

## **Conference on Integration of Distributed Energy Resources** CIGRE Australian Panel C6 Distribution Systems and Dispersed Generation

WEDNESDAY 19 <sup>th</sup> August					
8:00 am - 1:30 pm	Registration	3:30 pm	Session - Case Studies		
Tech ====================================	ented by Queensland University of mology and the University of Queensland 		PSC's Investigation into Charging Electric Vehicles from Distributed Solar Generation Ranil de Silva, PSC Group King Island: A Case Study in Achieving High Levels of Renewable Energy in a Hybrid Off- Grid Power System Ryan Willems, Hydro Tasmania		
Terry Austr Confe Ken A Sessi Inves Techi Matt Oper The C Heler Clean Rene Austr Tom Back Greg	erence Opening Ash, Chair CIGRE Australian Panel C6 on - Status, Trends and Policy stigating the Impact of Emerging nologies on the NEM a Armitage, Australian Energy Market	4:15 pm 5:45 pm - 8:	Next Generation Network (NGN) Event Skill Sets Required for DER Nick Pappapetros, Ergon Energy Mark Paterson, CSIRO Geoff Walker, Queensland University of Technology Tim Quirey, Department of Energy and Water Supply Alexandra Price, Energex 00 pm Social Event / Networking Dinner		



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Thursday 20 <sup>th</sup> August					
8:00 am - 1 8:30 am	Session - Energy Storage Supply Reliability for Remote Locations via Energy Storage Stephen Richardson, Ergon Energy The Importance of Control Systems and	1:30 pm	Session - MV & LV Statcoms Dynamic Grid Stabilisation Utilising Statcom Technology Devern Hill, Statcom Solutions Voltage Regulation of Distribution Networks with High Levels of Residential PV with a Centralised STATCOM Stephen Sproul, Ergon Energy		
	Information for Management of Energy Storage Systems Nicola Wilkins, Sunverge Energy		LV Statcoms and Storage for Voltage Management in Distribution Systems Dr. Mike Wishart, Power IQ		
	Integration of Storage in Australia's Energy Markets Dr. Julian Eggleston, Australian Energy Market Commission		<b>Session - Inverters and Grid Interaction</b> <i>Smart Inverters - A Smart Grid Study</i> Rod Dewar, Fronius Australia		
	Residential Storage - An Assessment Michelle Taylor, Ergon Energy		The New Requirements of AS4777 (2015): Grid Connection of Energy Systems via Inverters Michelle Taylor, Ergon Energy		
	Session - Variable Voltage Transformers The Minera SGrid Regulating Transformer		Afternoon Tea		
	Max Decker, Schneider Electric An Economic Voltage Optimized Distribution Transformer Gary Cox, Wilson Transformer Company	4:00 pm	Session - Power Quality Power Quality Implications of High Penetration of Small Scale Renewable Energy Systems Sean Elphick, University of Wollongong		
	Morning Tea		<b>Session - Voltage Control</b> A Study into Effects and Mitigation of Increasing DER Penetration on Voltage Regulation in LV and SWER		
11:00 am	Session - Status, Trends and Policy 100% Renewables for Australia? Challenges and Opportunities Dr. Jenny Riesz, University of NSW		Distribution Systems Dr. Tim Browne, PSC Australia Voltage Regulation Challenges in Distribution Networks		
	Distributed PV Generation Estimates from the APVI Live Solar Map Navid Haghdadi, University of NSW		with Rooftop PV Systems and Possible Mitigation Using Reactive Power Control and Battery Energy Storage Dr. Md Jan E Alam, University of Queensland		
	Lunch – BMW i3 on show		Managing Distribution Voltages in South East Queensland with Increasing Penetrations of Solar DER Peter Kilby, Energex		

Closing remarks and summary - Ken Ash, Chair CIGRE Australian Panel C6