



WE LET HYDROGEN FLOW

HYSTREAM

Identify

Develop

Deliver

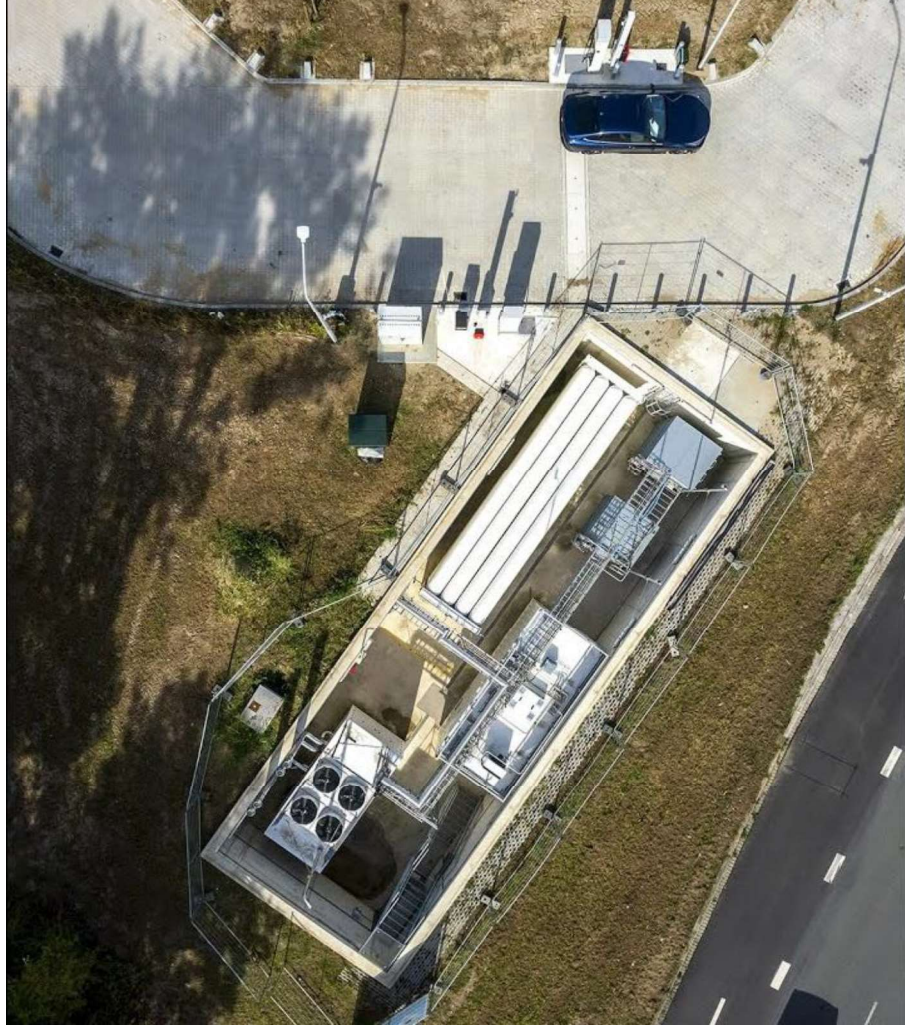
Hystream: smart localized green hydrogen hubs



Hystream implements scalable and cost-effective end-to-end **green** hydrogen solutions for B2B customers in the **Mobility, Industry, Construction** sector

We focus on hard to abate sectors worldwide with smart localized solutions:

- ✓ **Mobility, Trucking**
- ✓ **Shipping**
- ✓ **Industrial use**
- ✓ **Construction (power)**

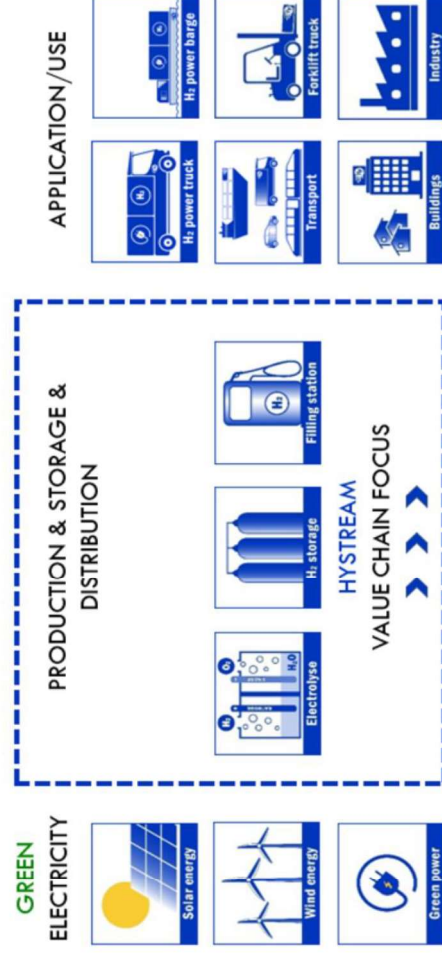


Independent Hydrogen System Developer & Integrator



Specialized in localized hydrogen projects up to 20 MWe:

- Diversity of use cases across multiple sectors, enhanced market potential
- Scalability in combination with a lower risk profile, faster deployments
- Easier to contract hydrogen offtake agreements & PPA with local industries
- Re-using waste heat from H2 production supporting selected use cases

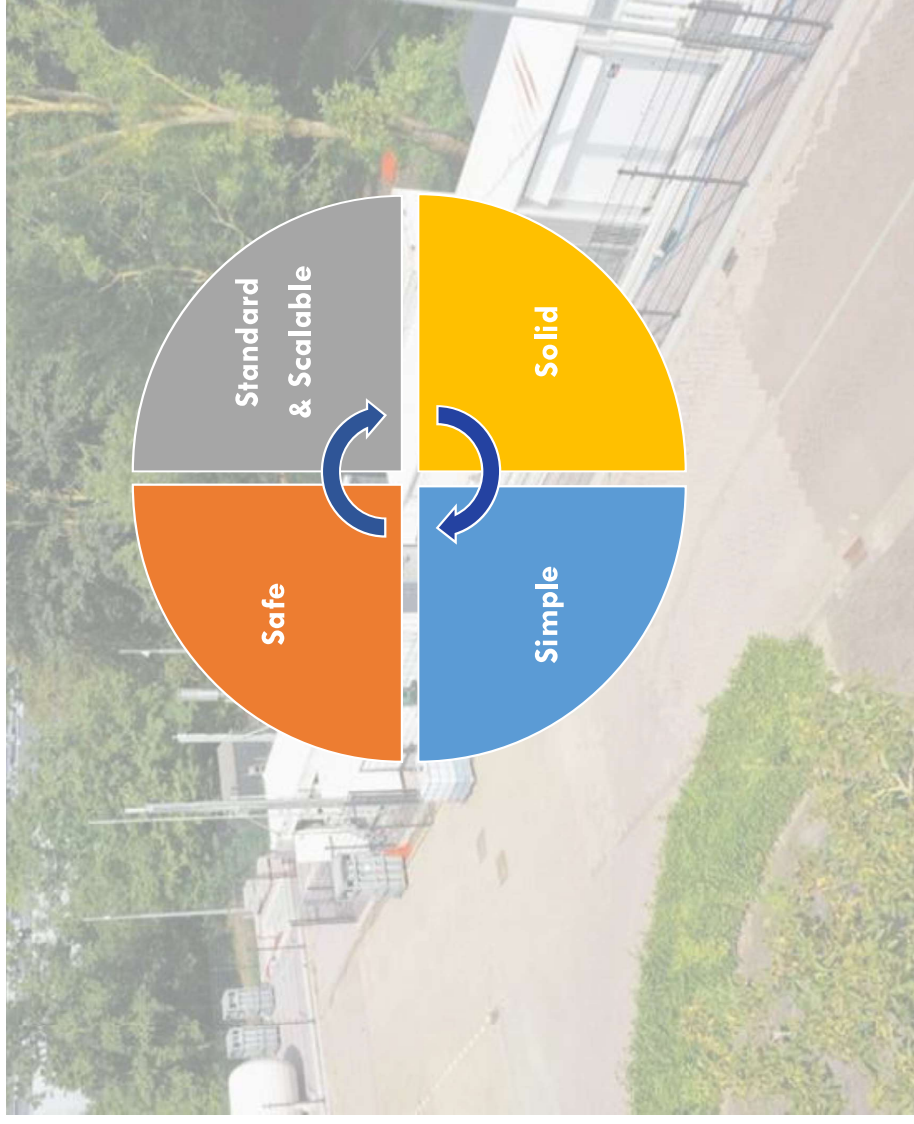


Driving the energy transition at a local / regional community level

Full-service model for fast, controlled delivery

Full-service model on EPCM projects

- From permit applications to training and maintenance
- Unique inhouse engineering expertise and proven track record
- Using proven industry standard technologies
- Modular Expandable Methods & Designs
- Inhouse expertise on subsidy schemes

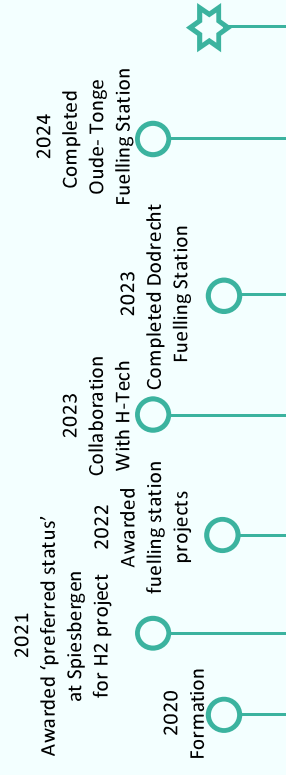


Proven track record



PROJECT			ROLES HYSTREAM									
Type	Size	Location	Status	Design	Business Case	Permit	Fin. / Subsidy	Procurement	Construction	Commission	Operate	Maintain
HRS	> 1000 kg/day	Dordrecht	Operational	✓	✓	✓	✓	✓	✓	✓	✓	
HRS	> 1000 kg/day	Oude Tonge	Operational	✓	✓	✓	✓	✓	✓	✓		
Production	2.0 MWe	Oude Tonge	Construction	✓	✓	✓		✓				
Production	2.5 MWe	Nieuwegein	Operational	✓					✓	✓		
Production	5 MWe	Netterden	Permit	✓	✓	✓						
Production	10 MWe	Spiesbergen	Permit	✓	✓	✓						

- Successful delivery of Hydrogen production & storage solutions
- Proven expertise and track record in full service delivery
- Strong position and reputation as localized H2 solution provider
- Rapidly growing project pipeline



Hydrogen Market

Multiple factors driving demand for efficient localized Hydrogen infrastructures:

- Continuous developments in electrolyser technology and modular solutions
- Greenification of heavy transport and machinery (trucks, construction, shipping), regulatory drivers
- Demand for reduced dependency on centralized power network (growing grid congestion)
- Demand for localized supply of green transport fuels
- Localised H₂ production as feedstock for E-fuels (methanol, LOHC, ammonia, etc.) and chemical products



Business Model Green Hydrogen Production

Competitive business models for multiple use cases (indicative per Mwe)

Mobility
Trucking, Shipping, Machines

- Size
 - 720 kWh battery
 - 1 MWe electrolyser 30 bar
 - Compression to 500 bar
 - Storage 140 kg
 - Dispenser
- CAPEX: € 3.0 M
- LCOH: € 10.2/kg H2 (unsubsidized)
- LCOH: € 5.2/kg H2 (subsidized)
- Diesel: € 6.8 – 8.6 (comparative price)

Export

- Size
 - 720 kWh battery
 - 1 MWe electrolyser 30 bar
 - Compression to 500 bar
 - Storage 140 kg
- CAPEX: € 2.7 M
- LCOH: € 9.9/kg H2 (unsubsidized)
- LCOH: € 4.9/kg H2 (subsidized)
- Hydrogen: € 9-10 (comparative price)

Local Industry
Direct H2 line

- Size
 - 720 kWh battery
 - 1 MWe electrolyser 30 bar
- CAPEX: € 2.1 M
- LCOH: € 9.3/kg H2 (unsubsidized)
- LCOH: € 4.3 kg H2 (subsidized)
- Natural gas: € 6.3 (comparative price)

Project Finance Framework – typical project returns

Competitive business models for multiple use cases (indicative per MWe)

Mobility Trucking, Shipping, Machines

- CAPEX € 3.0 M
- Cash flow € 360 k/annum
- Equity portion 50%
- Debt portion 50%
- IRR 8.4%

Export

- CAPEX € 2.7 M
- Cash flow € 345 k/annum
- Equity portion 50%
- Debt portion 50%
- IRR 8.8%

Local Industry Direct H2 line

- CAPEX € 2.1 M
- Cash flow € 277 k/annum
- Equity portion 30%
- Debt portion 70%
- IRR 8.7%

PROJECT				FINANCIAL	
Type	Size	Location	Status	DEVEX	CAPEX
				€ 1.200.000	€ 32.000.000
Production	2.75 MWe	Oude Tonge	Construction	€ 50.000	€ 6.000.000
Production	2 MWe	Woerden	Business Case	€ 250.000	€ 5.000.000
Production/HRS	2 MWe	Velzen	Business Case	€ 250.000	€ 5.000.000
Production	2 MWe	HI-Ambacht	Business Case	€ 250.000	€ 5.000.000
Production	3 MWe	Luxembourg	Fin./Subsidy	€ 150.000	€ 7.500.000
Production	1 MWe	Croatia	Design	€ 250.000	€ 3.500.000

Hystream Battery™: modular H2 production & storage



 Technology Independent

 Up to 1 MWe electrolyser



 Standard & Scalable

 High-Capacity Storage



 Compression to 500 bar

 Dispenser & Heat Exch. Option

Hystream Battery™: easy to deploy, low risk solution



Addressing a growing market for smaller and faster to deploy H2 solutions

- Proven & latest tech, leveraging Hystream's unique engineering and system integration capabilities.
- Indicative CAPEX € 1.1 M – 2.1 M per installation (0.5 – 1 MWe)
- Applications & Marketsize estimates (only NL):

• Inland Marine Vessels	Annual consumption of 245 – 350 million kg H2 equivalent (NL)
• Grid congested industrial estates	3000 industrial estates (NL)
• Large agricultural farms	50.000 farms (NL)
- **Marketshare objective: 5% (only NL)**

• Inland Marine Vessels	Annual consumption matching 160 MWe capacity (NL)
• Grid congested industrial estates	150 MWe (NL)
• Large agricultural farms	2.500 farms (NL)

Hystream growth strategy



Convert growing project pipeline and launch Hystream Battery™

- **Accelerate growth of pipeline** of viable project opportunities on European scale to identify 20 new projects per year & deliver 10 projects per year
- **Enhance capability to convert** project pipeline into project execution
 - Closing HPA's & PPA's
 - Secure land
 - Obtain Permits
 - Deliver Fit-for-purpose Designs
- **Productionization:** launch Hystream Battery™ , shorten lead times and develop the market for small scale, modular and standardized white label solutions.

Required

Project Finance
Framework

Equity investment
opportunity

Funding requirements

Project Finance Framework facility

- Facility to cover future projects subject to pre-defined conditions
- Objective to grow to 20 projects per annum
- Average size per projects €4M (CAPEX)
- Mix of larger custom projects and fast to deploy Hystream Battery™ projects

Equity investment: € 1M

- Product Development (Hystream Battery™) € 500K
 - Engineering € 300K
 - Prototype € 200K
- Business Development: € 500K
 - Growth design & engineering team
 - Marketing & sales
 - Working capital

Team



Joep Coenen
Managing Director

Joep Coenen brings 25 years of expertise in process installations, safety systems, and sustainable energy. He has worked for Shell, Solvay, TATA Steel, SouthStream focusing on biogas projects, HSE, safety and operations compliance.



Niek Oldeman
Project Engineer

Niek has a passion for sustainable technology. He provides versatile support to Hystream, notably in the field of energy data analysis.



Astrid IJssennagger
Project Management & Finance Assistant

Astrid has been a vital part of Hystream since its inception, serving as the Office Manager and Management Assistant. Additionally, she also took on the roles of Project Management Assistant and Finance Assistant in 2022.



Niels van Staaveren
Project Engineer

Niels supports all aspects of Hystream's operations, from design and product development to construction assistance, regulatory compliance, and permit oversight. He has played a key role in establishing fueling and electrolyser facilities in Dordrecht and Oude Tonge.



Saartje Feith
Project Engineer

Saartje is a MSc student Sustainable Energy Technology at TU Delft and offers multifaceted assistance to Hystream.



Werner Kastelein
Project Engineer

Werner works on several Hystream projects among which several hydrogen mobility events.



Mick Dam
Project Engineer

Mick is an MSc student in Sustainable Energy Technology at TU Delft with a BSc in Applied Earth Sciences. He started his thesis project at Hystream. Mick will conduct a techno-economic evaluation on the latest Hystream Product: the Hystream Battery™.



Frank van der Meer
Business Developer

Frank brings over 25 years of global experience in offshore and onshore construction, covering project phases from FEED to Operations & Maintenance. Specializing in organizational processes and QHSE management, he has represented diverse sectors including oil & gas, investments, and small project organizations.

Partners



We have formed **non-exclusive** partnerships with the following organisations to accelerate the pace of building the hydrogen economy

CMB
.TECH

Transport
Technology
Development



H2 Logistics

QUEST
ONE

H2 Production

noordtec

Driven by Future

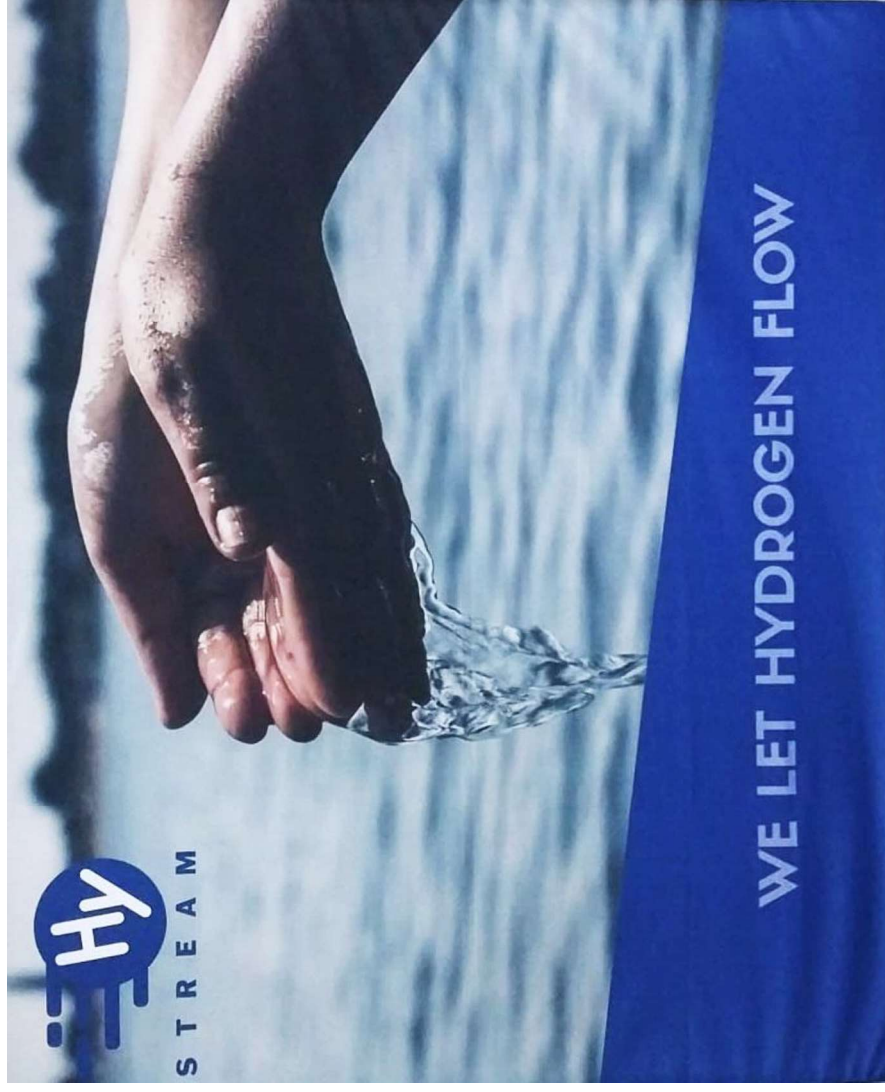
H2 Maintenance

Contact Details

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Project Pipeline – Oude Tonge (NL)



Oude Tonge: 2.75 MW Electrolyser

Hystream BV was the EPCm for the hydrogen fuelling station at Oude Tonge. The owner Greenpoint has made a strategic decision not to construct, generate or supply the green hydrogen and is open to the sale of the project to a viable third party. Hystream is in the process of gaining an exclusive position.

Key Highlights:

- Permit in place for 2.75 MWe electrolyser
- Hydrogen filling station (Greenpoint) as off taker
- Close to Stad aan 't Haringvliet – opportunity for large scale offtake
- Centrally located between harbors of Rotterdam and Antwerp
- With Hystream as developer exact in-house knowledge on all project aspects
- Future McDonalds on premise for heat off taker



Project Pipeline – Woerden (NL)



2 MW Electrolyser

Key Highlights:

- BP D!vers Hydrogen filling station as off-taker
- ERU Kaas as off-taker for both hydrogen and heat – 80% production coverage
- Solar power supply by Sunvest directly south of A12
- Municipality in favour of hydrogen
- Option to import and export hydrogen
- Direct connection to major TenT highway (A12)



Project Pipeline – Velzen (NL)



2x1 MW Electrolyser

Key Highlights:

- CMB.Tech daughter Windcat committed H2 off-taker with converted and ready-to-consume workboats – 80% production coverage
- Filling station (hired by Shell and owned by Hammerstein) as second off-taker
- Active support from Port Authority for further maritime expansion



Project Pipeline – Bolidt (NL)



2x1 MW Electrolyser

Key Highlights:

- International company Bolidt committed H2 off-taker – 80% production coverage
- Potential heat and other H2 offtakers in nearby area
- Maritime filling option at 100 meter distance along busiest waterway of NL



Project Pipeline – Ceratizit (Luxembourg)



3x1 MW Electrolyser

Key Highlights:

- 24/7 hydrogen off-taker (Ceratizit) for production of Tungsten from Tungsten oxide
- Security of long term hydrogen supply
- Attractive H2 selling prices



Project Pipeline – Split (Croatia)



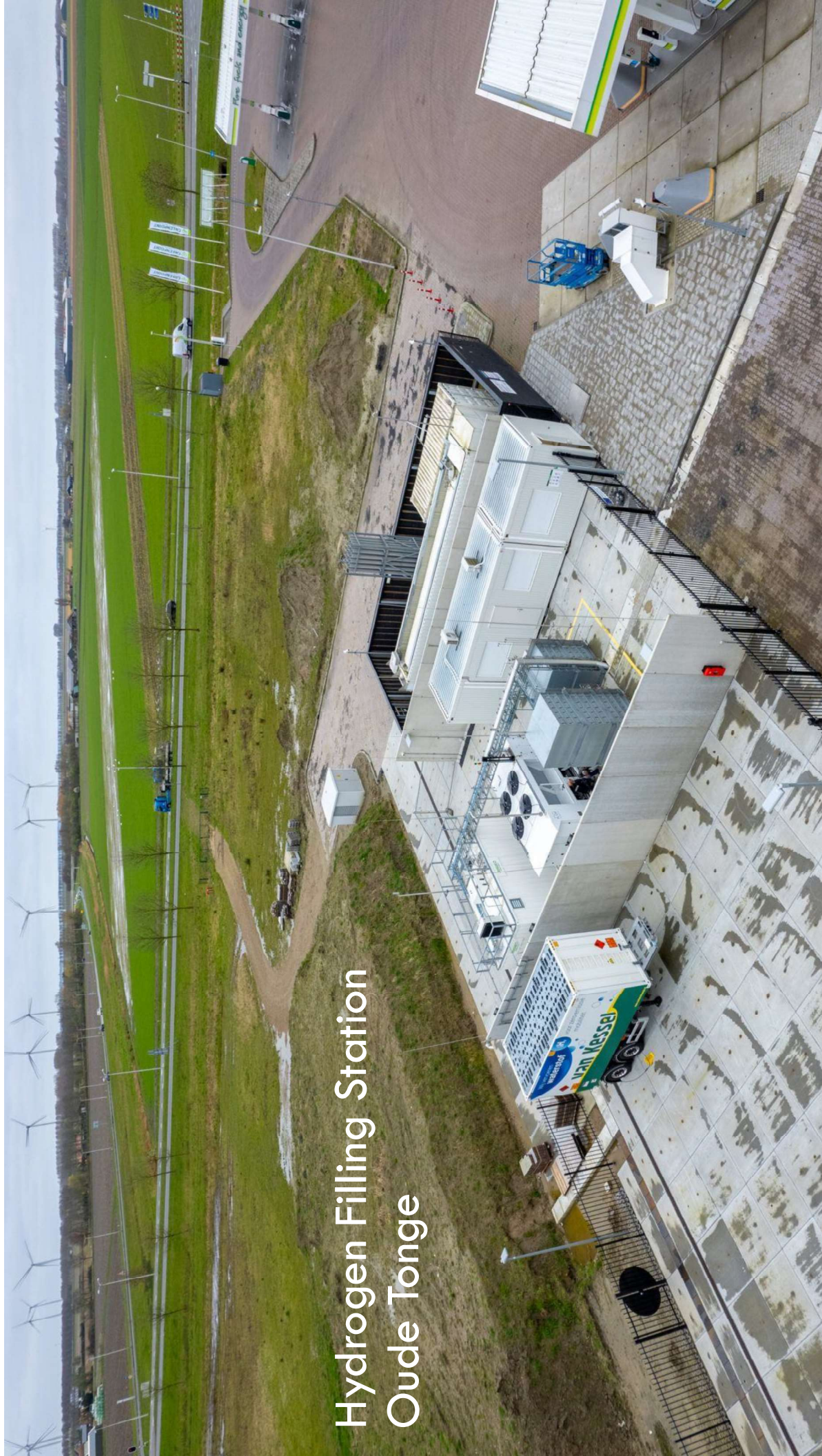
1 MW Electrolyser

Key Highlights:

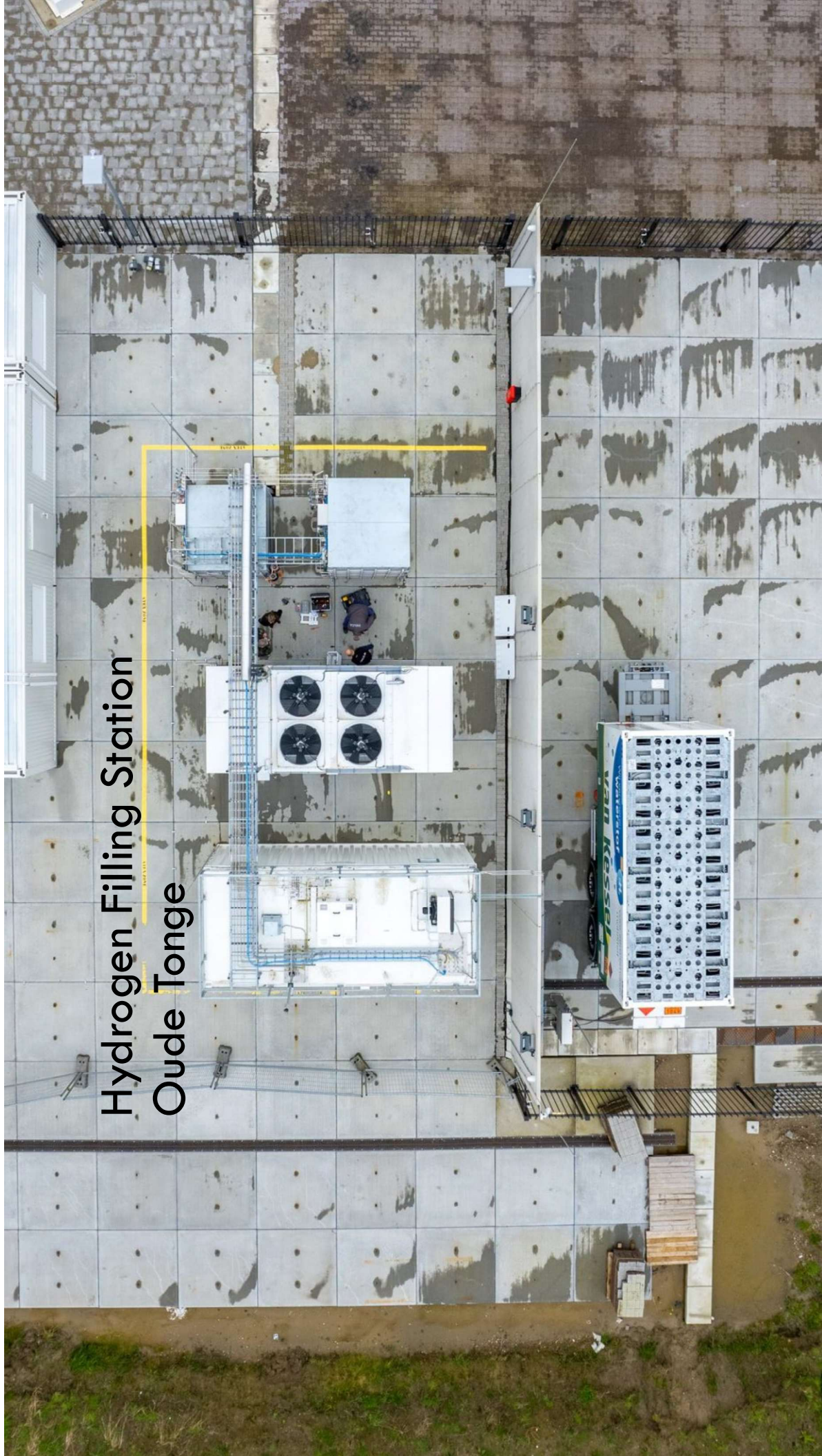
- Maritime offtaker H2 Propulsion (watertaxi's in Split Bay Area) – 80% production coverage
- RP Global providing wind energy
- Potential H2 offtake to Split Airport and other users
- Potential to enlarge to 10 MW production
- Consortium of RP Global, H2 Propulsion and Hystream



Hydrogen Filling Station Oude Tonge



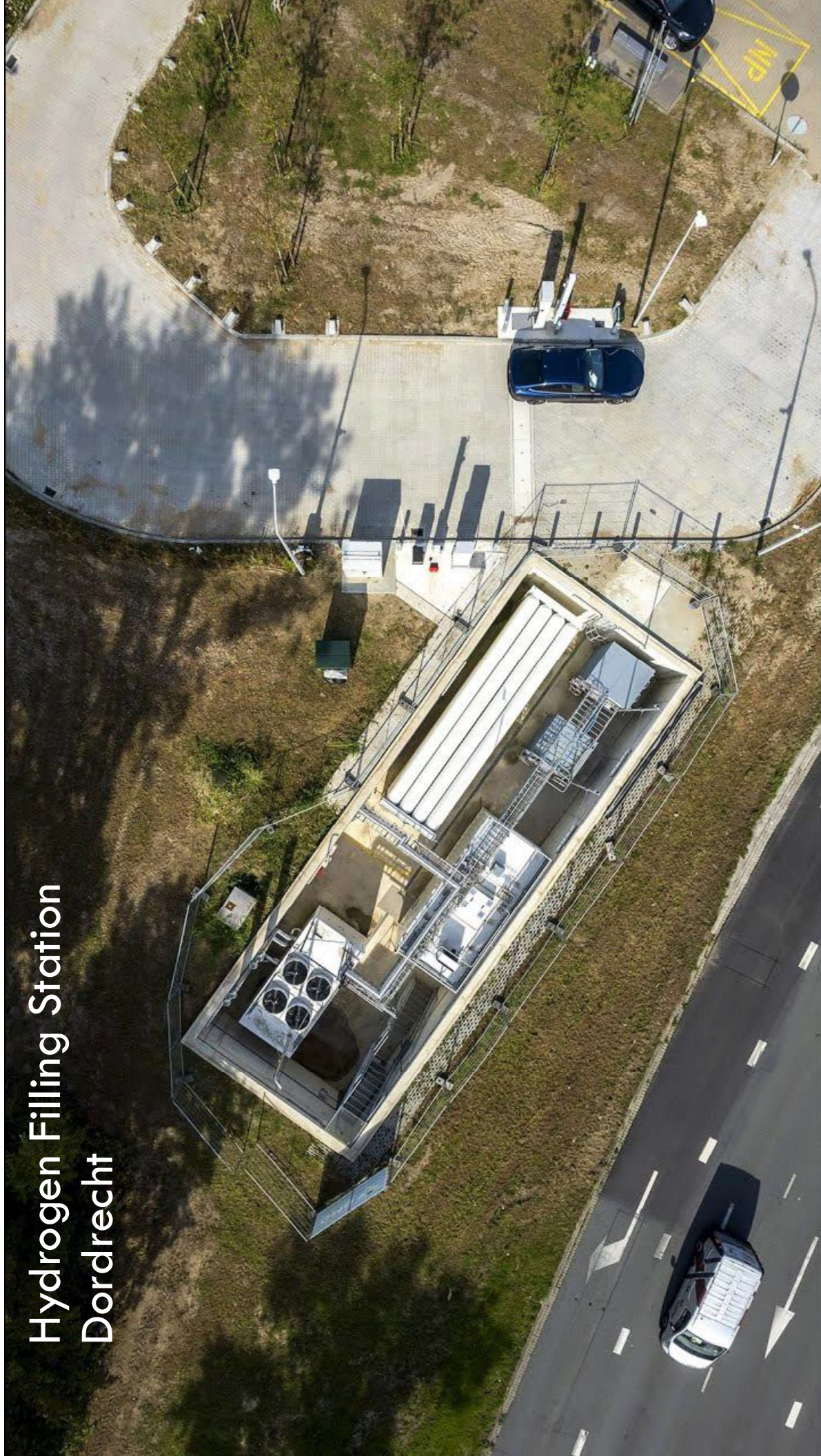
Hydrogen Filling Station Oude Tonge





Hydrogen Filling Station
Dordrecht

Hydrogen Filling Station Dordrecht



Hydrogen Production (2,5 MWe)
1100 meter underground H2 line
Nieuwegein



Other projects: Hydrogen Power Generation



Hydrogen driven mobile power generator



80 kWe



ATEX certified

Other projects: Versatile Ongoing Hydrogen Projects



Development Sliedrecht Smart Hydrogen Hub



Design & delivery hydrogen-based utility application (3-4 MWe)



Development of several Energy Hubs with potential for H2 production

