

A large industrial machine with multiple yellow rollers is shown in a factory setting. The machine is positioned diagonally, and the rollers are arranged in a series of parallel lines. The background shows a dark, industrial interior with a corrugated metal ceiling and some lighting fixtures.

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

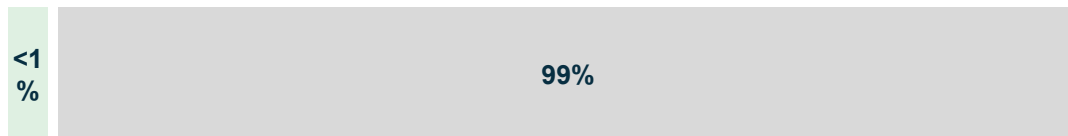
Peak demand reduction and use of existing gas infrastructure with modifications



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

Hydrogen: a large and mature market to be decarbonized

Global hydrogen supply



Hydrogen production generated ~980 Mt CO₂ 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 tones (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

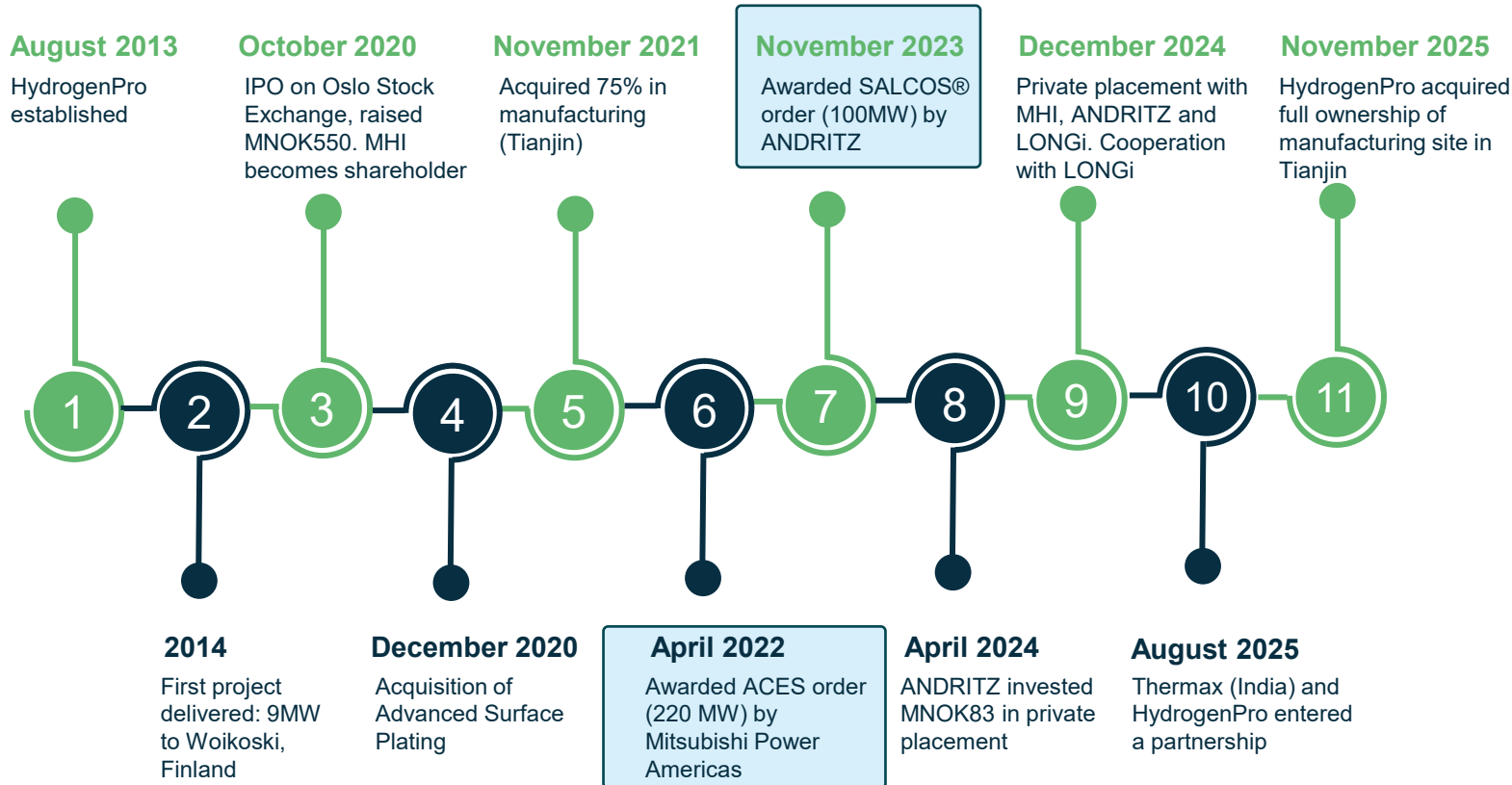


Refining & Other

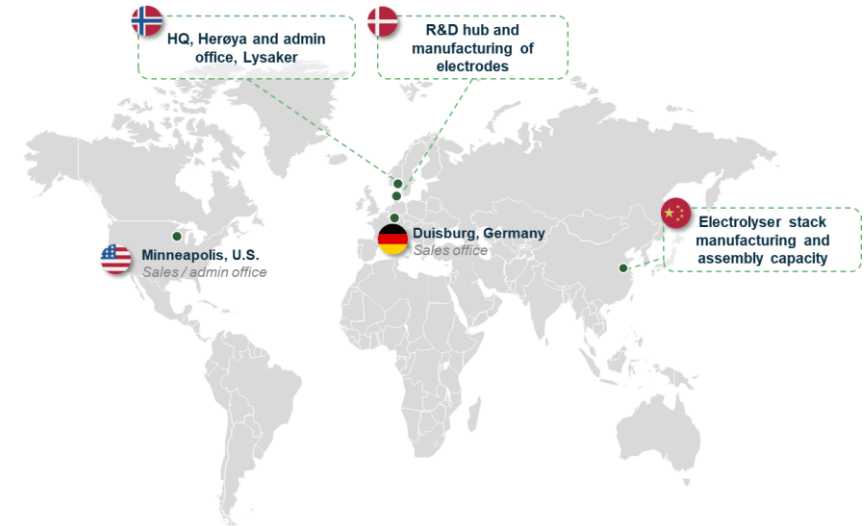
- Oil refining is a major source of hydrogen demand, alongside chemicals and steel production via direct reduced iron (DRI)
- New applications (mobility, power, synthetic fuels and biofuels upgrading) account for less than 1% of total demand with growth expected

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

Historical milestones



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

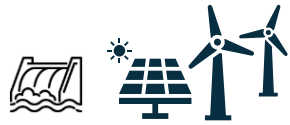
HIGH-PERFORMANCE ELECTRODE TECHNOLOGY

- 14% lower electricity need for same H₂ output
- Reduced need for cooling
- Reduced OPEX from H₂ production
- No use of noble metals



Optimized
levelized cost
of hydrogen

Serving industrial applications and hard-to-abate sectors

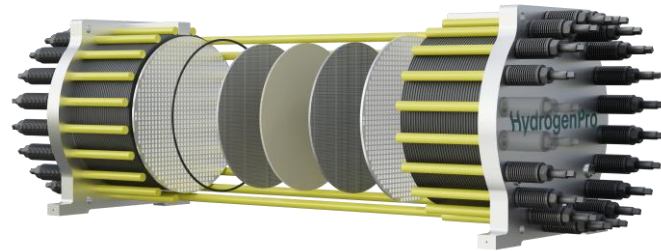


Renewables



Water

HydrogenPro



H₂

+ O₂
+ 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 H₂ molecules for dispatchable power generation.

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



Related

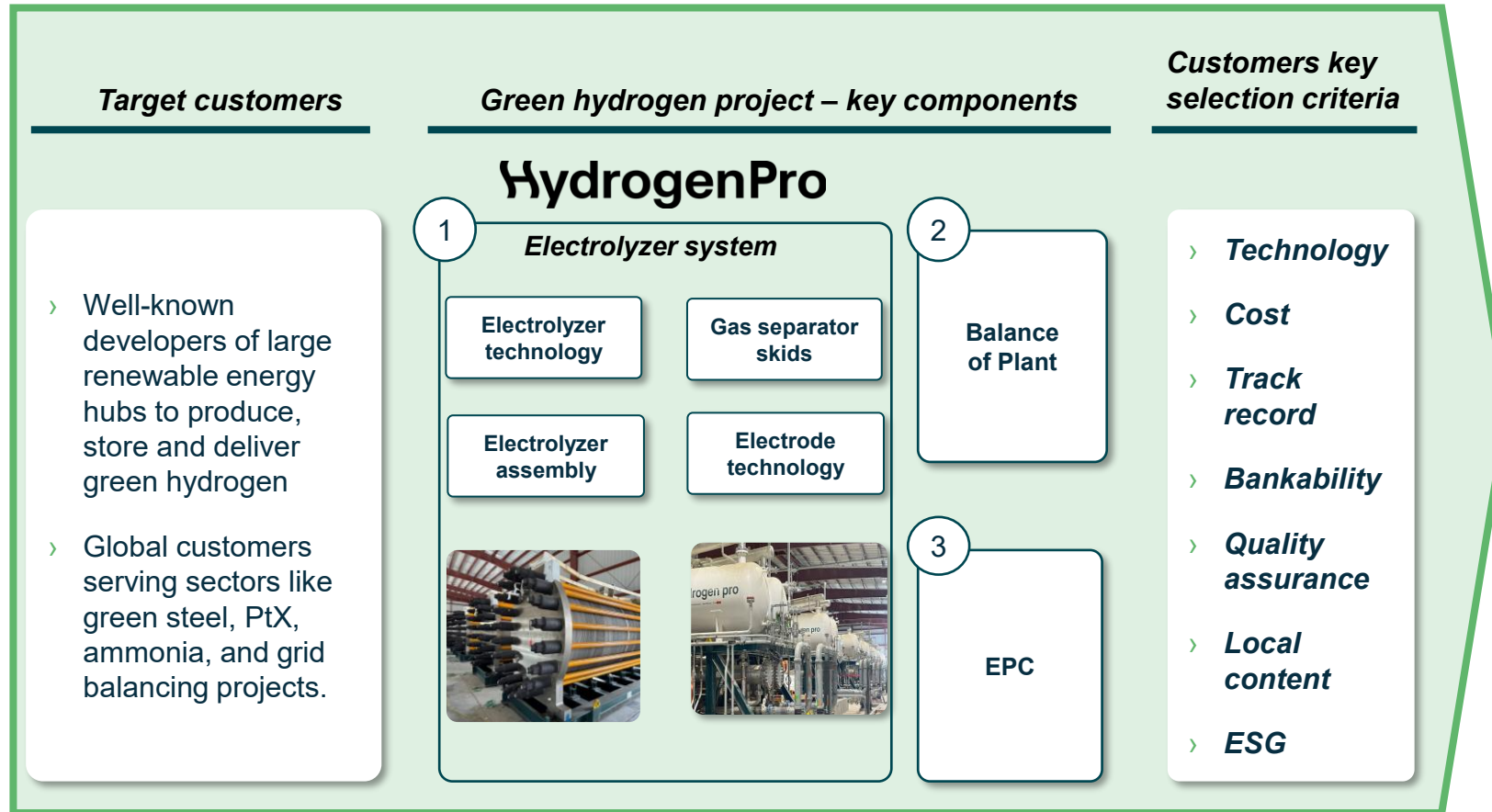
New 'hydrogen-ready' power station frees Los Angeles from coal-fired electricity — but no H₂ planned for months

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 H₂.

"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.

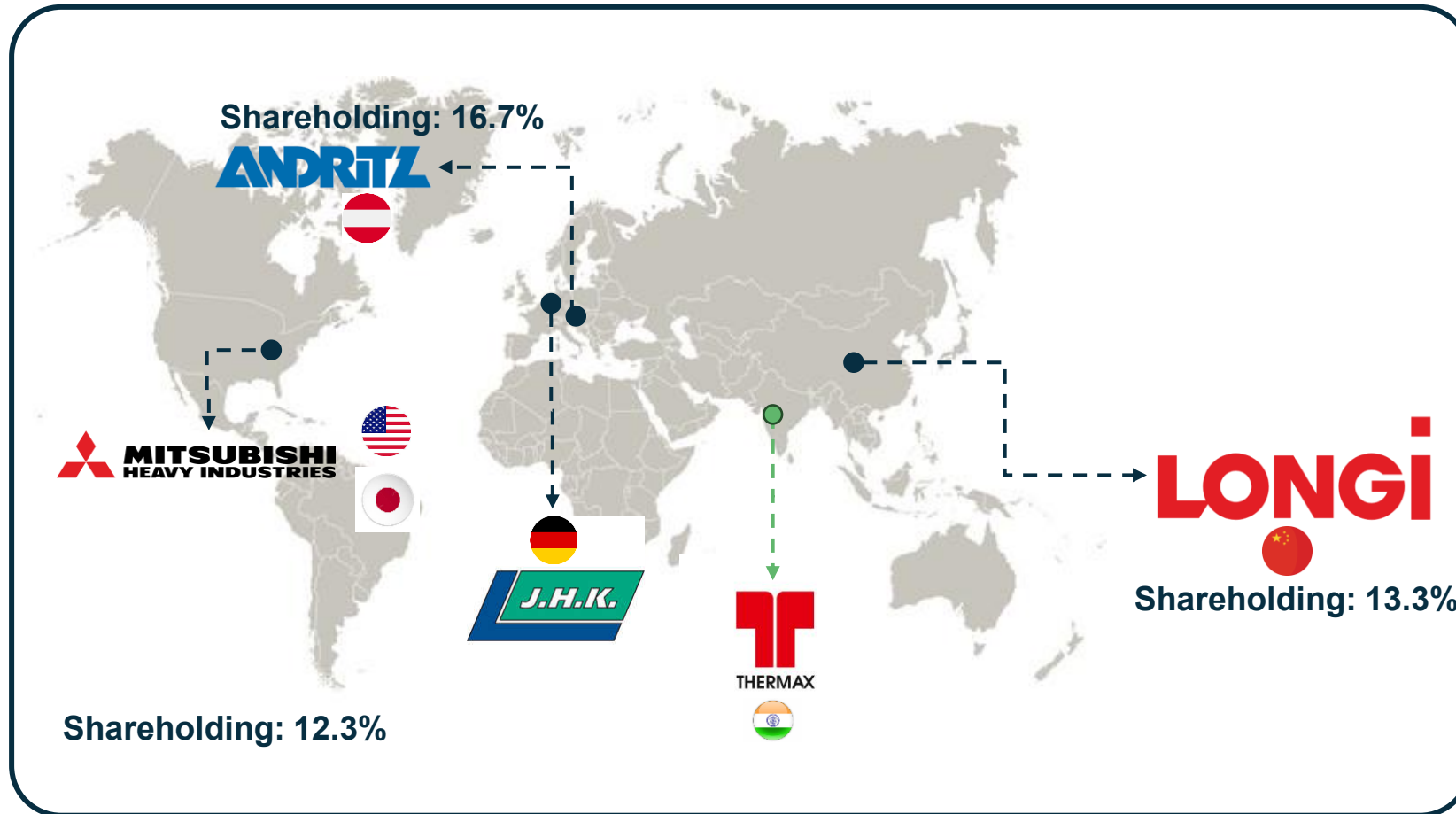
HydrogenPro has delivered 40 electrolyzer stacks and 20 gas separator units + 4 spare stacks

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			HydrogenPro 3 rd Gen
		High pressure	Atmospheric pressure	High pressure				
	Plant efficiency	✗	✓	✓	✓			
	Low cooling need	✗	✓	✓	✓			
	No noble materials	✗	✓	✓	✓			
	Suitable for renewable energy	✓	✗	✓	✓			
	High pressure on O ₂	✓	✗	✓	✓			
	Suitable for P2X ¹ plants	✓	✗	✓	✓			
	Proven for large-scale plants	✗	✓	✓	✓			

1. P2X = Power-to-X

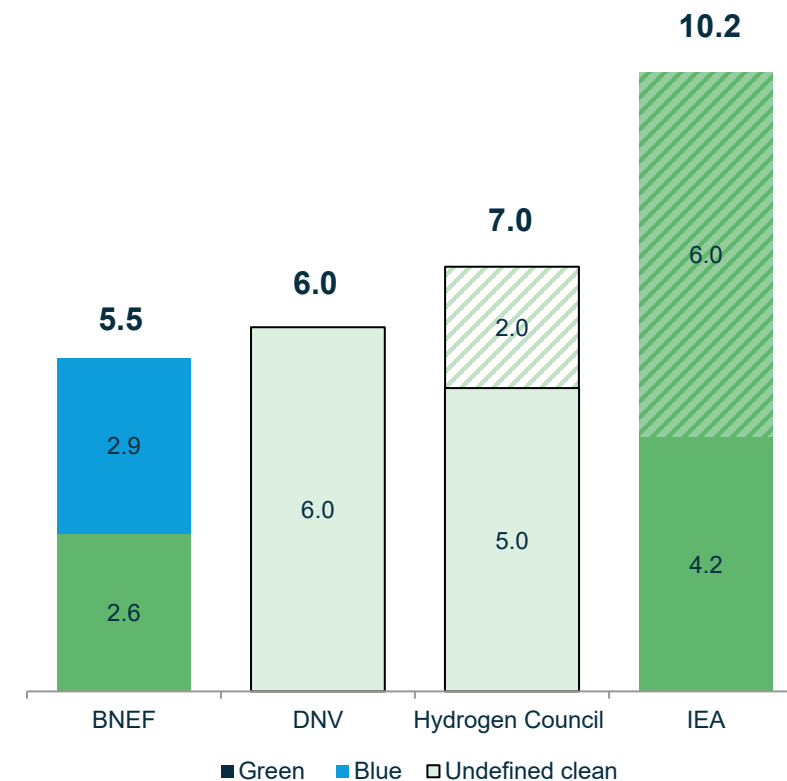
Legend: ✓ Best capability ✓ Average capability ✗ No/limited capability

Analysts signal a strong clean hydrogen market growth

Selected quotes, 2025

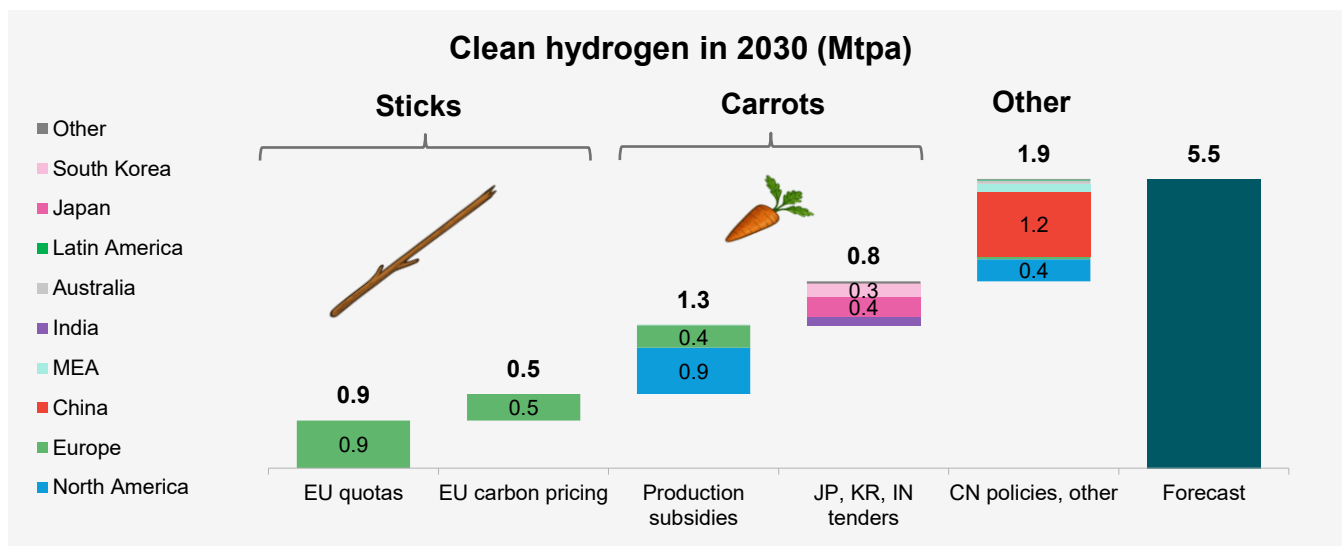
	<p>Bloomberg New Energy Finance (BNEF) <i>"Policy carrots and sticks drive 5.5Mt of clean H2 demand by 2030"¹</i></p>
	<p>Det Norske Veritas (DNV) <i>"Future demand for renewable and low-carbon hydrogen and its derivatives — ammonia, e-methanol, and other e-fuels — as energy carriers will grow from current negligible levels to surpass 6 MtH2/yr by 2030"²</i></p>
	<p>International Energy Agency (IEA) <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." "...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."³</i></p>
<p>Hydrogen Council </p>	<p>Hydrogen Council McKinsey & Company <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"⁴</i></p>

Estimates for clean hydrogen, 2030 (Mtpa)



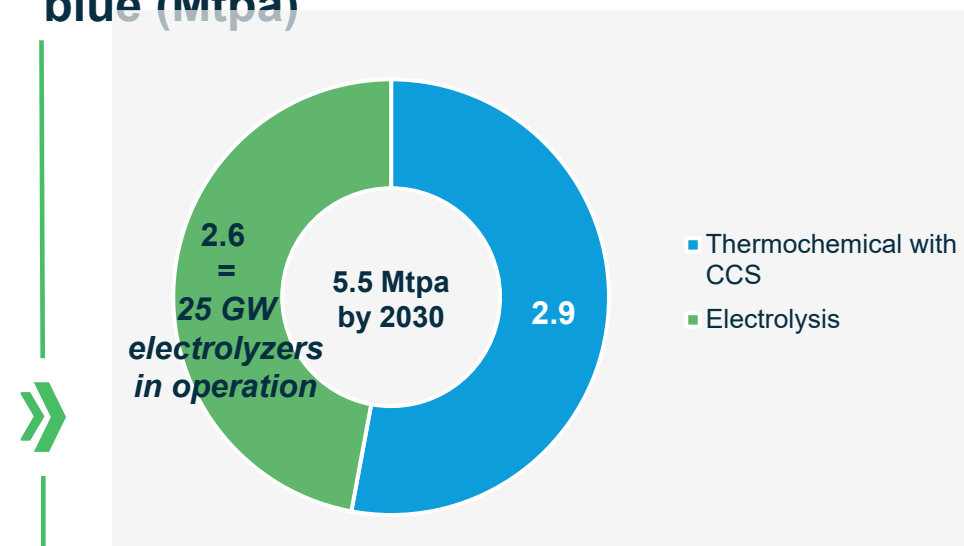
Political tailwinds enable a large clean hydrogen market, at least 5.5 million tons expected online by 2030

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

<i>Lever</i>	<i>Role/purpose</i>	<i>Expected effective timing</i>	<i>Key risks</i>
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 ₂ 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 ₂ quotas	Converts mandates into enforceable offtake volumes	2026–2029	Weak enforcement or flexible compliance

Key investment highlights



Sizeable TAM and growth potential for green H₂ underpinned by secular tailwinds
Favorable government policies provide critical support; new end markets unlock a bigger TAM for green H₂



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



HydrogenPro
Market leading global provider of large-scale green hydrogen technology & systems

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ENERGIZING
TOMORROW.**