# **EECON2025**



MONDAY, 10 <sup>TH</sup> NOVEMBER 2025		
	PRE-CONFERENCE ACTIVITIES	
12:30	TOURS	
	TOUR #1 – KWINANA BESS	
	TOUR #2 – PACIFIC ENERGY	
4:30 - 5:15	EESA AGM – Mt Newman Room	
17:30	CONFERENCE OPENING DRINKS	
	EXHIBITION AREA, Foyer 3	

TUESDAY, 11 <sup>TH</sup> N	OVEMBER 2025
From 8:00	REGISTRATION
	Grand River Ballroom
	CONFERENCE OPENING
	Mr Stuart Aubrey MLA
	Spokesman for Minister for Energy
	OPENING PLENARY
	What's Our Direction? Charting WA's Energy Future?  Facilitator: LAURIE CURRO
08:30 – 09:45	Session Overview: As the opening session, this forum will set the scene for Western Australia's transition to Net Zero. Key leaders in the WA electricity sector will share their perspectives on the pressing challenges we face—from system reliability and decarbonisation to technology integration and market reform—and outline the strategic initiatives shaping our path forward. Participants will gain valuable insights into the collaborative efforts, policy directions, and innovations that will define the state's energy future.
	SIEMENS – Diamond Sponsor Opening segment
	Sam Barbaro – CEO, Western Power
	Vi Garrood – Executive General Manager, Future Energy, Horizon Power
	Jai Thomas – Coordinator of Energy, A/Director General, DEMIRS
	Kirsten Rose – Executive General Manager WA & Strategy, AEMO

# **EECON2025**



09:45 – 10:15	MORNING TEA		
		SECOND PLENARY	
	Tackling <sup>-</sup>	Today's Challenges: Building Tomorrow's Energy System	
		Facilitator: RUSSELL ELLEN	
	Session Overview:		
	Positioned as a key strategic discussion before the technical papers, this session will delve into the real-world challenges shaping Western Australia's energy transition. Speakers will explore current projects, share lessons learned, and examine barriers to progress—ranging from infrastructure and		
10:15 – 12:00	technology hurdles to the growing need for a skilled workforce. The session will also highlight practical solutions and outline potential pathways to		
	overcome these challenges, ensuring a resilient, sus	tainable, and forward-focused energy future.	
	APD GLOBAL – Platinum Sponsor segment + Video		
	Jason Froud – Executive General Manager Strategy	& Corporate Affairs, Synergy	
	Nathan Ling – Head of Development, Neoen Australia		
	David Pointing – CEO, The Australian Power Institut	e	
	Jasmin Diab – Partner/Director, Nuclear Australia		

12:00 – 13:00	LUNCH		
	Grand River Ballroom EAST		Grand River Ballroom WEST
Theme(s)	Challenges and Solutions in Powering Australia's D	ecarbonised Future	Solution to Integrating Renewables into a Complex, Decentralised Grid
Facilitator	Franco Crisci, EESA National Committe	e	Joep Vaessen, GHD
13:00 – 13:05	Bronze Sponsor: Western Powe	er	Bronze Sponsor: GHD
13:05 – 13:25	Challenges of Mega Electrical Infrastructure Project	S,	Compliance Assessment for Harmonic Distortion focusing on Renewable
	by Jason Hu, APD Global		Energy Generation, by Dr Duane Robinson, APQRC, University of Wollongong
13:25 – 13:45	Decentralised energy hubs - an additional pathway	to decarbonisation,	Stability Considerations for Low-Inertia Gas Peaker Plants Using Power
10120 10110	by Mitch Adair & Peter Langdon, Endeavour Energy		Plant Controllers, by Sunil Verma, FGC Consulting
13:45 – 14:05	Baseload - the lowest cost for electricity consumers	,	Managing Minimum System Load in the NEM,
10110	by Ben Beattie & Stephen Wilson, University of Queensland		by <i>Kevin Ly</i> , Global Power Energy
	Powering Australia's Clean Energy Future: Challenge	es and Innovations in	Low Load Weak Power Systems Operation: The Risk of Ferro-Resonance,
14:05 – 14:20	EHV Renewable Energy Zone Development,		by Dr. Reza Bank Tavakoli, PowerGie Engineering
	by <i>Dr. Tuan Vu</i> , Volt-Var and Control Power Systems Consultant	S	-,
	Unlocking Customer-led Decarbonisation in the SWIS, by Charles Crew & Kevin O'Brien, Western Power		Enhancing Transmission Capacity to Facilitate Renewable Energy and
14:20 – 14:45			Dispatchable Generation Integration in Regional NSW,
			by <i>Dr Nasim Jabal Ameli</i> , Transgrid



# **EECON2025**



14:45 – 15:15	AFTERNOON TEA	
	Grand River Ballroom EAST	Grand River Ballroom WEST
Theme(s)	Off-grid Systems, Microgrids, and Remote Energy Solutions	Asset Management Strategies for a Future-Ready Grid
Facilitator	Cip Hosu, Western Power	Raghu Kattukaran Anirudhan, Western Power
15:15 – 15:20	Bronze Sponsor: Pacific Energy	Bronze Sponsor: Dulhunty Poles
15:20 – 15:40	Enabling Australia's Industrial Decarbonisation: Containerised Metal- Hydrogen Energy Storage for Remote and Grid-Connected Applications, by <i>Aaron Teo</i> , AVID Group	Generator Performance Standards and Monitoring Compliance for Legacy Generating Facilities Connected to SWIS: A Systematic Approach, by Fahad Farooq, APD Global
15:40 – 16:00	A Practical Approach to System Stability in Microgrids and Hybrid Systems, by <i>Zen Vakil</i> , GHD	Modernizing aging infrastructure, by Tony O'Brien, Australian Winders
16:00 – 16:20	Isolated Grids - Challenges and Case Studies, by Heramb Mayadeo, KPMG	Predictive Analytics for Proactive Asset Lifecycle Management Using Early Fault Detection Technology, by Kristian Vukadin, IND Technology
16:20 – 16:40	Decarbonising Energy Supply in Remote and Islanded Communities, by <i>Greg Denton</i> , Incite Energy	Protection of Phase-Shifting Transformer for Transgrid Energy Connect Project—Concept and Application Considerations, by Ashish Ahuja, SEL
16:40 – 17:00	Project Jupiter and acceleration of VPPs in the SWIS, by Mike Bradford, Western Power	Why digitalization of today's maintenance regime is key to a Future-Ready Grid! by <i>Julian Orozco</i> , Western Power

17:30 – 21:30



## **EECON2025**



WEDNESDAY, 12	2 <sup>TH</sup> NOVEMBER 2025	
	Goldsworthy/Hamersley	
	BREAKFAST	
07:15 – 08:15	Breakfast Sponsored by SEL (Schweitzer Engine Workshop and presentation on the following	Power Systems with DERs levels of DER irt Controllers letwork performance and reduce unplanned outages. leterator black start solutions

	Grand River Ballroom EAST		Grand River Ballroom WEST
Theme(s)	From Data to Decisions: Powering the Grid's Digital Evolution		Grid Modernisation Challenges: From Safety Risks to Capacity Optimisation
Facilitator	Marcus Leaver, Yurika		Asma Aziz, Edith Cowan University
08:15 – 08:20	Silver Sponsor: SEL	08:15 – 08:35	DC Arc Flash in a Changing Grid: Managing Risk in the Absence of Standards, by <i>Arash Rohani</i> , APD Global
08:20 – 08:40	Unlocking Efficiency and Innovation: The Crucial Role of Data Governance and a Modern Data Platform in Orion's AI adoption, by <i>Peter Jaksons</i> , PowerCo NZ (EEA)	08:35 – 08:55	Practical Engineering Solutions for Embedded Facility's Connection to Weak Transmission Networks, by Javid Melaki, APD Global
08:40 – 09:00	Solving the grid problem for EV Fast Chargers, by Vijay Hirani, PowerCo NZ (EEA)	08:55 – 09:15	Integrating Large Scale Renewables in Grid Efficiently, by Swapnil Kulkarni, Reinhaussen
09:00 – 09:20	Challenges of Creating a Digital Megawatt: Coordinating Australia's DER-Powered Clean Energy Future, by <i>Carlos Gamez</i> , Nova Energy Consulting	09:15 – 09:35	Connecting Data Centres to the Australian Grids – Why Are We Struggling, by Deepak Sambhi, KPMG

## **EECON2025**



#### EMPOWERING AUSTRALIA'S CLEAN ENERGY FUTURE THE JOURNEY TO NET ZERO

09:20 – 09:40 Transforming Distribution Networks – Applied Voltage Control to Manage Disruptive Energy Trends, by *Michael Stack*, Tyree Transformers

09:35 - 09:55

Innovative ways to maximise transmission capacity using a SIPS: Waratah Super Battery case study, by *Christiaan Swanepoel*, Transgrid

09:40 - 10:15	MORNING TEA	
	Grand River Ballroom EAST	Grand River Ballroom WEST
Theme(s)	Energy Storage Innovation & Grid Integration	Resilient and Sustainable Energy Solutions for Remote, Legacy, and High-IBR Systems
Facilitator	Lekshmi Jaya Mohan, Acciona	Philip Reilly, EESA National Committee
10:15 – 10:20	Bronze Sponsor: Acciona	Gold Sponsor: ECU
10:20 – 10:40	Grid-Forming BESS in Isolated Microgrids: Challenges and Risks of Inadvertent Out-of-Phase Synchronisation, by <i>Matthew Lee</i> , APD Global	Robust and Resilient Energy Management Framework for the Secure and Economical Operation of Mining, Off-grid Systems, and Remote Communities, by Dr Mehrdad Ghahramani & Seyyed M Ghamari, Edith Cowan University (ECU)
10:40 – 11:00	The Missing Metric: System Strength Quantification for Grid-Forming Inverters, by <i>Irvine Murray</i> , APD Global	Decarbonisation Pathways for Isolated Grids: Balancing Renewables and Storage Resources Against Weather Extremes, by Taraneh Ghanbarzadeh & Asma Aziz, Edith Cowan University
11:00 – 11:20	Learning from BESS Projects (Secondary and Protection), by <i>Marco Surace</i> , APD Global	Towards More Sustainable and Interconnected Power Systems by Establishing Reliable Grid Intertie with Static Frequency Converters, by Damian Elsasser & Matthew Thompson, Hitachi Energy Ltd
11:20 – 11:40	Responsible Management of Retired Mining EV Batteries Through Intelligent Reconfiguration for Second-Life Applications, by Kenneth Tetteh Akiti, Edith Cowan University (ECU)	Brownfield Turbine Replacement Adjust your planning, by BSc Gijs Van Maanen, Innomotics
11:40 – 12:00	Powering Net Zero Future with Solid-State Batteries, by <i>Dawod Ghifari</i> , University of Sydney	Scalable Grid-Connected Asset Placement Studies Using Vectorised Modelling and Programmatic Model Building in High-IBR Power Systems, by <i>Branko Dijkstra</i> , Mathworks Australia

12:00 – 13:00	LUNCH		
	Grand River Ballroom EAST		Grand River Ballroom WEST
Theme(s)	Digitisation, AI, and Risk Mitigation in Modern	Power Systems	Emerging Technologies & Power System Innovation
Facilitator	Bhavik Shah, Western Power		John Tope, TasNetworks
13:00 – 13:05	Platinum Sponsor: APD Global		Bronze Sponsor: Century Yuasa Batteries
13:05 – 13:25	Closing the gap between Digital intent and Physical	Execution in	Offshore Wind in Australia – Navigating the Transmission Connection
15.05 – 15.25	Substation Projects, by Marie Lize Richard, APD Global		Challenge, by Deepak Sambhi, KPMG
13:25 – 13:45	Technological Trends in Substation PACS (Protection	, Automation and	Unlocking FCAS Opportunities with Capacitor-Based Load Control,
	Control Systems), by Rob Susanto-Lee, APD Global		by Marten Bosch, APD Global

# **EECON2025**



13:45 – 14:05	Proactive Mitigation of Bush Fire Hazards with the Use of Natural Ester Dielectric Fluid in Power Systems, by <i>Dr. Kin Yu Lam</i> , Cargill Asia Pacific Holdings Pte Ltd	Using EMT Simulation in Reviewing Distance Protection Schemes of Inverter Based Resource (IBR) Connections, by Noel Nagoorsamy, APD Global
14:05 – 14:25	Automated Neutral Fault Detection and Dispatch with Horizon Power and Gridsight, by Marcel Swanepoel, Gridsight, & Maurice Ryan, Horizon Power	Coordinated Control of Grid-Forming Inverters and Synchronous Condensers in Low-Inertia Power Systems, by Hamid Soleimani, Edith Cowan University (ECU)
14:25 – 14:45	Role of Artificial Intelligence in Energy Networks – Critical Use Cases, by Ken Holder, KPMG	Secondary System Innovation and Technologies Addressing Challenges of Implementing a Large BESS Connection to the 500kV Grid, by Dr Ying Yan, Transgrid

14:45 – 15:15	AFTERNOON TEA	
		FINAL SESSION
	Faci	PowerFUL Women in Energy/Engineering  litator: David Pointing, CEO, The Australian Power Institute (API)
15:15 – 16:00	are redefining leadership and innovation in Australi	nstitute (API), this PowerFUL Women session shines a spotlight on exceptional <b>female engineers</b> who a's power sector. These women exemplify the technical excellence, resilience, and vision driving the nd women, they bring unique perspectives on navigating complex challenges, fostering inclusion, and cainable and equitable energy future.
	Susan Kreemer Pickford – Principal Engineer, Engin	eers Australia
	Janica Lukas – Transmission Grid Strategy Planning	Manager, Western Power
	Nicola Falcon – Executive Manager, System Design,	AEMO

16:00 – 17:00	CLOSING PLENARY
	Where Do We Go from Here? Turning Insight into Action  Facilitator: ANDY WEARMOUTH
	Session Overview: As the closing forum of the conference, this session will distil key learnings from the presentations, discussions, and debates over the past two days. With a clearer picture of the challenges, opportunities, and emerging solutions, speakers will reflect on what's been learned and consider whether a shift in direction is needed. The focus will be on translating insights into tangible next steps—identifying priorities, shaping collaborative actions, and setting the course for Western Australia's energy future.
	SIEMENS – Diamond Sponsor Presentation
	Dean Sharafi – Strategic Advisor, Energy Transition, AEMO
	Sunny Vijayalayan – Senior Manager, Engineering, Pacific Energy
	James Fleay – Project Development Manager, Bechtel
	Gair Landsborough – Executive Manager, Western Power

MC





## EMPOWERING AUSTRALIA'S CLEAN ENERGY FUTURE THE JOURNEY TO NET ZERO

**CLOSING REMARK** 

Terry Lampard – National President Electric Energy Society of Australia