



6TH INTERNATIONAL CONFERENCE ON

GLOBAL RENEWABLE ENERGY

DECEMBER 08-10, 2025

THE LANGHAM, MELBOURNE, AUSTRALIA



SUPPORTING PARTNERS







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.
- 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.
- 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.

INSTRUCTIONS FOR POSTER

- 1. Maximum poster size is A0.
- 2. Push pins for attaching the poster to the board will be provided.
- 3. Poster presenters will be directed to the designated board at the start of the poster session.
- 4. Author must be present to provide details and answer questions during the selected poster session times.

ENERGY OCEANIA 2025

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DAY - 1, DECEMBER 8, 2025

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17:00-20:00	Welcome Drinks And Dinner				
	DAY - 2, DECEMBER 9, 2025				
09:00-09:05 09:05-09:15	Opening Ceremony Welcome Remarks by Conference Chairs				
	PLENARY SPEAKERS				
09:15-09:55	Title: Australian e-SAF for the German Aviation Sector: Bilateral Opportunities for Synthetic Aviation Fuel Florence Lindhaus, NEUMAN & ESSER, Australia				
09:55-10:35	Title: Accelerating the Clean Energy Transition: Integrating Innovation, Infrastructure, and Investment for a Sustainable Future Carly Irving-Dolan , Energy and Telecommunications, Australia				
10:35-11:15	Title: Hydrogen Demand, a Solution to Closing Supply Side Projects Noel Dunlop , Energys, Australia				
11:15-11:45	COFFEE BREAK				
	Session: Hydrogen Energy: Production, Storage & Applications				
11:45-12:15	Title: The Changing Role of Hydrogen in Meeting Energy and Decarbonisation Demands Craig M. Knight , Horizon Fuel Cell, Australia				
12:15-12:35	Title: Plug's Hydrogen Ecosystem Laurent van Helden, Plug Power, Australia				
12:35-12:55	Title: Sustaining the Murray Darling Basin using 24/7 renewable power at Industrial Scale Mark Nesci , NEMA Consulting, Australia				
13:00-14:00	LUNCH BREAK				
14:00-14:30	Title: Hydrogen – A Pragmatic Masterplan to Export Commencing with and Local Applications Robert Saunders , Elecseed, Australia				
14:30-15:00	Title: Hydrogen Ironmaking: A Case Study in Australia Alireza Rahbari, Australian National University, Australia				
15:00-15:20	Title: Hydrogen Production On-Demand from Biomethane Priya Samudrala , Monash University, Australia				
15:20-15:50	COFFEE BREAK				
15:50-16:10	Title: Resilient Green Hydrogen Production: Managing Life Cycle Economics and Uncertainty Mahshid Zaresharif, Siemens Energy, Australia				

16:10-16:30	Title: Hydrogen Storage: Current Trends and Future Challenges Melinda Krebsz , Australian National University, Australia
16:30-16:50	Title: Hydrogen as a Transition Fuel for Power Generation in Queensland (Online) Lucas Skoufa, Royal Australian Navy, Australia
16:50-17:10	Title: JA Solar's Next Generation TOPCon Technology for Solar Modules Ankit Tyagi , JA Solar, Australia
17:10-17:25	Title: Water Oxidation Reaction Energetics on the Novel α-GeTe/SiCl Heterostructure: Type-II vs. Z-scheme and H2O2 Formation Redi Kristian Pingak , The University of Sydney, Australia

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DECEMBER 8-10 | THE LANGHAM, MELBOURNE, AUSTRALIA

DAY - 3, DECEMBER 10, 2025

SESSION: RENEWABLE ENERGY SYSTEMS	AND ENVIRONMENTAL IMPACT
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09:00-09:30	Title: Development of solar photovoltaic and thermal module for heat pump applications Yanjun Dai , Shanghai Jiao Tong University, China		
09:30-10:00	Title: Solar Farms – The Impact of Wind Load on Design Considerations and Layouts Maziar Arjomandi , University of Adelaide, Australia		
10:00-10:30	Title: 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		
12:40-13:00	Title: Advancing HEVs Lubrication Through Sustainable Biolubricant Development from Indigenous Australian feedstocks Muhammad Ali Ijaz Malik , University of Technology Sydney, Australia		
13:00-14:00	LUNCH BREAK		
	Session: Policy, Economics, and Commercialization		
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 GmH, Germany		
14:40-15:00	Title: Clean Energy For and From Agriculture (Online) Kudang Boro Seminar, IPB University, Indonesia		
15:00-15:20	Title: A Legal, Theoretical, and Practical Perspective on Prosumers as Entities of The Energy Transition in Poland (Online) Aneta Suchoń , Adam Mickiewicz University, Poland		

15:20-15:50	COFFEE BREAK
15:50-16:20	Title: Unlocking Australia–Europe Clean Fuel Trade: From Strategy to Delivery Miro Moss , New Energy, Australia
16:20-16:40	Title: Reality Bites – The Truth of The Electricity Sector Transition Azadeh Keshavarzmohammadian , Deloitte Energy and Climate Advisory, Australia
16:40-17:00	Title: The role of research and innovation in unlocking economical decarbonisation pathways for heavy industries. Ali Bahramzadeh , Net Zero Economy Authority, Australia
17:00-17:20	Title: Advanced Project Management: Optimizing Renewable Energy Portfolios Through Al and ESG Integration(Online) Javier Mauricio León , Proyecta Consulting, Colombia
17:20-17:40	Title: Global Challenges and Deployment Landscape of CCS for Achieving Net-Zero (Online) Son Minhee , National University of Singapore, Singapore
17:40-18:00	Title: In-operando Interlayer Expansion of Multiscale Curved Graphene for Volumetrically-efficient Supercapacitors Petar Jovanovic, Monash University, Australia
18:00-18:10	Closing

NOTES



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 materials science, 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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