



Inquiry into the development of a hydrogen industry in New South Wales

Terms of Reference

That the Standing Committee on State Development inquire into and report on the current state of, and opportunities for, the development of a hydrogen industry in New South Wales, and in particular:

1. The size of the economic and employment opportunity created by the development of a hydrogen industry in NSW, in particular those opportunities for regional NSW, including having regard to:
 - (a) the emerging domestic and international trends in the production and demand for hydrogen, including in South Korea, the Netherlands, Japan and other Australian states and territories; and
 - (b) NSW's existing and potential linkages to those markets.
2. The State's existing hydrogen capabilities, including:
 - (a) NSW's research and development capacity for all elements of the hydrogen supply and demand chain, including existing research and development work of the Government, academic and private sector; and
 - (b) The State's energy and industrial infrastructure which could support the production, storage, distribution, use and export of hydrogen.
3. The capacity of and barriers to NSW becoming a major production, storage and export hub for hydrogen, including NSW's capacity to:
 - (a) develop and commercialise hydrogen technologies;
 - (b) manufacture and export hydrogen production componentry, including electrolysis componentry;
 - (c) manufacture and export hydrogen storage and transport infrastructure, including in heavy transport and shipping vessels;
 - (d) generate green hydrogen through renewable energy sources;
 - (e) use hydrogen for transport;
 - (f) use hydrogen in its own industrial processes, such as in steel, aluminium and chemical production;
 - (g) use hydrogen for electricity generation, including the feasibility of retrofitting existing and proposed electricity generation assets to use hydrogen; and
 - (h) manage the safety and safeguarding of hydrogen utilisation.

4. The economics of hydrogen's use in different sectors of the economy, including emerging opportunities to use hydrogen in industrial processes and as a feedstock.
5. The infrastructure, technology, skills, workforce capabilities and other things needed to realise the economic opportunities of hydrogen as and when it becomes commercial in different sectors of the economy.
6. The actions needed of the public and private sectors, to support the development of a hydrogen industry in NSW and to realise the associated economic opportunities, including actions to manage any safety risks in the hydrogen industry.
7. The potential for jobs in New South Wales, both directly in the hydrogen industry and in other industries powered by hydrogen.
8. Any other pertinent matters the Committee wishes to draw to the Government's attention in this regard.

Committee membership

The Hon Catherine Cusack MLC**	Liberal Party	<i>Chair</i>
Hon Mick Veitch MLC	Australian Labor Party	<i>Deputy Chair</i>
Hon Mark Banasiak MLC	Shooters, Fishers and Farmers Party	
Hon Wes Fang MLC	The Nationals	
Hon Sam Farroway MLC*	The Nationals	
Hon John Graham MLC	Australian Labor Party	
Hon Natasha Maclaren-Jones MLC	Liberal Party	
Hon Taylor Martin****	Liberal Party	
Hon Mark Pearson MLC	Animal Justice Party	
Mr David Shoebridge MLC ***	The Greens	

* The Hon Sam Farroway MLC replaced the Hon Taylor Martin MLC as Chair of the committee on 17 February 2021 (*Minutes*, NSW Legislative Council, 17 February 2021, p 1936)

** The Hon Catherine Cusack MLC replaced the Hon Sam Farroway MLC as Chair of the committee on 15 March 2021 (*Minutes*, NSW Legislative Council, 16 March 2021, p 1994)

*** Mr David Shoebridge MLC is a participating member for the duration of the inquiry

**** The Hon Taylor Martin MLC is a participating member for the duration of the inquiry.