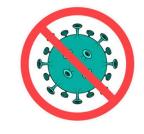
Welcome to the WIC meeting!



DIGITAL WIC MEETING SEPTEMBER 8, 2021



Welcome to our digital WIC meeting!



A few game rules:

✓ Mute yourself but you can use camera





✓ Ask your questions in the chat (⇒)



✓ You can use mic/cam in the question round ?

AGENDA



New members

10.00 – 10.40 AM : Presentation new members: ERIKS, Linde Gas, Verwater, Universiteit Antwerpen, Jan De Nul, WDP

Guest speakers

10.30 – 10.50 AM: The Dutch approach towards hydrogen and mobility (Alexia Michel, lenW NL)

 $10.50-11.10\,\text{AM}\,$: Activities & collaboration with WIC (Filip De Weerdt, Flanders Investment & Trade)

11.10 – 11.30 AM: Port of Rotterdam as an EU hydrogen hub (Randolf Weterings, PoR)

General WIC info

11.30 - 11.50 AM : News from the cluster

11.50 - 12.00 AM: News from cluster members

PRESENTATION NEW CLUSTER MEMBERS









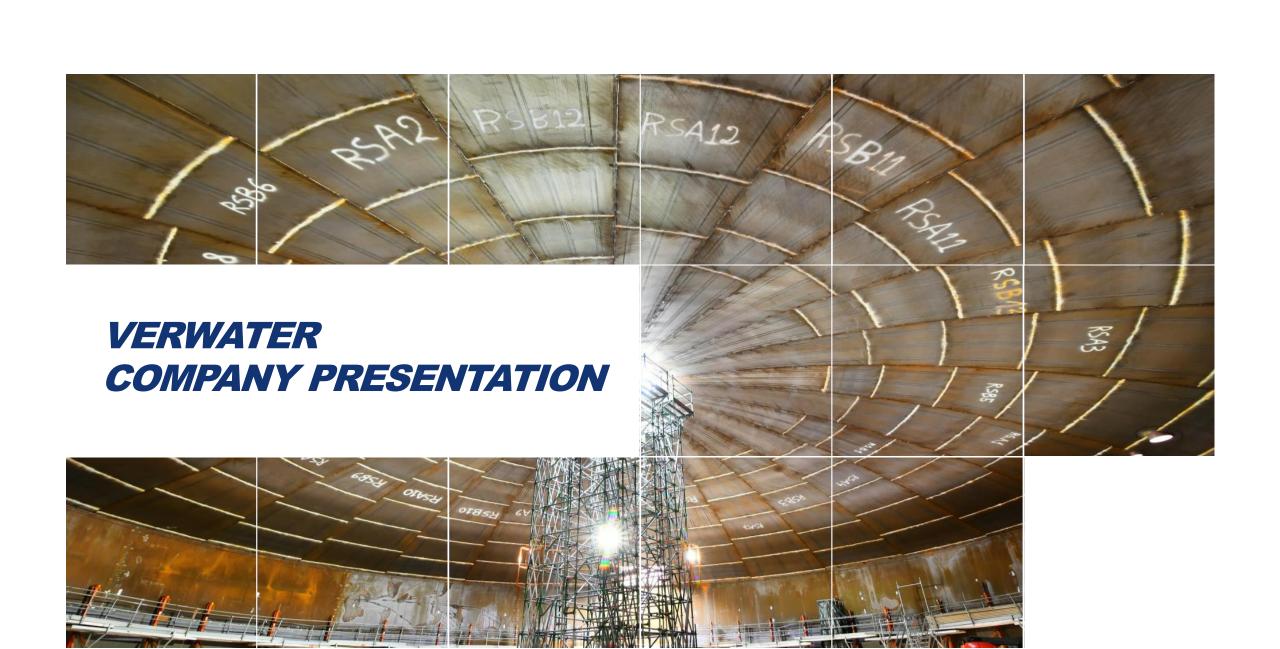




Making our world more productive



Presentations new members



Content Verwater company presentation

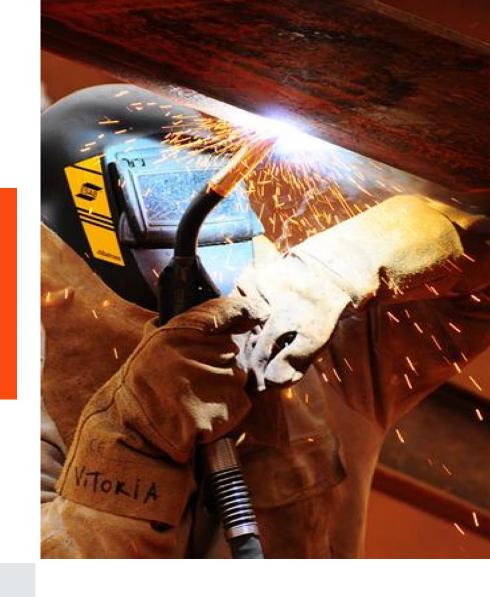
- History
- Overview of our Services

- Detail of Tank Maintenance approach and services
- General Maintenance Management

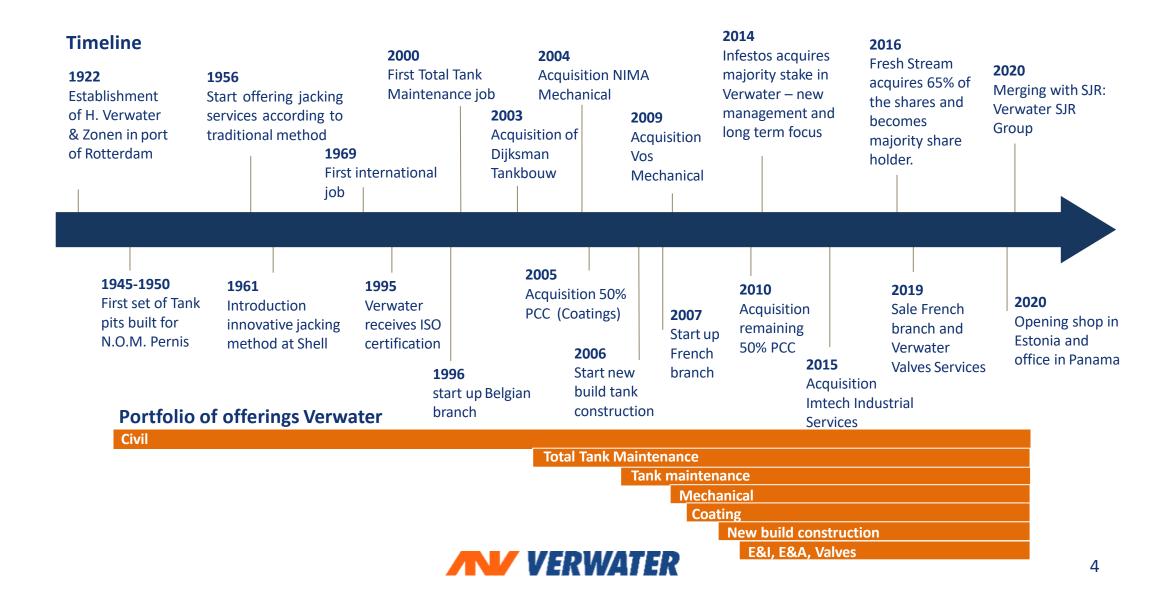
References EPC Projects







Over the years we built a portfolio of multiple service offerings

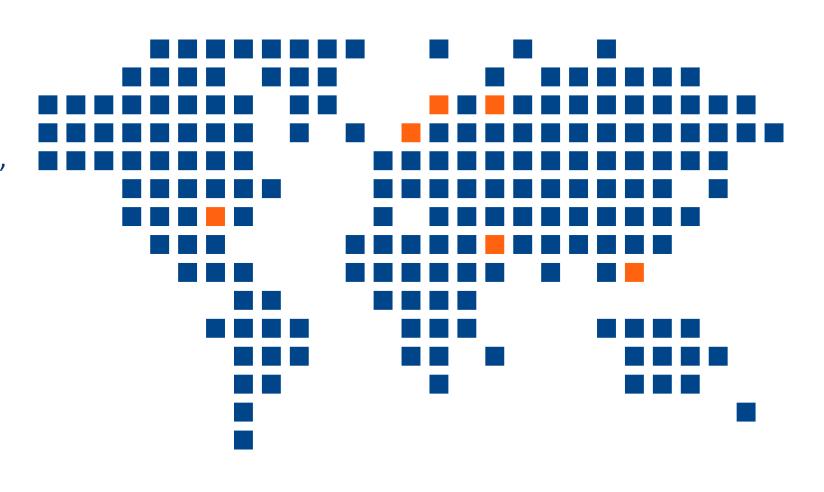


From our global offices we meet the highest demands of projects wo

 Locations in the Netherlands (HQ),
 Belgium, Estonia,
 Louisiana, Singapore,
 Panama and Oman



Appr. 1.200
 experienced people
 are working for us
 globally





OVERVIEW OF OUR SERVICES



We offer a unique kind of in-house services



Tank Maintenance



Piping & Mechanical



Tank Construction



Engineering



Civil



Hydrocutting



Tank Jacking



Electrical & Instrumentation



Tank Relocation



Engineering & Automation



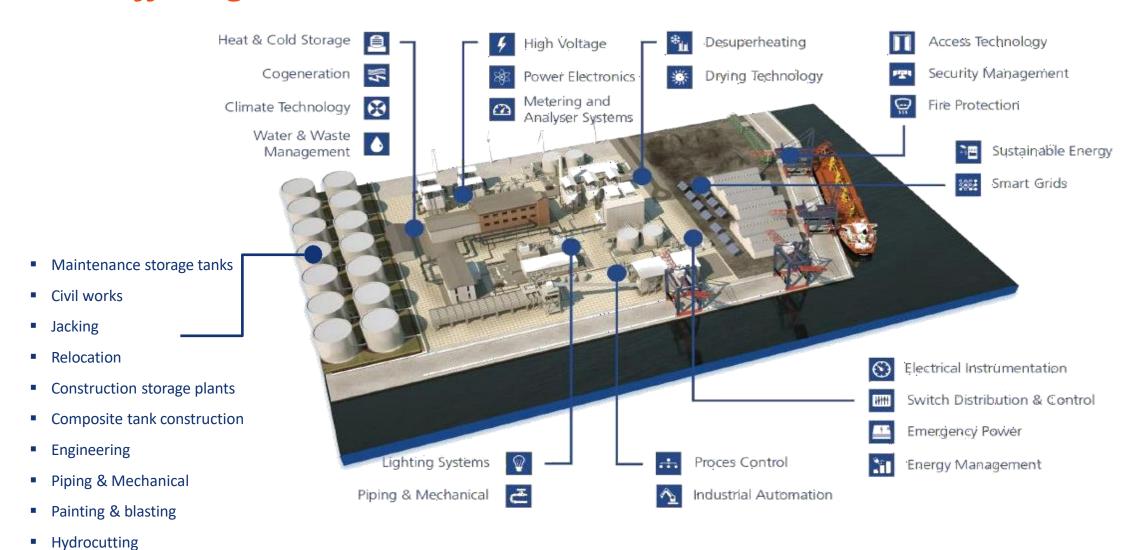
Protective Coating



Panelbuilding



Our offering





OVERVIEW OF OUR SERVICES



Verwater + hydrogen

Invest in sustainable energy sources

Assist our valued clients in their energy storage transition

Looking to develop efficient hydrogen storage

Provide innovative storage solutions for the future







LOHC General – Findings from Review Paper

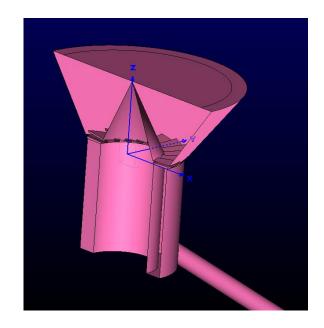
 Hydrogen Storage Capacity: medium density / efficiency compared to others

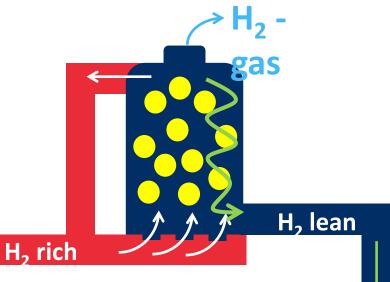
- Easy long term storage
- Easy to cycle
- Readily available infrastructure for transport
- Use for large scale applications → Reactor systems + heat required
 - Trains
 - Ships
 - Supply system for hydrogen fuelling stations



Reactor Technology

- Reactor Engineering using CFD
 - High contact between catalyst and reagent
 - 1 PhD running
 - 1 PhD starting October
 - 1 Master Thesis Starting February
- Electrification of Chemical Reactors
 - Test Project Electrically heated reactor for H₂ release from Formic Acid
- Reactive Distillation

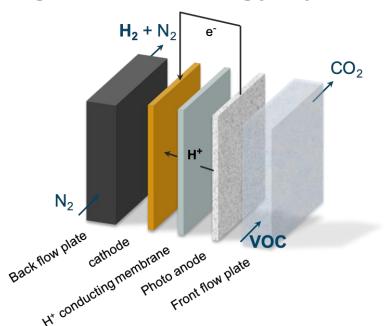




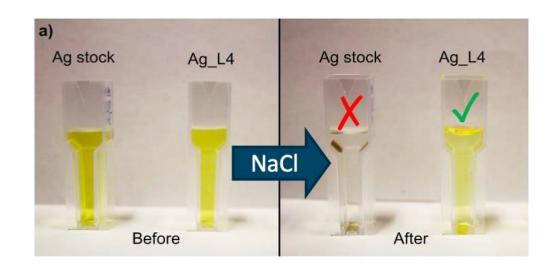


Emerging solar-driven H₂ Production Technologies

- H₂ recovery from waste
 - Degradation of organic waste at the photoanode
 - H₂ formation at the cathode
 - Sunlight as sole energy input



- H₂ production from seawater
 - Water splitting in the presence of salts
 - Focus on photocatalyst compatibility (solar response and stability)







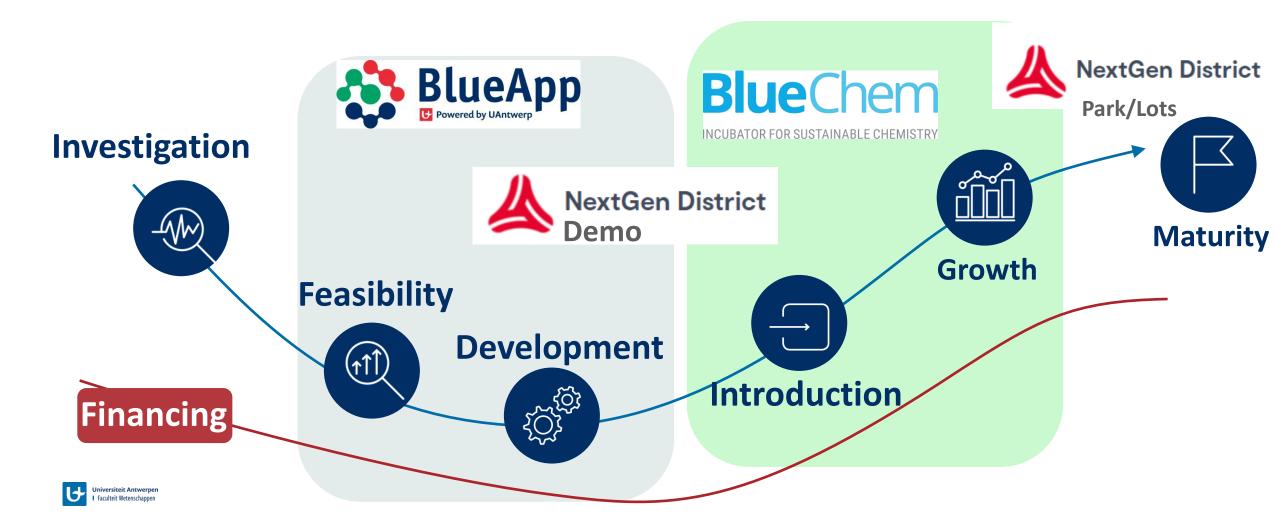
Electrolysis and plasmabased hydrogen production

- Tackle power usage of electrolysis by optimizing reactor design: structured 3D electrodes
 - High surface area and structured geometry, a reduced ohmic resistance, an efficient bubble release, a small pressure drop and a uniform current distribution
- Various plasma reactors for CH₄ (or other hydrocarbon, or biogas)
 conversion into H2 and C



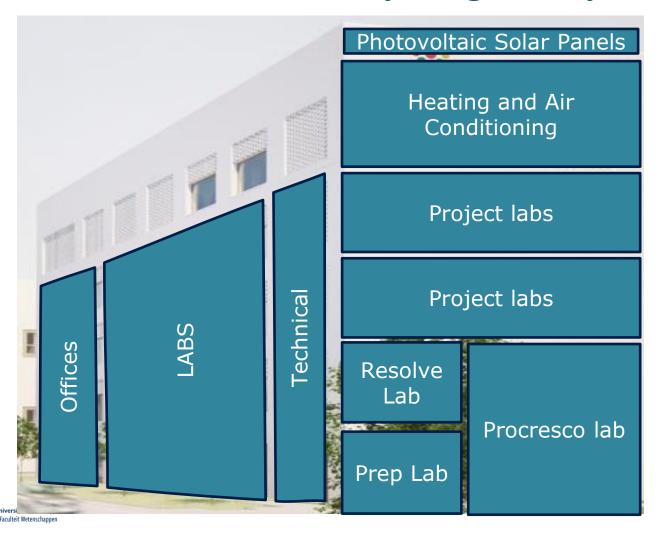
BlueApp

The Antwerp region takes action to close the innovation gap

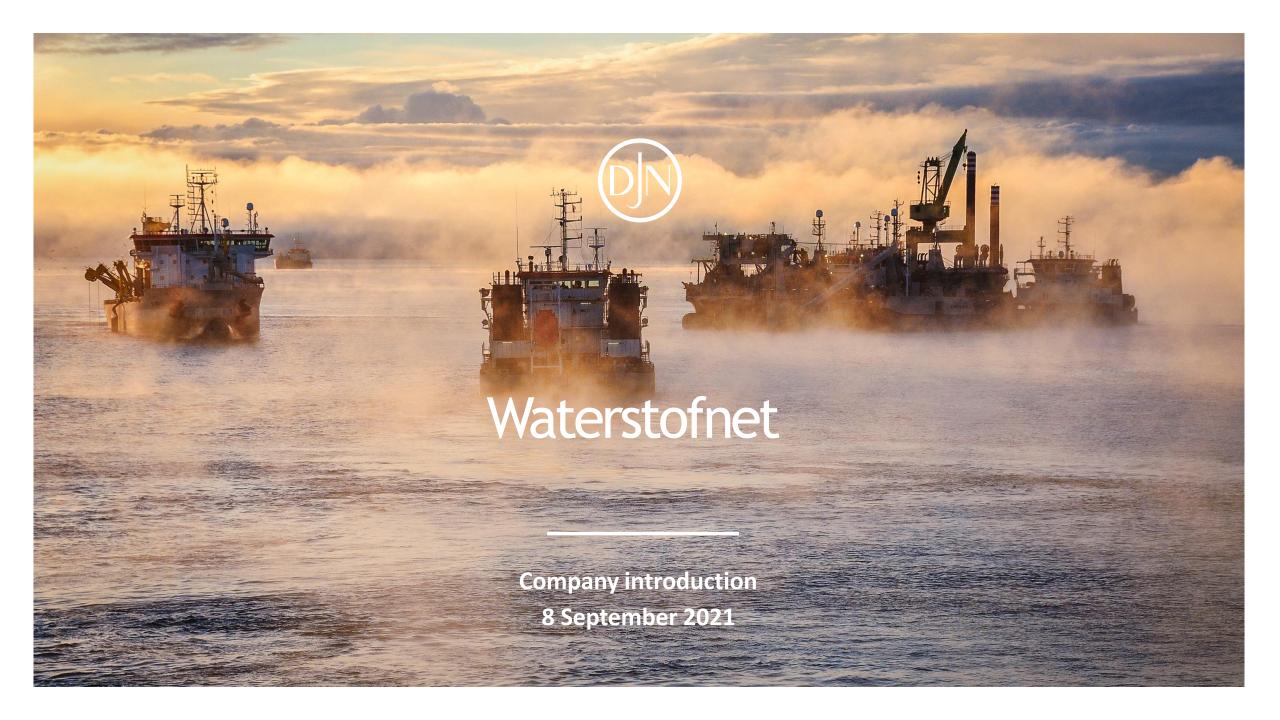


BlueApp

Infrastructure for an inspiring workplace



- Project lab (1470 m²): entrepreneurs in sustainable chemistry.
- Pilot facility (400 m²): from labscale to production – ceiling height up to 7m
- Prep lab (110 m²)
- Resolve lab (340 m²): analytical lab to support R&D



Jan De Nul at a glance.





Offshore Energy.

Full balance of plant, design, installation and cable connections of all aspects of offshore energy projects.



Marine Works.

Concept realisation, design, expansion and maintenance of ports, rivers and coastlines.



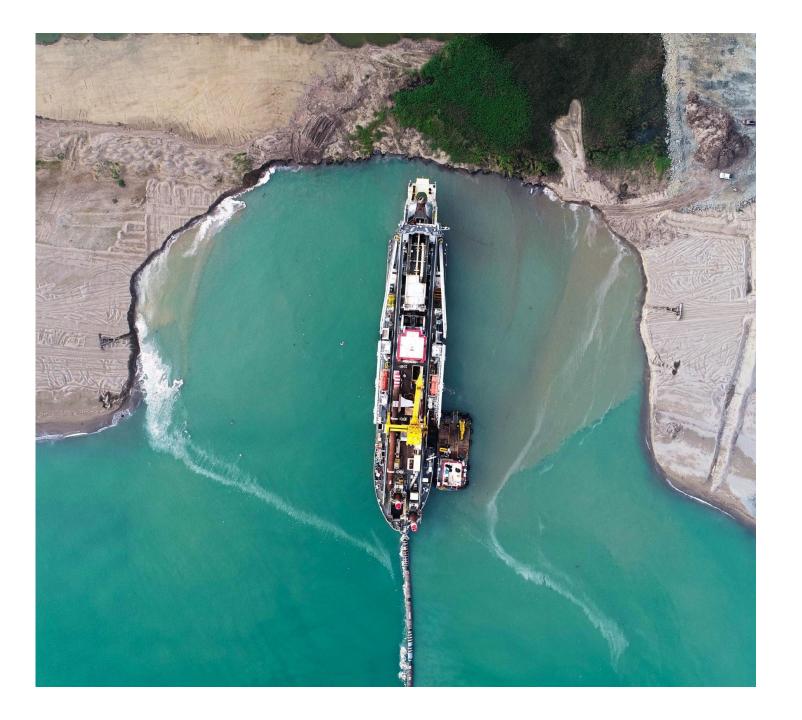
Civil & Industrial Constructions.

Design and construction of onshore infrastructure, buildings, industrial installations and foundations.



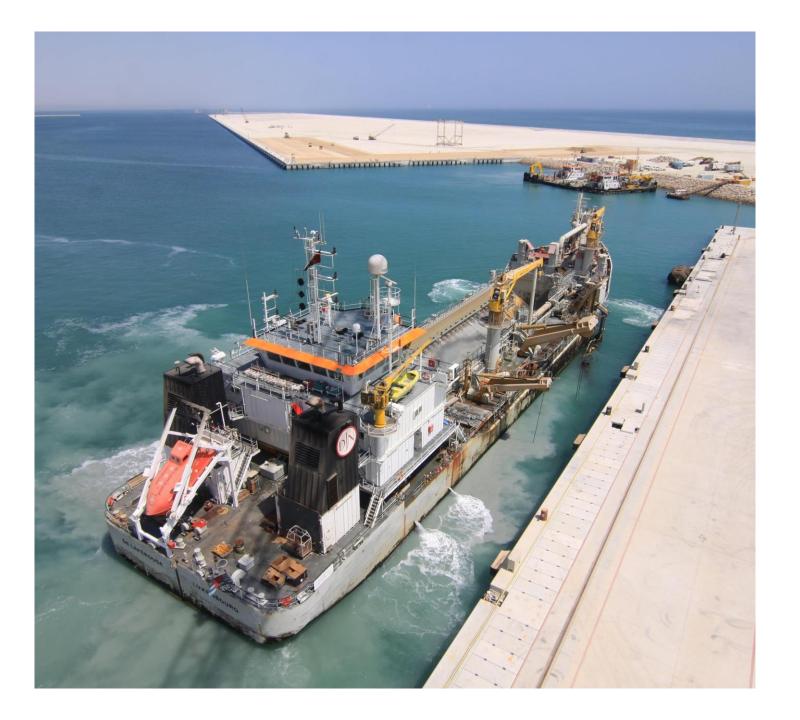
Circular Solutions.

The answer to environmental issues. Reconversion of sites, remediation and maximal valorisation and reuse of sediments.





Total solution provider.





Global experience and family owned.

INTRODUCTION

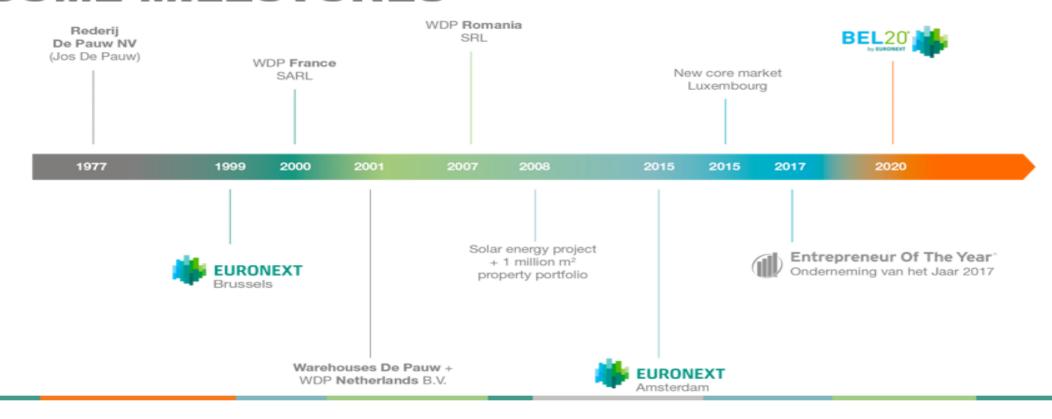
About WDP

- Established in 1971.
- Own, develop and manage logistics and semi-industrial property.
- The family character of our company and values are the hallmark of our commitment.
- Rental market leader for business and warehouses space in the Benelux region.
- Our main fields of operation are in The Netherlands, Belgium, North of France, Romania, Germany and Luxembourg.
- WDP has been listed on the NYSE Euronext stock exchange since 1999.
- Fair value of property at 1-1-2021 > EUR 4,765.5 million



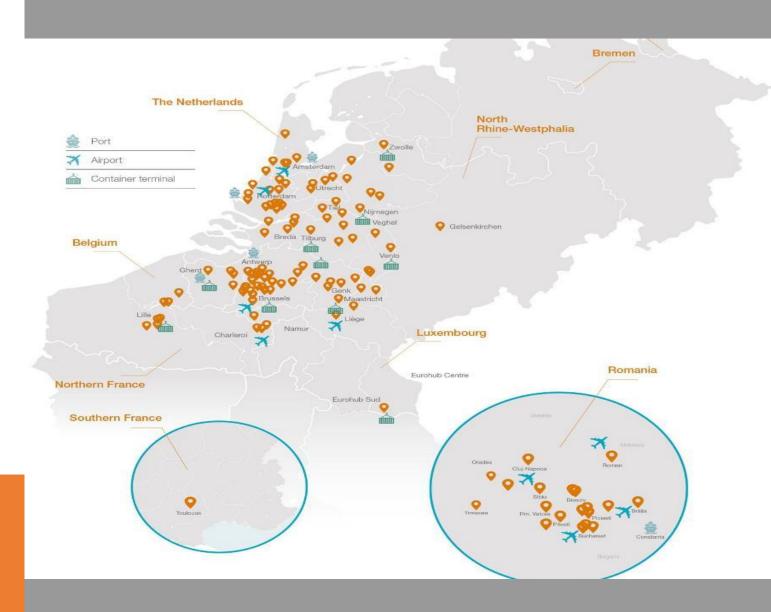


SOME MILESTONES



INFRASTRUCTURE MULTIMODAL CONSUMER

> 6,100,000 m² warehouse space



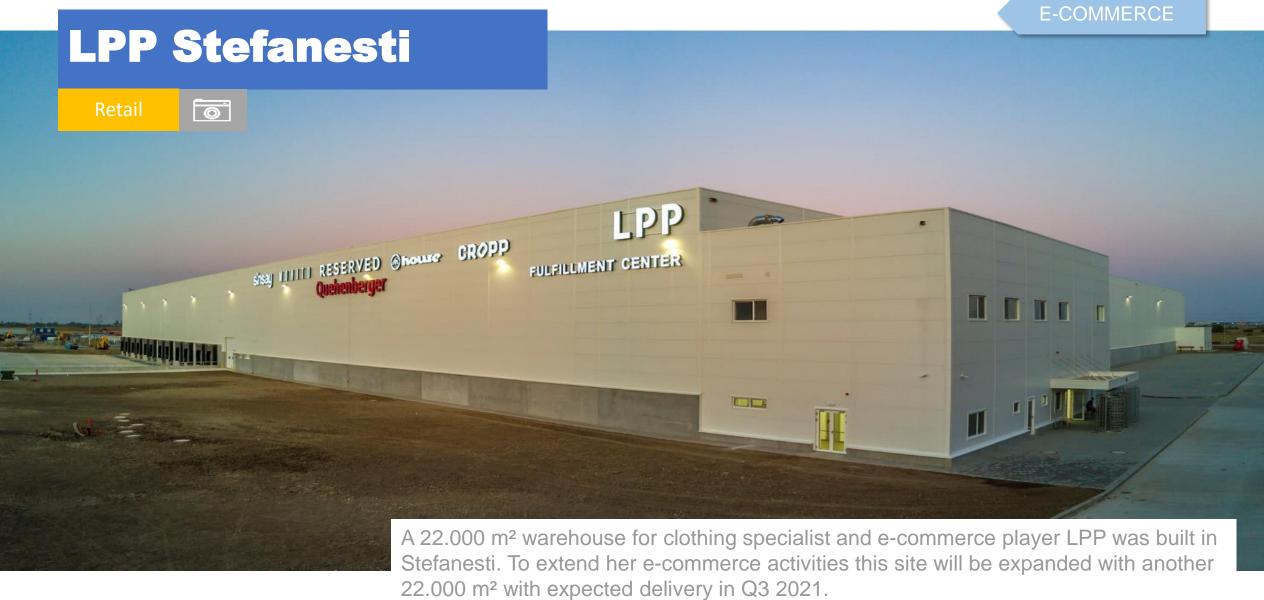
















Decathlon Stefanesti

Retail





number-one sports equipment retailer in Europe. This warehouse was built with close attention paid to the slightest detail, fully in keeping with the client's corporate identity. Currently expanded with another 10,000 m² with expected delivery in Q1 2021.



5Y GROWTH PLAN

Growth plan 2019-23

Towards a 6bn portfolio









(1) Investment volume to be realized i.e. excluding portfolio revaluations and referring to the net effective economic interest of WDP (i.e. excluding minority interests and including the proportionate share in joint ventures). The targeted investment volume in the 2019-23 growth plan amounts to 2.0 billion euros by the end of 2023 – implying that the envisaged investment will have grown within the balance sheet by then and the annualised impact on the EPRA Earnings per share is expected in 2024.

BASE YEAR 2018

- ✓ EPRA EPS: 0.86 euros
- ✓ Portfolio: 3.5bn euros
- ✓ DPS: 0.69 euros

WDP HY 2021 RESULTS 5

⁽²⁾ WDP sees support to realise its 2019-23 business plan – for which it is well on schedule – based on the present rhythm of identifying new investments. This rhythm is also necessary in terms of the focus on pre-let projects and following the increased complexity and longer delivery period of some projects.

⁽³⁾ These profit forecasts are based on the current knowledge and situation and barring unforeseen circumstances (such as the further evolution and consequences of the COVID-19 pandemic).



Roll-out scorecard growth plan as of HY 2021

60%

5Y GROWTH PLAN

Towards a 6bn portfolio in 2019-23



⁽¹⁾ The package of 1.2 billion euros in investments (out of the envisaged 2 billion euros) refers to new projects and acquisitions identified within the context of the recently upgraded growth plan 2019-23. These are secured investments which are already reflected in the balance sheet or those in execution.

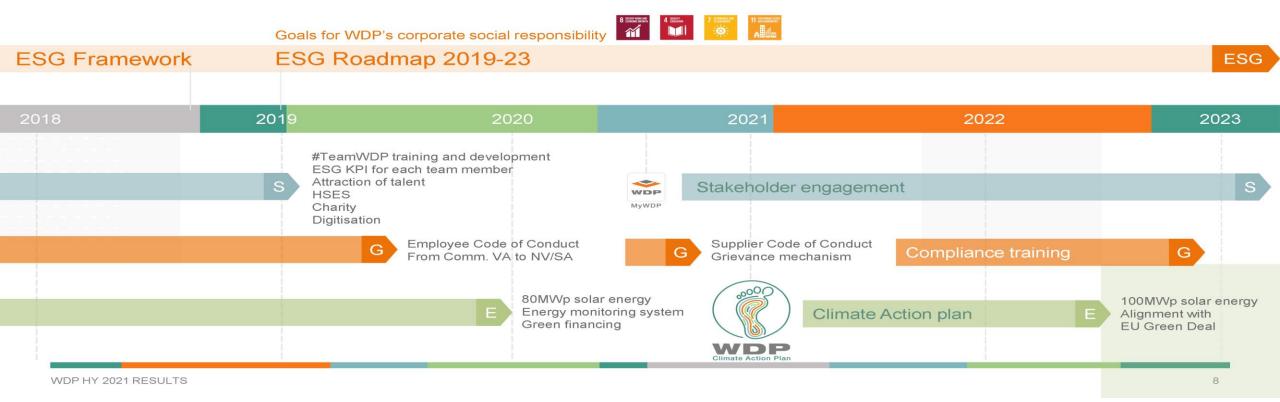
WDP HY 2021 RESULTS 4

⁽²⁾ Net of disposals.



WDP's journey on ESG

ESG



ESG

Ratings and indices

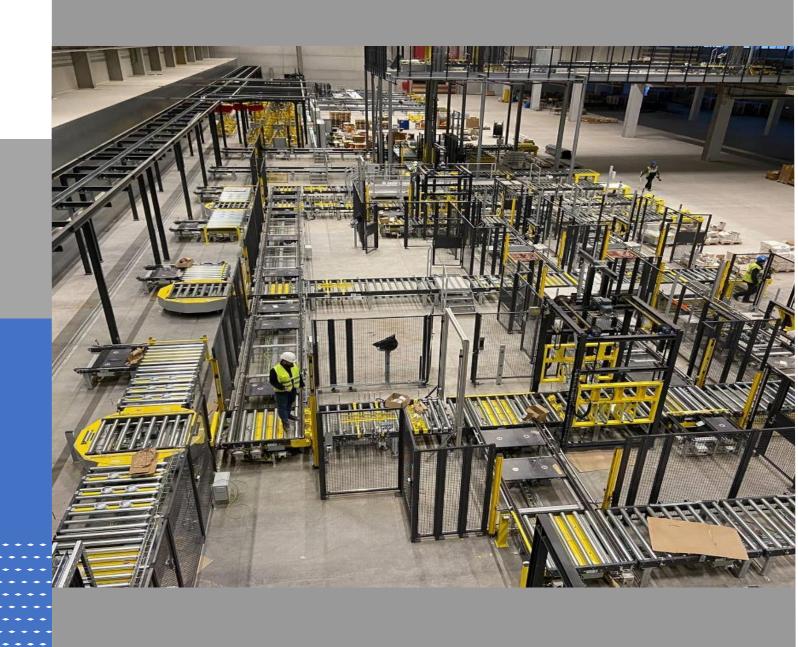
Progress status and future ambition

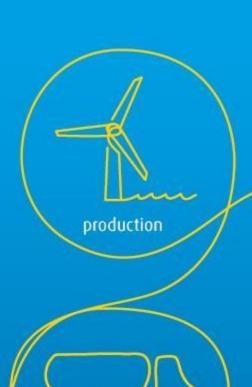


WDP HY 2021 RESULTS



THANK YOU





distribution

This is right now.

















Waterstofnet cluster WIC 8 September, 2021

Pieter den Hooglander – Business Development Manager Green Hydrogen, Onsite and Tonnage T: +31(0) 6 4887 04 22

E: pieter.den.hooglander@linde.com



Introduction to Linde



- The leading industrial gases and
- engineering company Formed in 2018 with the merger of Linde AG and Praxair, Inc-two world-class companies with nearly 140 years of shared history and successful achievements
- Proven critical project execution knowledge in diverse geographies
- Best-in-Class Safety Performance



Uniting with a shared Vision, 2 million+ Linde our Values and Behaviors in everything we do

employees

Achieving our full potential, individually and collectively

6,500+

active patent assets worldwide

Leading with innovative products, solutions and technologies

Establishing a more diverse and balanced portfolio

Linde Gas Benelux is <u>headquartered</u> in Schiedam ~220

emplovees

Production facilities and offices in Ijmuiden, Rotterdam Botlek, Eindhoven, Hedel, Dieren, Grimbergen and Namen

~80,000

RECOGNITION

MEMBER OF Dow Jones Sustainability Indices







countries

100+

Enabling strong, complementary positions in all key geographies and end markets

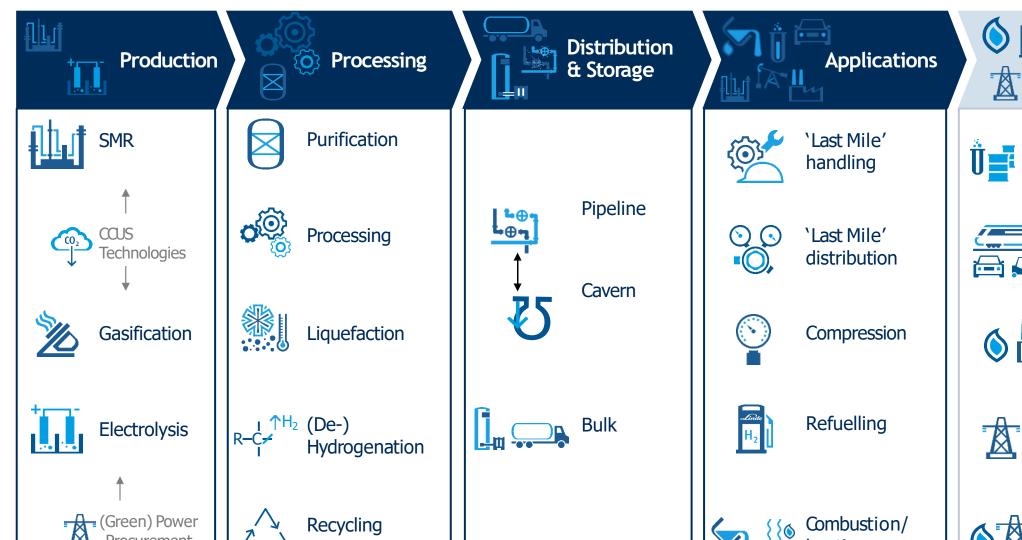
\$27 billion

Reported sales in 2020 With 7% represented by hydrogen

Linde's capabilities today: experts in H₂ production & handling technologies.

Well prepared – missing link closed for green H₂ production.









Industry



Transportation



Industry Heat



Power Generation & Buffering



Heating & Power for Buildings

Infrastructure





Unrivalled H2 network: global reach, strong local presence

From production



Operation of 150+ steam methane reformers and PSAs

80+ electrolyzers installed

Joint Venture with ITM Power providing PEM electrolysis plant solutions

Through processing



Largest H2 liquefaction capacity in the world with 170 tons/day

Vast experience in **H2 compression 40+**installed

To storage and distribution



1600+ Liquid and Gaseous H2 trailers

200+ Liquid and Gaseous H2 refueling stations

1000+ km H2 pipeline

World leader in cryogenics. 20,000+ cryogenic tanks supplied*

Solutions for on-site production

Gearing up for clean hydrogen

How Linde supports customers and industry partners





Hydrogen production with electrolysis

Global green gas solutions at industrial scale using TIM Power's modular PEM electrolysis technology and Linde's world class EPC expertise and technologies.



Renewable energy storage

Experienced partner in the development of energy parks. Operating the first commercial high-purity H2 cavern for over a decade.



Infrastructure

Over 1000 km of H2 pipeline. Decades of experience in operating high-purity, high-pressure H2 pipelines. Largest global hydrogen liquefaction capacity and distribution fleet of liquid and gaseous trailers.



Hydrogen Refueling Stations

Highly efficient and fast fueling concepts for cars, trucks, trains, forklifts and buses. Worldwide leader in installed H2 refueling stations.



Carbon capture, utilization and storage

Linde offers proven CCUS technologies and is part of numerous R&D alliances to leverage government funding.



Industry feedstock

Trusted supplier of heavy industries, such as steel, chemicals and refining, Linde is well equipped to support the transition to a low carbon production.

ITM Power - relationship at a glance

Jointly getting ready for market ramp-up in green H₂







- ITM Power specialise in the manufacture of integrated hydrogen energy systems
- Founded in June 2001
- ~180 FTEs
- Factory for 1,000 MW annual output, with first phase of 300 MW p.a. production started
 2021



Linde's role:

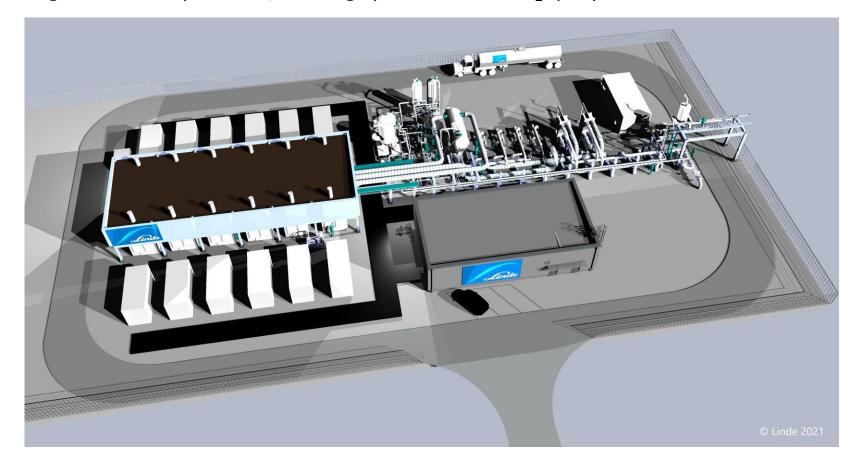
- 20% minority share
- 50/50 JV with ITM Power on market & project development, feasibility studies, proposals & sales, and project mgmt. coordination relating to EPC projects in market segments mobility, refinery, steel, chemistry and other Power-2-X, and preferred supplier for Linde Gas

ITM Power - relationship at a glance

First success story in green H₂ partnership



- Construction of the worlds largest PEM electrolyzer 24mW at Linde's industrial park at Leuna Chemical Complex, Germany
- Operational in 2022
- Supplying green gaseous and liquified H2, avoiding up to 40.000 MT CO₂e per year



Linde Hydrogen Fueltech for hydrogen mobility

Decarbonize transportation.



Linde subsidiary (100%), supplier of hydrogen infrastructure solutions





Compression (ionic compressor)



Pumping (cryo-pump)



Stand-alone dispenser (350/700 bar)



Integrated dispenser (700 bar mobile fueling)



Service/Maintenance (smart operation)

√ >200 fueling stations installed worldwide



Supply for H₂ cars

✓ Supplier of the world's biggest hydrogen bus depot in California



Supply for H₂ busses/trucks

√ >1.5 million fuelings of cars, buses & forklifts



Supply for H₂ forklift trucks

Supplier of the world's first H₂
 station for passenger trains



Supply for H₂ trains

About Linde Hydrogen FuelTech GmbH

Solutions and services to enable H2 mobility projects worldwide

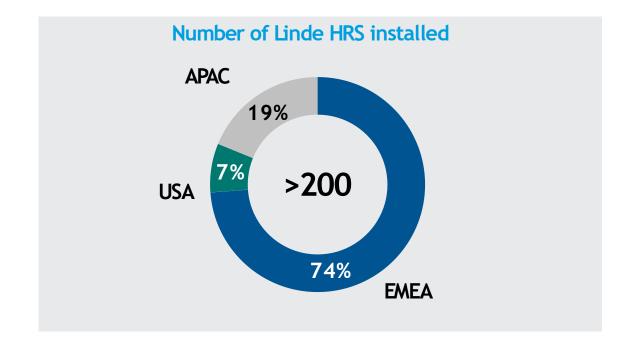


About Linde Hydrogen FuelTech

Experience: +15 years of technology development Products: H₂-refueling systems (HRS) & services

Scope of work: Development of key components, process & system design, manufacturing, installation & commissioning, after sales services

Manufacturing Locations: Germany, Austria and China



Best in class - Out of experience!



- √ Highest efficiency
- √ Highest reliability
- √ Highest safety

~1,3 kWh/kg 1

>97%2

Zero incidents at any HRS in operation

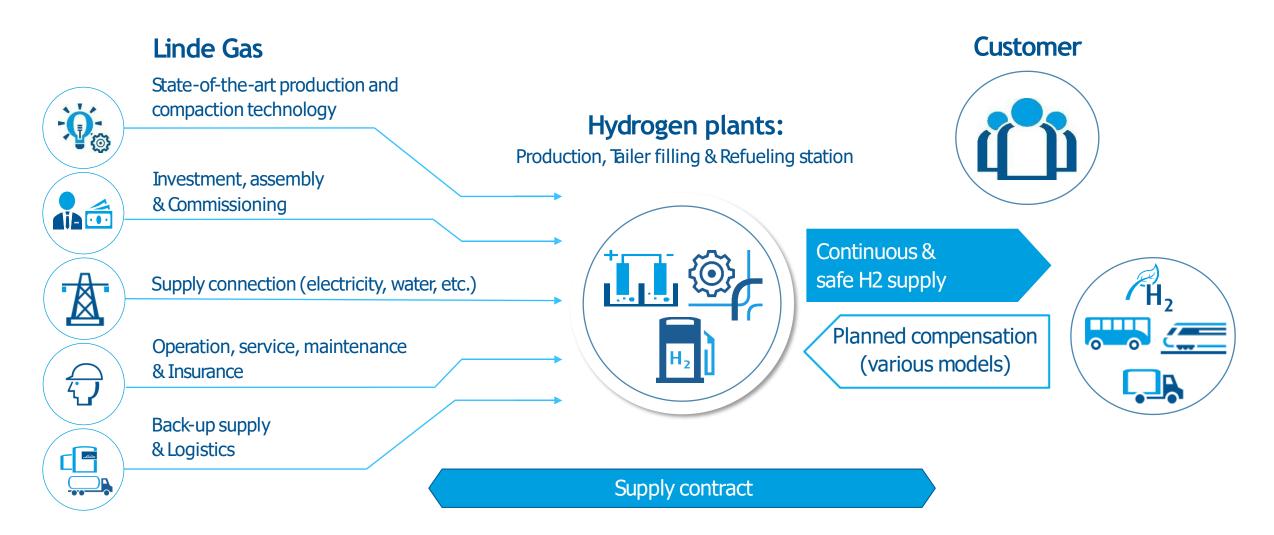
¹ based on Ionic Compressor platform versions

² based on all Ionic Compressor based HRS commissioned in the last 24 months

Innovative business model.

Build-own-operate model for hydrogen production and filling or refueling station.





Linde

Enabling the energy transition



"The Dutch approach towards hydrogen and mobility" Alexia Michel, IenW NL





The Dutch approach towards hydrogen and mobility

Alexia Michel programme manager Sustainable Mobility

8th September 2021



Overview of the actual arena

- > 1. The Dutch context: Climate Agreement and National Hydrogen Vision
- > 2. European Commission framework: Hydrogen Strategy & Fit for 55
- > 3. Dutch overall vision on the transition towards Zero Emission Mobility
- A. Roll out ambitions: Action Programme Hydrogen in Mobility (under construction)
- > 5. Wrap up & questions



1. The Dutch overall policy context

- The Dutch Climate Agreement (2018): setting the scene for 49% reduction of GHG in 2030
 - No reference at all to "hydrogen"
- National Hydrogen Vision (2020): the first comprehensive framework towards an integrated approach on the value chain of "clean hydrogen" (= blue & green)
 - Hydrogen is mentioned as "robust system molecule" in the future energy system
- Note: in 2016 the Dutch Ministry of Infrastructure allready introduced DKTI (innovation stimulation in sustainable mobility, hydrogen included)
 - National public investments on hydrogen: +/- EUR 45 mln in the last 5 years

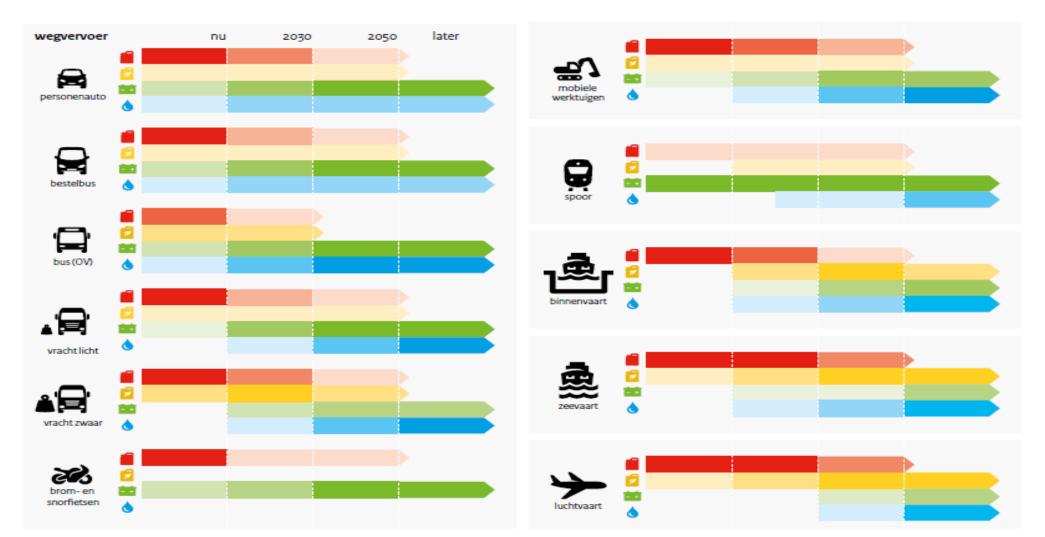


2. European Commission Framework

- Green Deal & Hydrogen Strategy (2020): a steep route towards large production volumes of green hydrogen
 - Ambition: 40 GW electolysis capacity in Europe in 2030 (and another 40GW in neighbouring regions as Northern Africa / Middle East)
- Recent annoucements "Fit for 55": acceleration via a set of regulatory updates
 - Alternative Fuel Infrastructure Regulation (AFIR): Hydrogen is mentioned as "robust system molecule" in the future energy system
 - RED III: feeding green hydrogen into the energy system (for industry and mobility) is mandatory
- ➤ In progress: supporting financial programs (Horizon, CEF, RFF) are updated to fulfill the transition towards a climate neutral energy system



3. Dutch vision on transition towards Zero Emission Mobility (2020)



4. Roll out ambition: Action Programme "Hydrogen in Mobility 2022 – 2025" (under construction)

- Climate Agreement -> Public-private agreement to accellerate hydrogen in mobility
- Main objective: realisation of (at least) 50 HRS-stations in NL in 2025
 - with a clear sight on positive exploitation schemes
- Focus on most promising sectors
 - Taxis, Delivery vans, Light Duty Vehicles (LDV)
 - Heavy Duty Vehicles
 - Public transport (busses)
 - Garbage trucks and other cleaning vehicles
 - Inland shipping
- > Strategy: developing new HRS-locations **including** the first fleets of vehicles
- Combining opportunities
 - introduction of Zero Emission Zones, Dutch agreement on Zero Emission Public Transport etc.



Overview of HRS locations (in operation or shortly to be opened)

Hydrogen Refueling Stations (HRS) in The Netherlands





Demonstration projects are numerous!

- Garbage trucks: REVIVE, H2RenT (Waterstofnet projects)
- Inland shipping: RH2INE
 - Ambition: rolling out hydrogen on the TEN-T Rhine Alpine corrridor
- Major initiatives on Heavy Duty: HyTrucks & H2Accellerate
- > Public Tranport: allready 50 busses on hydrogen (JIVE I & JIVE II)
- ... and 100+ identified other projects/initiatives!



5. Wrap up

- Hydrogen is expected to be a robust element in the climate neutral energy system
 - Scaling up production demands huge investments
- Acceleration of hydrogen in mobility is promissing in heavy duty, inland shipping and aviation
 - Hydrogen in mobility: complementary to BEV
 - With still strategic choices to be made on appearances (gaseous, liquid, LOHC, synfuels)
- Seeking for coherence and synergy: designing an effective "Action Programme Hydrogen in Mobility"
- Inspiration and co-operation: share your best practices!

"Activities & collaboration with WIC" Filip De Weerdt, Flanders Investment & Trade

WaterstofNet Cluster meeting

Filip De Weerdt

Science & Technology Coordinator





Our services



We advise and provide guidance to companies with an investment project in Flanders

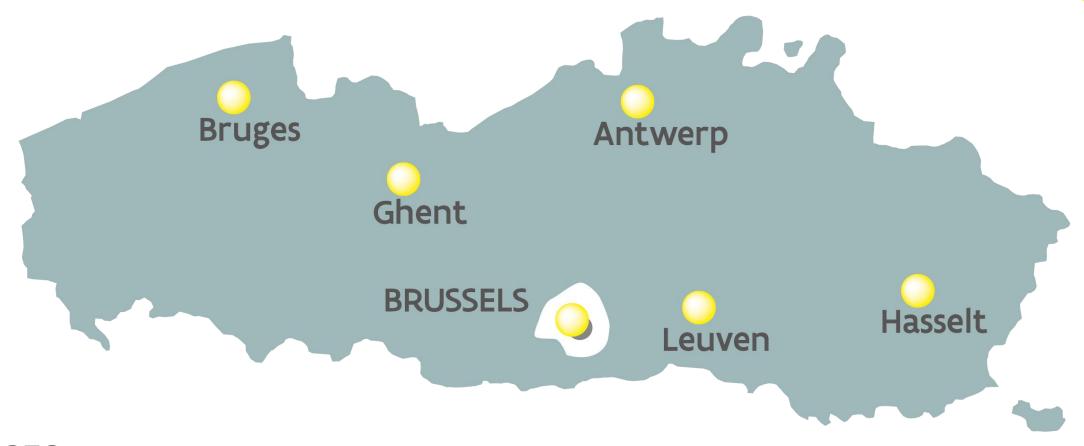


We help companies in Flanders with their export plans



We bring buyers into contact with Flemish producers





OFFICES IN FLANDERS



WORLDWIDE NETWORK



Partnerships for common strategy goals







STRUCTURAL PARTNERS





































SPEARHEAD CLUSTERS









CATALISTI



STRATEGIC RESEARCH CENTERS











Trade



We advise and provide guidance to companies with an investment project in Flanders

We help companies in Flanders with their export plans







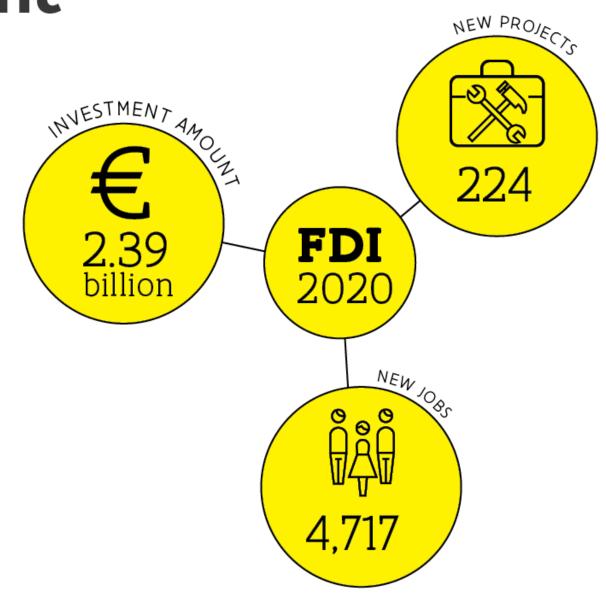
Investment



We advise and provide guidance to companies with an investment project in Flanders



foreign investment in Flanders





Results 2020

€ 2.39 billion

investment amount



€ 5.20 billion in 2019 € 4.24 billion in 2018

224 new projects 13.18% 258 in 2019 234 in 2018

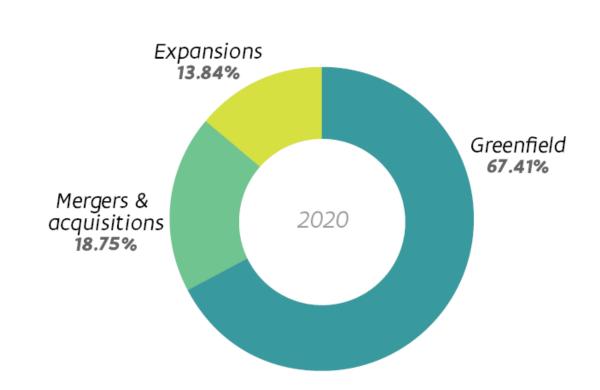
4717 new jobs 5384 in 2019 5339 in 2018

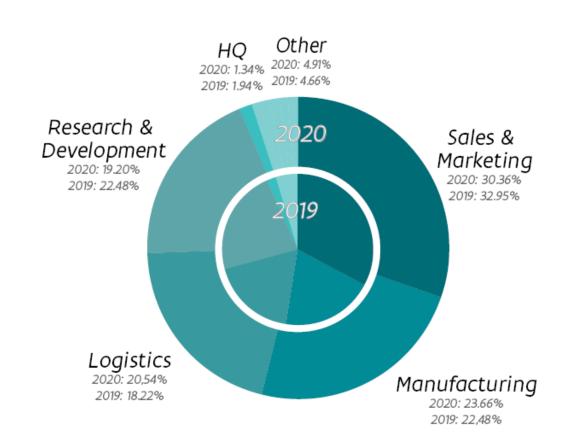
top 10 investors in Flanders



investments according to type & activity









FDI 2019: our position in Europe

Top 10 FDI European destination countries

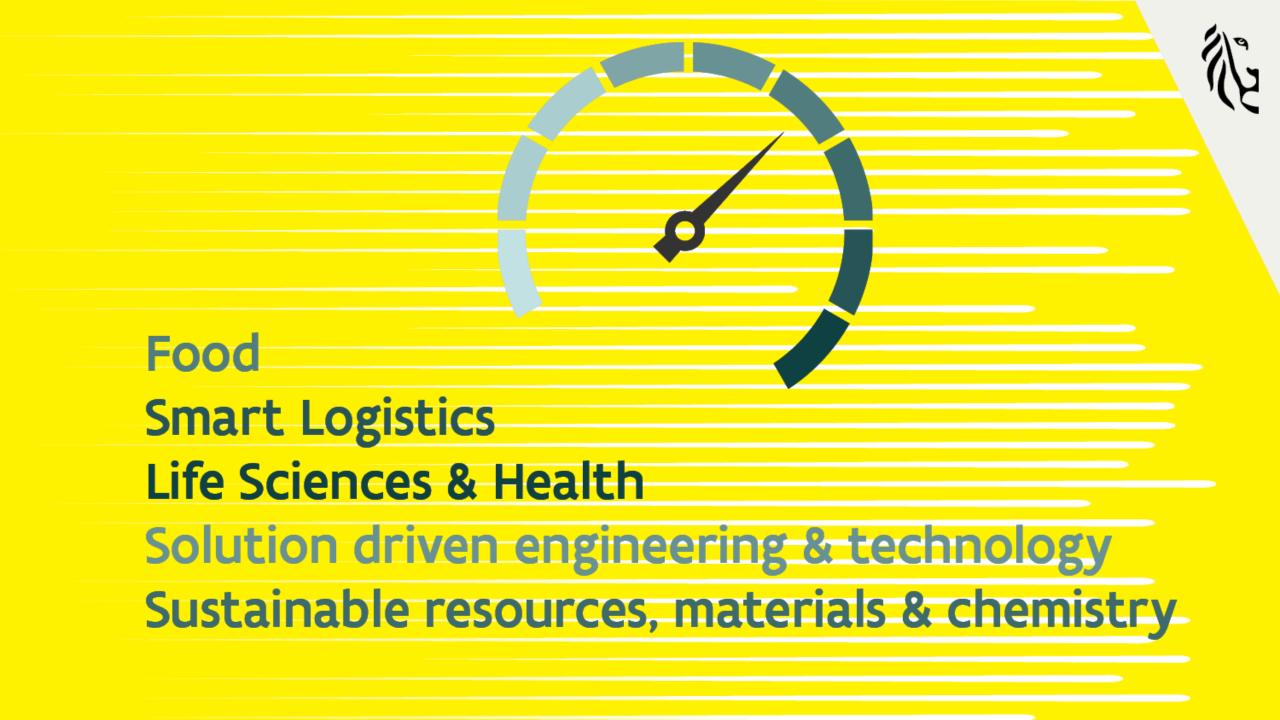
Rank	Country	2018	2019	Change 18/19	Market share 2019
1	France	1.027	1.197	17%	19%
2	United Kingdom	1.054	1.109	5%	17%
3	Germany	973	971	0%	15%
4	Spain	314	486	55%	8%
5	Belgium	278	267	-4%	4%
6	Netherlands	229	255	11%	4%
7	Poland	272	200	-26%	3%
8	Ireland	205	191	-7%	3%
9	Russia	211	191	-9%	3%
10	Turkey	261	176	-33%	3%

Source: EY European Investment Monitor (EIM), 2020.



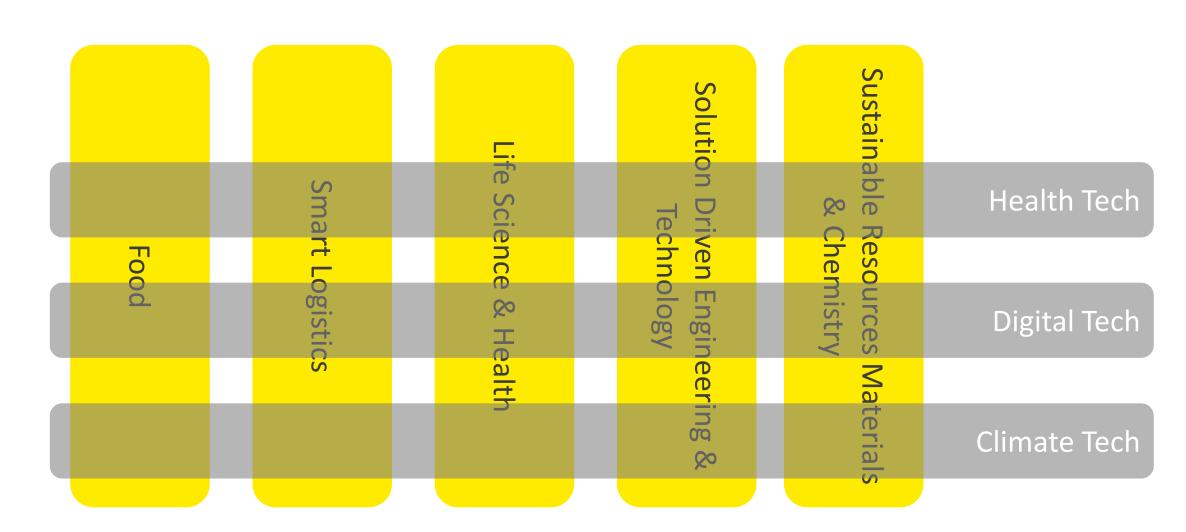
Future

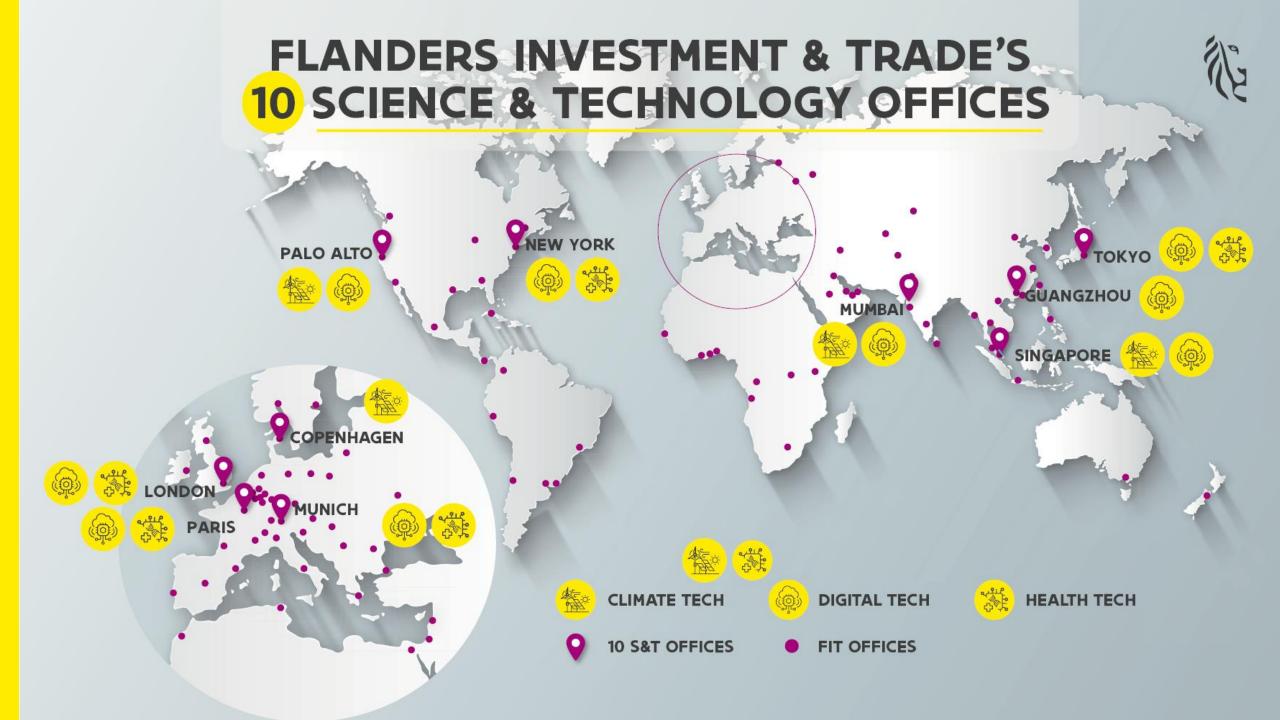






Technology domains are cross cutting in the strategy





S&TO in the world: the team



Pieter De Maeght

TA Munich



John Baekelmans

TA New York



Jan Wauters

TA Paris



Peter Tanghe

TA Guangzhou



Maarten Lambert

TA Copenhagen



Kim Demeyer

TA Singapore



Ralph Moreau



Wim Sohier

TA

Palo Alto



Assistant TA

Alexander Bleyaert



Julia Sprott

Assistant TA



Els Verhulst

TA **Tokyo**

TA

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twitter.com/FlandersTrade twitter.com/InvestFlanders twitter.com/ctillekaerts



"Port of Rotterdam as an EU hydrogen hub" Randolf Weterings, PoR



Randolf Weterings
Port of Rotterdam



Current situation in Rotterdam

Position of Rotterdam in the current energy system (2018 figures)

- 8.800 petajoule (PJ), 13% of the energy consumption of Europa (more than 3x the Dutch energy consumption).
- For the production of steam, heat and electricity in the Port of Rotterdam, 430PJ of energy was used (29 Mton CO2 emissions / 20% of the total Dutch emissions).

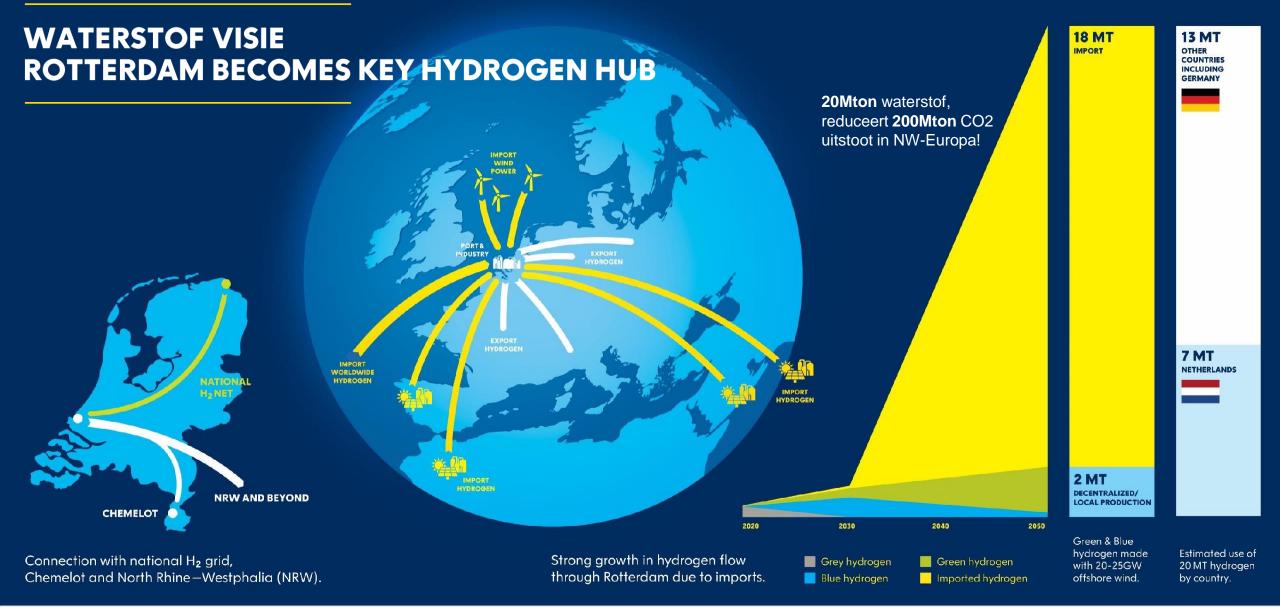
Current hydrogen market in Rotterdam

- Current hydrogen demand per year in Rotterdam is 450 kt, mainly used for oil refinery
- In the Port of Rotterdam 2 hydrogen grids exist from Air Products (local network) and Air Liquide (international network)



Pipeline network of Air Liquide, hydrogen in RED

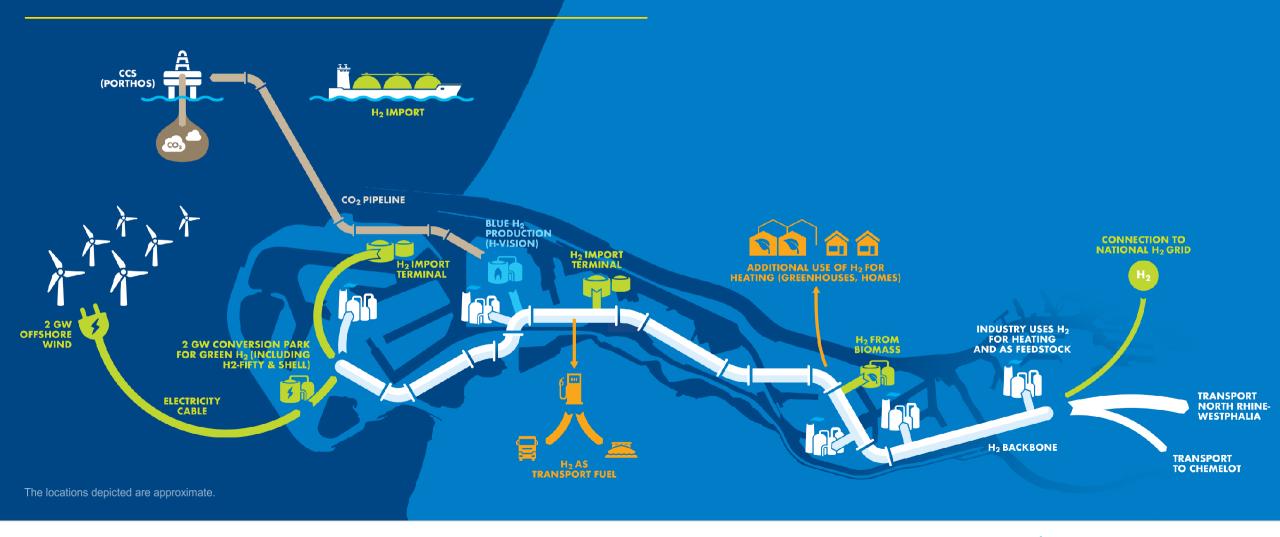




Hydrogen vision: https://bit.ly/32M6Wrl



HYDROGEN ECONOMY IN ROTTERDAM STARTS WITH OPEN ACCESS BACKBONE









FIRST PROJECTS OPERATIONAL IN 2023

2023

Shell 150-250 MW electrolyser operational on conversion park Hydrogen backbone operational

2024

LOHC import at industry scale

Green ammonia import terminal operational

H₂-Fifty 250 MW electrolyser operational (BP, Nouryon)

Uniper first 100 MW operational (towards 500 MW in 2030)

2025

Road transport: 1000 hydrogen powered trucks of which 500 in Rotterdam

RH₂INE 12 inland barges operational H-vision operational (blue hydrogen)

2026

LH₂ terminal operational

Pipelines to Chemelot and North Rhine — Westphalia operational

2026

2030

2 – 2,5 GW electrolyzers operationeel



POWER UP YOUR IDEAS MAKE ITHAPPEN

Randolf Weterings

LET'S CONNECT





Developments in the WIC

TOPICS



- > (New) member info
- Status working groups
- News from the governements FL-B-NL
- Overview FL/BE/EU funding
- Networking & meetings

NEW MEMBERS SINCE PREVIOUS MEETING JUNE





















> 100

MEMBERS!





















H2 TECHNOLOGY







Capgemini engineering

VERWATER

DEME

Port of Antwerp



BESIX

SGS



























luminus

Polders Investeringsfonds nv

Sues

ĕEneco

storm





NIPPON GASES

FA-Tank Terminal

PRODUCTS 1



















































































STATUS WORKING GROUPS







Monitoring and facilitating H2 refuelling stations in Benelux. Increase utilisation.

Shipping



Development of H₂ pilots & infrastructure (coll. With De Blauwe Cluster)

Policy



Evaluation & statements
Related to EU or national legislation

H₂ for all



Disclosing the world of H₂ to the broader public

WORKING GROUP MOBILITY





Monitoring and facilitating H2 refuelling stations in Benelux. Increase utilisation.

- Group of 23 companies
- Meetings on 26/05 and 7/09
- Five goals/objectives:
 - H2 Roadmaps for Belgium and the Netherlands → first proposal
 - Monitoring, exchanging "data and experiences" of HRS and FCEV

 quarterly updates
 - Short, uniform and transparent approach of opening an HRS

 first proposal
 - Increase utilisation HRS → involvement WIC
 - Communication and lobby

WORKING GROUP POLICY





Evaluation & statements
Related to EU or national legislation

- Recent activities:
 - Policy recommendations on REDII / additionality
 - Analysis of CCfD-type of support mechanisms
 => Available on WIC portal
 - Sent to FL & Belgian representatives
- To do coming period:
 - Discuss WIC reaction on Public Consultation round 'Fit for 55' (before Nov 1)



Turnhout, 13 juli 2021

Betreft: De implementatie van de Renewable Energy Directive en het additionaliteitsprincipe voor de productie van hernieuwbare brandstoffen



Exploitatiesteun en (Carbon) Contracts for Difference (CCfD)

Inhoud Aanleiding	. 2
Inleiding	. 2
Exploitatiesteun voor hernieuwbare elektriciteit	. 2
Carbon Contracts for Difference	. 3
Achtergrond: Het Europees Emissiehandel Systeem en CO ₂ prijzen	. 3
Carbon Contracts for Difference: concept & werking	. 4
Voordelen	. 4
Uitdagingen	. 7

WORKING GROUP SHIPPING





Development of H₂ pilots & infrastructure for shipping; in collaboration with



- Recent activities:
 - Knowledge sharing
 - Info updates on shipping initiatives in the region
 - Info on regulatory framework
 - Proposal on collective demonstration project => call for ideas & participants
- To do coming period:
 - Regular info updates
 - Search for projects
- Next meeting to be planned end of September

WORKING GROUP H2 FOR ALL





Disclosing the world of H₂ to the broader public

- Recent activities:
 - Kick-off meeting with small group: defining the objectives
 - Second meeting with small group: choosing the means
 - Updated and more visually attractive information on the website
 - A podcast
- To do coming period:
 - ⇒ Review existing information on website and elaborate
 - ⇒ Record first podcast episode
 - ⇒ Third meeting: feedback on the progress

EU "DICTIONARY"





Helping our WIC members to stay on top of the game

- Medium-short "explainer" articles on Brussels' hot topics/concepts, such as:
 - Carbon Contracts for Difference
 - The different associations (the European Clean Hydrogen Alliance, Hydrogen Europe, Clean Hydrogen for Europe, etc.)
 - Additionality
 - Etc.
- Aimed at giving a thorough yet concise explanation of the concept and its context in accesible language
- The documents will be made available on the members' portal and will be updated regularly

H2 NEWS FROM OUR GOVERNMENTS (FL/BE)



- "Flemish Taskforce Hydrogen"
 - First meeting July 5
 - Stakeholders: universities, Energyville, Flemish spearhead clusters, SERV, Vario, Bond Beter Leefmilieu, VOKA, Essencia, Febeg, Agoria, Arcelor Mittal, Fluxys, the Flemish ports and

WaterstofNet

- Further development of Flemish hydrogen strategy
- Federal hydrogen strategy
 - Focus on federal competences: infrastructure, import/export, "H2Hub", production targets
 - WaterstofNet stakeholder
 - Expected in October

H2 NEWS FROM OUR GOVERNMENTS (NL)



- National Hydrogen Program (Nationale Waterstofprogramma) is published on 7 July 2021 (<u>Cross-sectorale werkgroep waterstof · Nationaal Waterstof Programma</u>)
 - > The working group advises to concentrate the implementation of the work plan on three tracks
 - Development on a large scale for industry
 - 2. Decentralized for the region
 - 3. Organizing the preconditions for tracking and organizing the activities
- EUR 338 million foreseen for green hydrogen & green chemistry ("Groenfonds") (April 2021)
 - > 73 million already approved for 2022-2023
- Uncertainties for budget allocations due to the absence of government

IPCEI



- > 400 project proposals in EU
 - ➤ Netherlands 24 projects
 - Belgium 15 projects
- Germany coordinates the submission (chapeau document,...)
- Submission in different waves:
 - ➤ Wave 1 & Wave 2 submitted on August 31 NL: 13 projects & BE: 10 projects
 - ➤ Wave 3 in preparation; timing Q3-Q4, 2021
- Next step:
 - > Proposals are evaluated by DG Comp; result expected before the end of '21

OVERVIEW EU/NL/B/FL FUNDING



Upcoming Calls

- Energietransitiefonds Belgie (Energietransitiefonds | Agentschap Innoveren en Ondernemen (vlaio.be)
 - Thema: renewable energy in the Belgian exclusive economic zone in the North Sea, biofuels, nuclear energy, security of supply and grid balance
 - ➤ Deadline: expected to be open between 15 November 2021 and 31 January 2022
- EUREKA (Eureka | greenhydrogen-2021 (eurekanetwork.org))
 - > Thema: transporting infrastructure for Hydrogen
 - > Deadline: the call is open now till 5 September
- Interreg (<u>Calls for Projects Archive Interreg.eu</u>)
 - Check the website for the upcoming calls
- LIFE (https://cinea.ec.europa.eu/life en)
 - > Thema: Financing climate, nature, and environmental projects. The subprogram "Clean energy transition" is relevant for WIC.
 - ➤ Deadline: July 2021 till 22 September 2021 13 April 2022 depending on the call
- Horizon EU Climate, Energy & Mobility Cluster 5 (<u>Search Funding & Tenders (europa.eu</u>))
 - Thema: climate science and solutions; energy supply; energy systems and grids; buildings and industrial facilities in energy transition; communities and cities; industrial competitiveness in transport; clean, safe and accessible transport and mobility; smart mobility; energy storage
 - Deadline: June 2021 till 12 Septemebr 5 January 2022 depending on the call topic

MATCHMAKING WITH (FL) KNOWLEDGE INSTITUTES

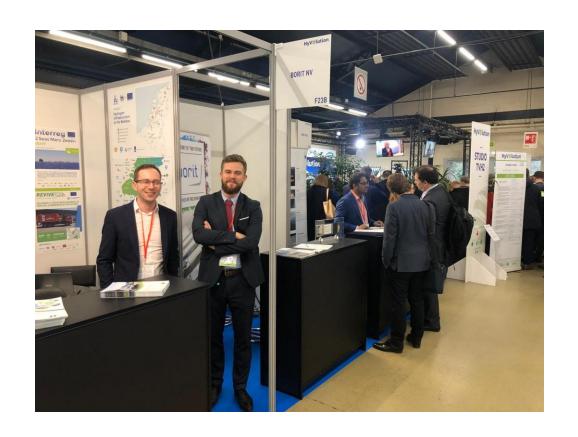


- WaterstofNet: assignment of Flemish government to support roll out H2 strategy
- "Research agenda":
 - Inventory of relevant research
 - Matchmaking with industry
 - Identify opportunities & focus points for R&D in Flanders
- Matchmaking activities 2021 (invitations this week)
 - Kick-off (online) on October 14 (13.30-15.00)
 - Matchmaking sessions in Brussels, November 9, afternoon
 - Spearhead clusters will be included

HYVOLUTION 2021



- HyVolution 2021 @ Paris October 27 and28
- Large scale hydrogen event for energy,
 industry and mobility with 120 exhibitors
 & brands and over 2000 visitors
- Participation with WaterstofNet/WIC still possible via a shared booth (4 sqm for 1.500€)
- Interested? Contact Yannick



WORKING VISIT GRONINGEN 2021



- October 6 7 8
- Visit HyStock, HRS Pesse and Wind meetsGas conference
- Free of charge
- Group limit = 25
- Still spots available! Interested? Contact Yannick

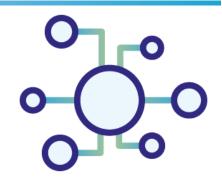




AGENDA MEMBER INFO & NETWORKING



- WIC Webinar, next edition on September 30
- ➤ Working visit Groningen October 6 7 8
- Kick-off matchmaking process industry-academia FL: October 14
- Meet & Greet (online): October 21
- Matchmaking industry-academia FL: November 9
- Conference on November 22, Brussels (free for WIC members, subscription from mid Sept.)
- Hydrogen Academy: starts October 11, 6 Mo-evenings, Agfa Mortsel
- Cluster meetings, next on December 8





News from Cluster Members









Questions & Comments?