

## Future Energy Exports Annual Conference 11 & 12 May, Adelaide Convention Centre

*Develop, de-Risk, decarbonise this decade and beyond*

### CONFERENCE PROGRAM

#### Thursday 11 May 2023

08:00-08:30	Registration, Adelaide Convention Centre	
08:30-08:40	Robert Taylor	<i>Welcome to Country</i>
08:40-08:50	Mary Hackett, FEnEx CRC Chair	<i>Conference Opening</i>
<b>National and International Priorities – Conference Chair Susie Smith, NED</b>		
08:50-09:10	Alan Finkel, Corporate Advisor	<i>Keynote: Electrons and molecules</i>
09:10-09:30	Brad Archer, Climate Change Authority	<i>Net zero emissions (and beyond): challenges and opportunities</i>
09:30-09:50	David To, PwC	<i>Government policies and the link to decarbonisation opportunities</i>
09:50-10:10	Paul Everingham, ANGEA	<i>International Partners and Customers</i>
Morning Tea		
<b>Industry Priorities – Conference Chair Jon Loraine, NED</b>		
10:50-11:10	Brendan Beck, APPEA	<i>Delivering Energy and Technology for Net Zero: Australia in a Global Context</i>
11:10-11:30	Cameron Fairlie, ARUP	<i>A technical, economic and environmental assessment of clean marine fuel options and industries for Australia</i>
11:30-11:50	Yutaek Seo, Seoul National University	<i>Phase behaviour of CO<sub>2</sub> in transportation networks: shipping vs pipeline</i>
11:50-12:10	Saul Kavonic, Credit Suisse	<i>The beginning of the end of Australian gas?</i>
Lunch		
<b>Workshop – Conference Chair Michael Johns, FEnEx CRC Research Director</b>		
13:00-13:20	Jason Storey, Beach Energy	<i>UHS: potential pathways and key challenges</i>
13:20-13:30	Rod, Harris, Lochard Energy	<i>Forging a pathway to underground hydrogen storage in the onshore Otway Basin</i>
13:30-13:40	David Whittam, CO <sub>2</sub> CRC	<i>Paths to successful UHS demonstration in the Otway Basin</i>
13:40-13:50	Jonathan Ennis-King, CSIRO	<i>Interaction of stored hydrogen with the subsurface environment in depleted gas fields</i>
13:50-14:00	Sam Xie, Curtin University	<i>Storage integrity of UHS in salt caverns and depleted gas reservoirs</i>
14:00-14:20	Elinor Alexander, DEM, SA	<i>South Australian update</i>
14:20-14:40	Underground Hydrogen Storage	<i>Panel Discussion</i>
Afternoon Tea		
<b>Showcase – Conference Chair Neil Robinson, FEnEx CRC Research Fellow</b>		
15:10-15:30	Karamjit Kaur, University of South Australia	<i>Interoperability: the backbone for digital ecosystems</i>
15:30-15:50	Aneeka Patel, Curtin University	<i>Sodium borohydride for solid-state green hydrogen export</i>
	Mark Barwood, The University of Western Australia	<i>Solids freeze out in cryogenic liquefaction processes</i>
15:50-16:30	3 Minute Thesis Comp. Finalists	<i>Final videos and audience voting</i>
16:30-16:50	Eric May, FEnEx CRC CEO	<i>End of day wrap-up</i>
18:00-23:00 Gallery Tour, Conference Dinner and Entertainment, Art Gallery of South Australia		

POSTER FORUM

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#### Friday 12 May 2023

08:00-08:30 Registration, Adelaide Convention Centre

#### National Energy Transition Challenges - Conference Chair Mary Hackett, NED

08:30-08:50	Damian Dwyer, Low Emissions Technology Australia	<i>The role of low emission technology in a cleaner energy future</i>
08:50-09:10	Michael Brear, University of Melbourne	<i>Net Zero Australia</i>
09:10-09:30	Robert Perrons, Queensland University of Technology	<i>The Know-How Behind Net-Zero: The Importance of Skills and Capabilities in Achieving Australia's Energy Exports Ambitions</i>
09:30-10:20	Ellen Tyquin, Queensland University of Technology	<i>Research directions from Net Zero Australia and beyond: Social licence, skills, training and regulations</i>

Morning Tea

#### Technology - Pete Di Bona, NED

10:40-11:00	Gerry Swiegers, Hysata	<i>A High-Performance Electrolysis Cell Promises More Cost Competitive Renewable Hydrogen</i>
11:00-11:20	Dongke Zhang, The University of Western Australia	<i>Challenges in Decarbonising Ironmaking and Opportunities for Australian Future Energy Export</i>
11:20-11:40	Ali Yavari, Swinburne University of Technology	<i>Victoria Hydrogen Hub and Renewable Hydrogen Plant Digitalisation</i>
11:40-12:00	Ian McKinnon, Queensland University of Technology	<i>Hybrid energy systems: technologies to embrace for the future</i>
12:00-12:20	Martin Trusler, Imperial College London	<i>Understanding the physical properties for de-risking CCS projects</i>

Lunch

#### Collaborative Response - Eric May, FEnEx CRC CEO

13:00-13:20	Shannon O'Rourke, Future Battery Industries CRC	<i>United we stand – collaboration and Australia's green energy future</i>
13:20-13:40	Gus Nathan, Heavy Industry Low-Carbon Transition CRC	<i>De-risking decarbonisation for Heavy Industry</i>
13:40-14:00	Nicholas Mumford, South Australian Hydrogen Hubs	<i>Collaboration in the hydrogen industry</i>
14:00-14:20	Simona Chady, Luth Eolas Pty Ltd	<i>Kwinana Energy Transformation Hub</i>
14:20-14:40	Keelan O'Neil, The University of Western Australia	<i>Hydrogen Pathways: a tool for analysing costs and emissions of hydrogen supply chains</i>
14:40-15:00	Eric May, FEnEx CRC CEO	<i>FEnEx CRC Research Priorities 2023 and beyond</i>

*Conference Close, Safe Journey Home*

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