

NGN and WiE Australia Update

CIGRE NZ Inaugural Conference 2020



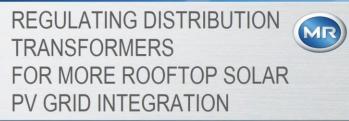


- 223 NGN members
 - 26 members on NGN committee
 - 4 online meetings per year as a group
 - Bi-monthly individual catch-ups with co-chairs
 - Co-chairs attend board meetings
- Corona Times Newsletter contributions
- Continued relationship with NGN NZ, NGN Japan, active participation in International NGN committee
- CIGRE Paris scholarship positions

NGN Australia Webinars



- 4 webinars so far this year
 - STATCOMs
 - VSC HVDC
 - Control Strategies Addressing Inverter Impacts on the System
 - Regulating Distribution Transformers for Greater Rooftop PV Integration
- 2 more planned
 - Synchronous Condensers (August)
 - Fibre Optic and Network Fundamentals (September)



July 2020

Reinhausen Australia, Dr Thomas Smolka



Wide Area Synchronous Machine and Inverter Control

Prof Gerard Ledwich

QUT







STATCOM – STATic synchronous COMpensator

How does a STATCOM work?



The reactive power output at the terminals of a STATCOM depends on the amplitude of the voltage source

If the terminal voltage of the STATCOM is higher than the voltage at the point of connection, the STATCOM generates a capacitive current

If the terminal voltage of the STATCOM is lower than the voltage at the point of connection, the STATCOM absorbs an inductive current



Future Goals



- Comfortable with size of membership pool, committee
- Focus on outreach and collaboration activities
- Once travel restrictions lift, looking to continue progress regional visits and catch-ups
- Looking to continue facilitating webinars next year on a bimonthly basis
- Looking to develop new ways to engage the NGN, such as energy trivia nights, think tanks and e-learning events in 2021



Australia Women in CIGRE Group



- CIGRE Australia and the NGN are keen to start a CIGRE WiE Group
- This mirrors groups established by other CIGRE national committees
- The group will be announced at this year's online Paris WiE Forum









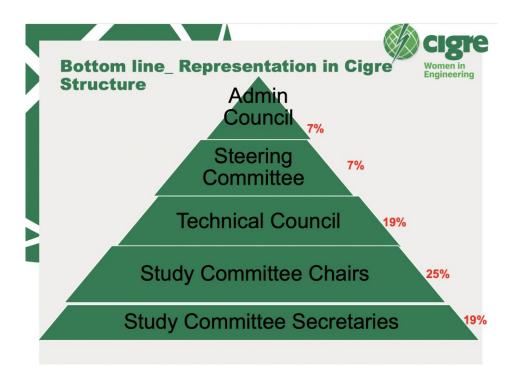
Representation in CIGRE	# F/M	%
Executive Board	2/10	20%
AU National Committee	1/16	6.25%
Conveners		
Panel membership	14/290	4.9%







Global CIGRE female participation is at 8%



List of National Committees with a Women in Engineering network:

National Committee	Name of WiE chair	
Brazil	Carla DAMASCENO PEIXOTO	
Bosnia and Herzegovina	Maja MUFTIC DEDOVIC	
Canada	Robyn KOROPATNICK	
Croatia	Ivana DAMJANOVIC	
France	Alexia VENET-JALADE	
GCC	Alaa ALKIYUMI	
India	Seema GUPTA	
Iran	Nasim NEMATOLLAHI	
Kosovo	Pranvera DOBRUNA KRYEZIU	
Netherlands	Luis HURTADO	
New Zealand	Rebecca MARX	
Romania	Mihai MARCOLT	
Russia	Frolova OLGA	
Slovenia	Ana LOVRENCIC	
South Africa	Khayakazi DIOKA	
Sweden	Susanne OLAUSSON	
United Kingdom	Biljana STOJKOVSKA	



Women in CIGRE Finger Down Challenge



NGN Australia Website



- New separate website for NGN Australia
- Drive new memberships, streamline sign-up process and information sharing
- Host range of new WiE content and initiatives
 - Profiles page
 - Opportunities page
 - Mentoring program
 - Links events





Thanks for Listening!