

2021 Conference
November 24-26



C6 Panel invitation

Active distribution systems and distributed energy resources

New Zealand's medium and low voltage networks are undergoing rapid transformation as distributed and mobile generation brings us closer to achieve a carbon net zero outcome. The increasing impact of distributed energy resources (DER) needs to be addressed, witnessed by higher penetration of inverter-based generation reducing system inertia of networks.

This free CIGRE NZ C6 session will bring together *distribution utilities, DER developers, service providers, manufacturers and consultants* to share knowledge in shaping the implementation of interactive distribution networks

Join us online **12:30 to 1:30 pm Thursday 25 November 2021** and be involved in shaping the direction of the C6 Panel and its topical principal areas of interest, facilitated by Nasser Faarooqui alongside André Cuppen:

- Industry knowledge and practice for New Zealand connection frameworks
- Impact assessment of DER
 - Voltage issues
 - Power quality – harmonics and flicker
 - Unintentional islanding
- Network protection with increased DER
- Development of Microgrids
- New technologies, tools and services for DER
 - ADMS, DERMS, Smart transformers and other assets
 - Services for EDB - peak shaving
 - Ancillary services for national grid
 - Switching technologies and automation for improving SAIDI, SAIFI

Looking forward to your participation with us in this rapidly evolving space

Join us by free registration at www.cigre.org.nz

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D2 Panel invitation

Information systems and telecommunication inc. Cybersecurity

New Zealand's end-to-end power systems and their active distribution connections are reliant on information systems and tele communications for their successful operation and electricity connection with our customers. These business Operational Technology systems must be resilient to cyber security threats: exploring these challenges and our strategies are the remit of the CIGRE NZ D2 Panel.

This free session will bring together *generation, transmission, distribution and retail utilities, IT and IOT developers, service providers, manufacturers and consultants* to share knowledge in shaping our strategies to these IT challenges to our network operation and its security of supply for customers

Join us online **12:30 to 1:30 pm Thursday 25 November 2021** and be involved in shaping the direction of the D2 Panel and its topical principal areas of interest, facilitated by industry specialist Abhinav Chopra alongside Stephen Chiu:

- Industry knowledge and practice within New Zealand and internationally
- Impact assessment of cybersecurity needs inc. CIGRE references:
 - TD 1: Telecom network technologies and management
 - TD 2: Implementation of the networks of the future
 - TD 3: New digital trends used by EPU and new business services
 - TD 4: Cybersecurity

Refer to the full CIGRE documentation at:

[https://d2.cigre.org/userfiles/files/Strategic%20Plan%20SC%20D2_2018-2028%20\(Olga%20V_%20Sinenko\)%20ind2.pdf](https://d2.cigre.org/userfiles/files/Strategic%20Plan%20SC%20D2_2018-2028%20(Olga%20V_%20Sinenko)%20ind2.pdf)

Abhinav heads (CTO/CISO) the Future and Advanced Technology Security and Architecture portfolio working with Cyber Security, Big Data, AI, Blockchain, Distributed Systems, Cloud, ISA99 and IoT.

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