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ASX:HZR

Hazer Group Ltd

*Clean hydrogen technology to
decarbonise the world*

ASX Small & Mid Cap Conference
Wednesday, 20 September 2023





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Investment highlights

Low cost, low emissions H₂ production technology company positioned to play a leading role in global decarbonisation

- 1** Low-cost, Low-emissions, Proprietary Technology
- 2** Compelling Economics & Returns
- 3** Global Tier-1 Partnerships Across Strategic Markets
- 4** Advanced Technology Readiness & Proven Scale-up
- 5** Clear Commercial Pathway & Capex-lite
- 6** Graphite Production Diversifies Earnings
- 7** Rapidly Growing H₂ Demand
- 8** Government & Policy Support

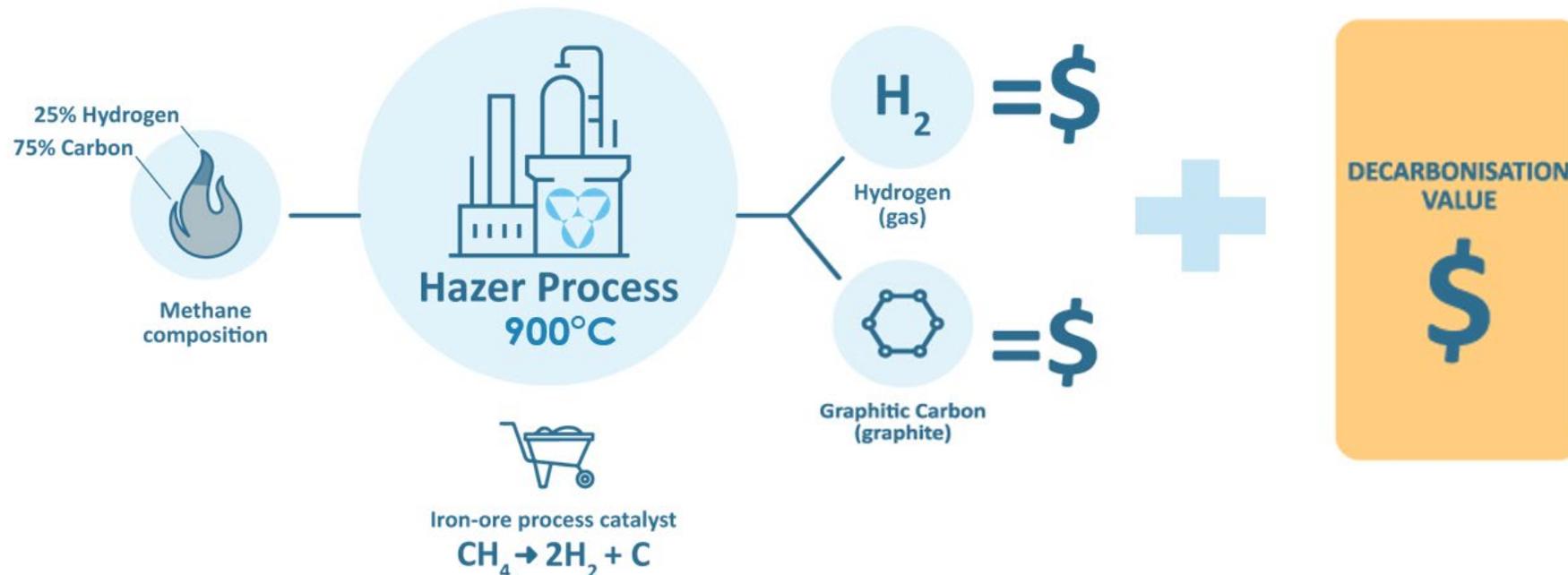




Hazer's competitive technology advantage

Innovative low emission, low-cost methane pyrolysis technology producing clean hydrogen and graphite

- Hazer Group Limited is a technology development company undertaking the commercialisation of the Hazer Process.
- The Hazer Process enables low temperature conversion of natural gas and similar methane feedstocks, into hydrogen and high-quality graphitic carbon, using iron ore as a process catalyst.





1 Low cost & low emissions hydrogen

Hazer well positioned as a low-cost, low-emissions hydrogen technology

Existing Technologies

Steam Methane Reforming (SMR)

Significant CO₂ emissions

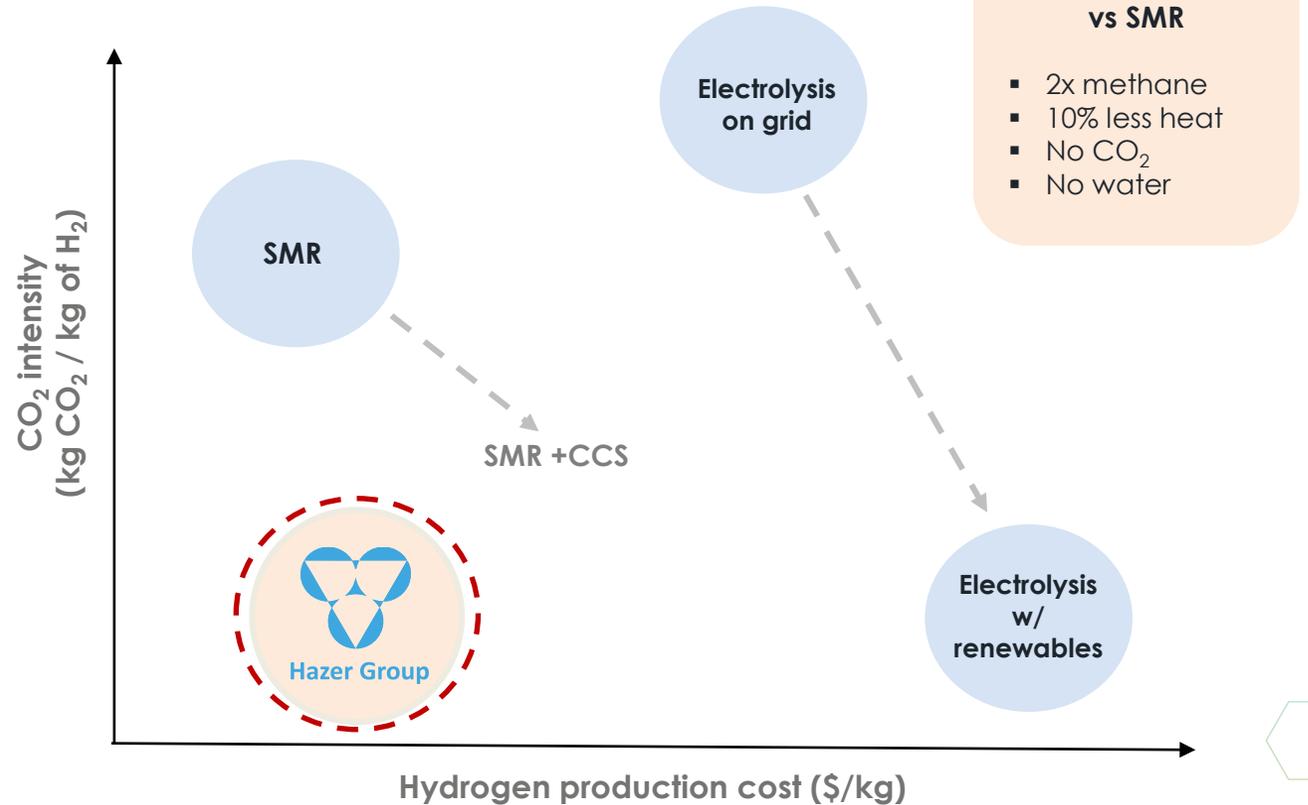
- Most widely used process for H₂ generation (~95%)
- High CO₂ emissions
- Requires CCS* to address emissions



Electrolysis

Energy intensive process

- 7x more energy intensive than SMR
- Only low emission if 100% renewable energy
- Requires significant water and renewable energy



*CCS = Carbon Capture & Storage. Requires geological formations for CO₂ sequestration



2 “Plug-in” technology using existing infrastructure

End-use deployment and application of the Hazer Technology eliminates H₂ transport risk and reduces cost



Conceptual design of Hazer facility co-located with 3rd party refinery
(Source: stock image not Hazer infrastructure)

- Eliminates requirement for hydrogen transportation cost and risk
- Co-located with end-user infrastructure – such as LNG facilities, refineries etc.
- Ability for shared services and lower operating cost model





3 Global partners & projects

Tier-1 partners developing commercial projects in North America, Europe and Asia-Pacific





4 Advanced technology readiness

Rapid development since company founding and advancing Tech Readiness Level (TRL)

(<1g* batch)



2007–2013

- Bench scale testing**
- University of Western Australia
 - Concept evaluation

(<100g* batch)



2016–present

- Scaled up bench test**
- University of Sydney
 - Catalyst kinetics and process research

(~1Kg* batch)



2017

- Bench scale fluid bed**
- University of Sydney
 - Conceptual testing of fluidised bed concept

(~<2 kg/hr* semi-continuous)



2017–2021

- Pilot Plant**
- Sydney and Perth
 - Fluidised bed with optimized conditions and catalyst injection

(< 60kg/hr* continuous**)



2022-2023

- Commercial Demonstration Plant (CDP)**
- Perth, Australia
 - End-to-end continuous plant with biogas feed
 - Start up planned 2023

Project Development Pipeline

- FORTIS BC
- CHIYODA CORPORATION
- CHUBU Electric Power
- ENGIE

2025+

- Key Projects**
- Canada
 - Chubu, Japan
 - Montoir-de-Bretagne, France

Strategic Focus

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*Combined product scale **CDP planned start up 2023

4 CDP on track for start-up in 2023

Key Milestones to Ready for Start-up (RFSU)

- ✓ Phase 1 plant construction
- ✓ Phase 1 commissioning, testing & debugging
- ✓ Heat exchanger materials delivery
- ✓ Mark-1 reactor forging & heat treatment
- ✓ Hot construction planning and contracts
- ✓ Start-up approvals and permits

On-track

- ✓ Hot equipment fabrication and installation
- ✓ Commissioning, RFSU and production

✓ Completed ✓ On-track

Latest Updates

- ✓ Heat exchanger successfully installed
- ✓ Reactor fabrication nearing completion
- ✓ CDP start-up on-schedule



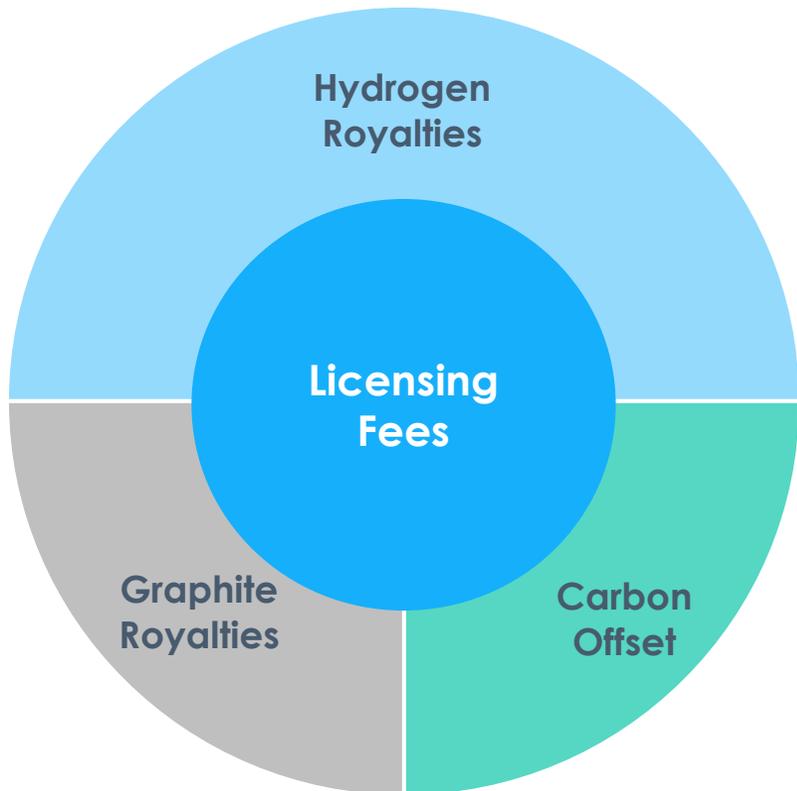
Reactor successfully heat-treated and preparing for final assembly and machining





5 “Capex-lite” business model enables early free-cashflow

Hazer business plan premised on licensing and royalty revenues avoiding large-scale capex exposure



- One technology, two valuable markets
- Flexible combination of license fees and royalties
 - Fixed annual license fees commensurate with plant size
 - Royalties a percentage of H₂ and graphitic carbon revenues
- “Capex-lite” approach





6 Graphite production diversifies earnings

A synthetic, low emissions product with differentiated morphology and properties

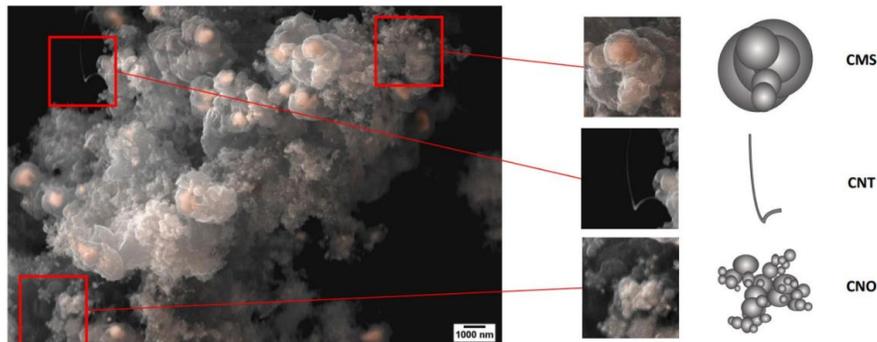
- Highly structured vs amorphous carbon black
- Iron inclusions produce magnetic graphite
- Low production emissions
- Up to 95% graphite purity
- High thermal & electrical conductivity
- Low sulphur & low ash content

Mitsui MOU

- A leading international trading and investment group based in Japan
- MOU signed to jointly investigate the market for Hazer graphite
- Exploring possible customers & applications in Asia-Pac, Northern America, Europe and Middle East



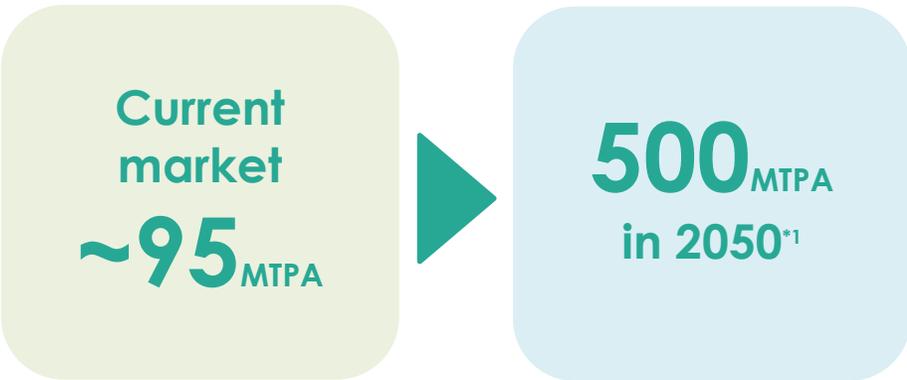
MITSUI & CO.





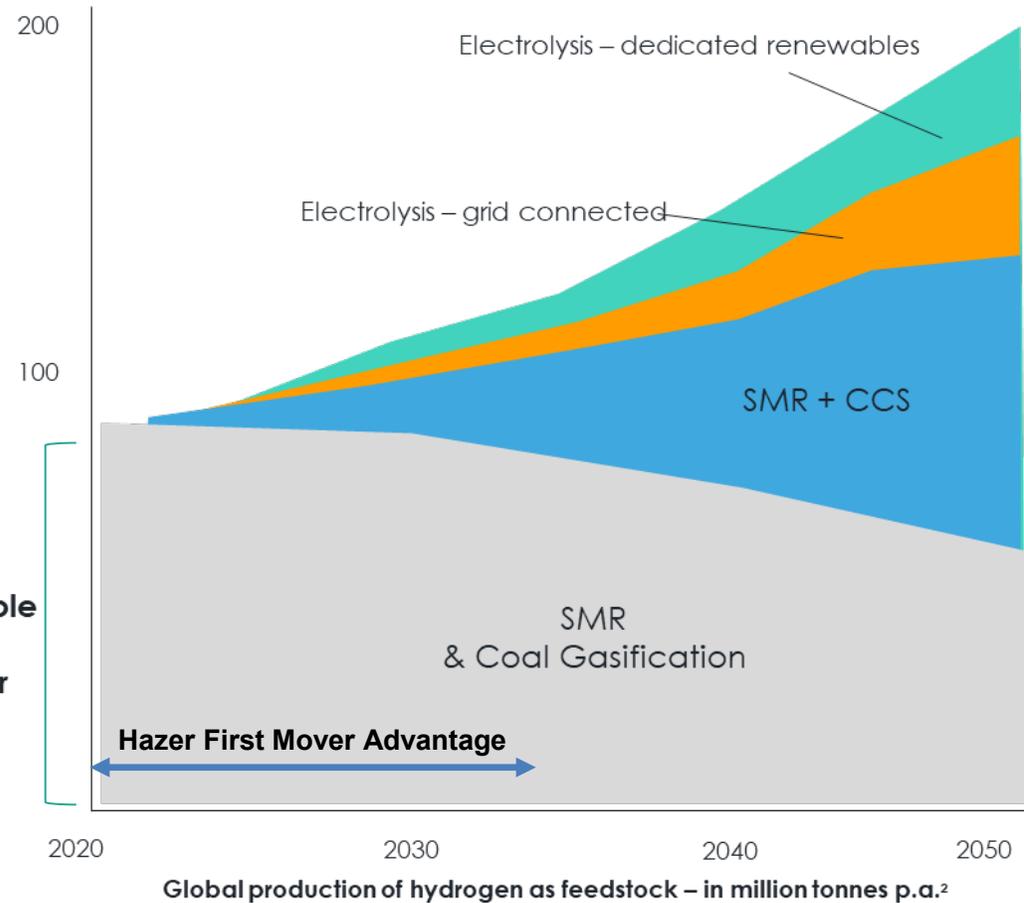
7 Building leading position in a rapidly growing market

Hydrogen will play a key role in the decarbonisation of hard-to-abate sectors



© Getty Images

Today's Addressable Market for Hazer



¹International Energy Agency (IEA) - The Future of Hydrogen, June 2019: <https://www.iea.org/reports/the-future-of-hydrogen>

²DNV (June 2022) – 'Hydrogen forecast to 2050':

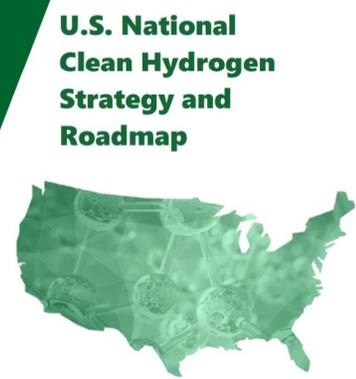
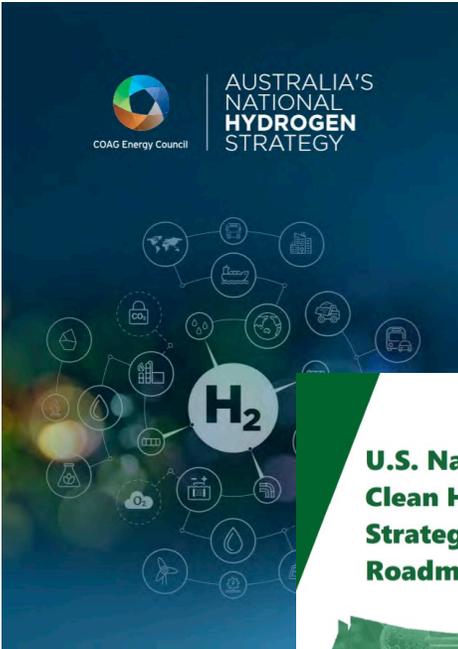
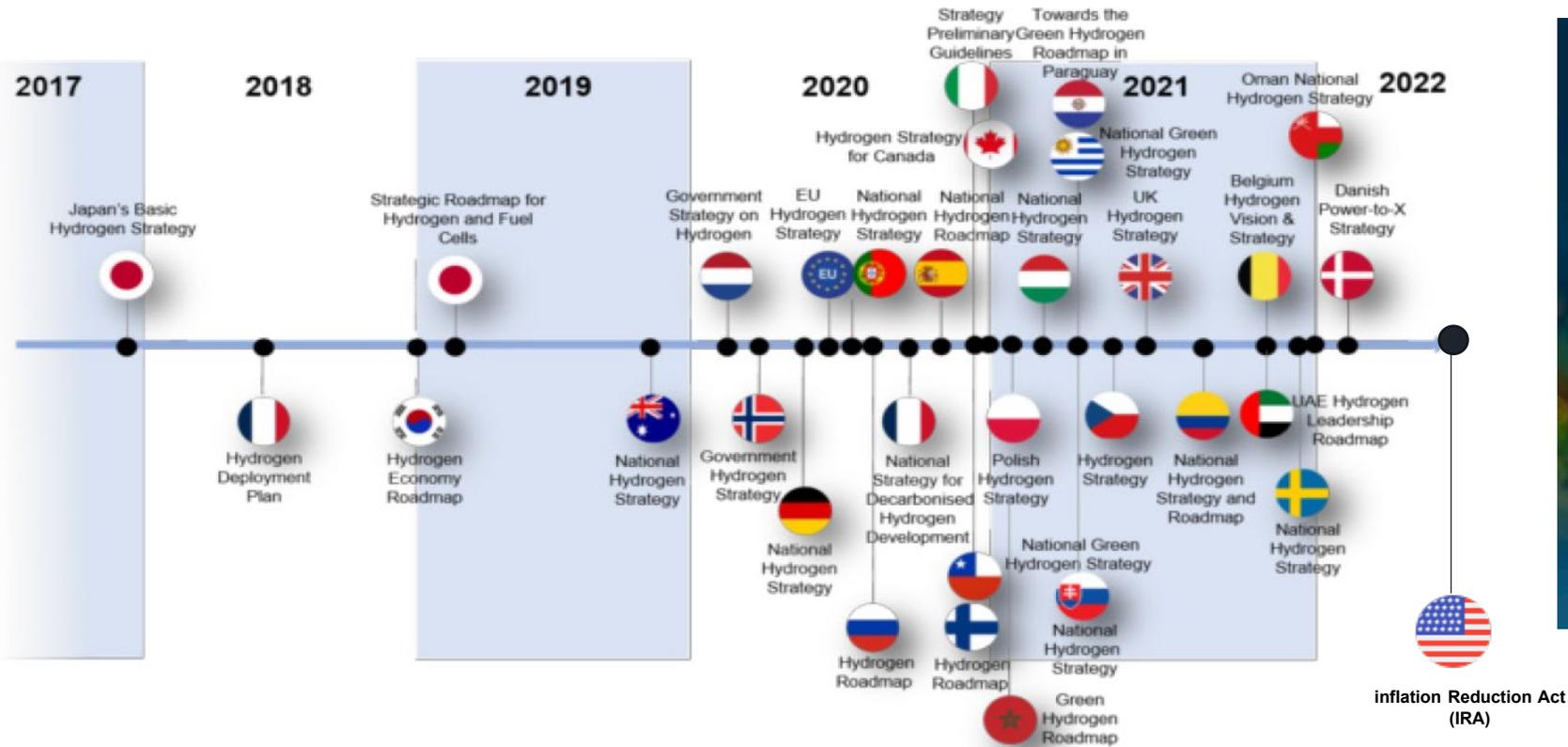
<https://www.dnv.com/news/hydrogen-at-risk-of-being-the-great-missed-opportunity-of-the-energy-transition-226628>





8 Global policy action gaining momentum

Hydrogen strategies expected in countries representing over 80% of global GDP by 2025



inflation Reduction Act (IRA)

Source: Various sources; data compiled by Goldman Sachs Global Investment Research





Key Activities

	CY2023		CY2024
	H1	H2	H1
Commercial Demonstration Plant (100 tpa)	Procurement, Fabrication, Engineering & Installation Today		Ready for Start-up Targeted Production & Testing Program
Hazer-Fortis 2,500 tpa Canada Plant	FEED Studies in Canada and Targeted FID		
New Potential Projects in Target Markets	 Japan France		Identify New Commercial Projects Japan & France Project Development Plans
Mitsui & Graphite Market Development	Developing Market for Hazer Graphite		Offtake Agreement
Corporate Updates	ARENA Grants	R&D Rebates	Corporate Access Events ARENA Grants





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