



# SUSTAINABLE FUELS SYMPOSIUM

## PROGRAM & SPEAKERS



Powerfuels  
including Hydrogen  
Network  
DECARB HUB

**PFHN Sustainable Fuel Symposium – Tuesday 19 November 2024**

**Venue: Colombo Theatre**

<b>Time</b>	<b>Agenda Item</b>	<b>Speaker(s)</b>
<b>13:00</b>	<b>Tour to research showcase/facilities</b> (SHINE 3.0 and H2Cuts)	
<b>14:00</b>	Welcome <ul style="list-style-type: none"> <li>- Acknowledgement of Country</li> <li>- Housekeeping</li> </ul>	James Christian
<b>14:05</b>	<b>Setting the scene - SAF</b> <ul style="list-style-type: none"> <li>- About PFHN</li> <li>- The need for SAF</li> <li>- Overview of current state of SAF</li> <li>- The ecosystem and value chain</li> </ul>	James Christian and Azrah Samsudeen
<b>14:15</b>	<b>Perspective from NSW Government (bio-SAF)</b> <ul style="list-style-type: none"> <li>- Policies, prospects, and incentives on bioSAF</li> </ul>	John O’Connor (NSW DPI)
<b>14:30</b>	<b>Perspective from NSW Government (eSAF)</b> <ul style="list-style-type: none"> <li>- Policies, prospects, and incentives on eSAF</li> </ul>	Thomas Gao (OCSE)
<b>14:45</b>	<b>Perspective from aircraft manufacturer - Boeing</b> <ul style="list-style-type: none"> <li>- What Boeing has done</li> <li>- What is required from manufacturers</li> <li>- Global partnerships</li> </ul>	Hannah Monaghan (Boeing)
<b>15:05</b>	<b>Break / Afternoon Tea</b>	
<b>15:15</b>	<b>Global SAF Development Projects</b> <ul style="list-style-type: none"> <li>- Overview of Global SAF projects</li> <li>- Risk and Opportunities</li> </ul>	Jack Shepherd (Blunomy)
<b>15:30</b>	<b>Perspective from emerging SAF producer - Licella</b> <ul style="list-style-type: none"> <li>- What is Licella doing</li> <li>- What is required to progress SAF - A producer’s perspective</li> </ul>	Andrea Polson (Licella)
<b>15:45</b>	<b>SAF Technologies and Australia’s strength</b> <ul style="list-style-type: none"> <li>- Overview from CSIRO</li> </ul>	Yunxia Yang (CSIRO)
<b>16:00</b>	<b>Panel discussion – How NSW and Australia can become the pioneer in SAF implementation in the region?</b> <ul style="list-style-type: none"> <li>- Sarah Chambers (NSW DCCEEW)</li> <li>- Hannah Monaghan (Boeing)</li> <li>- Harry Jobberns (Qantas)</li> <li>- Jack Sheperd (Blunomy)</li> <li>- Andrea Polson (Licella)</li> <li>- Yunxia Wang (CSIRO)</li> </ul>	Moderated by Amy Kean
<b>16:55</b>	<b>Closing Remarks</b>	Azrah Samsudeen
<b>17:00</b>	<b>Joint Networking drinks and optional tour to research showcase/facilities</b>	

# John O'Connor

**Dept of Primary Industries  
and Regional Development**

**Energy Research Officer**



John grew up working on a mixed farm at Cootamundra and has worked with NSW DPI Agriculture since 1991 across research extension and natural resource management and energy. The last 5 years he has been working on Energy related projects that focused on energy efficiency and practical ways to decarbonise agricultural production.

This project created the Exploring Beyond fossil Diesel webinar series, which covered alternative machinery options and different ways to power agriculture. It led to an appreciation of the value of Renewable Diesel and other Biofuels as a workable pathway to decarbonise.

He hopes to see local Australian production, before passing away!

# Thomas Gao

**Office of the Chief Scientist & Engineer**



Thomas Gao is a dynamic professional currently serving as the Manager of Policy and Strategic Programs at the NSW Chief Scientist & Engineer Office. He has undertaken a secondment role as the Business Development Manager at the NSW Powerfuel Including Hydrogen Network within NSW Decarbonisation Innovation Hub. With a rich and diverse background, Thomas is a chemical engineer, a certified RegPM project manager, and a seasoned policy expert with a decade of experience spanning industry, government, and research, all centered around the clean economy and cutting-edge technology.

Thomas has played a pivotal role in shaping the landscape of state clean economy policy and initiatives. His leadership has been instrumental in the development of a range of groundbreaking programs, including the NSW Power-to-X initiatives, the Decarbonisation Innovation Program, the NSW 20-Year R&D Roadmap and Program, the NSW Small Business Innovation Program, and the Coal Innovation R&D Program.

Thomas Gao's passion, expertise, and remarkable track record make him a driving force in the realm of clean economy and technology, positioning him as a key player in shaping a sustainable future.

# Hannah Monaghan

## Boeing

### Sustainability Reporting and Governance Lead Australia



Hannah Monaghan is the Boeing lead in Australia for Global Sustainability Reporting and Governance. She has been at Boeing for over two years, starting out in the Government Affairs team engaging with and advocating to all levels of Government across a range of sustainability and defence issues.

Prior to this, Hannah worked as an adviser to the then Federal Minister for the Environment, focused on climate adaptation, international engagement and advising the Minister in her role in Women's Cabinet on justice reforms. She also served as an adviser to the then NSW Minister for Family and Community Services.

Hannah is an organic chemist by training, holding a Bachelor of Medicinal Chemistry from the University of Technology Sydney.

# Jack Shepherd

**Blunomy**

**Manager**



With over 10 years working in the chemical and energy industry as a process engineer and business development manager, Jack has an appreciation for the importance these sectors play in society and the great challenge they face to decarbonise their processes. He is passionate about decarbonising the society to safeguard the future and future generations and believe significant carbon reduction can be achieved within the industrial sector to meet our 2050 net zero target.

# Andrea Polson

## Licella

**General Manager, Stakeholder Engagement  
and Communications**



Andrea Polson is the GM of Stakeholder Engagement and Communication at Licella, where she leads partnerships and strategic communications to drive low-carbon solutions.

Since joining in 2015, Andrea has been instrumental in positioning Licella and its Cat-HTR™ technology as leaders in the global bioeconomy, converting waste into advanced bio-oil for sustainable aviation fuel (SAF), biomaterials and other low-carbon applications.

With over 15 years of experience in sustainability, Andrea is dedicated to enabling decarbonisation through transformative Australian technology and industry-leading partnerships.

# Dr Yunxia Wang

**CSIRO**

**Senior Research Scientist**



Dr Yunxia Yang is a passionate and devoted research scientist. Since her PhD, she has published many high impact articles with high citation and was invited for journal reviews and international conferences. Her research area has primarily spanned from gas separation to catalysis with the focus on novel materials, reactors and processes development for CO<sub>2</sub> utilisation, particularly thermal CO<sub>2</sub> hydrogenation, photocatalytic CO<sub>2</sub> conversion, plasma enhanced CO<sub>2</sub> hydrogenation. She has led and am leading projects in relevant areas. Her research goals are to develop disruptive technologies or novel materials in order to invent new ways for CO<sub>2</sub> utilisation while increaseing process efficiency.

She supervises postdocs, PhD students with local Universities, and postgraduate students, visiting scholars from overseas universities. She also supervises undergraduate students and work experience students to facilitate their career development.

She has strong internal and external engagements in her research areas, developing strategic projects and external projects..



# Harry Jobberns

**Qantas**

**Senior Manager Climate  
Strategy**



Harry is a sustainability professional with a background in corporate strategy, aviation, energy transition, and investment. Currently, Harry is the Senior Manager of Climate Strategy at the Qantas Group where he is responsible for driving decarbonisation and nature strategy and supports the deployment of the Qantas Climate Fund - a \$400 million fund that invests in climate solutions.

Before joining Qantas, Harry worked as a strategy consultant at Strategy& PwC (formerly Booz & Co.), where he worked across the telecommunications, financial services, government, and resources sectors. Harry holds a Bachelor of Law with First Class Honors and a Bachelor of Business (Finance) from the Queensland University of Technology.

# Sarah Chambers

**NSW DCCEEW**

**Senior Project Officer**



Sarah joined the Office of Regional Economic Development, as a Senior Project Officer, for investment attraction across Regional NSW, in December 2020. Sarah comes to this role as an International Trade & Investment specialist with 20 years of experience including both commercial trade development and government relations. Her key focus areas are opportunities for cross - border collaboration within the energy, infrastructure, and food and beverage processing sectors. In her previous role, with the Royal Danish Consulate in Sydney, she project managed the launch of the Danish Biogas alliance and worked with the member companies to build their pipeline of projects and advocate for the uptake of bioenergy technologies in Australia. Sarah is now bringing these areas of experience together to assist in the development of bioenergy projects across Regional NSW.

# Amy Kean

**Stride Renewables**

**Partner**



Amy Kean is a Partner at Stride Renewables, a boutique energy advisory firm who help organisations navigate the regulatory, commercial and technical challenges inherent in the energy market.

Amy has over 20 years of experience in energy markets across the public and private sectors, nationally and internationally. Amy is the Chair of the NSW Decarbonisation Innovation Hub and the Electrification and Energy Systems Network. Prior to establishing Stride, Amy was the NSW Government Renewable Energy Advocate.

Amy is a recipient of the NSW Green Globe award for Public Sector Leadership, the Energy Minister's Leadership Award and Services to the Duke of Edinburgh Award from HRH Prince Edward, Earl of Wessex.



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