

# POWERING INNOVATION. ENERGIZING TOMORROW.

Pareto Securities' Power &  
Renewable Energy Conference

29 January 2026

HydrogenPro

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# Why hydrogen?

## Why hydrogen alongside electrification

Electrification is the most efficient way to decarbonize energy use for many cases, **but it does not work everywhere**.  
A cost-optimal energy system therefore requires **both electrification and hydrogen**

### Applications where electrification works best



#### Buildings and homes

Heat pumps and electric appliances



#### Passenger vehicles and urban transport

Battery electric cars, buses, and rail



#### Low-temperature industrial processes

Electric motors, boilers, and low-temperature process heat



#### Short-term energy storage

Grid-scale and behind-the-meter batteries

### Applications where hydrogen works best



#### Heavy industry

Ammonia (chemicals, fertilizer etc.), steel, cement requiring high-temperature heat and feedstock substitution



#### Long-distance and heavy transport

Trucking, shipping, and aviation where energy density and refueling time matter



#### Long-Term and seasonal energy storage

Large-scale storage for weeks and seasonal balancing



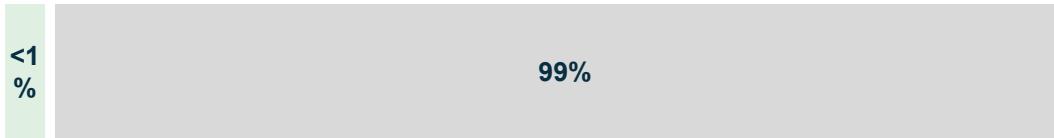
#### Infrastructure and grid constraints

Peak demand reduction and use of existing gas infrastructure with modifications

Several end-uses can be decarbonized through electrification, but a large need for hydrogen for several energy-intense users

# Hydrogen: a large and mature market to be decarbonized

## Global hydrogen supply



Hydrogen production generated ~980 Mt CO<sub>2</sub> in 2024, equivalent to the combined annual emissions of Indonesia and France



### Fossil based

- More than 99% of hydrogen supply is produced from unabated fossil fuels, primarily natural gas and coal
- Conventional production routes such as steam methane reforming (SMR) and coal gasification dominate global hydrogen output



### Renewable

- Hydrogen produced via electrolysis currently accounts for less than 1% of global supply, reflecting the early stage of market development
- Deployment is progressing from a low base, with scale-up expected as costs decline and policy frameworks are implemented

## Global hydrogen demand



Global hydrogen demand reached almost 100 million tonnes (Mt) in 2024 and is expected to surpass 100 Mt in 2025



### Industry

- Demand is driven by established industrial feedstock uses
- Ammonia and methanol production together account for nearly half of global hydrogen demand



### Refining & Other

- Oil refining is a major source of hydrogen demand, alongside chemicals and steel production via direct reduced iron (DRI)
- New applications (mobility, power, synthetic fuels and biofuels upgrading) account for less than 1% of total demand with growth expected

# A leading OEM delivering two of the largest green hydrogen projects worldwide

## Historical milestones

August 2013

HydrogenPro established

October 2020

IPO on Oslo Stock Exchange, raised MNOK550. MHI becomes shareholder

November 2021

Acquired 75% in manufacturing (Tianjin)

November 2023

Awarded SALCOS® order (100MW) by ANDRITZ

December 2024

Private placement with MHI, ANDRITZ and LONGi. Cooperation with LONGi

November 2025

HydrogenPro acquired full ownership of manufacturing site in Tianjin

1

2

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2014

First project delivered: 9MW to Woikoski, Finland

December 2020

Acquisition of Advanced Surface Plating

April 2022

Awarded ACES order (220 MW) by Mitsubishi Power Americas

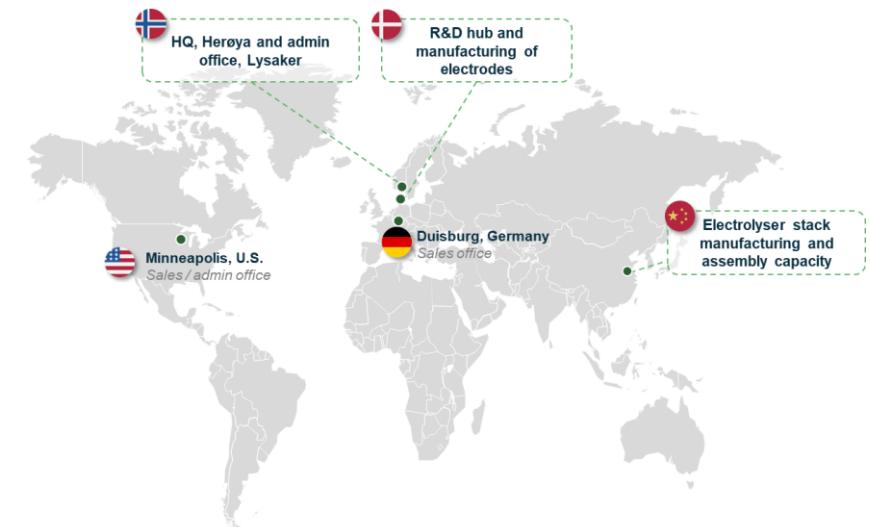
April 2024

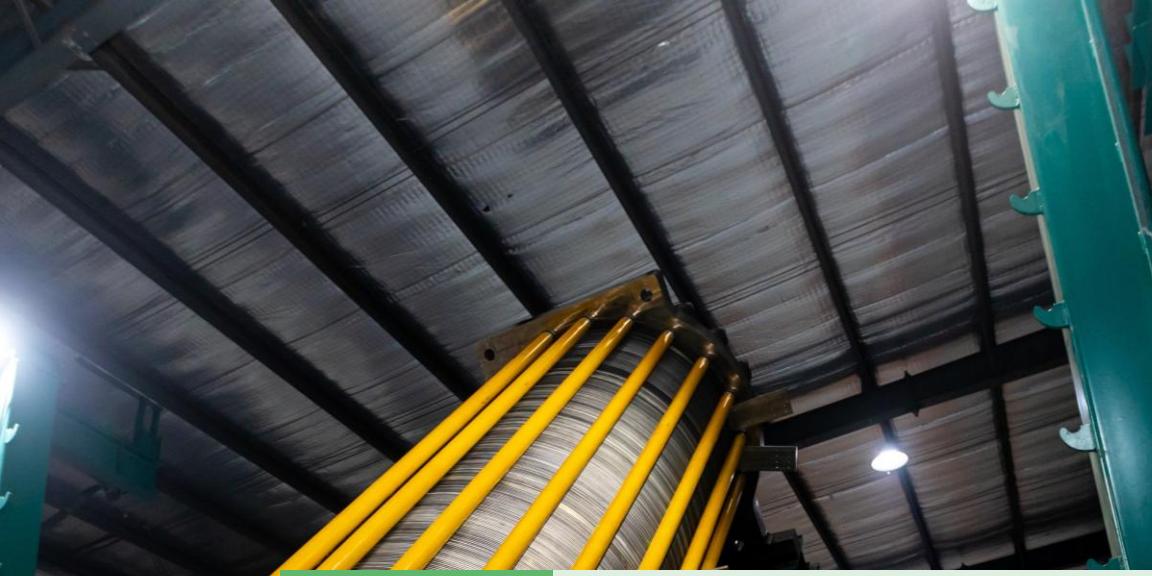
ANDRITZ invested MNOK83 in private placement

August 2025

Thermax (India) and HydrogenPro entered a partnership

## Global presence





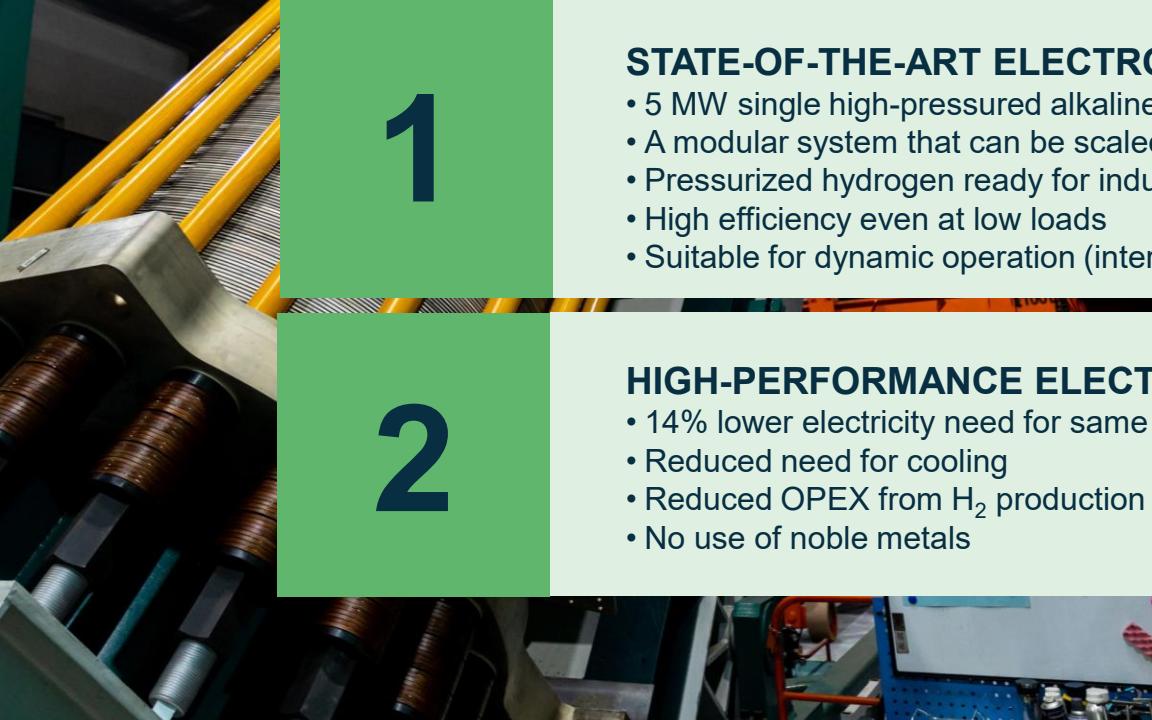
# HydrogenPro is a global provider of advanced, large-scale green hydrogen technology & systems

1

## STATE-OF-THE-ART ELECTROLYZER

- 5 MW single high-pressured alkaline stack suitable for renewable energy input
- A modular system that can be scaled to any size for large-scale industrial applications
- Pressurized hydrogen ready for industrial use
- High efficiency even at low loads
- Suitable for dynamic operation (intermittent power input)

2



## HIGH-PERFORMANCE ELECTRODE TECHNOLOGY

- 14% lower electricity need for same H<sub>2</sub> output
- Reduced need for cooling
- Reduced OPEX from H<sub>2</sub> production
- No use of noble metals



Optimized  
levelized cost  
of hydrogen

# Serving industrial applications and hard-to-abate sectors

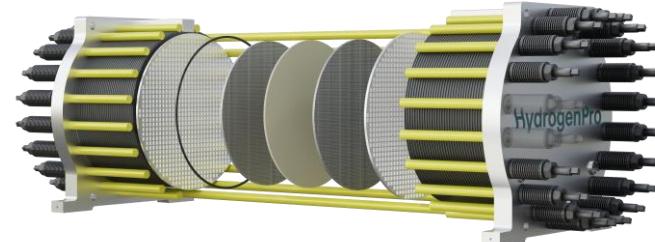


Renewables



Water

## HydrogenPro



$H_2$

$+ O_2$   
 $+ heat$

Power-To-Gas



Refinery



Petro Chemicals



eFuels



Ammonia/  
Fertilizer



Steel



# 220MW ACES project 95% complete

*Snapshot from article in Hydrogen Insight on 29 December 2025:*

Hydrogeninsight

## EXCLUSIVE | The largest green hydrogen project in the US is now 95% complete

H2 molecules now being produced at the delayed 220MW ACES Delta facility in Utah



Construction on the delayed Chevron-backed 220MW ACES Delta green hydrogen project in Utah, set to be the largest in the US when it begins commercial operation, is now 95% complete and commissioning has begun, the company has revealed to *Hydrogen Insight*.

The energy storage project has now begun producing green hydrogen and storing it in the project's associated underground salt cavern, which will ultimately be used to provide H<sub>2</sub> molecules for dispatchable power generation.

"This marks critical progress toward meeting commissioning objectives," a spokesperson for Chevron told *Hydrogen Insight*.



Related

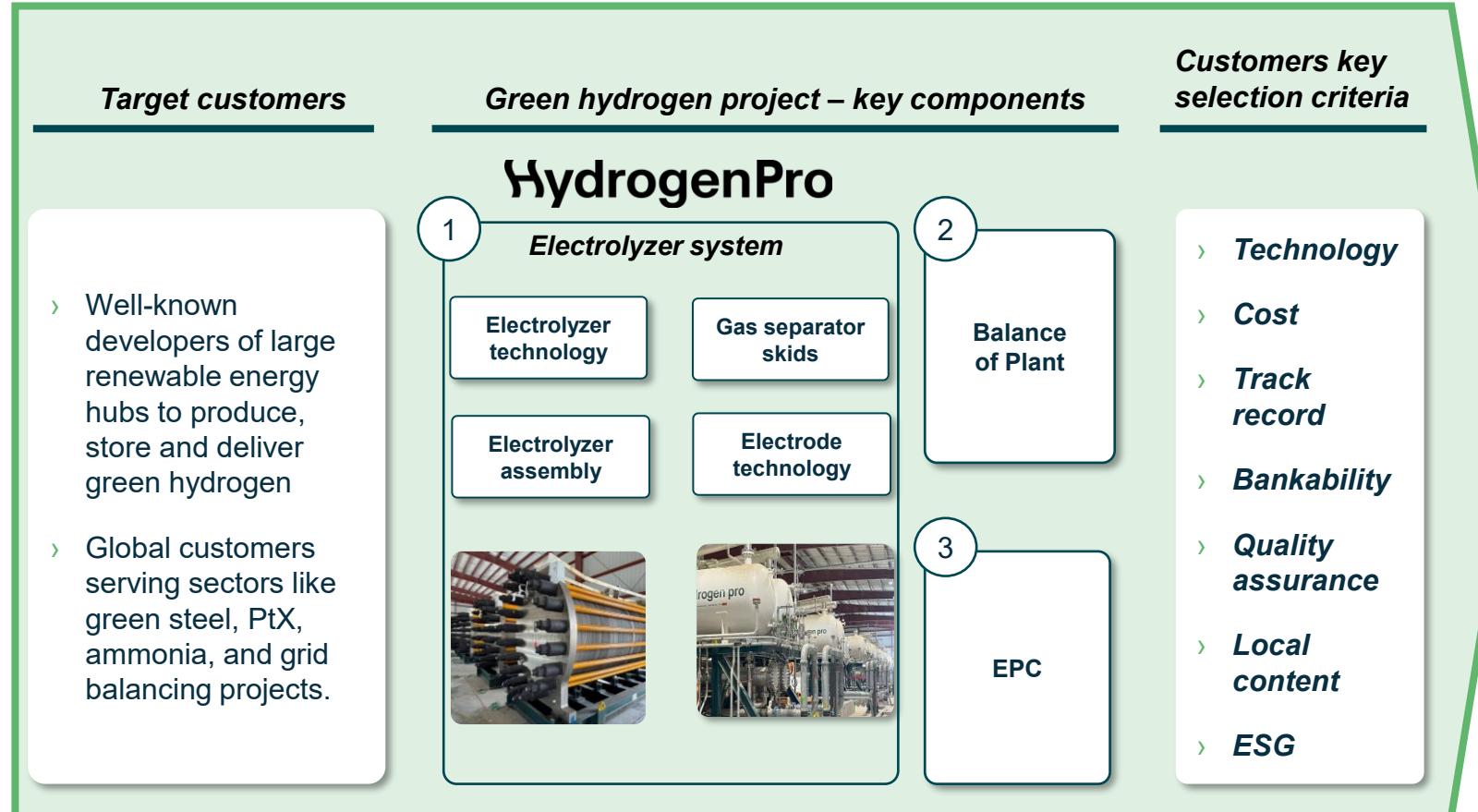
New 'hydrogen-ready' power station frees Los Angeles from coal-fired electricity — but no H<sub>2</sub> planned for months

The project intends to use surplus electricity from renewable power producers connected to the [Western Interconnection grid](#) (which includes transmission lines across the western US and western Canada) to produce up to 100 tonnes of green hydrogen per day for storage in two salt caverns with a capacity of 300GWh — enough for around 9,000 tonnes of H<sub>2</sub>.

"Once fully operational, this site is expected to offer storage capacity 2x to 3x greater than all US grid-connected batteries today, with further expansion potential," the spokesperson added.

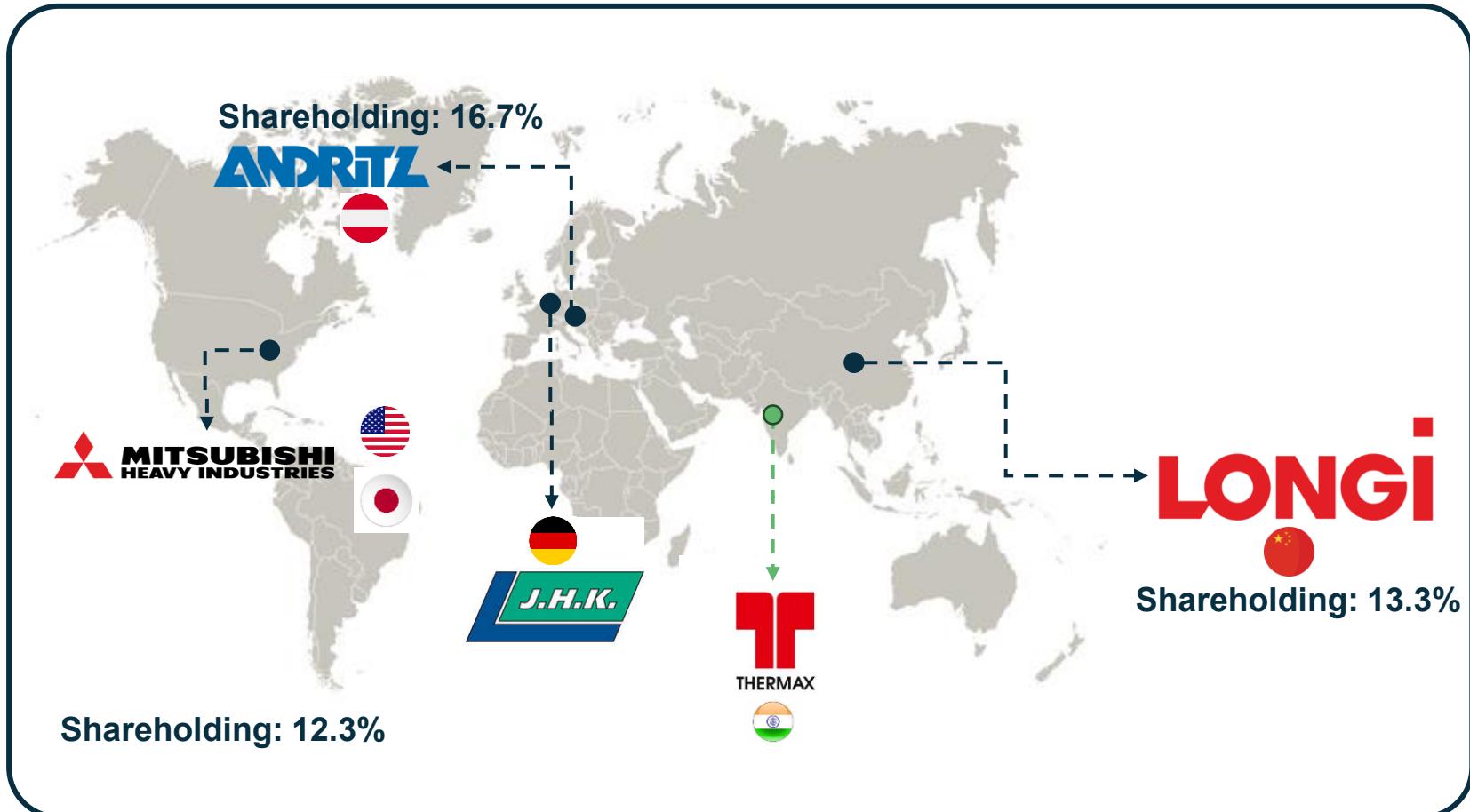
**HydrogenPro has delivered 40 electrolyzer stacks and 20 gas separator units + 4 spare stacks**

# HydrogenPro's partnerships enable full scope delivery on large-scale project, combining bankability, guarantees, quality...



- Single interface**
- Aligned risks & guarantees**
- Joint product development**
- Clear roles & responsibilities**

## ...and global reach



Working closely with **five strong industrial partners** committed to the energy transition, enables HydrogenPro to deliver projects globally

# Technology advantage: Superior positioning vs. alternatives

	PEM			Alkaline			
	High pressure	Atmospheric pressure	High pressure				
Plant efficiency	✗	✓	✓				
Low cooling need	✗	✓	✓				
No noble materials	✗	✓	✓				
Suitable for renewable energy	✓	✗	✓				
High pressure on O <sub>2</sub>	✓	✗	✓				
Suitable for P2X <sup>1</sup> plants	✓	✗	✓				
Proven for large-scale plants	✗	✓	✓				

**HydrogenPro**  
3<sup>rd</sup> Gen



1. P2X = Power-to-X

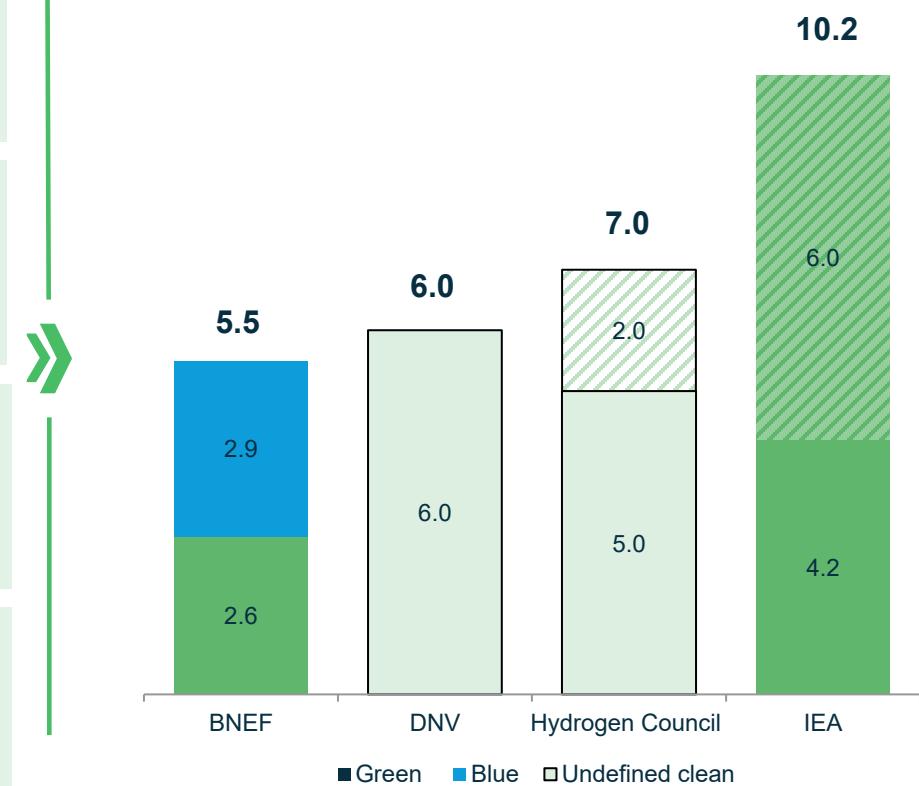
Legend: ✓ Best capability ✓ Average capability ✗ No/limited capability

# Analysts signal a strong clean hydrogen market growth

## Selected quotes, 2025

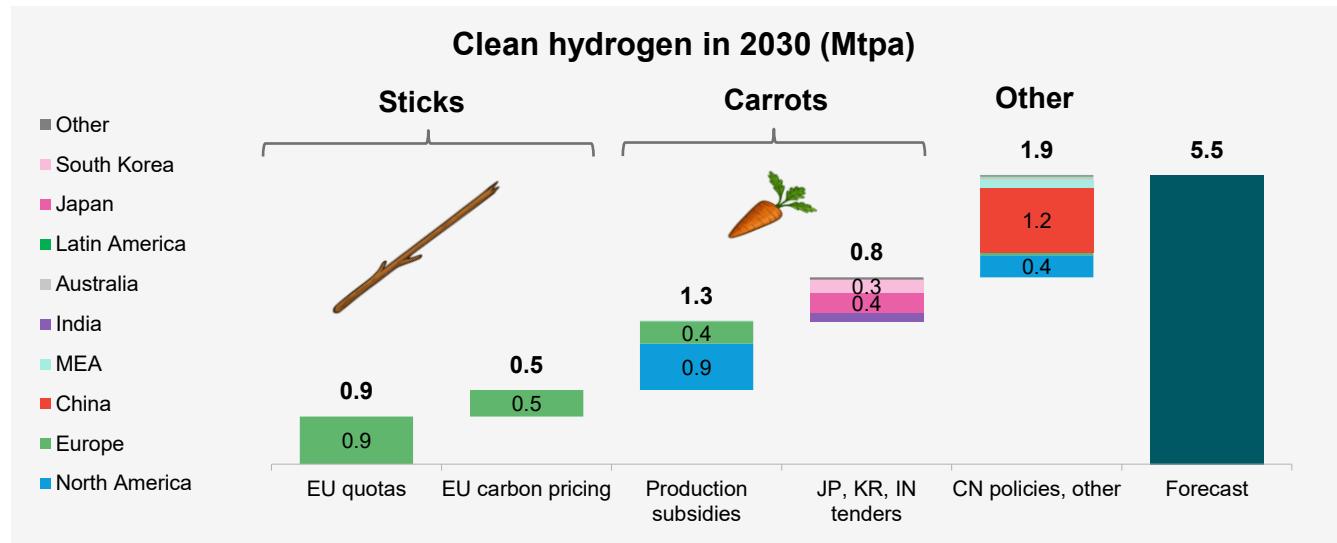
BloombergNEF	<b>Bloomberg New Energy Finance (BNEF)</b> <i>"Policy carrots and sticks drive 5.5Mt of clean H2 demand by 2030"<sup>1</sup></i>
DNV	<b>Det Norske Veritas (DNV)</b> <i>"Future demand for renewable and low-carbon hydrogen and its derivatives — ammonia, e-methanol, and other e-fuels — as energy carriers will grow from current negligible levels to surpass 6 MtH2/yr by 2030"<sup>2</sup></i>
iea	<b>International Energy Agency (IEA)</b> <i>"Low-emissions hydrogen production from projects that are today operational or have reached FID is set to reach 4.2 Mtpa by 2030, a fivefold increase compared with 2024 production."</i> <i>"...Moreover, a new, comprehensive assessment of the prospects of announced projects for this year's Review finds that an additional 6 Mt of low-emissions hydrogen production projects has strong potential to be operational by 2030 if effective policies to create demand and facilitate offtake are implemented."<sup>3</sup></i>
Hydrogen Council McKinsey & Company	<b>Hydrogen Council   McKinsey &amp; Company</b> <i>"Between 5 to 7 mtpa (15–20%) of the announced 34 mtpa of renewable capacity could come online by 2030, with 55% to 60% from Europe and China"<sup>4</sup></i>

## Estimates for clean hydrogen, 2030 (Mtpa)



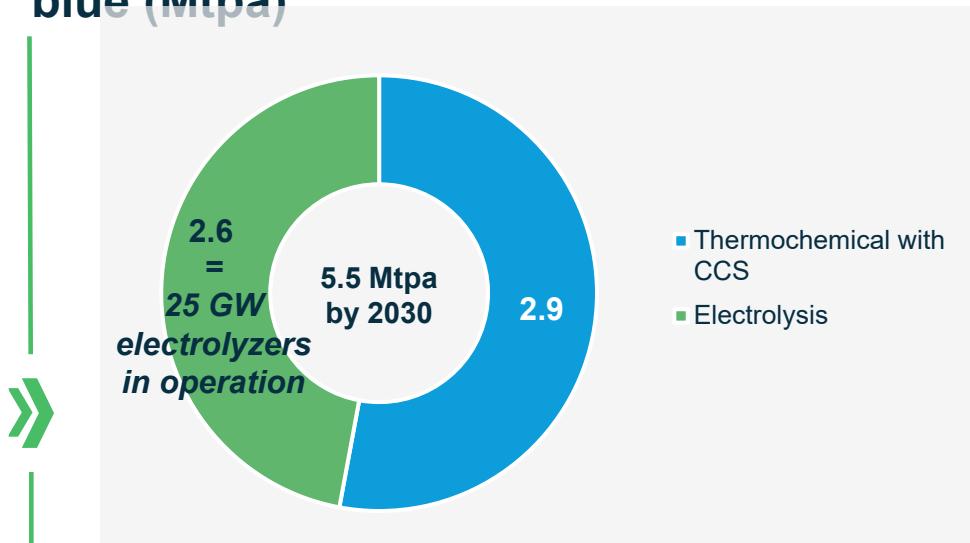
# Political tailwinds enable a large clean hydrogen market, at least 5.5 million tons expected online by 2030

## Policy incentives support clean hydrogen demand



- ~5.5 Mt of clean hydrogen demand by 2030 is driven by policy incentives
- Mandates ("sticks") account for ~1.4 Mt, led by EU quotas and carbon pricing
- Subsidies and tenders ("carrots") contribute ~2.1 Mt, driven by production subsidies and Asian tenders

## 2030 clean hydrogen market – green vs. blue (Mtpa)



- Electrolysis accounts for ~2.6 Mt of clean hydrogen supply by 2030, to be delivered by 25 GW of electrolyzers producing hydrogen
- Deployment concentrated in Europe, China and parts of Asia
- Short-term policy design in the US favors blue hydrogen, but electrolysis remains the primary growth pathway for clean hydrogen beyond 2030

# Key regulatory levers in place to support demand growth

## Regulatory levers supporting clean hydrogen demand

<b>Lever</b>	<b>Role/purpose</b>	<b>Expected effective timing</b>	<b>Key risks</b>
1 Hydrogen auctions / CCfDs	Primary mechanism to close cost gap and enable FID	2025–2028	Insufficient auction volumes vs capacity targets
2 RED III (RFNBO mandates)	Anchors mandatory demand for green hydrogen and e-fuels	2026–2030	Delayed or uneven national transposition
3 EU ETS / CO <sub>2</sub> pricing	Structural competitiveness support vs grey hydrogen	2024+ (continuous)	Volatility and free allowances limit impact
4 Electrolyzer & infrastructure CAPEX support	Accelerates deployment and reduces capital intensity	2024–2027	Budget constraints and slow disbursement
5 Sectoral H <sub>2</sub> quotas	Converts mandates into enforceable offtake volumes	2026–2029	Weak enforcement or flexible compliance

# Key investment highlights



**Sizeable TAM and growth potential for green H<sub>2</sub> underpinned by secular tailwinds**  
Favorable government policies provide critical support; new end markets unlock a bigger TAM for green H<sub>2</sub>



**HydrogenPro's 3rd-generation technology drives significant LCOH reductions**  
Technology developed for 10+ years with extensive R&D efforts



**Substantial commercial traction with ACES hub and ANDRITZ contracts**  
220MW ACES project to start up early 2026; 100MW ANDRITZ (SALCOS) project in delivery



**Manufacturing capacity in place to service demand today with plans to expand globally**  
Owner of electrolyzer manufacturing site in Tianjin, China and electrode manufacturing in Aarhus, Denmark



**Scalable business model positioned to grow**  
Recurring revenue and optimized production systems



**World-class leadership team with deep industry knowledge**  
Management team brings valuable insights and execution capabilities in the hydrogen sector



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