

## ASIA PACIFIC CONFERENCE ON INTEGRATION OF DISTRIBUTED ENERGY RESOURCES

Day 1 – 15th August		Presenter	
<b>Registrations</b>			7:45 – 9:00
Welcome & conference introduction			9:00 – 9:20
Platinum Sponsors Address	Ross Thompson	General Manager Distributed Energy Systems Head-Siemens Australia Ltd	9:20 – 9:30
Key Note Speaker "The Network Transformation Roadmap: Unlocking the full value of DER"	John Bradley	CEO Energy Networks Australia	9:30 – 10:30
<b>System Operation</b>			
A case study of secure NEM operation with extremely high DER	Jenny Riesz	AEMO	10:30 – 11:00
<b>Morning Tea</b>			11:00 – 11:30
Frequency Control Ancillary Services from Distributed Energy Resources: Challenges, Opportunities, Value and Business cases	Pierluigi Mancarella	University of Melbourne	11:30 – 11:50
Fast Frequency Services – treating the symptom or the	Kate Summers	Pacific Hydro	11:50 – 12:10
Encouraging locational DER uptake for reducing network investment	Glenn Dahlenburg	Energy Queensland	12:10 – 12:30
<b>Lunch</b>			12:30 – 13:30
<b>Storage</b>			
AGL's Virtual Power Plant Project – Updates from the field	Miguel Brandao	AGL Energy	13:30 – 13:50
Making customers central to the network: A battery trial on Bruny Island	Derek Jones	TasNetworks	13:50 – 14:10
Possible Risk Based Approaches to Designing Large Electrical Storage Facilities	Michael Erskine	GHD Pty Ltd	14:10 – 14:30
Power in Data – analysis of live solar generation and demand data and its use in the wider integration of distributed solar.	Renate Egan	Solar Analytics	14:30 – 14:50
<b>Afternoon Tea</b>			14:50 – 15:20
<b>Power Quality</b>			
Summary of the Impact of DER on Power Quality	Sean Elphick	Australian Power Quality & Reliability Centre, University of Wollongong	15:20 – 15:40
Harmonic compliance assessment and mitigation design in renewable energy networks	Marius Jansen	Optimised Network Equipment	15:40 – 16:00
<b>NGN Event and Panel Session 'The Future of Distributed Energy in Australia'</b> <i>James Kennedy (Tritium); Prof Simon Bartlett (UQ); Evan Darmanin (Chargeworks); Babak Badrzadeh (AEMO)</i>			16:00 – 17:30
<b>Cocktail Function / Dinner – in Exhibition area</b>			17:30 – 20:30

### CIGRE AUSTRALIA WOULD LIKE TO THANK AND ACKNOWLEDGE THE SUPPORT OF THE FOLLOWING SPONSORS

#### PLATINUM SPONSOR



#### GOLD SPONSORS



Life Is On



#### SILVER SPONSORS



Specialist Consultants to the Electricity Industry

OMICRON



Day 2 – 16th August		Presenter	
<b>Registration</b>			8:00 – 8:30
<b>Edge of Grid</b>			
The Renewable Energy environment in the Pacific and the challenges	Andrew Daka	Pacific Power Association	8:30 – 8:50
DER Control and Optimisation	David Stephens	Horizon Power	8:50 – 9:10
Knowledge and learning on integrating energy storage through Ergon Energy's Grid Utility Support Systems	Stephen Richardson	Ergon Energy	9:10 – 9:30
<b>Voltage</b>			
Cost effective grid integration of renewable energy systems: Voltage Regulation Distribution Transformers vs. investments in poles and wires	Thomas Smolka	Reinhausen Australia Pty Ltd	9:30 – 9:50
Accommodating Distributed Generation through Improved Steady State Voltage Compliance	Andrew Sims	Endeavour Energy	9:50 – 10:10
Utilizing DSTATCOMS for improving voltage profile of LV distribution networks with high PV Penetration	Yateendra Mishra	Statcom Solutions Pty Ltd	10:10 – 10:30
<b>Morning Tea</b>			10:30 – 11:00
<b>Microgrids</b>			
AusNet Services Community Mini Grid Trial	Derek Jayasuriya	AusNet Services	11:00 – 11:20
Fully Distributed Optimization Scheme for a Microgrid Multiagent Environment	Yu Huo	Ryerson University	11:20 – 11:40
The Power of Microgrids	Wanda Reder	S&C Electric Company	11:40 – 12:00
Increasing reliability in industrial and residential sites with non-synchronous generation and battery energy storage systems.	Craig A Blizzard	ABB	12:00 – 12:20
<b>New Technologies</b>			
MVDC Power Transmission with a Twist	Craig Harrison	IS Systems Pty Ltd & Amplitude Consultants	12:20 – 12:40
<b>Lunch</b>			12:40 – 13:40
Distributed Energy Systems and the role of Energy Storage & Digitalization	Warner Priest	Siemens Ltd Australia	13:40 – 14:00
Energy Storage – Safety for Installations	Michelle Taylor	Ergon Energy	14:00 – 14:20
<b>Protection</b>			
QV Protection for Wind Farms and Grid Integration	Mitchell Eadie	Schneider Electric	14:20 – 14:40
Testing Procedures for Distributed Energy Resources	Hakan Menekse	OMICRON electronics Australia Pty Ltd	14:40 – 15:00
<b>Afternoon Tea</b>			15:00 – 15:30
<b>Solar</b>			
Temporal and spatial variability of distributed PV impacts on Australian distribution network load profiles	Navid Haghdad	School of Photovoltaic and Renewable Energy Engineering, UNSW	15:30 – 15:50
DER Mapping and Real-time Feedback for Embedded Solar PV in Australian Distribution Networks	Nick Engerer	Fenner School of Environment and Society ANU College of Medicine Biology and Environment	15:50 – 16:10
	Ken Ash	CIGRE C6 Panel	16:10 – 16:30
<b>CONFERENCE CLOSE</b>			