

AUSTRALIA'S NATIONAL **HYDROGEN** STRATEGY



Australia's hydrogen Guarantee of Origin scheme

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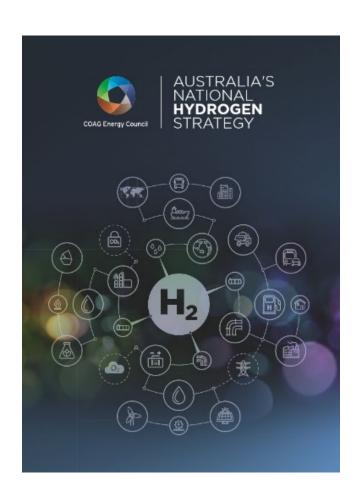
industry.gov.au/hydrogen

What is a Guarantee of Origin scheme and why do we need one?



- Provides consumers with information on the carbon emissions associated with production of hydrogen
- Facilitate efficient trade of hydrogen
- Support project commercialisation

A Guarantee of Origin Scheme for Australia



- GO scheme is an early priority action item in the National Hydrogen Strategy
- Alignment of domestic scheme to international developments is critical
- GO will transparently track important attributes of hydrogen to facilitate consumer choice
- Focused on developing a consistent approach to emissions accounting
 - Countries to set own definitions of 'green' or 'low emissions' hydrogen

Australia's journey so far

November 2019

National Hydrogen Strategy released

- Certification scheme identified as a priority action item
- Global scheme ideal
- Scheme should track:
 - Production technology
 - Location
 - GHG emissions

Nov 2019

September 2020 *Consultation workshop*

Workshop to further explore high level views

December 2021 *Hydrogen GO Trials*

Trials will run for 18 months

Dec 2021

Ongoing – International engagement

Ongoing – Technical consultant engagement

July 2021

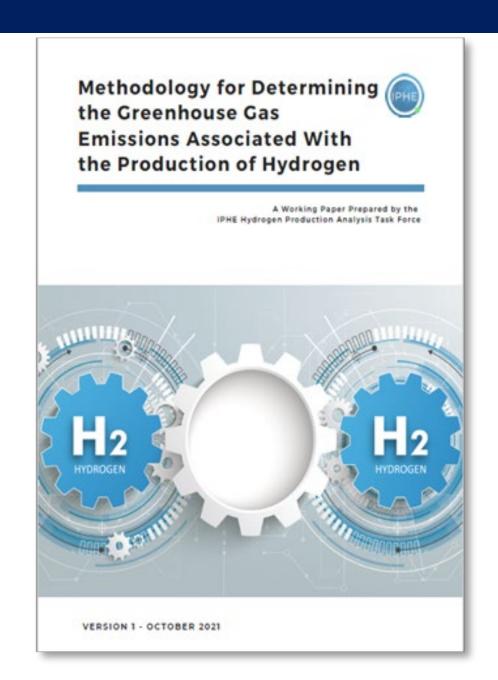
Discussion paper released

June 2020
Initial consultation survey

 Online survey to gauge high level views on an approach to hydrogen certification

International collaboration on carbon accounting methodologies for hydrogen

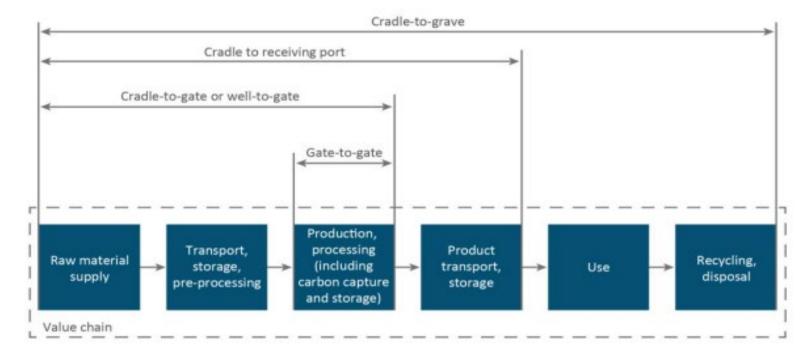
- Australia playing a leading role in the IPHE Hydrogen Production Analysis taskforce
- First working paper released in October 2021
 - Covers a well-to-gate boundary
 - Emissions accounting approaches for four main production pathways
 - Steam Methane Reformation with CCS
 - Coal Gasification with CCS
 - Electrolysis
 - By-product hydrogen



Next steps: International collaboration

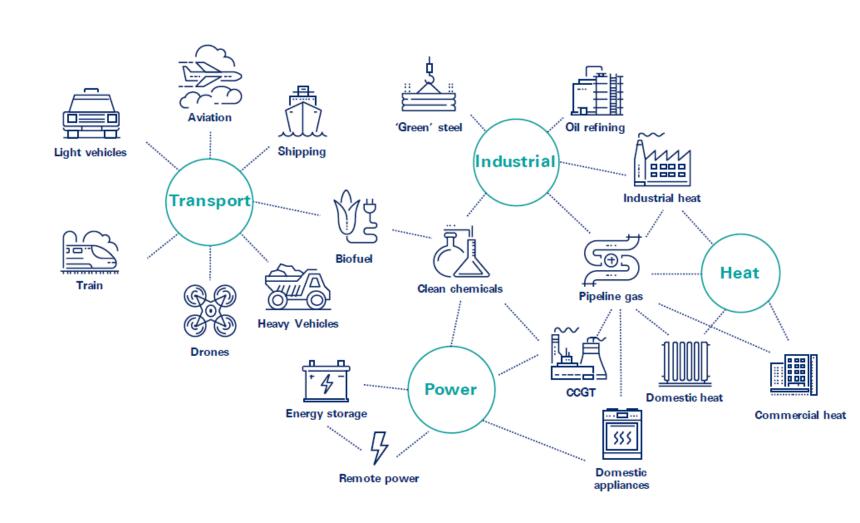
- IPHE methodology work extended to include:
 - Hydrogen energy carriers
 - Well to receiving port boundary
- IPHE are working with ISO to explore development of formal international standard





Next steps: Hydrogen certification trials

- Hydrogen GO trials launched
 December 2021
- Test and refine carbon accounting methodologies
- Engage with consumer markets on their needs for the GO scheme





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Thank you

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