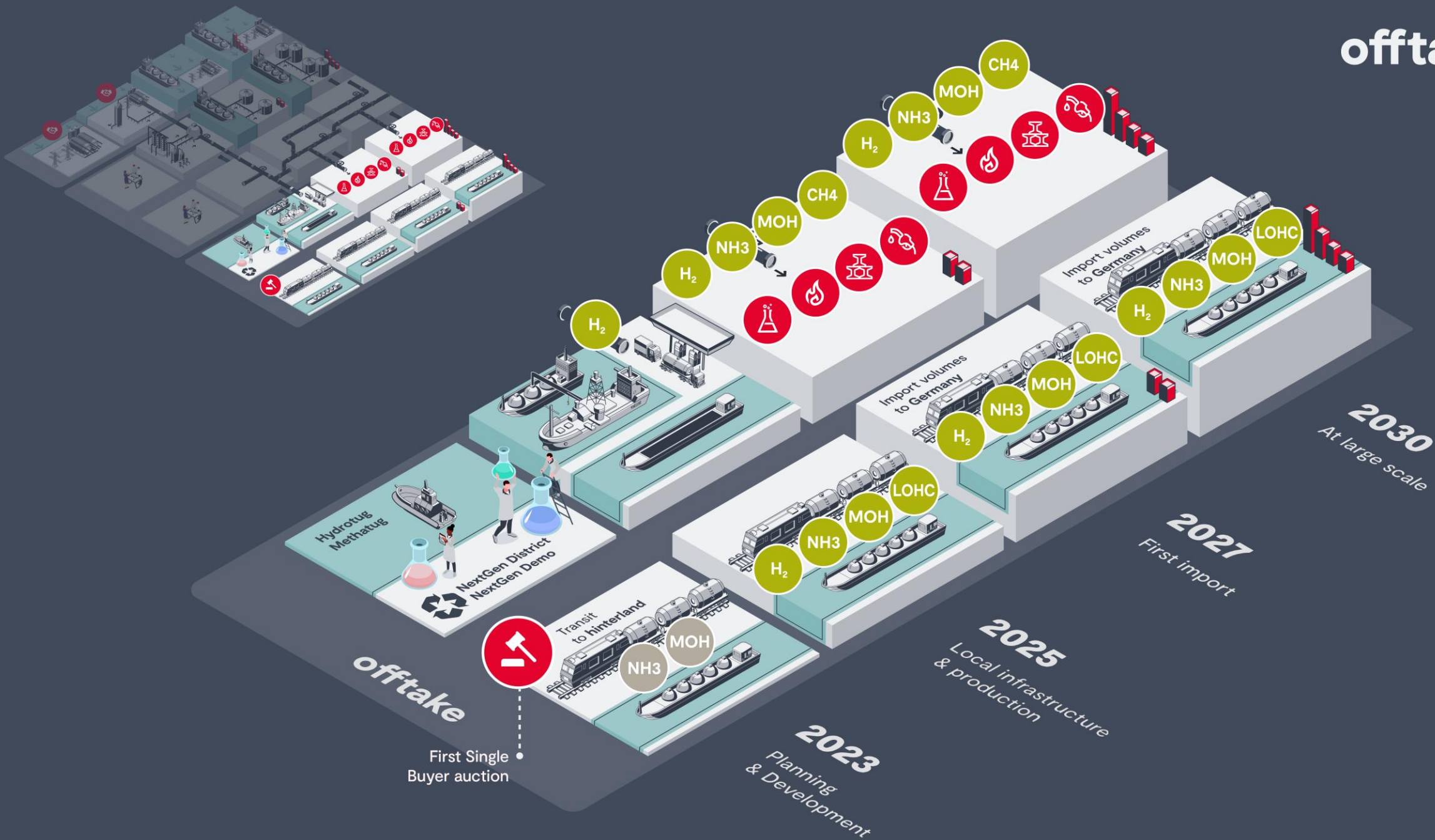
8,861,085 m³



- H2 carriers storage capacity: new build and retrofit coming online (2026)
- Ammonia cracking and LOHC splitting installations coming online (2024)
- H2 pipeline open-access coming online (2026)



**Port of
Antwerp
Bruges**



Connectivity

Multimodal gateway to the European hinterland

Rail



Inland navigation



Road



Shortsea



Pipeline



60% of European consumer market within range of 500 km



Rail Bundling

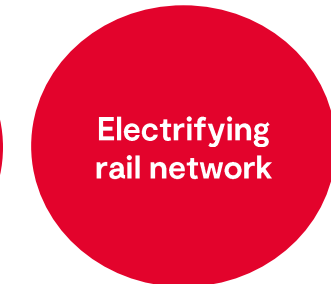
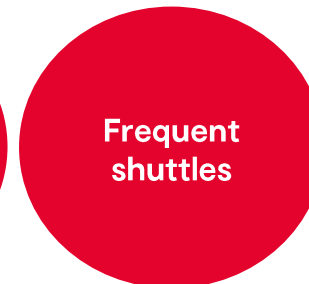
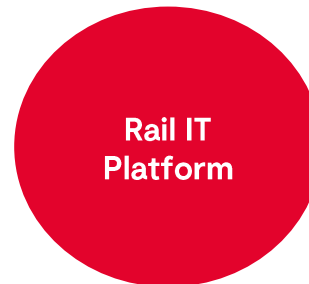
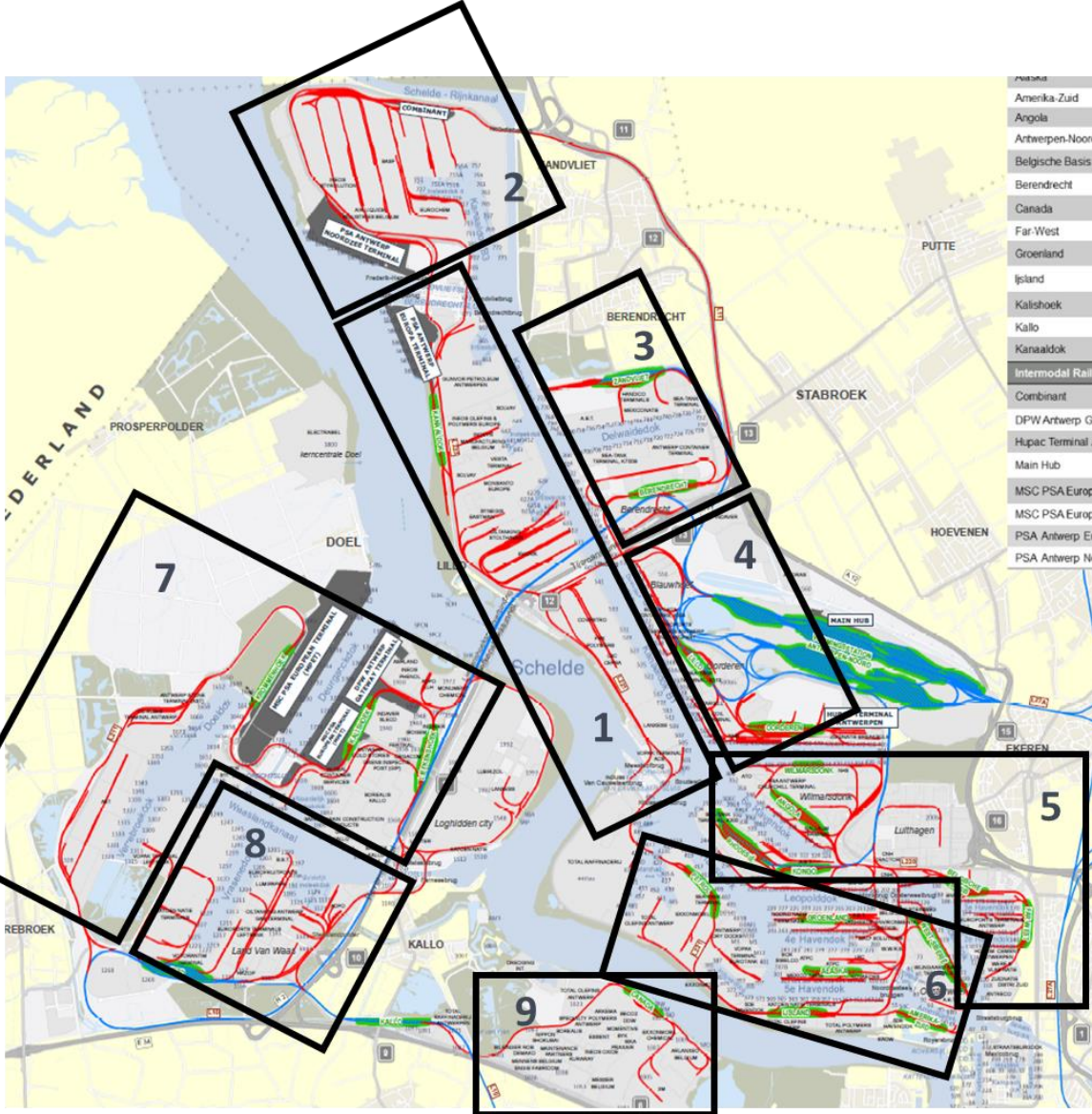
Efficient rail connections



Short term goals:

Neutralising Antwerp-North
shunting hill (2023)

Bundling for first/last mile (2024)



Chapter 4

Port for sustainable transport



Port of
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Bruges

Hydrogen in inland navigation

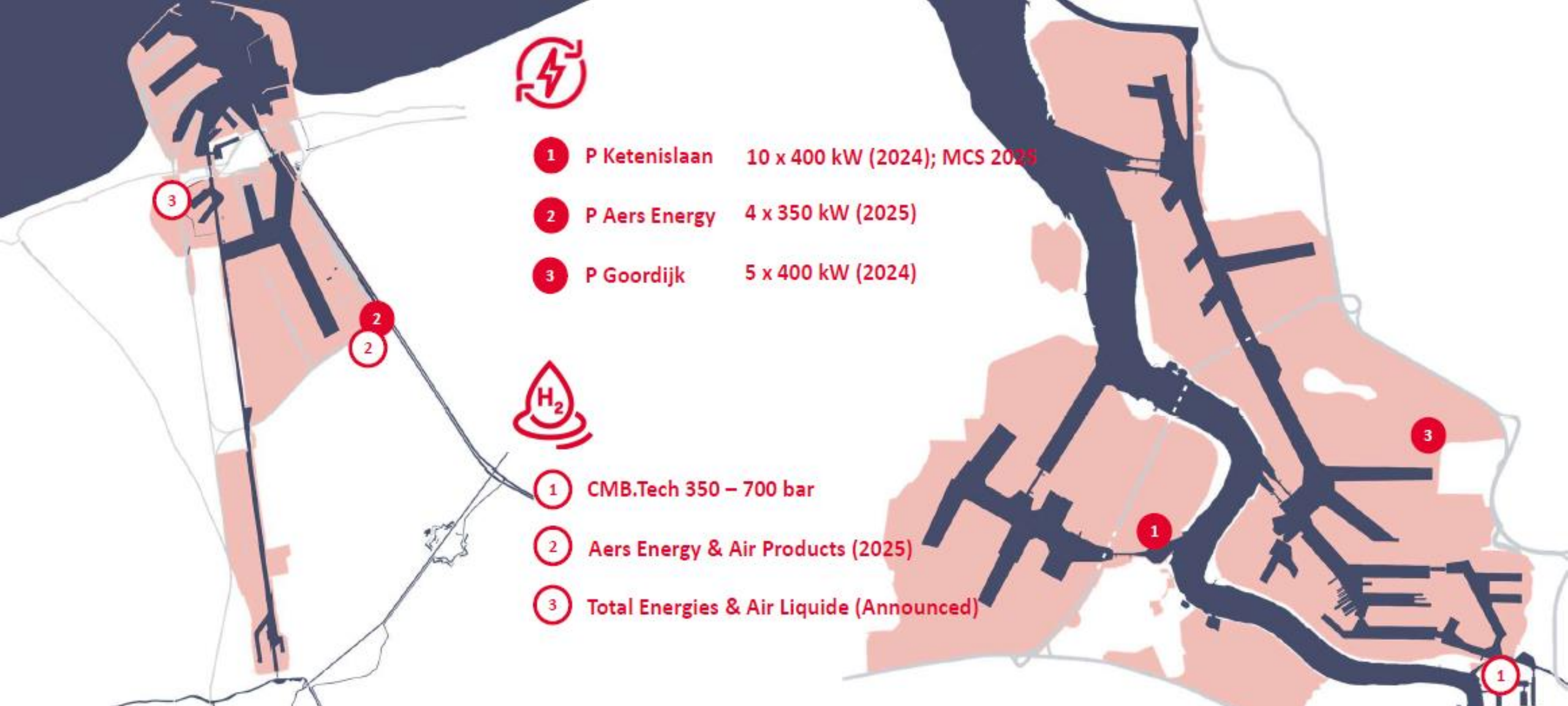
H2 as a fuel



HyTrucks

Project to run 300 H₂-powered trucks in the port by 2025





- 1 P Ketenislaan 10 x 400 kW (2024); MCS 2025
- 2 P Aers Energy 4 x 350 kW (2025)
- 3 P Goordijk 5 x 400 kW (2024)



- 1 CMB.Tech 350 – 700 bar
- 2 Aers Energy & Air Products (2025)
- 3 Total Energies & Air Liquide (Announced)

80-100 km

Summary

Cooperation is key !

1. A global port connected to the world
2. Port for sustainable industry
 - NextGen district: circular economy
 - Antwerp@C: CCUS value chain
3. Port for sustainable energy (H2)
4. Port for sustainable transport



In tune with the world

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