

2022 Energy in WA Conference Program

*Subject to change

Thursday, 25th August 2022

Time	Session
8:00	Conference registration and arrival tea & coffee
8:40	Conference opening Speaker: Caren McLaren, AIE Chair
8:45	Welcome to country Speaker: Barry McGuire, Balladong Wadjuk, Nyungar Representative
8:50	Day 1 MC introduction Speaker: Mena Gilchrist
9:00	MC introduces Minister
9:05	Ministerial address Speaker: Hon Bill Johnston, Minister for Mines and Petroleum, Energy and Corrective Services
	International - changes and trends in energy
9:30	Whither China's energy policy? security of supply vs low-carbon transition Speaker: Philip Andrews-Speed, Energy Studies Institute, National University of Singapore Synopsis: China's government is caught between two priorities, at least in the short term: securing energy supply and driving the low-carbon energy transition. China has made great progress in manufacturing and deploying low-carbon energy technologies of different types, and taking steps to constrain rising fossil fuel consumption, especially of coal. In late 2020, Xi Jinping committed to peaking carbon emissions by 2030 and

	<p>striving to reach carbon neutrality by 2060. However, concerns over energy security were already growing. This was due, at that time, to the deterioration of relations with the United States and Australia. These concerns were later exacerbated, first, by a domestic energy crisis in late 2021 and, second, by the conflict in Ukraine. As a result, China's coal consumption continues to rise, not least due to the desire to boost short-term economic growth. It is likely, but by no means certain, that this is a temporary phenomenon and that the country will return to its previous low-carbon trajectory. The accelerating rate of installation of renewable energy may support this conjecture.</p>
10:00	<p>International gas trends Speaker: Peter Lambert, Partner, McKinsey and Company Synopsis: Global LNG markets have been on a roller coaster ride over the past few years as the downcycle linked to COVID-19 was quickly followed by a strong recovery and then the effects of the war in Ukraine. What's the outlook for LNG supply and demand over the next few years as the market finds its way to a balance? And what role does LNG have in a decarbonising world?</p>
10:30	<p>Morning tea</p>
	<p>Australia</p>
11:00	<p>Politics and policy in Australia's energy transition Speaker: Tony Wood, Director, Grattan Institute Synopsis: For more than a decade, the climate war has meant that politics and policy have been misaligned – basically good policy has not played to successful politics. There are reasons for optimism that the wind of opportunity might have opened in mid-2022. The test for the new federal government will be whether they can affect a substantial policy outcome with some chance of lasting. The early signs give reason for optimism, but these windows can close again all too quickly.</p>
11:30	<p>Natural gas in WA and the pathway to decarbonisation. Speaker: Tony Cudmore, Senior Vice President Strategy & Climate, Woodside Energy Synopsis: Western Australia is an energy intensive economy. Gas will play an important role on the path to carbon neutral. Tony Cudmore will outline the importance of gas in meeting current and future energy needs and Woodside's pathway to net zero.</p>
12:00	<p>Resources and the global downturn Speaker: Paul Bloxham, Chief Economist, HSBC Synopsis: Global growth is slowing and the risk of a global recession is rising. Inflation has picked up to multi-decade highs and the world is in the midst of an energy crunch. Central banks are responding with rapid fire interest rate rises, which is also set to slow growth. For resource</p>

	producers, demand for products is high as are prices, but navigating a slowing global economy, geopolitical uncertainties and the energy transition is creating a unique set of challenges.
12.30	Lunch sponsored by GHD
1:30	<p>The decarbonisation journey Speaker: Dr Mary Stewart, Chief Executive Officer, Energetics Synopsis: All jurisdictions face the challenges of a decarbonisation journey. What lessons can we learn from others, who is doing it well and what looks attractive for Australia?</p>
1:55	<p>Investment drivers for decarbonisation Speaker: Richard McKenzie, Head of Strategy, WA Treasury Corporation Synopsis: Carbon regulation and Environmental, Social and Governance (ESG) investors and consumers in export markets are shaping the strategic agendas of companies operating in WA. Mr McKenzie will explain how these trends are influencing the WA economy and providing impetus for decarbonisation and clean energy.</p>
2:20	<p>What is the role of battery storage in Australia's future? Speaker: Mary Hendriks, Battery Storage Consultant and Electric Vehicle Advocate, GoBizGreen Synopsis: Battery energy storage systems (BESS) will be an important enabler in Australian grids and will play a fundamental role in renewable energy zones, distributed systems and regional areas. Community batteries are increasingly popular, and Mary will look at the uptake of these, as well as the Ups and Downs of more connection of electric vehicles to the grid.</p>
2:45	Afternoon tea
	Western Australia
3:15	<p>Supporting decarbonisation and economic development Speaker: Jai Thomas, A/Coordinator of Energy, Energy Policy WA Synopsis: WA's energy markets and institutions need to support clean energy and energy efficiency to maintain WA's global competitiveness, meet emissions reduction targets, and keep pace with community expectations. Mr Thomas will outline the role of modern policy interventions in driving change in the electricity sector, managing risks, and ultimately getting us to zero.</p>

3:40	<p>Renewable energy developments Speaker: Greg Ruthven, Associate Director, Rennie Partners Synopsis: With world class renewable energy resources and a bipartisan commitment to zero emissions by 2050, WA is well placed to lead the global transition to a renewable energy future. Greg Ruthven will discuss the latest renewable energy projects in WA, project opportunities over the short-medium term, key trends to watch, and the best approach to navigating regulatory hurdles.</p>
4:05	<p>Decarbonisation and digitalisation of regional energy systems Speaker: Stephanie Unwin, Chief Executive Officer, Horizon Power Synopsis: Horizon Power is at the forefront of the energy transition, delivering cleaner greener energy solutions for regional and remote communities with batteries, solar, renewable hydrogen, and distributed energy resources (DER). But what will it take to reduce carbon emissions by 80% by 2030? Horizon Power CEO Stephanie Unwin will share the industry leading work the company is delivering to reduce carbon emissions and deliver better outcomes for our environments, customers, and communities.</p>
4:30	<p>Are we overselling hydrogen? Speaker: Tom Baxter Synopsis: Hydrogen is ubiquitous in the scientific and general media. It is often described as a wonder fuel. This seminar will question whether hydrogen is being over-sold. Hydrogen's role in delivering net zero in the UK will be critiqued and compared with other low carbon energy pathways.</p>
4:55	<p>MC closing remarks</p>
5.00	<p>Day close</p>
6.00	<p>Energy in WA awards and conference dinner sponsored by Synergy <i>Frasers Kings Park</i></p>

CONFERENCE DAY 2: Friday, 26th August 2022

Time	Session
7:00	Women in energy and young energy professional's breakfast Empowering everyone: diversity in the future of renewables
8:30	Conference registration and arrival tea & coffee
9:00	Day 2 MC introduction Speaker: Jai Thomas, A/Coordinator of Energy, Energy Policy WA
	Energy trends in the big end of town
9:05	Natural gas in the energy transition Speaker: Martin Wilkes, Managing Director, RISC Synopsis: The Western Australian economy has been well served by abundant supplies of natural gas and favourable reservation policies. These have led to an energy intensive economy. What role will gas play in the transition to lower emissions?
9:30	Mining sector decarbonisation Chair: Kylie Turner, Climate Works <ul style="list-style-type: none"> • Louis Kent, South 32 • James Koerting, Manager: Energy, Goldfields • Rob Wilson, Executive Director, CEFC Synopsis: The mining and mineral processing sectors face a major challenge in decarbonisation while retaining international competitiveness. Hear from four large companies as they outline the journey and targets, they aim to achieve.
10:25	Morning tea
	Electricity system and network management

10:50	<p>Managing the electricity system in transitional times Speaker: Kate Ryan, Executive General Manager WA & Strategy, AEMO Synopsis: Managing the electricity system under increasingly challenging conditions has been the impetus for significant reform over the previous three years. Kate Ryan will discuss how we are going in meeting this important challenge, the role that reforms to-date have played, lessons from other electricity systems, and what is needed for managing the system over the short-medium term.</p>
11:15	<p>Network transformation Chair: Steve Edwell, Chair, Economic Regulation Authority Speakers:</p> <ul style="list-style-type: none"> ● Sam Barbaro, A/Chief Executive Officer, Western Power ● Tamatha Smith, General Manager Corporate Affairs, Energy Networks Australia ● Bryn Williams, Network Strategy Manager, SA Power Networks <p>Synopsis: There is universal agreement that electricity and gas networks require rapid change to support the new and emerging technologies that are changing the lives of consumers and allowing our system to better respond to the greening of the economy. The panel will discuss the best ways to bring about this change, taking into account the current regulatory environment and the many uncertainties still before the sector.</p>
12:15	<p>Process for optimal system transformation Speaker: Mark Paterson, Managing Director, Strategen Synopsis: The power systems of the 20th century were large and complex systems. In the 21st century, technology transformation, digitisation, mass customer participation and climate imperatives are driving exponentially greater dynamics and complexity. In this context, Mark will present on how Power System Architecture disciplines developed globally can support the design and execution of Western Australia's leading grid transformation efforts in a manner that integrates customer, technology, business model and regulatory perspectives.</p>
12:40	<p>Lunch sponsored by Collgar Wind Farm</p>
	<p>Opportunity through technology</p>
1:40	<p>Electric vehicles - bridging the gap Speaker: Ross De Rango, Head of Energy and Infrastructure, Electric Vehicle Council</p>

2:05	<p>Co-located industry technologies- Role of Hubs Speaker: Allison Hortle, Research Group Leader, CSIRO Synopsis: There is growing global interest in the concept of integrated, multi-user low emissions industrial hubs. There are a number in development around the world, designed to optimise the energy transition through integration of hydrogen technologies, CCS, renewable energy and low carbon products. There are also opportunities for Australia and Western Australia, taking advantage of our abundant natural resources, to develop similar concept. We'll have a quick look at one or two of the most advanced global hubs and briefly discuss one of the Australian projects, the NT Low Emissions Hub.</p>
2:30	<p>WA node head- RACE for 2030 - \$300million budget Speaker: Genevieve Simpson</p>
2:55	<p>Afternoon tea</p>
	<p>Decarbonisation</p>
3:20	<p>Natural gas for net zero Speaker: Andrew Harpham, Director, Frontier Economics Synopsis: The transition to net zero emissions will require substantial change in the generation mix in Western Australia, with renewables and storage expected to replace coal and gas generation. However, gas generation can play an important role in this transition. Andrew discusses the role that natural gas can play in unlocking high levels of renewable generation, and the reductions in costs that can be achieved for the electricity system.</p>
3:45	<p>Sustainable generation Speaker: Angie Young, General Manager Sustainability, Synergy Synopsis: The transition to a decarbonised energy system requires a creative, multifaceted approach to meet customer needs and net zero emissions by 2050. Integrating large scale renewable energy development, connecting DER and exploring innovative opportunities is just part of the story. Applying an ESG or sustainability approach also enables value creation for the people, the community and contract partners, ensuring long term benefits for future generations.</p>
4:10	<p>What's happening in our carbon market?</p>

	<p>Speaker: Jo Garland, Partner and Energy Transition Lead, Holman Fenwick Willan</p> <p>Synopsis: In the last year there has been a surge in demand for Australian Carbon Credit Units (ACCUs) thanks to an increasing number of companies pledging to reach net-zero. This is having positive influences, such as Australia looking to launch its very own Australian Carbon Exchange by 2023. But are ACCUs really a silver bullet? In March 2022, there were explosive allegations by the former Chair of the Emissions Reduction Assurance Committee about ACCUs being issued in 'fraudulent circumstances'. Further, there has been increased scrutiny around the use of carbon credits as a solution to expansion of heavy emitters. Jo will be considering these matters and what it could mean for businesses, including explaining the proposed carbon exchange.</p>
4:35	<p>Efficiency and demand flexibility</p> <p>Speaker: Holly Taylor, Head of Projects, Energy Efficiency Council</p> <p>Synopsis: Holly will step-out the grid-scale and market benefits of energy management including demand flexibility and energy efficiency to support the decarbonisation challenge.</p>
5:00	<p>Closing remarks by Murray Meaton, conference chair</p>
5:00	<p>Event close and drinks sponsored by Western Power</p>