EECON2025



MONDAY, 10 TH N	MONDAY, 10 TH NOVEMBER 2025		
	PRE-CONFERENCE ACTIVITIES		
12:30	TOURS		
	TOUR #1 – KWINANA BESS		
	TOUR #2 – PACIFIC ENERGY		
17:30	CONFERENCE OPENING DRINKS		
	EXHIBITION AREA		

TUESDAY, 11 TH N	OVEMBER 2025
From 8:00	REGISTRATION
	Main Auditorium
	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
	Session Overview:
00.20 00.45	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
08:30 – 09:45	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 segment
	Sam Barbaro – CEO, Western Power
	Vi Garrood – Executive GM, Future Energy, Horizon Power
	Jai Thomas – Coordinator of Energy, A/Director General, DEMIRS
	Nicola Falcon – Executive General Manager, AEMO

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09:45 – 10:15	MORNING TEA	
		SECOND PLENARY
	Tackling T	Today's Challenges: Building Tomorrow's Energy System
		Facilitator: RUSSELL ELLEN
	Session Overview:	
	Positioned as a key strategic discussion before the	echnical papers, this session will delve into the real-world challenges shaping Western Australia's
	energy transition. Speakers will explore current pr	ojects, share lessons learned, and examine barriers to progress—ranging from infrastructure and
10:15 – 12:00	<i>o,</i>	ed 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 Austra	ia
	David Pointing – CEO, The Australian Power Institut	e
	Jasmine Diaz – Nuclear Australia	

12:00 – 13:00	LUNCH		
	Ballroom 1		Ballroom 2
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 Comm	ittee	Joep Vaessen, GHD
13:00 – 13:05	Bronze Sponsor: Western Powe	r	Bronze Sponsor: GHD
13:05 – 13:25	Challenges of Mega Electrical Infrastructure Project by <i>Marco Surace</i> , APD Global	s,	Compliance Assessment for Harmonic Distortion focusing on Renewable Energy Generation, by <i>Dr Duane Robinson, APQRC</i> , University of Wollongong
13:25 – 13:40	Decentralised energy hubs - an additional pathway by <i>Mitch Adair & Peter Langdo</i> n, Endeavour Energy	to decarbonisation,	Stability Considerations for Low-Inertia Gas Peaker Plants Using Power Plant Controllers, by <i>Sunil Verma</i> , FG Consulting
13:40 – 14:05	Baseload - the lowest cost for electricity consumers by Ben Beattie & Stephen Wilson, University of Queensland	,	Managing Minimum System Load in the NEM, by Greg Elkins & Christian Jensen, Global Power Energy
14:05 – 14:20	Powering Australia's Clean Energy Future: Challenge EHV Renewable Energy Zone Development, by <i>Dr. Tuan Vu</i> , Volt-Var and Control Power Systems Consultant		Low Load Weak Power Systems Operation: The Risk of Ferro-Resonance, by <i>Dr. Reza Bank Tavakoli</i> , PowerGie Engineering
14:20 – 14:45	Unlocking Customer-led Decarbonisation in the SW by Charles Crew & Kevin O'Brien, Western Power	S,	Enhancing Transmission Capacity to Facilitate Renewable Energy and Dispatchable Generation Integration in Regional NSW, by Dr Nasim Jabal Ameli, Transgrid

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14:45 – 15:15	AFTERNOON TEA	
	Ballroom 1	Ballroom 2
Theme(s)	Off-grid Systems, Microgrids, and Remote En	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	gy Bronze Sponsor: Dulhunty Poles
	Enabling Australia's Industrial Decarbonisation: Con	ontainerised Metal- Generator Performance Standards and Monitoring Compliance for Legacy
15:20 – 15:40	Hydrogen Energy Storage for Remote and Grid-Coni by Aaron Teo, AVID Group	nnected Applications, Generating Facilities Connected to SWIS: A Systematic Approach, by Fahad Faroog, APD Global
	A Practical Approach to System Stability in Microgri	
15:40 – 16:00	Systems, by Zen Vakil, GHD	rids and Hybrid Modernizing aging infrastructure, by <i>Tony O'Brien</i> , Australian Winders
16:00 – 16:20	Isolated Grids - Challenges and Case Studies,	Predictive Analytics for Proactive Asset Lifecycle Management Using Early
16:00 - 16:20	by Heramb Mayadeo, KPMG	Fault Detection Technology, by Kristian Vukadin, IND Technology
16:20 – 16:40	Decarbonising Energy Supply in Remote and Islande	ded Communities, Protection of Phase-Shifting Transformer for Transgrid Energy Connect
10.20 - 10.40	by Greg Denton, Incite Energy	Project—Concept and Application Considerations, by SEL
16:40 – 17:00	Project Jupiter and acceleration of VPPs in the SWIS	Why digitalization of today's maintenance regime is key to a Future-Ready
10.40 - 17.00	by Mike Bradford, Western Power	Grid! by Jonas Lindhom, Kinghill, & Julian Orozco, Western Power

WEDNESDAY, 11	TH NOVEMBER 2025
	BREAKFAST
	Breakfast Sponsored by SEL
07:15 – 08:15	 Workshop and presentation on the following: Grid Stability and Reliability of Modern Power Systems with DERs Impacts and management of increased levels of DER Adaptive Protection Changes Using Smart Controllers Special Protection Scheme to improve network performance and reduce unplanned outages. Black start Readiness: Distributed and Generator black start solutions Digital Twins Technology: real time simulate of power system behaviour.

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	Ballroom 1		Ballroom 2
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	Bronze Sponsor: Century Yuasa Batteries	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 Peter Jaksons, Powercat 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 <i>Vijay Hirani</i> , PowerCo NZ (EEA)	08:55 – 09:15	Integrating Large Scale Renewables in Grid Efficiently, by Swapnil Kulkarni & Jason Gillett, 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
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 <i>Christiaan Swanepoel</i> , Transgrid

09:40 - 10:15	MORNING TEA		
	Ballroom 1		Ballroom 2
Theme(s)	Energy Storage Innovation & Grid Integra	ion	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		
10:20 – 10:40	Grid-Forming BESS in Isolated Microgrids: Challenge Inadvertent Out-of-Phase Synchronisation, by Matthew Lee, APD Global	s and Risks of	Robust and Resilient Energy Management Framework for the Secure and Economical Operation of Mining, Off-grid Systems, and Remote Communities, by Dr Mehrdad Ghahramani, Edith Cowan University (ECU)
10:40 – 11:00	The Missing Metric: System Strength Quantification Forming Inverters, by <i>Irvine Murray</i> , APD Global	for Grid-	Decarbonisation Pathways for Isolated Grids: Balancing Renewables and Storage Resources Against Weather Extremes, by <i>Taraneh Ghanbarzadeh</i> , Edith Cowan University
11:00 – 11:20	Learning from BESS Projects (Secondary and Protect by <i>Marco Surace</i> , APD Global	ion),	Towards More Sustainable and Interconnected Power Systems by Establishing Reliable Grid Intertie with Static Frequency Converters, by <i>Damian Elsasser</i> , Hitachi Energy Ltd
11:20 – 11:40	Responsible Management of Retired Mining EV Batt Intelligent Reconfiguration for Second-Life Application	_	Brownfield Turbine Replacement Adjust your planning, by BSc Gijs Van Maanen, Innomotics

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	by Kenneth Tetteh Akiti, Edith Cowan University (ECU)	
11:40 – 12:00	Powering Net Zero Future with Solid-State Batteries, by Dawood Ghifari, University of Sydney	Scalable Grid-Connected Asset Placement Studies Using Vectorised Modelling and Programmatic Model Building in High-IBR Power Systems, by <i>Dr Muhammad Ali</i> , Mathworks Australia

12:00 - 13:00	LUNCH	
	Ballroom 1	Ballroom 2
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		
13:05 – 13:25	Closing the gap between Digital intent and Physical Executi	on 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 – 13:40	Understanding and Mitigating Cyber-Physical Risk in Power	Generation Unlocking FCAS Opportunities with Capacitor-Based Load
13.23 – 13.40	Assets, by Nikhil Mugi, Astra Cyber Security	Control, by Marten Bosch, APD Global
	Proactive Mitigation of Bush Fire Hazards with the Use of N	latural Ester Using EMT Simulation in Reviewing Distance Protection Schemes of
13:40 – 14:05	Dielectric Fluid in Power Systems,	Inverter Based Resource (IBR) Connections,
	by <i>Dr. Kin Yu Lam,</i> Cargill Asia Pacific Holdings Pte Ltd	by <i>Noel Nagoorsamy</i> , APD Global
	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
14:05 – 14:20		Condensers in Low-Inertia Power Systems
		by Hamid Soleimani, Edith Cowan University (ECU)
	Role of Artificial Intelligence in Energy Networks – Critical Use Cases,	Secondary System Innovation and Technologies Addressing Challenges of
14:20 – 14:45	by Deepak Sambhi, KPMG	Implementing a Large BESS Connection to the 500kV Grid,
	-,	by <i>Dr Ying Yan</i> , Transgrid

14:45 – 15:15	AFTERNOON TEA	
15:15 – 16:00		FINAL SESSION
		PowerFUL Women in Energy/Engineering
	Facilitato	r: David Pointing, CEO, The Australian Power Institute (API)
	Susan Kremer Pickford – Principal Engineer, Engine	ers Australia
	Janica Lukas – Transmission System Planning Manager, Western Power	
	Nicola Falcon – Executive General Manager AEMO	





	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.
16:00 – 17:00	With a clearer picture of the challenges, opportunities, and emerging solutions, speakers will reflect on what's been learned and consider whether a
16:00 - 17:00	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.
	Dean Sharafi – General Manager, AEMO
	Sunny Vijayalayan – Senior Manager-Engineering, Pacific Energy
	James Fleay – Project Development Manager, Bechtel
	Gair Landsborough – Executive Manager, Western Power
	CLOSING REMARK
MC	Terry Lampard – National President Electric Energy Society of Australia