



R&D Needs for Australia's H₂ Export Industry Workshop Objectives & Agenda

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R&D for H₂ Export Workshop: Welcome



Australian Resources Research Centre (ARRC)



WELCOME

- Over 54 participants registered
- International speakers : Germany, UK, Korea
- Attendees & speakers from around Australia
- Strong industry representation
- Workshop facilitators & helpers

REFRESHMENTS, FACILITIES & BREAK-OUT

- Bathrooms: turn right just before main entrance (leaving)
- Morning Tea in Reception Area
- Lunch & Afternoon Activities in Café Area
- Helpers will be at door for post 5 pm exit

IN CASE OF EMERGENCY

- Evacuation required with alarm
- Exit through reception doors
- Do not use lifts
- Proceed to Assembly Area A
- Remain in car park until “all clear” is given by staff

Workshop Agenda



Time	Activity	Speaker	Organisation
8:30	Welcome & Workshop Objectives	Prof Eric May	UWA
8:45	LNG Futures Facility	Prof Eric May	UWA
9:00	CSIRO H2 Roadmap	Dr Nick Burke & Dr Sam Bruce	CSIRO
9:30	CRC Future Fuels	Dr Klaas van Alphen	CRC Future Fuels
10:00	Morning Tea		
10:15	German Perspective & Experience	Prof Roland Span	Ruhr University Bochum, Germany
10:45	Technology gaps for utility scale hydrogen production	Ms Rachelle Doyle	Woodside
11:15	Renewable H2 & H2 Carriers as Clean Transport Fuels	Prof Dongke Zhang	UWA
11:45	Clean H2 from Natural Gas	Dr Andrew Cornejo	Hazer
12:15	Summary	Prof Eric May	UWA
12:30	Lunch		
13:30	H2 R&D for Korean Ship Builders	Dr Sangmin Park & Ms Oh	Hyundai Heavy Industries
14:00	H2 Research at Curtin	Prof Craig Buckley	Curtin
14:30	UK Perspective and Experience	Prof Martin Trusler	Imperial College, London
15:00	H2 Export R&D Break-out	All	
15:30	Afternoon Tea		
16:00	Collation & prioritization	All	
16:15	Next steps	All	
16:30	Close & drinks		

Workshop Objectives



Objectives

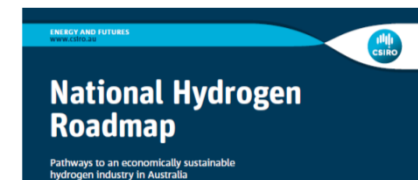
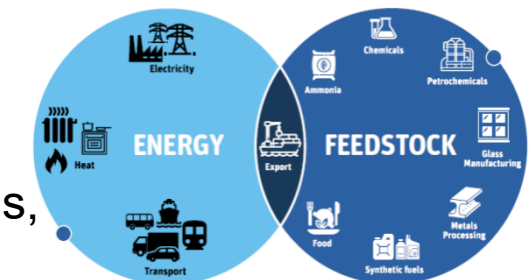
1. Understand driving forces, current efforts, & future plans for H₂ R&D in Australia and internationally.
2. Learn about initiatives for accessible, industrial-scale R&D facilities for validating technologies operating at high-pressures and/or cryogenic temperatures.
3. *Develop industry-led R&D plan for H₂ Exports that leverages & complements existing initiatives without duplication*

Approach

- a) Listen to speakers summarise current situation & future plans, thinking about what's most important & what's missing.
- b) Construct set of R&D priorities to enable & accelerate H₂ Export: consider what, why & how for each priority → ranking
- c) Develop list of R&D infrastructure requirements which will allow priorities to be addressed: need, cost & compatibility → ranking



APPLICATIONS FOR HYDROGEN



Workshop Outcomes



Summary Report

- Workshop overview & speaker slides
- Set of R&D Priorities for H₂ Export
- List of R&D Infrastructure Requirements

Options for Technical Implementation

- Appropriate locations for prioritized infrastructure
- Identify synergies with LNG Futures Facility
- Incorporation into LNG FF Phase 2 – FEED



<https://hydrogenenergysupplychain.com/>

Funding Strategy

- Evaluate CRC Options
- Identify alternative/complementary government support (State & Federal)
- Secure industry commitments