



NSW Hydrogen Strategy

Hydrogen and Clean Energy Programs

October 2021

Department of Planning, Industry and Environment

Our nation leading policy framework

The Strategy brings together the NSW Government's existing and new policies into a framework which will transform NSW into Australia's largest consumer of green hydrogen and:

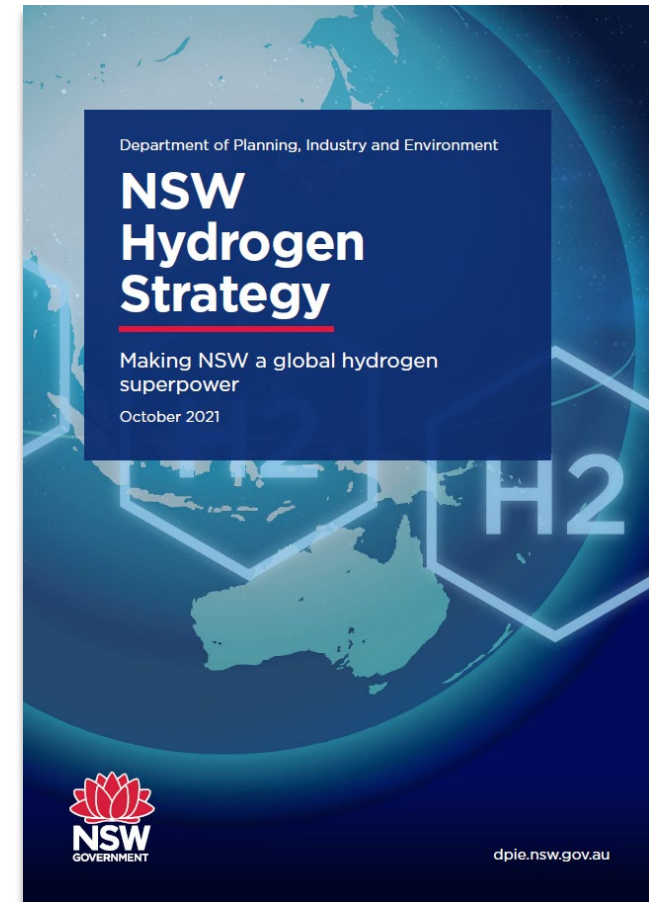
- sets out clear industry targets, sector priorities and actions to develop the entire hydrogen value chain
- aims to unlock the hydrogen heavy transport market, prepare for export opportunities and host new hydrogen enabled low-emissions industries



60
Actions

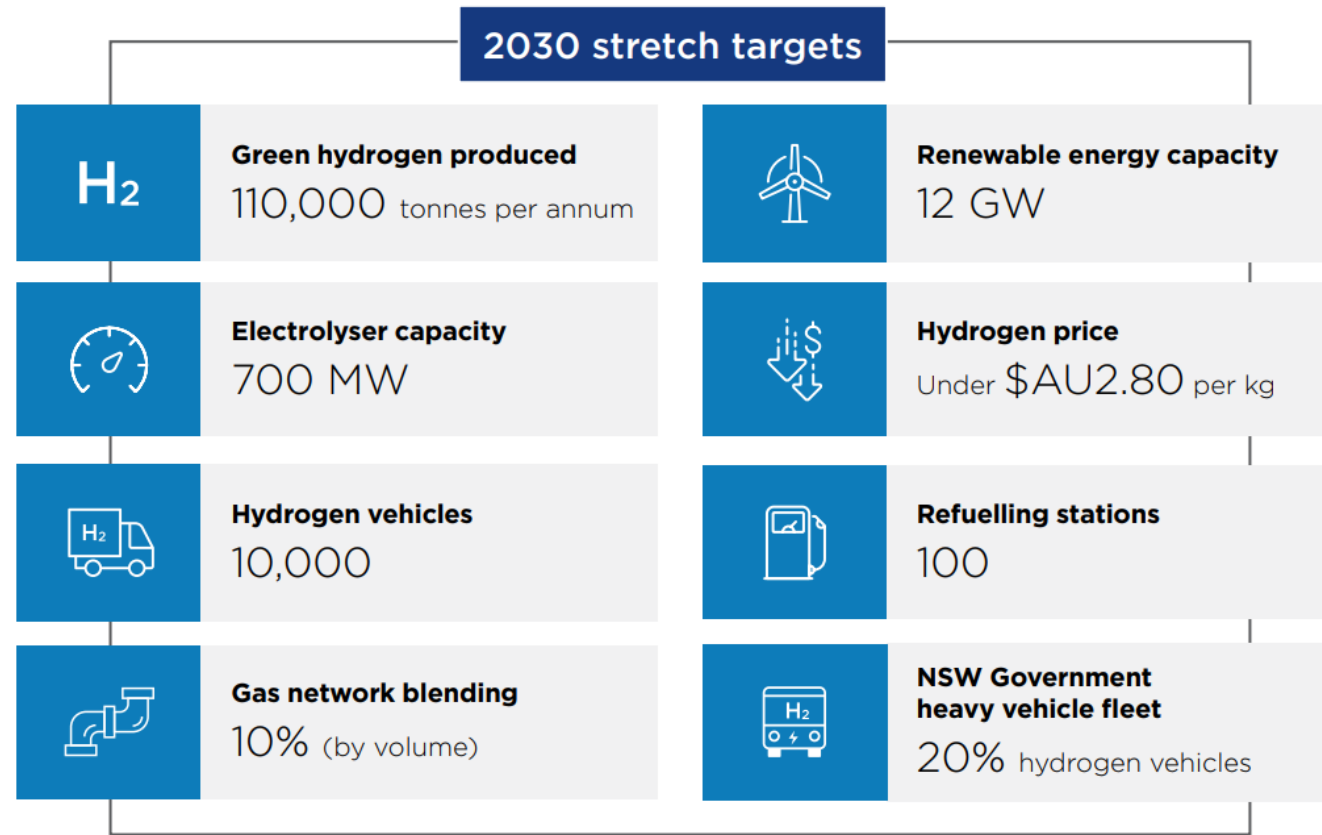
\$3B
incentives

<\$2.80
H2 price



Our ambition

The inclusion of targets in the NSW Hydrogen Strategy is crucial to provide industry with signals of the Government's ambition, which will build investor confidence and attract large-scale hydrogen investments in NSW.

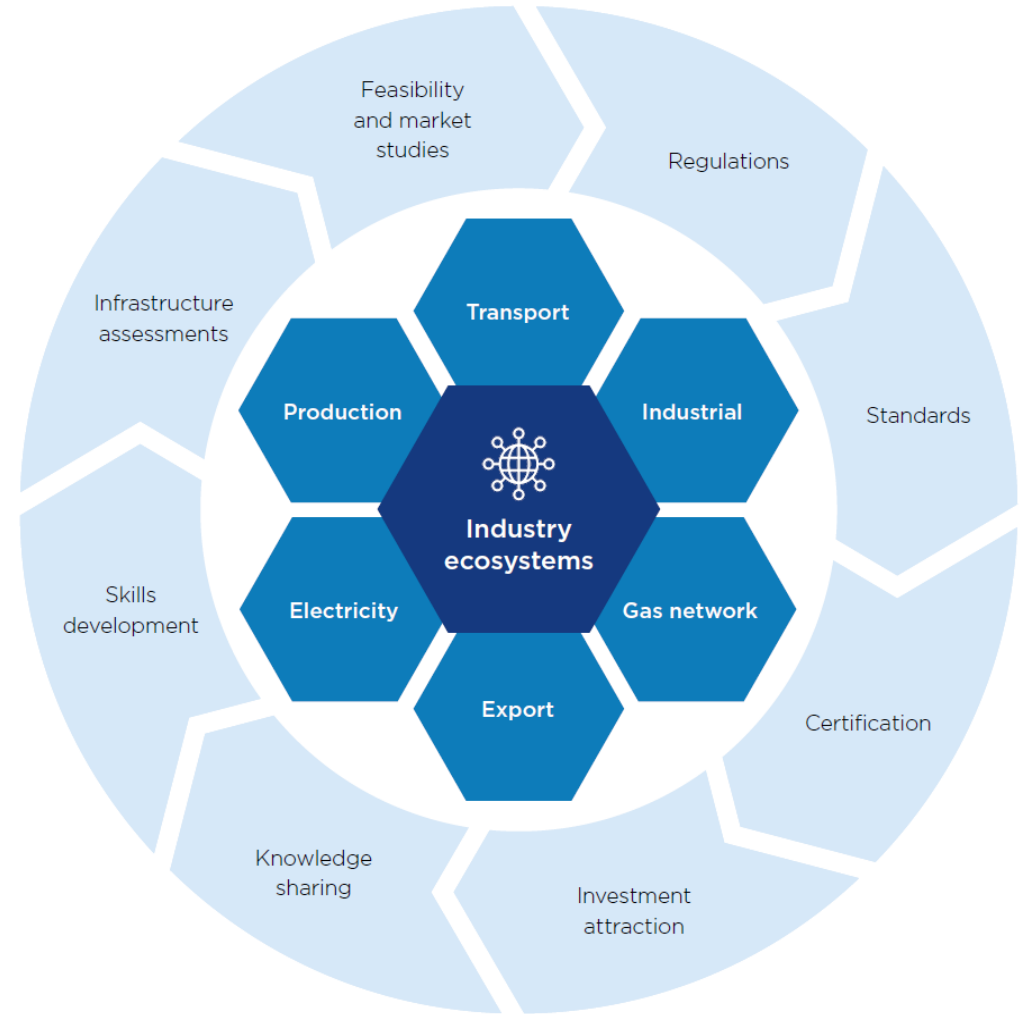




Enable industry development

Key actions under this pillar include:

- A state-wide strategic hydrogen infrastructure masterplan
- Strategic planning and port infrastructure assessments
- Hydrogen-ready regulatory frameworks
- Skills development
- Hydrogen innovation

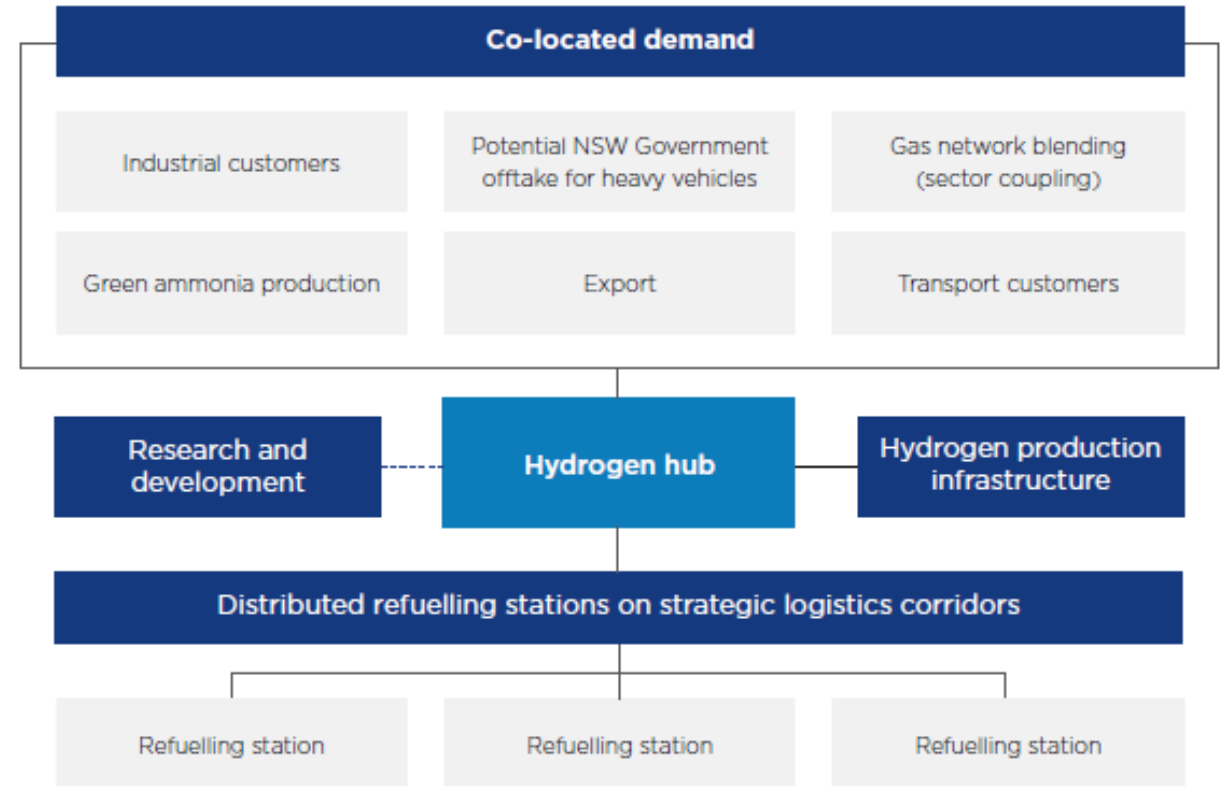




Lay industry foundations

Key actions under this pillar include:

- Investing \$70 million to establish hydrogen hubs, starting with the Hunter and Illawarra regions
- Provide funding support to roll out a hydrogen refuelling network along key freight routes across NSW
- Developing precinct decarbonisation roadmaps to guide industry planning and investment out to 2030
- Supporting foundational hydrogen offtake at the new gas/green hydrogen powered Tallawarra B Power Station

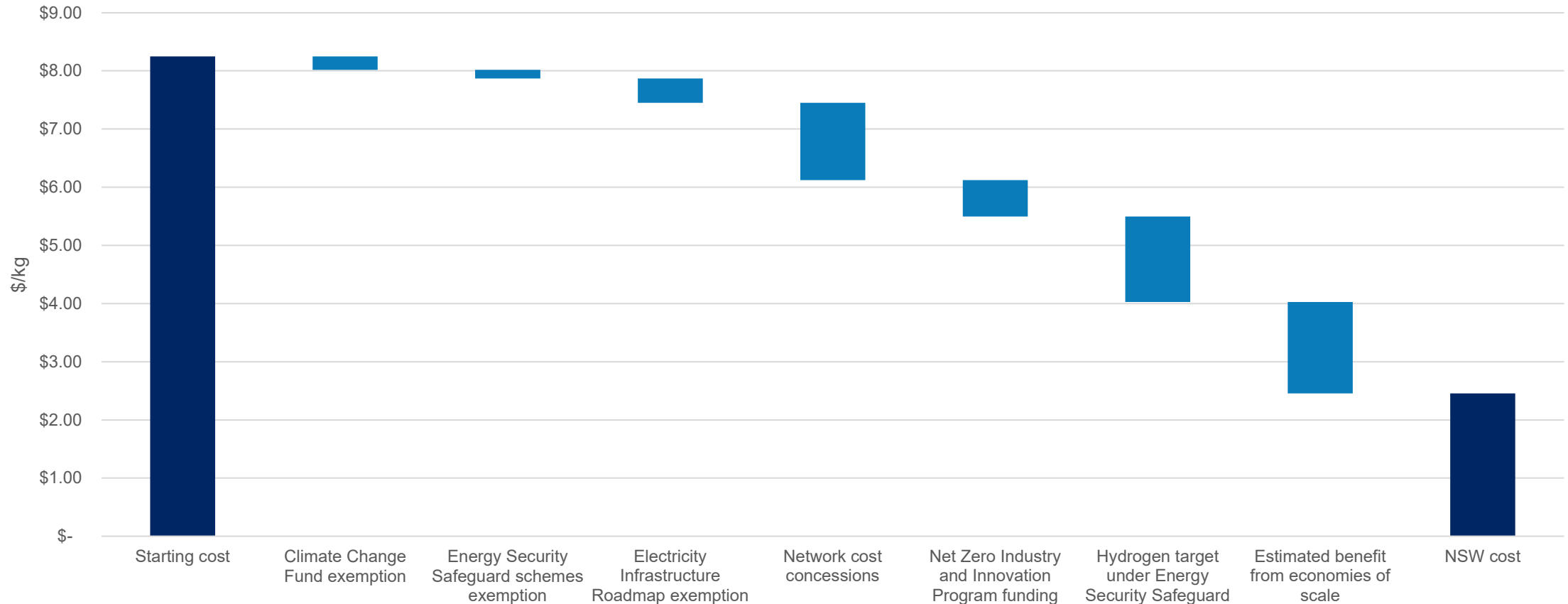




Drive rapid scale










- **Network charge concessions**—90% discounts on network charges for up to 750 MW electrolyser capacity installed in areas with existing network spare capacity by 2030 for a period of 12 years.
- **Electricity scheme exemptions**—provide green hydrogen production with exemptions from charges for the NSW Energy Savings Scheme, Peak Demand Reduction Scheme, Electricity Infrastructure Roadmap and GreenPower program.
- **Setting a hydrogen target in the Energy Security Safeguard**—extending the Energy Security Safeguard to provide financial incentives for green hydrogen, with targets gradually increasing to 67,000 tonnes (or 8 million GJ) by 2030.
- **Supporting transformative industrial projects**—funding support under the Net Zero Industry and Innovation Program for major industrial projects delivered this decade.
- **Market engagement model**—periodically engaging with the market to identify and aggregate emerging sources of hydrogen demand and providing funding support for the competitive supply of hydrogen to these consumers.
- **NSW Government heavy vehicle fleet**—20% target to put 1,800 heavy vehicles on the road by 2030, creating demand for 10,000 tonnes p.a. or 70 MW electrolyser capacity.

Strategy impact on cost of hydrogen





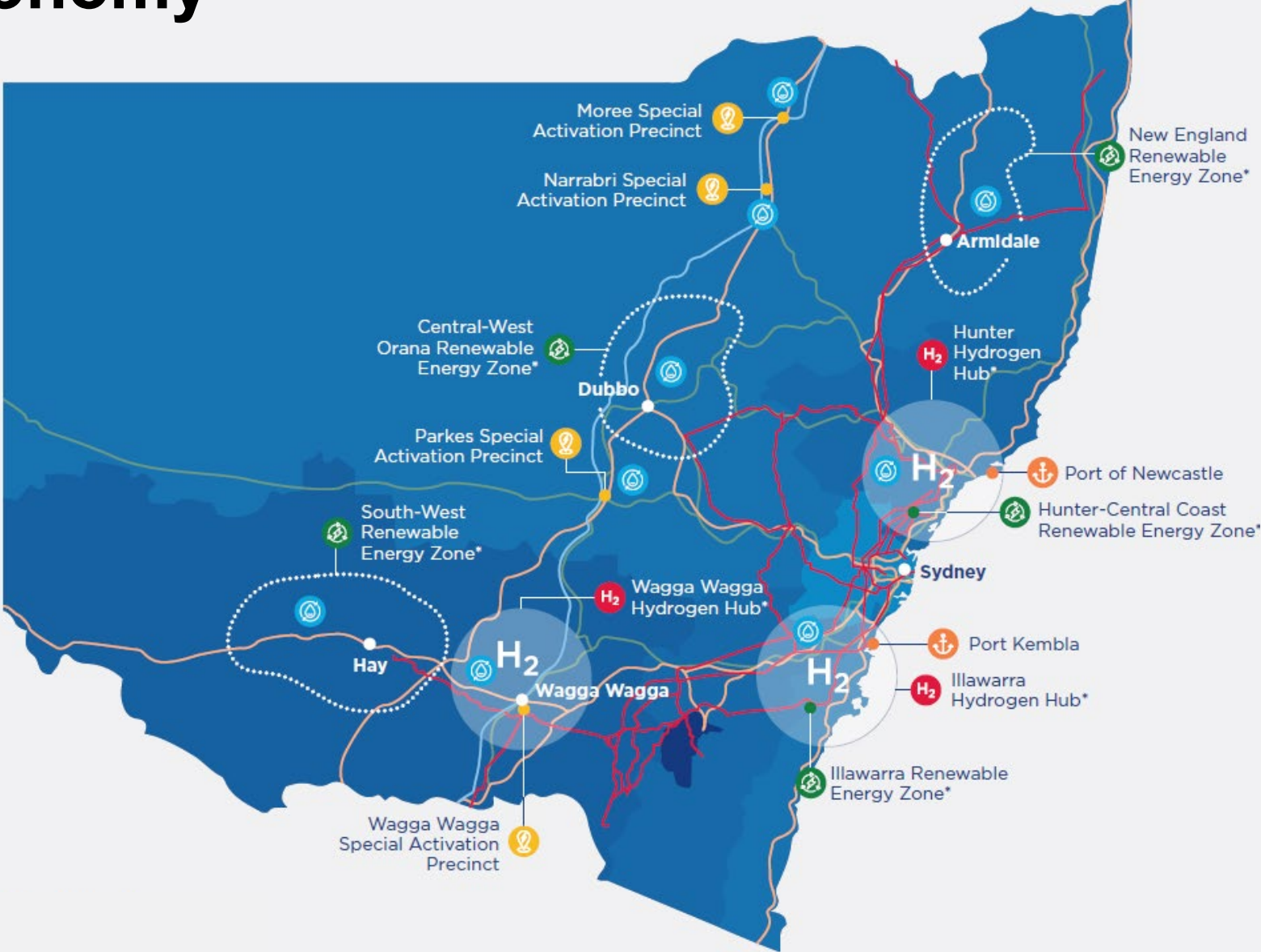
NSW hydrogen economy

Map legend

-  Hydrogen Hub
-  Renewable Energy Zone
-  Port
-  Special Activation Precinct
-  Licensed waste water treatment
-  Strategic road freight corridors for hydrogen refuelling network
-  Key rail freight routes
-  Inland Rail
-  High voltage transmission network

Annual hydrogen production capacity from waste water (Mt)

 Location	Mt	 Location	Mt
Moree	0.6	Hay	0.6
Narrabri	0.1	Wagga Wagga	1.2
Armidale	0.6	Hunter	8.8
Dubbo	0.7	Illawarra	11.7
Parkes	0.6		



Collaboration platform

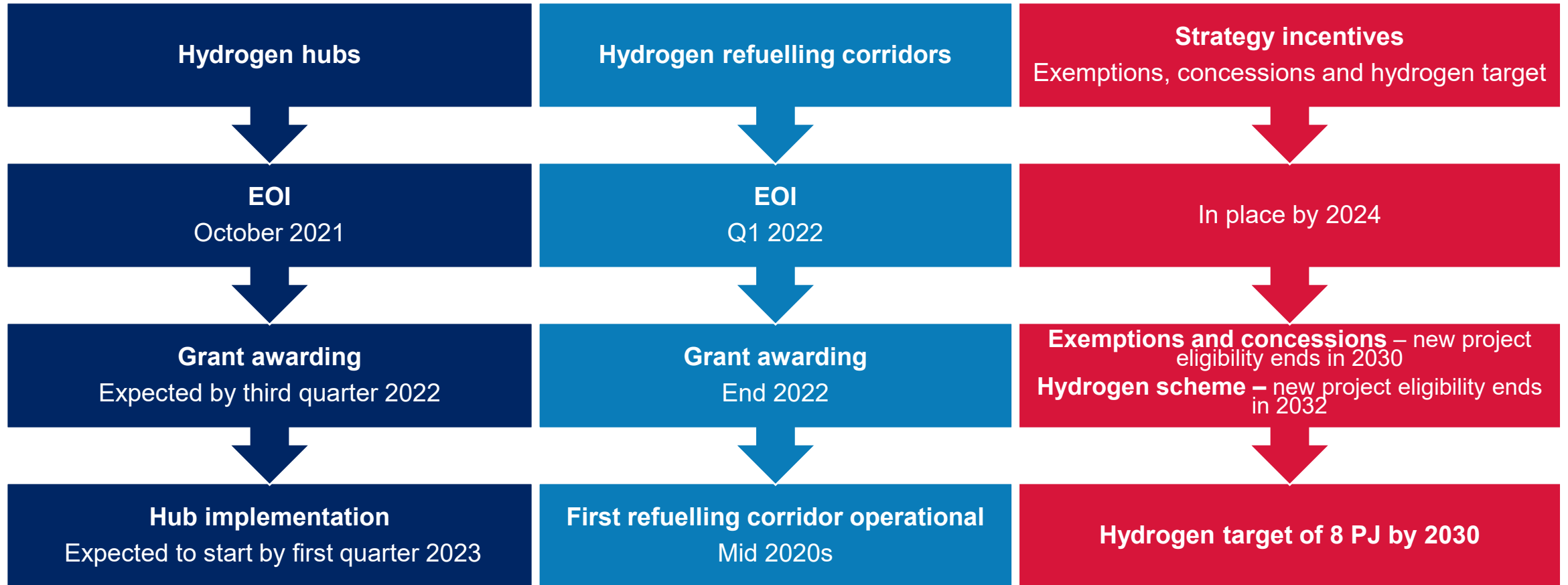
We have launched a digital platform to drive collaboration on hydrogen in NSW and facilitate connections between hydrogen projects and consumers.

Please contact the department at hydrogen@planning.nsw.gov.au if you would like to access this portal.

The screenshot displays the 'NSW hydrogen collaboration platform' website. The navigation bar includes links for 'Homepage', 'Challenges', 'All activity', 'User directory', 'Leaderboard', and 'Need help?'. A search icon and buttons for 'Moderate Ideas' and 'Post an Idea' are also present. The main header features the title 'NSW hydrogen collaboration platform' and the subtitle 'An opportunity to connect and collaborate'. The 'Challenges' section is prominently displayed, with filters for 'Archived' and 'Closed', and a 'Sort challenges: Default' dropdown. Three challenge cards are visible:

- Hunter hydrogen hub**: This challenge has been set up for you to discuss projects located in the Hunter region for the upcoming hubs Initiative later in the.. (1 idea, 0 likes, 0 comments, 1 share)
- Illawarra hydrogen hub**: This challenge has been set up for you to discuss projects located in the Illawarra region for the upcoming hubs Initiative late... (1 idea, 0 likes, 0 comments, 1 share)
- Hydrogen refuelling corridors**: This challenge has been set up for you to discuss considerations for the rollout of a distributed hydrogen refuelling network... (0 ideas, 0 likes, 0 comments, 0 shares)

Timeline of NSW Hydrogen Strategy initiatives





DPIE Hydrogen team

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Department of Planning, Industry and Environment