

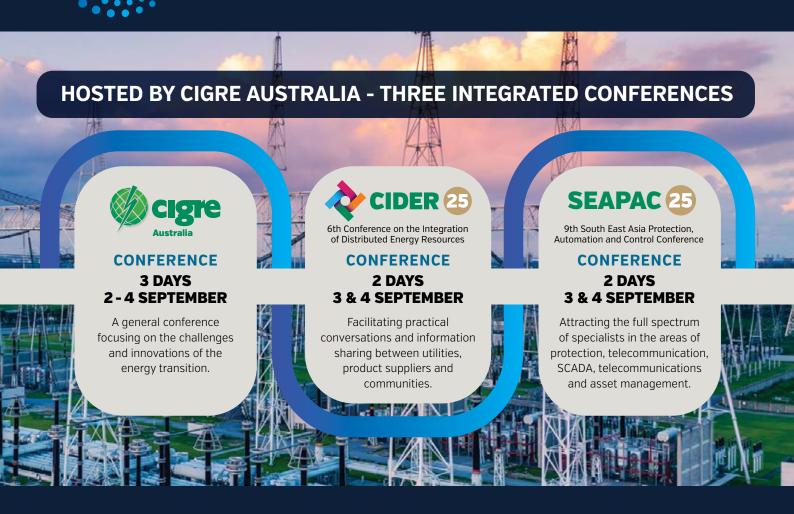






# Shaping the Power Systems of Tomorrow

2-4 SEPTEMBER 2025 | ADELAIDE CONVENTION CENTRE



# DELEGATE EVENT INFORMATION

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# Welcome to the 2025 CIGRE Australia Conferences



CIGRE Australia is delighted to welcome you to our 2025 CIGRE Australia conferences.

This year's conferences are our largest and most comprehensive event of the year, bringing together industry leaders, technical experts, and emerging professionals from across the region. The program proudly includes:

- The 9th South East Asian Protection, Automation and Control Conference (SEAPAC25)
- The 6th Conference on the Integration of Distributed Energy Resources (CIDER25)
- Plenary sessions focused on the ongoing energy transition
- A Leadership Breakfast hosted by Women in Energy
- Dedicated sessions and networking opportunities for Next Generation Network (NGN) professionals

A focused technical event of this nature does not take place in Australia very often and we are proud to host such a significant gathering of talent and innovation.

We hope you find the conferences insightful, inspiring, and a valuable opportunity to connect with peers shaping the future of energy.

Enjoy the event!

**Dr Seán Mc Goldrick** Chair CIGRE Australia Peter McIntyre Chief Executive Officer CIGRE Australia



# **WELCOME TO ADELAIDE!**



Adelaide Convention Centre is proud to support the CIGRE Australia Conferences and welcomes delegates to Adelaide, South Australia.

Ranked one of the world's safest, green and most liveable cities, Adelaide is a vibrant and welcoming destination known for its delicious food and wine, pristine beaches, and thriving arts, culture and festival scene.

Conveniently located in the heart of the city, Adelaide Convention Centre puts people and experiences at the centre of business events. From sustainable practices to nutritionally balanced culinary creations, there's plenty to discover and enjoy in Adelaide, Australia's Convention City.





SCAN THE OR CODE OR VISIT ADELAIDECC.COM.AU/DISCOVER TO DISCOVER ADELAIDE, AUSTRALIA'S CONVENTION CITY.

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# General Details

#### **VENUE**

The Adelaide Convention Centre is before one of the world's most modern, versatile and technologically advanced venues located at the heart of Adelaide's vibrant Riverbank.



The Centre is just a short 15 minute drive from Adelaide Airport. Once you've arrived, we're conveniently located at the heart of Adelaide's city centre, easily accessible whether you're walking or taking advantage of Adelaide's extensive public transport network.

#### **CAR PARKING**

**GETTING THERE** 

With easy access and ample parking across two secure undercover car parks – our North Terrace & Riverbank car parks – getting to and from your event at Adelaide Convention Centre couldn't be any easier.

#### **EAT AND DRINK**

Adelaide is renowned for its vibrant food and drink culture, offering flavours and experiences that rival the best in the world. To keep you fuelled throughout the conference, morning tea, lunch, and afternoon tea will be provided each day. Take this time to recharge, connect with fellow delegates, and enjoy a taste of what Adelaide has to offer.

#### STAYING UP TO DATE - DOWNLOAD THE EVENT APP

To stay up to date with all event information, make sure you've downloaded the **CIGRE Australian Conference app**. The key to using the app effectively is to keep it refreshed. Updates to the program will only appear once the app is refreshed. To do this, tap the cog icon in the top right corner of the home screen and select "Refresh" to load the latest content. If you experience any issues, please see one of our friendly conference team members at the registration desk for assistance.

#### **CONFERENCE PROGRAMS**

Detailed programs are provided on the conference website cigreconference.com.au. Programs are subject to change. Final programs are available to registered delegates via the conference app.

#### REGISTRATION

The conference registration desk is situated in the main foyer on the ground floor of the Adelaide Convention Centre. Conference registration times are as follows:

Monday 1st September 2.00pm - 5.00pm
Tuesday 2nd September 7.00am - 6.00pm
Wednesday 3rd September 7.00am - 6.00pm
Thursday 4th September 7.00am - 5.00pm

#### **NAME BADGES**

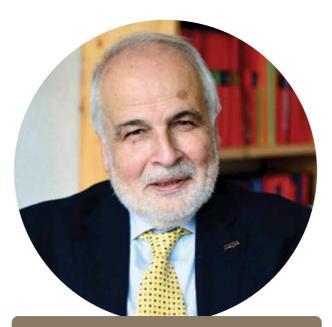
Your Conference name badge is your passport to all official Conference sessions and exhibition area, please ensure that your NAME BADGE is worn at all times to gain entry.

#### **SOCIAL EVENTS**

If you have pre-registered for any of the Social events these will be printed on your Name Badge.

# THE POWER TO ADAPT Designed to connect and protect an evolving grid Visit us at Booths 60 & 61 to discover ABB's SF6-free medium voltage switchgear and Digital substation solutions.

# Conference Keynote Speakers



**Professor Konstantin Papailiou** 

President of CIGRE

CIGRE and the Energy Transition

With over four decades years of experience in the power systems sector, Professor Konstantin Papailiou brings unparalleled insight into power systems on a global scale.

Former CEO of the Pfisterer Group, he holds a Ph.D. from ETH Zurich and a Dr.-Ing. habil. from the Technical University of Dresden, where he is honorary professor. Papailiou has published a number of books and over 100 papers and served as editor of several influential publications.

Konstantin will provide an international perspective on the scale and complexity of the transition and CIGRE's pivotal role in helping deliver it.



Ms Nicola Falcon

EGM System Design, AEMO
The New Frontier for Australia's
Power Systems

Nicola brings over 25 years of experience in the energy sector across Australia, New Zealand, Asia, Africa, and North America. Nicola has been recently appointed to the role of EGM System Operations. Most recently, she has led real-time operations and market reform in Western Australia and provided expert insights to guide future gas and electricity system planning. Previously, Nicola led major transmission planning and generator connections in Victoria. She holds graduate and postgraduate degrees in Management Science and is a passionate advocate for gender equity in the energy industry.

Nicola will provide a forward-looking perspective on the scale and nature of the Australian transition, including the challenges and opportunities.

# **SIEMENS**

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# Conference Keynote Speakers



Associate Professor Tim Nelson

Chair, Review of the NEM Wholesale Market Settings

NEM Review

Draft Report and Recommendations

Tim is Chair of the independent review of Australia's National Electricity Market (NEM), due to report in late 2025. A former senior executive at Iberdrola Australia, AGL Energy, and the Australian Energy Market Commission, he is also an Associate Professor at Griffith University and a published economist.

Tim's current research focuses on electricity tariff design in high-renewables systems, corporate climate strategies, and energy sector mitigation modelling.

As Chair of the NEM Review and a respected energy economist, Tim brings deep insights into the evolving dynamics of Australia's energy markets. Tim will provide an update on the work of the Australian Government's review of the NEM's wholesale market settings, outlining the key recommendations from the review panel's recently released draft report.



**Captain Mona Shindy CSC** 

### Leadership Breakfast Guest Speaker

Captain Mona Shindy is a retired Naval officer with over 30 years of military and business experience. With multiple degrees, including in engineering, Mona has been a trailblazer in male-dominated environments, consistently delivering outstanding organisational outcomes.

Mona will deliver an engaging and inspiring talk on leadership. Her story is one of forging new paths never before traversed, with courage, integrity, resilience and grit.

Through measured risk-taking, systems thinking and reliance on strong emotional intelligence, Mona has been a highly successful, project director, change agent and organisational leader.

In 2015 she was recognised as the National Telstra Business Woman of the Year and was awarded a Conspicuous Service Cross in the Australia Day honours list for outstanding service as a strategic intercultural advisor.



# PROGRAM OVERVIEW - Major Streams and Room Allocations

Times   Days	Tuesday 2 September 2025  Registration opens from 7:00am Coffee served from 8:15am				Wednesday 3 September 2025  WIE Breakfast - Ticketed Event from 7:15am Registration opens from 7:00am Coffee served from 8.30am			Thursday 4 September 2025  Registration opens from 7:00am Coffee served from 8:30am		
		<b>%</b> c	igre		General, Hall L	CIDER, Rm City 1/2	SEAPAC Rm City 3/4	General, Hall L	CIDER, Rm City 1/2	SEAPAC Rm City 3/4
8:45am - 10.30am	Welcome and Keynote Speakers				Market design and development	Managing High Penetration of DER	Transmission System Protection	Modelling and performance considerations for future power systems	Distribution Planning	Fleets and Big Data
	Prof Konstantin Papailiou, President of CIGRE  Ms Nicola Falcon, AEMO  A/Prof Tim Nelson, Chair, Review of the NEM								DER Field Behaviour	
10:30am - 11:00am	Morning Tea				Morning Tea			Morning Tea		
	General, Riverbank 7	General, Hall L	General, Rm City 1/2	NEXTGEN, Rm City 3/4	General, Hall L	CIDER, Rm City 1/2	SEAPAC Rm City 3/4	General, Hall L	CIDER, Rm City 1/2	SEAPAC Rm City 3/4
11:00am - 12:30pm	Tutorial: Power System Dynamic Modelling and	Disturbances and Transition Issues	Power System operations	Professional and Personal Development	Connection of large inverter based resources and loads	ADMS & DERMs	Virtualisation and Interoperability	Impact of renewable integration on power system	Voltage Management	Measurements for Protection, Monitoring, and
	Analysis in Evolving Networks	DER Developments		for the NEXTGEN				equipment	Quality of Supply	Metering
12:30pm - 1:30pm	Lunch				Lunch			Lunch		
	General, Riverbank 7	General, Hall L	General, Rm City 1/2	NEXTGEN, Rm City 3/4	General, Hall L	CIDER, Rm City 1/2	SEAPAC Rm City 3/4	General, Hall L	CIDER, Rm City 1/2	SEAPAC Rm City 3/4
1:30pm - 3:00pm	Tutorial: a generic risk	Storage, storage	Power system oscillation	Engagement and Insights	Modelling and performance of	DOEs	Distribution Feeder Protection and	New and emerging modelling tools	Scheduling price responsive DER	Testing, Commissioning,
	management framework	modelling and development	assessment and monitoring	from the Power Industry	grid forming inverters	Hosting Capacity	Monitoring	and techniques	NGN Session	and Operations
3:00pm - 3:30pm	Afternoon Tea				Afternoon Tea			Afternoon Tea		
	General, Riverbank 7	General, Hall L	General, Rm City 1/2	NEXTGEN, Rm City 3/4	General, Hall L	CIDER, Rm City 1/2	SEAPAC Rm City 3/4	General, Hall L	CIDER, Rm City 1/2	SEAPAC Rm City 3/4
3:30pm - 5:00pm	Power system harmonics	Integration of large scale renewables	System Strength	NEXTGEN Technical Presentations	Enabling REZ success Regulatory	System Planning	Large Network Protections	Digitalisation, Digital twins	Stand Alone Power Systems	Challenging Protection
					frameworks, Market access and	NGN Session			and Microgrids	Applications
					investment signals	Energy Storage		Closing remarks	Microgrids	
5:00pm - 6:00pm	Welcome Function and Networking Hall MNO				Networking					
6:30pm - 7:00pm	Ne			NGN Networking	Gala Pre Dinner Drinks			Conference Ends		
7:00pm - 10:00pm				Function		Gala Dinner				



# Shaping the Power Systems of Tomorrow









2-4 SEPTEMBER 2025 | ADELAIDE CONVENTION CENTR





We are power system engineering consultants specialising in modelling, simulation, and analysis.

Established in 2021 with headquarters in Melbourne, and a presence in **Sydney** and **Brisbane**.

We are a **team of over 30** power system engineers working on the biggest projects in Australia.



**Developers, OEMs** and Financiers on utility scale generators (wind, solar & battery)



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- **m** 0475 706 777
- **e** boconnell@spsconsulting.com
- a 6B 99 William Street Melbourne VIC 3000

# **General Conference**



## **TUESDAY 2nd to THURSDAY 4th SEPTEMBER 2025**

The **General Conference**, focusing on the energy transition, is a central element of the suite of conferences on offer at the CIGRE Australia 2025 Conference.

Held over all three days, the **General Conference** explores many of the key themes associated with the energy transition. These themes include electricity markets, system modelling and performance, the integration of renewables and storage, and DER.

> With three keynote presentations, two in-depth tutorials and over

> > full of informative and technical content.

A highlight for many will be a dedicated session on disturbances and transition issues which will provide perspectives on recent global issues.

90 presentations, the **General Conference** is packed



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# The 6th Conference on the Integration of Distributed Energy Resources

## **WEDNESDAY 3rd & THURSDAY 4th SEPTEMBER 2025**

cider25 has been established as a platform for practical conversation and knowledge exchange between utilities, product suppliers, and communities. Its goal is to address the challenges and opportunities presented by distributed energy resources (DER), and to drive the development of workable technical solutions for integrating DER into both today's and tomorrow's electricity networks.

As DER continues to reshape the power sector, CIDER offers an essential forum for those seeking practical know-how in this fast-evolving space. The conference promotes real-world learning and collaboration across industry, providing the tools and insight needed to navigate the complexities of DER deployment and integration.

The CIDER25 program will feature 12 focused sessions, interactive and panel Next Generation Network (NGN) sessions, and 40 technical presentations.

Attendees will gain access to innovative solutions, field-proven strategies, and expert perspectives on enabling a resilient and flexible distributed energy future.







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Visit SEL at Booth #57

# Modernise Substations by Using Digital Secondary Systems

For over 40 years, SEL solutions have kept critical infrastructure operating worldwide. When Philippines-based Davao Light began an IEC 61850 substation upgrade, they turned to SEL to help integrate a digital secondary system that would enhance system-wide safety, visibility, and reliability.

Read the story: selinc.com/davao



# SEAPAC 25

# The 9th South East Asia Protection, Automation and Control Conference

### WEDNESDAY 3rd & THURSDAY 4th SEPTEMBER 2025

**SEAPAC25** brings together the leading expertise in the protection and automation fields across Australia, New Zealand and the South East Asia region.

SEAPAC attracts the full spectrum of specialists in the areas of protection, telecommunication, SCADA, telecommunications and asset management.

Asset owners, vendors, consultants, education and service provider organisations will be key contributors to the conference.

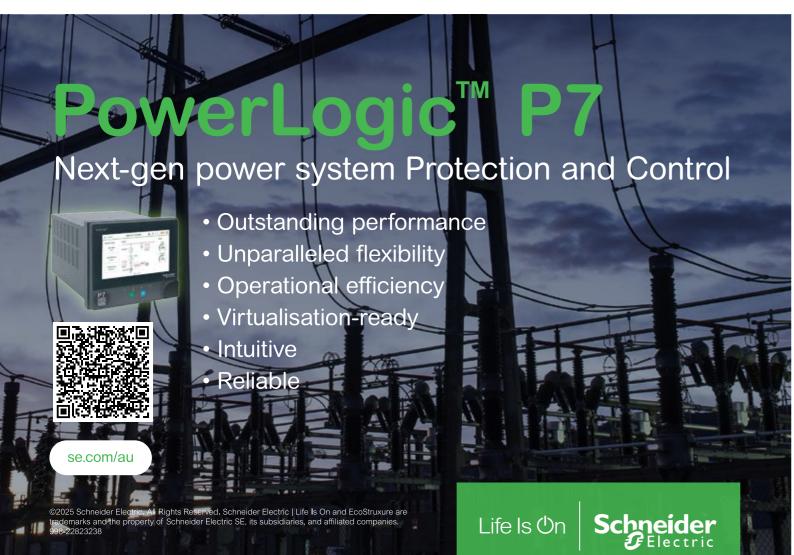
Over the course of two full days, **SEAPAC25**will feature eight technical sessions
comprising more than 35 expert
presentations, focusing on the design,
operation, and integration of
protection and automation systems
across modern power networks.
Topics will cover advances in
protection philosophies, digital
substation implementation,
condition monitoring techniques,
and real-world case studies from
across the Asia-Pacific region.

# Proudly made in Australia Innovating with Purpose Partnering with Values









# The **NEXTGEN**Power Professionals Seminar

## **TUESDAY 4th SEPTEMBER 2025**

The **NEXTGEN Power Professionals Seminar**, hosted by the CIGRE Australia Next Generation Network [NGN], is a key part of the CIGRE Australia 2025 Conference.

This one-day event is hosted by the next generation, for the next generation.

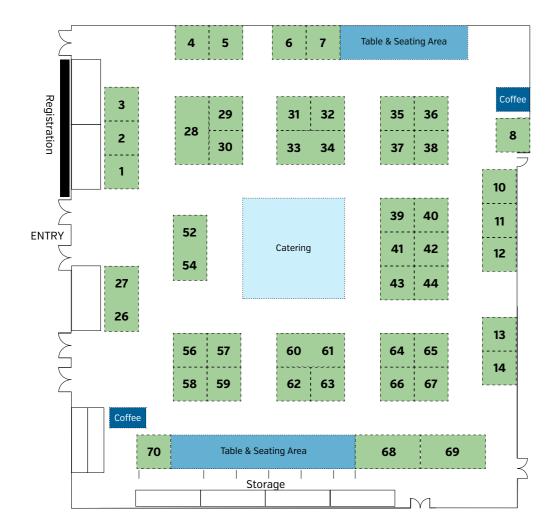
### What to expect:

- Four dynamic sessions
- Tutorials, technical presentations and interactive workshops
- Opportunities to connect with industry peers including an off-site networking event in the evening

Whether you're just starting out or building momentum in your career, this seminar offers the chance to be part of the conversation shaping the future of energy.



# FLOOR PLAN - Exhibition Hall



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60/61	ABB			
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13	Australian Power Institute			
37	Consolidated Power Projects Australia			
1	CSE Uniserve			
52/54	Digsilent			
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2	DNV			
32	DT Partners			
65	Dynamic Ratings			
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31	Power Consultants			
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26/27	Reinhausen Australia			
6	RMS Electrical			
64	Schneider Electric			
57	Schweitzer Engineering Laboratory			
33/34	Siemens			
39	Smarter Power Solutions			
68	TBEA Shenyang Transformer Group Co., Ltd			
69	TBEA Shandong Luneng Taishan Cable Co., Ltd.			
58	TEN Group			
4	TS Conductor			
66	Tyree Transformers			
63	Vaisala Oyj			
11	VIVA Energy Australia			
41	Wilson Transformer Company			

# Thankyou to all our Exhibitors





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The Australian



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TEN



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**Energy** Australia



TRANSFORMERS

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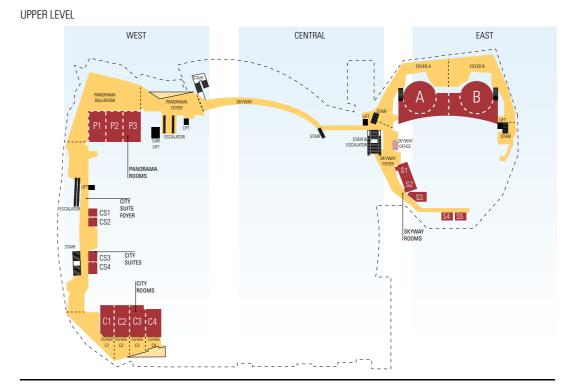
Wilson Transformer



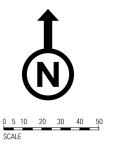
# Delivering **rapid success** in the energy transition

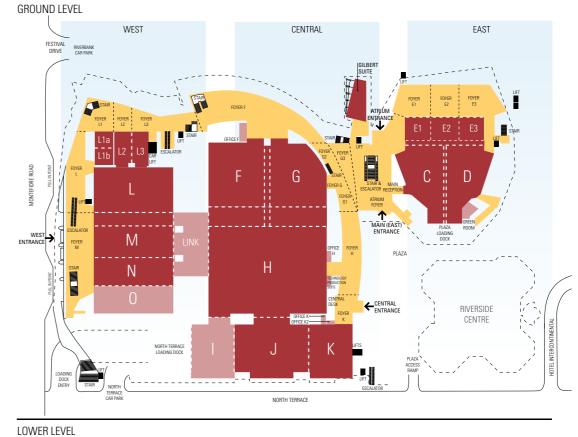


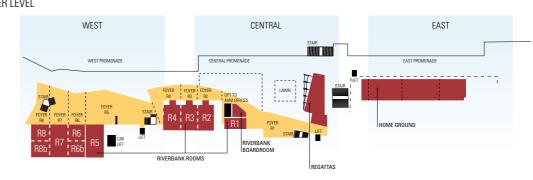
# MAP - Adelaide Convention Centre















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# Want to be part of the future of energy? Join CIGRE Australia.



CIGRE is the global network for power system professionals, providing access to worldleading expertise, innovations, and technical resources. Whether you're managing ageing infrastructure, planning for future networks, or seeking to reduce costs, CIGRE empowers individuals and organisations with practical, up-to-date knowledge.

#### **Key Benefits of CIGRE Australia Membership**

- Access to a global pool of experts and technical resources
- Stay current with leading-edge technology and industry trends
- Professional development and networking opportunities
- Free or discounted access to journals, papers, and technical brochures
- Free or reduced registration fees for major CIGRE events
- Opportunities to contribute to technical Panels and Working Groups
- Be part of the energy transition and international collaboration

## **CLICK HERE TO JOIN TODAY**

### **Membership Types**

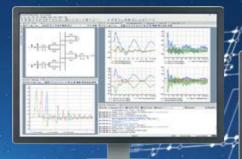
- Individual Member I Professionals involved in the power industry.
- Individual Member II For professionals under 35: discounted for the first two years.
- Student Member Full-time tertiary students under 35.
- Collective Member IA Organisations with over 500 employees.
- Collective Member IB Organisations with under 500 employees.
- Collective Member II Universities and educational institutions.

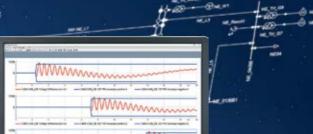
#### **Additional Opportunities**

- Australian Technical Panels: Join expert groups shaping industry directions (additional fee applies).
- Next Generation Network (NGN): A vibrant network for young professionals under 35.

# **Be Part of the Future** of Power Systems.

Join CIGRE and connect with a community that's shaping the future of electricity.







## **POWER**FACTORY

### Steady-state, Harmonics, Transient Stability and EMT – All in One Place

Design, simulate and understand your power system

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- Initialise your simulation with a flat-start from your load flow
- Perform classical EMT analyses e.g. TRV, switching and lightning
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- Average and switched power electronics with detailed controller
- Collaboratively share models with more than 200 other tools using FMI
- Extract IBR impedance characteristics and use in impedance stability
- Scale up your analysis from small to large power systems
- · Automate studies using Python and parallelisation
- Efficiently visualise and report results

#### **POWER SYSTEM SOLUTIONS**

For more information visit: www.digsilent.com.au

# Celebrating a Decade of Service to the Power Industry across the Globe

Amplitude Consultants has been delivering successful outcomes for our clients across Asia Pacific and beyond since 2015. This year we celebrate ten years of commitment to the power industry and the strong, ongoing relationships that we have built with our clients, business partners and colleagues.

As we reflect on the last ten years, we would like to take the opportunity to thank our valuable team members and clients, past and present, for their loyalty and support.

With offices in Australia (Brisbane, Hobart, Darwin), Singapore, and New Zealand, our expert teams are strategically positioned to drive and support projects and engagements across the globe.



#### **Amplitude Delivers:**

- HVDC and FACTS
- Generator and Storage Project Connections
- Power System Modelling and
- Strategic Advisory and Planning
- Regulatory and Strategic Market
- Solar and BESS Owner's Engineer
- Overhead Transmission Line Engineering
- Microgrids and Hybrid Energy
- Protection and SCADA Engineering
- Transmission and Distribution Engineering
- Transmission and Distribution Cables
- Submarine Cables



## **GE Vernova MU360 PIU**

Substation Digitisation, Automation and Control

Deliver intelligent, digital substations with enhanced connectivity, integration and reliability with the MU360 Process Interface Unit from GE Vernova.

Equipped with analogue and binary interfaces for full switchyard modelling and control, the MU360 unlocks the full value and capabilities of a digital substation.



High I/O density with 14 I/O slots



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High speed, high break outputs for direct CB operation

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CSE Uniserve delivers leading automation and control solutions designed to safeguard individuals and protect valuable assets. Backed by industryleading qualifications, CSE Uniserve's specialist engineers leverage extensive experience to design, build and test systems for optimal performance.

Visit Stand 01A at CIGRE SEAPAC 2025 to speak to a CSE Uniserve representative.





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