

6TH INTERNATIONAL CONFERENCE ON GLOBAL RENEWABLE ENERGY

DECEMBER 08–10, 2025

THE LANGHAM, MELBOURNE, AUSTRALIA



SUPPORTING PARTNERS



Hydrogen
Society
of Australia



AUSTRALIAN
INSTITUTE OF
ENERGY
VICTORIA

INSTRUCTIONS FOR SPEAKERS

1. **Plenary Talks:** Plenary speakers will be allotted 35 minutes to present their results, followed by a 5 minutes discussion period.
2. **Keynote Talks:** Keynote speakers will be allotted 25 minutes to present their results, followed by a 5 minutes discussion period.
3. **Invited Talks:** Invited speakers will be allotted 17 minutes to present their results, followed by a 3 minute discussion period.
4. **Oral Talks:** Oral speakers will be allotted 12 minutes to present their results, followed by a 3 minute discussion period.
5. Please do not exceed the allotted time slot.
6. Speakers should have their presentations saved on a USB memory stick.
7. It is suggested to email a copy of the presentations to us as back up.
8. Please prepare the presentation in PPT files, PDF is not recommended.
9. Basic AV setup will be provided: laser pointer, cordless mike, desktop mike, sound system.
10. Laptops equipped with Windows 10, Office 2010 Pro English (Word, Powerpoint, Excel) and Adobe Reader are provided.
11. If your presentation files contain movies, please make sure that they are well formatted and connected to the main files. You may check your slides during the breaks.
12. Projectors are equipped with standard VGA connection ports. Mac users should bring their own adapter cord.
13. Please re-check this program prior to the conference to confirm if any changes have been made to your session.
14. Conference volunteers will move the mic during Q&A. Audience with questions may raise hand to receive the mic.

SPEAKER ZOOM GUIDELINES

How to Participate in a Zoom Meeting?

If you have trouble logging in to Zoom or any technical issues, please write to us at committee@energyconferenceaustralia.com

Join a Meeting

- Join a meeting by clicking on a Zoom link received from the organizers.
- Follow the prompts to download and run Zoom application
- Enter the meeting ID if prompted
- Click to join the audio.
- When you are in the meeting, click on the Start Video button to start your video.

If you already have Zoom software installed: Open the Zoom platform, click 'join' and enter the meeting ID and password.

Mute/Unmute & Audio Settings

You can mute and unmute your microphone. The host also can mute you. We recommend using a headset and/or microphone as it will lead to better sound quality than using your computer audio. Turn off all sound notifications on your device. Note: During the presentation we will unmute everyone except the speaker and the chairs.

Screen Share

You will be allowed to share your screen during your presentation. Your computer screen will become visible to all the participants once you start sharing your screen. Please close all other applications on your computer so that notifications do not appear during your presentation. Keep the PowerPoint slide open on your system before you click the 'Share Screen' button. You are recommended to share the specific PowerPoint slide and not your desktop.

Presentation Timings

Please note that all the timings mentioned in the program are as per the Australia time zone (GMT+11). Do ensure that you check the time difference well in advance and join the meeting at least 30 minutes prior to your scheduled presentation time. If you need us to tell the specific time slot for your presentation (in local time zone), do let us know. (or) use world time buddy.com for the accurate time zone.

Join a Meeting:

<https://zoom.us/j/93202349125?pwd=eDWbbCC47zVuuMldsZg5V3bAXU9KYy.1> (Australia time zone (GMT+11))

Conference Chair



Andrew Dicks

Bsc Dis Phd Cchem Frsc Faie Arco
Australia

Biography:

After graduating with a PhD in Physical Chemistry from Loughborough University, Andrew Dicks spent over 30 years in the UK gas industry working on gasification, process design, and energy systems analysis. In recognition of his research in fuel cells he was awarded the H E Jones medal of the Institute of Gas Engineers. Andrew left the UK in 2002 to take up a research fellowship in nanomaterials for energy at the University of Queensland. Since then, he has played a key role in promoting renewable energy – as a Director of the Australian Institute of Energy, founder of the Australian Association for Hydrogen Energy and, since 2023, CEO of the Australian Hydrogen Research Network.

DAY – 1 DECEMBER 8, 2025

DECEMBER 8–10 | THE LANGHAM, MELBOURNE, AUSTRALIA

17:00–20:00 Welcome Drinks and Dinner

DAY – 2 DECEMBER 9, 2025

Conference Chair: Andrew Dicks, BSc DIS PhD CChem FRSC FAIE ARCO, Australia

09:00–09:15 Opening and Welcome by Andrew Dicks

PLENARY SESSION

09:15–09:55 **Title:** Three Birds, One Stone: e-SAF as Australia's Energy Game-Changer
Florence Lindhaus, NEUMAN & ESSER, Australia

09:55–10:35 **Title:** Hydrogen Demand, a Solution to Closing Supply Side Projects
Noel Dunlop, Energys, Australia

10:35–11:15 **Title:** The Changing Role of Hydrogen in Meeting Energy and Decarbonisation Demands
Craig M. Knight, Horizon Fuel Cell, Australia

11:15–11:50 COFFEE BREAK & GROUP PHOTO

Session: Hydrogen Energy: Production, Storage & Applications

Session Co-Chairs: Melinda Krebsz, Australian National University, Australia
Mark Nesci, NEMA Consulting, Australia

11:50–12:20 **Keynote Talk:** Hydrogen – A Pragmatic Masterplan to Export Commencing with Local Applications
Robert Saunders, Elecseed, Australia

12:20–12:40 **Title:** Plug's Hydrogen Ecosystem
Laurent van Helden, Plug Power, Australia

12:40–13:00 **Title:** Hydrogen Production On-Demand from Biomethane
Priya Samudrala, Monash University, Australia

13:00–14:00 LUNCH BREAK

Session Co-Chairs: Alireza Rahbari, Australian National University, Australia
Miro Moss, Haskoning, Australia

14:00–14:30 **Keynote Talk:** Hydrogen Ironmaking: A Case Study in Australia
Alireza Rahbari, Australian National University, Australia

14:30–14:50 **Title:** Sustaining the Murray Darling Basin using 24/7 Renewable Power at Industrial Scale
Mark Nesci, NEMA Consulting, Australia

14:50–15:10 **Title:** Resilient Green Hydrogen Production: Managing Life Cycle Economics and Uncertainty
Mahshid Zaresharif, Siemens Energy, Australia

15:10–15:45	COFFEE BREAK
15:45–16:15	Keynote Talk: Unlocking Australia–Europe Clean Fuel Trend: From Strategy to Delivery Miro Moss , Haskoning, Australia
16:15–16:35	Title: Hydrogen Storage: Current Trends and Future Challenges Melinda Krebsz , Australian National University, Australia
16:35–16:55	Title: Hydrogen as a Transition Fuel for Power Generation in Queensland (Online) Lucas Skoufa , Griffith University, Australia
16:55–17:15	Title: Experimental Assessment of a 1kW High TemperaturePEM Fuel Cell Stack Performance for Commercial Applications Susanta K. Das , Kettering University, USA
17:15–17:30	Title: Towards Computational Discovery of Z-scheme Heterostructures as Highly Efficient Photocatalysts for Hydrogen Production from Water Splitting Redi Kristian Pingak , The University of Sydney, Australia

DAY – 3 DECEMBER 10, 2025

Session: Renewable Energy Systems and Environmental Impact

Session Co-Chairs: Maziar Arjomandi, University of Adelaide, Australia
Andrew Barrington, Solar Shine Australia, Australia

- 09:00–09:30** **Keynote Talk:** Development of Solar Photovoltaic and Thermal Module for Heat Pump Applications
Yanjun Dai, Shanghai Jiao Tong University, China
- 09:30–10:00** **Keynote Talk:** Solar Farms – The Impact of Wind Load on Design Considerations and Layouts
Maziar Arjomandi, University of Adelaide, Australia
- 10:00–10:30** **Keynote Talk:** An Innovative Two-phase Anaerobic Digestion Process for Bioenergy Production from Food Waste
Jonathan Wong, Dongguan University of Technology, China
- 10:30–10:50** **Title:** Experimental Evaluation of a Solar Powered Electrostatic Precipitator System for Reduction of Environment Pollution and Improved Public Health
Susanta K. Das, Kettering University, USA

10:50–11:20 COFFEE BREAK

- 11:20–11:40** **Title:** Latest Developments in Printed Solar, a Sustainable Energy Generation Technology
Ben Vaughan, University of Newcastle, Australia
- 11:40–12:00** **Title:** Solar Pumps for the Extraction of Groundwater: The Need for Life Cycle Design (LCD)
John Dartnall, University of Technology Sydney, Australia
- 12:00–12:20** **Title:** Next-Generation Bioelectrochemical Systems for High-Efficiency Methanogenesis of Marine Macroalgae (Online)
Buntora Pasaribu, Universitas Padjadjaran, Indonesia
- 12:20–12:40** **Title:** Circular Solar: Extending Module Lifecycles Through Preventative Maintenance and Responsible Asset Management
Andrew Barrington, Solar Shine Australia, Australia
- 12:40–12:55** **Title:** Advancing HEVs Lubrication Through Sustainable Biolubricant Development from Indigenous Australian Feedstocks (Online)
Muhammad Ali Ijaz Malik, University of Technology Sydney, Australia

13:00–14:00 LUNCH BREAK

Session: Policy, Economics, and Commercialization

Session Co-Chairs: Ali Bahramzadeh, Net Zero Economy Authority, Australia
Azadeh Keshavarzmohammadian, Deloitte Energy and Climate Advisory, Australia

- 14:00–14:20** **Title:** Western Australia's Energy Transformation: A Strategic Shift in the SWIS
Noel Ryan, Market Development and Coordination Energy Policy WA, Australia
- 14:20–14:40** **Title:** Cost Optimization of Germany's Energy System: Generation, Storage and Transport (Online)
Paul Grunow, Trinity Solarbeteiligungen GmbH, Germany

14:40–15:00	Title: Clean Energy For and From Agriculture (Online) Kudang Boro Seminar , IPB University, Indonesia
15:00–15:20	Title: Advanced Project Management: Optimizing Renewable Energy Portfolios Through AI and ESG Integration (Online) Javier Mauricio León , Proyecta Consulting, Colombia
15:20–15:50	COFFEE BREAK
15:50–16:10	Title: A Legal, Theoretical, and Practical Perspective on Prosumers as Entities of The Energy Transition in Poland (Online) Aneta Suchoń , Adam Mickiewicz University, Poland
16:10–16:30	Title: Reality Bites – The Truth of The Electricity Sector Transition Azadeh Keshavarzmohammadian , Deloitte Energy and Climate Advisory, Australia
16:30–16:50	Title: The Role of Research and Innovation in Unlocking Economical Decarbonisation Pathways for Heavy Industries Ali Bahramzadeh , Net Zero Economy Authority, Australia
16:50–17:10	Title: JA Solar’s Next Generation TOPCon Technology for Solar Modules Ankit Tyagi , JA Solar, Australia
17:10–17:30	Title: Global Challenges and Deployment Landscape of CCS for Achieving Net-Zero (Online) Son Minhee , Energy Studies Institute, National University of Singapore, Singapore
17:30–17:45	Closing



PRISM

PROFESSIONAL CONFERENCE ORGANIZERS

Prism Scientific Services Pty Ltd., a premier conference organizer, envisions a sustainable future for the Renewable Energy. Our goal is to unite experts and stakeholders through conferences, fostering collaboration and advancing sustainable practices. Committed to curating conferences on Hydrogen, renewable energy and eco-friendly technologies, we catalyze the industry's development. Emphasizing interdisciplinary collaboration, our events address complex challenges. Dedicated to sustainability, we minimize footprints and promote eco-friendly venues, inspiring environmental responsibility. As catalysts for positive change, guiding the energy industry toward an innovative, environmentally responsible future in conferences that prioritize sustainable development.

If you are interested in forming a partnership with us for the planning and organization of conferences and events worldwide, please don't hesitate to contact us via email at writeus@scientificprism.com or by phone at **+61 416000202**. Our services extend to facilitating conferences anywhere in the world, and we look forward to the opportunity to discuss your specific needs and requirements.

WE WISH TO SEE YOU AT ENERGY OCEANIA-2026



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