

ASIA PACIFIC CONFERENCE ON INTEGRATION OF DISTRIBUTED ENERGY RESOURCES

Pullman, Melbourne on the Park, 192 Wellington Parade, Melbourne, Vic, Australia











Day 1 - 20th August	Presenter	
Registration		8:00 - 9:00
Welcome and Keynote		9:00 – 10:30
Welcome & Conference Introduction		
Keynote Speaker The Role of Distributed Resources in Transforming the Energy System and Market	Violette Mouchaileh Executive General Manager, Emerging Markets and Services,	AEMO
Opportunities from DER? How do we Create a Future where DER Benefits Customers and the Energy System?	Laura Jones	TasNetworks
Morning Tea		10:30 – 11:00
Storage		11:00 – 11:20
Western Power's Perenjori BESS - Functionality and Operational Experience	Nathan Kirby	Western Power
Voltage		11:20 – 12:40
Understanding the Impact of Very High Penetrations of Rooftop PV on Power Transformer Tap-changers	Olav Krause	University of Queensland
Solving the Problem of Excessive Voltage Rises Caused by Rooftop Solar Using Voltage-regulating Distribution Transformers	Peter Kilby	Energy Queensland
Narara Ecovillage Case Study – Delivering 100% Solar Import and Export Capable, Zero Emissions Smartgrid	Toby Roxburgh	Electromotiv
Dynamic Voltage Management System	Hedy Dalvand	United Energy
Lunch		12:40 – 13:40
Inverters and System Performance		13:40 – 15:00
Dynamics of Inverters with Synchronous Machines	Gerard Ledwich	Queensland University of Technology
Frequency Response Provision from Distributed PVs Considering the August 2018 Separation Events in Australia	Mehdi Ghazavi Dozein	University of Melbourn
Data-driven Insights into Distributed PV Behaviours - Balancing System Level and Distribution Needs	Naomi Stringer	University of NSW
Provision of Time Constrained Grid Services through Energy Constrained Distribution-Side Resources	Shariq Riaz	University of Melbourn
Afternoon Tea		15:00 – 15:30
Testing		15:30 – 16:10
Protection, Automation and Control with Distributed Energy Resources - Testing Issues	Maryam Khallaghi	OMICRON
Hardware-in-the-Loop Test for DERs: A Powerful Benchmarking Tool	Ke Meng	University of NSW
NGN Panel Session		16:10 – 17:4
Managing the Impact of DER on Grid Stability Peter Kilby (Energy Queensland), Cheryl Noronha (AEMO), Sasan Zabihi (ABB), Glen Summers (AGL Energy), Olav Kraus (University of Queensland)	Jacqui Mills (Moderator)	

Day 2 - 21st August	Presenter	
Registration		8:00 - 8:30
Harmonics		8:30 - 9:30
Harmonic Emissions Studies of Large Renewable Energy Farms; Modelling and Data Management Learnings	Jason David	University of Wollongong
Harmonics Considerations when Connecting Power Electronics (PE) Interfaced Generation	Kevin Tu	WSP
Network and Generator Modelling for Harmonic Compliance	Marius Jansen	Optimised Network Equipment
STATCOMs and Synchronous Condensers		9:30 - 10:30
Sizing STATCOMs for Step Voltage Change Criteria	John Wright-Smith	AMSC
Performance Testing of LV STATCOMs	Jason David	University of Wollongong
Application of Modern Synchronous Condensers to Support Distributed Energy Resources	Derrick Nofal	ABB
Morning Tea		10:30 – 11:00
Keynote Speaker		11:00 – 12:00
DER in a Decarbonised, Decentralised and Democratised Grid	Lachlan Blackhall	ANU
DER Orchestration		12:00 – 12:40
Maximising Grid Utilisation through Constraint Based DER Orchestration	Olav Krause	University of Queensland
Quantifying the Effects of Electric Vehicles on the Tasmanian Low Voltage Network	Michael Jurasovic	TasNetworks
Lunch	_	12:40 – 13:40
Inverters		13:40 – 15:10
Grid-forming Converters and Benefits to the Grid - ABB's Experience	Stephen Sproul	ABB
From Inverter Standards to Understanding Inverter Behaviour for Small-scale Distributed Generation	Leonardo Callegaro	University of NSW
Power Quality Response Modes	Sanika Willard	CutlerMerz
Power Quality Response Modes - Panel Session	Jenny Gannon (Moderator)	
Afternoon Tea		15:10 - 15:40
Active Distribution Systems		15:40 – 16:40
Techno-economic and Business Case Assessment of University of Melbourne Virtual Power Plant	Han Wang	University of Melbourne
Carnarvon Microgrid Trial	David Stephens	Horizon Power
Insights into the DER API Working Group in Australia	Andrew McConnell	Energy Queensland
Conference Close		16:40 - 16:50

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









