

IEEE PES GTD ASIA 2025

Grand International Generation, Transmission & Distribution
Conference and Exposition Asia

PROGRAM BOOK



Accelerating The Energy Transition

Toward Carbon Neutrality – a Sustainable Energy Future for All

Conference

26-29 November 2025

Exposition

27-29 November 2025

Queen Sirikit National Convention Center (QSNCC)

60 Ratchadaphisek Road, Khlong Toei Sub-District,
Khlong Toei District, Bangkok 10110, Thailand



EGAT

FOR THE WORLD, FOR THE PEOPLE

Mission to Sustainability



We are advancing power generation from renewable energy sources — solar, hydro, and wind — that are sustainable for the world, while also enhancing their stability through efficient energy storage systems and modern technologies. This strengthens the power system security and ensures a sufficient electricity supply for a sustainable future and happiness of all Thais.



MEA
Metropolitan Electricity Authority



Renewable Energy: Your Direct Path to Clean Power Ownership

- Solar Rooftop EPC & PPA
- Energy Storage (ESS)



Smart Energy: Seamless Control for Sustainable Buildings

- Smart Energy Management
- Energy Audit & Efficiency



Customer Solutions: Tailored Innovation for Business Growth

- Customized Solutions
- Project Partnership



Charge Sure by MEA

The first and only **"Verification and Certification for EV Charging Station"** in Thailand. We offer verification and certification services for EV charging stations, adding value to your charging station and building the trust of EV users.

Our Services



Safety Sure

Ensure your charging station is 100% safe for every EV user.



Compatibility Sure

Ensure your charging station is compatible with all EV types.



Meter Accuracy Sure

Ensure your charging station's meter works perfectly and provides accurate pricing.

why us?

- The first and only service in Thailand offering full certification for Safety, Compatibility, and Meter Accuracy of EV Charging Stations.
- Certified by MEA's engineering specialists with international standardized laboratory and testing equipment.



More information Scan here



ENERGY VIBE SOLUTION

Developing innovations and new business models
in collaboration with partners to meet future market needs.

ENERGY VIBE SOLUTION

Products, innovations, and strategic partnerships
developed across three key business areas:

Infrastructure



Customers'
Infrastructure

Infrastructure EPC

Business Model

- EPC-M Business Model
- Electrical and Construction
- Nationwide
- Large Companies and Partnerships

Green & EE



Green Energy
Energy Efficiency
Environmental Sustainability

Sustainable Energy

Business Model

- EPC-M Business Model
- Renewable Energy , Energy Efficiency and Environmental Sustainability
- Nationwide
- Large Companies and Partnerships

Innovation



Platform

New S-Curve

Business Model

- Platforms and Solutions
- Support Customers' Goals: ESG, Cost - Effectiveness and Competitive Advantage



ปตท. แข็งแรงร่วมกับสังคมไทย
และเติบโตในระดับโลกอย่างยั่งยืน



Schneider Electric provides energy and automation **digital solutions** for **efficiency** and **sustainability**.

We drive digital transformation by integrating world-leading process and energy technologies, end-point to cloud connecting products, controls, software and services, across the entire lifecycle, enabling integrated company management, for homes, buildings, data centers, infrastructure, and industries.

Schneider's purpose is to **empower all to make the most of our energy and resources, bridging progress and sustainability** for all.

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Life Is On

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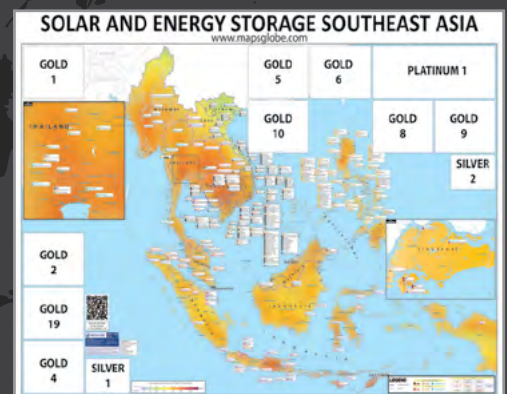
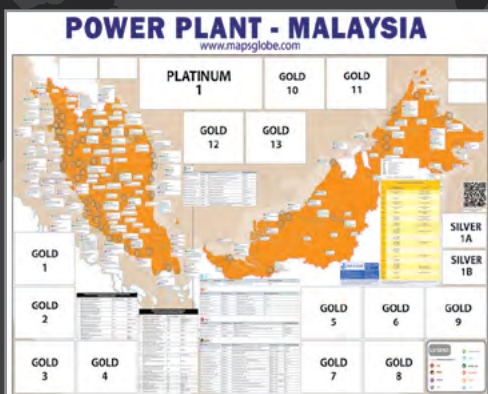
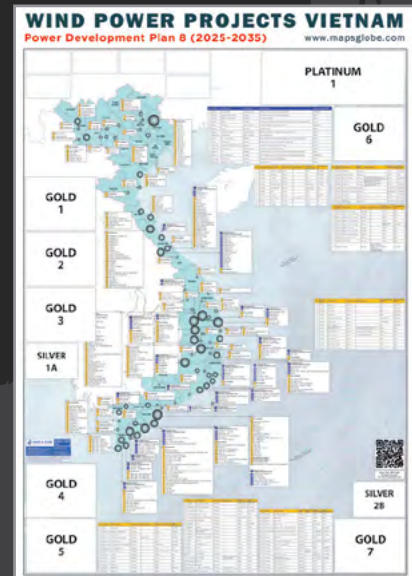
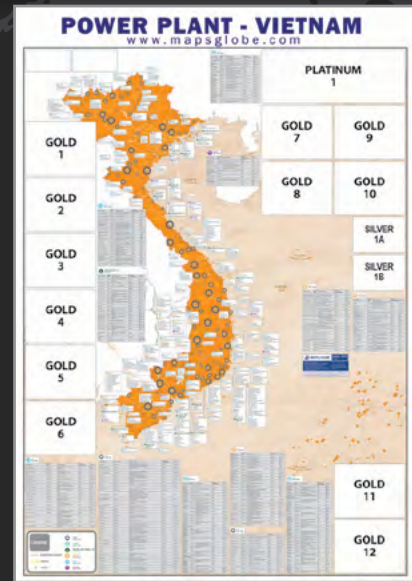
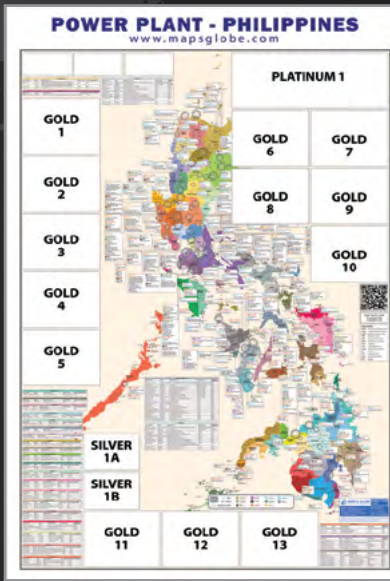
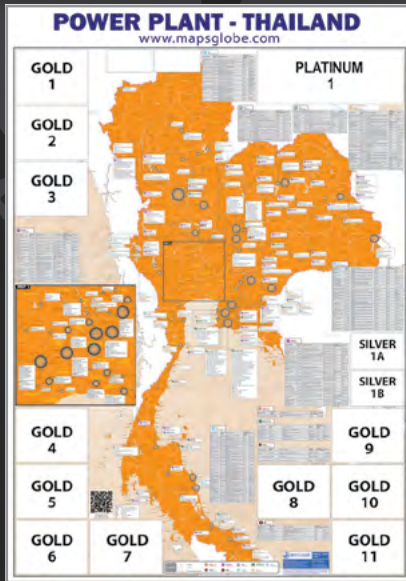
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WELCOME
MESSAGES

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WELCOME MESSAGES

Dr. Shay Bahramirad

President

IEEE PES GTD Asia 2025



On behalf of the IEEE Power & Energy Society, I would like to welcome you to the 2025 IEEE PES GTD Asia Conference & Exposition. This year's theme is focused on one of the core issues facing our industry -- accelerating the energy transition towards carbon neutrality. The technical program and conference activities enclosed in this program book have been crafted to give each of you the tools needed to help build a more sustainable future for everyone.

This week, you will have the opportunity to learn from leading global energy experts about the clean energy technologies and practices that must be prioritized to achieve the most economical, reliable and equitable energy future. Throughout every super session, keynote and exhibit, you will hear insights about the importance of investing in more renewable energy resources, establishing more energy efficient practices, and so much more.

I encourage all of you to listen and share knowledge with your fellow engineers and use this gathering to expand your network. The connections you make this week will allow all of us to continue these critical conversations beyond this conference. In order to achieve our goals, we must all work together, across borders and professional disciplines, to reduce global reliance on fossil fuels, improve the quality of life in our communities and meet future energy demand for generations to come.

I would also like to extend a special thank you to our host, IEEE PES Thailand Chapter, for having us here. Conferences like these don't happen without the organizers, authors, panelists and exhibitors working tirelessly to bring such an important event to life.

And finally, I join you in remembering Her Majesty Queen Sirikit, The Queen Mother. May her life be a legacy. I hope you enjoy the conference.



Dr. Narin Phoawanich

General Co-Chair, IEEE PES GTD Asia 2025

Chairman, IEEE Power & Energy Society – Thailand

Governor, Electricity Generating Authority of Thailand (EGAT)

It is a great honor and privilege to welcome representatives from the IEEE Power & Energy Society (PES) headquarters and all distinguished delegates to the IEEE PES GTD Conference and Exposition Asia 2025, hosted in Bangkok, Thailand. This prestigious event serves as a significant platform for global experts, researchers, and industry leaders to exchange knowledge, present innovations, and foster collaboration toward a sustainable and resilient energy future.

Playing a vital role in the energy industry of the nation, Electricity Generating Authority of Thailand (EGAT) is steadfast in our mission to advance the nation's energy transition through innovation, digital transformation, and the integration of clean and smart energy technologies. As striving toward the achievement of Net Zero Emission for the sustainable generations in the future,

our vision is vigorously aligned with Environmental, Social, and Governance (ESG) principles, emphasizing sustainability and transparency.

The collaboration among international participants at this event will be crucial in determining the direction through the new era of power systems - integrating renewable energy, modernizing the power grid, and accelerating the global transition toward carbon neutrality.

On behalf of EGAT, I extend my sincere appreciation to the IEEE Power & Energy Society and all partners for their dedication in organizing this remarkable event. I wish IEEE PES GTD Asia 2025 great success and all participants a rewarding and memorable experience in Thailand.

WELCOME MESSAGES

Prof. Dr. Weerakorn Ongsakul

Conference Chair

IEEE PES GTD Asia 2025



On behalf of the Organizing Committee, it is my great pleasure to welcome you to the **IEEE PES GTD Conference and Exposition Asia 2025**. This prestigious event brings together leading experts, researchers, industry professionals, and policymakers from around the globe to exchange knowledge, showcase innovations, and explore solutions that will shape the future of power and energy systems.

The conference theme reflects our shared mission to accelerate the transformation of the power sector towards sustainability, resilience, and digitalization. Through keynote sessions, technical papers, panel discussions, and exhibitions, participants will have the opportunity to engage with cutting-edge technologies, best practices, and collaborative initiatives that are vital to addressing today's pressing energy challenges.

IEEE PES GTD Asia 2025 also provides an invaluable platform for fostering partnerships across academia, industry, and government, strengthening the collective effort to achieve affordable, reliable, and sustainable energy for all. We are confident that the interactions and insights gained here will inspire innovation and create lasting impact for our region and beyond.

We sincerely thank all authors, speakers, exhibitors, sponsors, and volunteers for their contributions to this event, and we warmly welcome all delegates to join us in making IEEE PES GTD Asia 2025 a memorable and fruitful experience.

We wish you an inspiring conference and a rewarding stay.



Assoc. Prof. Dr. Nopbhorn Leeprechanon

Conference Co-Chair

IEEE PES GTD Asia 2025

It is my profound honor and great pleasure to welcome you to Bangkok and to the IEEE GTD Asia 2025 International Conference and Exposition. I am delighted to be part of this premier global event—a gathering of the brightest minds committed to shaping the future of energy.

Thank you for traveling from all corners of the world to be here at the magnificent Queen Sirikit National Convention Center. The timing of this conference could not be more critical. We stand at the intersection of technological breakthroughs and planetary urgency. The challenge before us is immense, but so too is the opportunity. This year's theme, Accelerating the Energy Transition toward Carbon Neutrality – A Sustainable Energy Future for All, is a powerful call to action. It acknowledges the complexity of our mission: moving from fossil fuels to clean sources, modernizing our grids, and ensuring that this transition is just, inclusive, and accessible to everyone.

Here in Asia, we are the epicenter of this transformation. Our region's rapid development demands massive energy, and our commitment to sustainability will determine the fate of global climate efforts. What makes IEEE GTD Asia special is the convergence of expertise. IEEE PES GTD Asia 2025 will be a hub for Generation, Transmission, Distribution, and Renewable Energy. We will witness cutting-edge innovations—from smarter grids and advanced energy storage systems to revolutionary solutions in hydrogen and carbon capture. The papers, the presentations, the exhibitions, and the conversations that take place here are the building blocks of a new energy infrastructure. They are the essential exchange of knowledge needed to move beyond

prototypes and toward real-world implementation. I therefore urge you all to fully embrace the spirit of this event.

Connect: Take the time to meet the thousands of fellow professionals gathered here. Your next great partnership, your next breakthrough idea, might be just one handshake away.

Challenge: Participate actively in the discussions. Question the status quo. Push the boundaries of what is possible.

Commit: Renew our collective commitment to the theme. The energy transition is not a linear path; it requires resilience, bold investment, and a unified vision.

May the conversations started at this remarkable event translate into tangible progress in our respective countries and organizations. I hope your time in Bangkok is both professionally rewarding and personally enjoyable. May this conference provide the knowledge and inspiration to propel our work forward.

I would like to offer my sincere gratitude once again to the IEEE Power & Energy Society, our dedicated volunteers, and every delegate for being part of this monumental event.

Sincerely yours,

WELCOME MESSAGES

Mr. Wilas Chaloeysat

General Co-Chair, IEEE PES GTD Asia 2025
Governor, Metropolitan Electricity Authority (MEA)



On behalf of Metropolitan Electricity Authority (MEA), it is my great pleasure to welcome all distinguished guests, experts, and participants to the IEEE PES GTD Asia 2025 — the premier regional event bringing together leaders, innovators, and professionals across the global power and energy sector.

This year's theme, "Accelerating the Energy Transition toward Carbon Neutrality – A Sustainable Energy Future for All," truly reflects the challenges and opportunities we face today. As the world moves rapidly toward clean, smart, and resilient energy systems, collaboration among utilities, academia, policymakers, and industry partners is essential.

MEA has committed to driving innovation in electricity distribution, embracing renewable integration, smart grid technologies, and digital transformation to enhance the quality, reliability, and sustainability of urban energy services. Through this global platform, we aim to share our experiences, learn from international best practices, and together accelerate the transition toward a carbon-neutral future.

I would like to extend my sincere appreciation to IEEE PES, EGAT, PEA, and all partners for making this event possible. May IEEE PES GTD Asia 2025 inspire new ideas and partnerships that shape the sustainable energy future of our region and the world.

Welcome to Bangkok and enjoy the conference.



Dr. Mongkol Treekijjanon

General Co-Chair, IEEE PES GTD Asia 2025
Governor, Provincial Electricity Authority (PEA)

On behalf of the Provincial Electricity Authority (PEA), Thailand, it is my great pleasure to extend a warm welcome to all distinguished delegates, experts, and participants joining IEEE PES GTD Asia 2025.

We are truly honored that Thailand has once again been selected as the host country for this prestigious global event in the power and energy sector.

This year's conference and exhibition provide an invaluable platform for sharing knowledge, innovations, and best practices in generation, transmission, and distribution

technologies. As the energy landscape rapidly evolves toward sustainability, digitalization, and resilience, collaboration among international partners is more essential than ever.

PEA is proud to support and actively contribute to this global dialogue, in line with our mission to drive smart energy solutions and accelerate the transition toward a low-carbon future for all.

I sincerely hope this event will inspire fruitful discussions, foster strong partnerships, and spark new ideas that will shape the future of clean, reliable, and sustainable energy worldwide.

WELCOME MESSAGES

Assoc. Prof. Dr. Somporn Sirisumrannukul

Technical Program Chair,
IEEE PES GTD Asia 2025



On behalf of the Technical Program Committee, it is my distinct privilege to extend a warm welcome to all participants of the technical program of IEEE PES GTD Asia 2025. This esteemed conference brings together leading international innovators, researchers, and industry experts to engage in substantive discussions across three core domains: power generation, transmission and distribution, and renewable energy.

IEEE PES GTD Asia 2025 features the comprehensive technical program, encompassing keynote addresses, tutorial sessions, super sessions, panel discussions, paper presentations, and workshops. These activities are designed to facilitate the exchange of advanced knowledge, foster meaningful collaboration, and highlight emerging trends among global leaders in the energy sector. Through the dedicated efforts of the Organizing Committee, Technical Program Committee, and our external

reviewers, the conference has received 134 paper submissions—both oral and poster presentations—representing contributions from 34 countries.

I also wish to express my sincere gratitude to our distinguished keynote and tutorial speakers, esteemed panelists, and all contributing authors for their invaluable dedication. Their expertise and commitment have elevated IEEE PES GTD Asia 2025 into an exceptional platform for scientific collaboration, professional engagement, and industry advancement in the power and energy domain.

It is with great enthusiasm that I welcome all esteemed academics, researchers, and professionals to IEEE PES GTD Asia 2025 in Bangkok. I eagerly look forward to witnessing your contributions to the continued progress of the global power and energy sector.



Dr. Piyapan Hannarkin

Women in Power and Social Function Chair
IEEE PES GTD Asia 2025

It is my great honor to welcome you to the **IEEE PES GTD Conference and Exposition Asia 2025**. This event stands as a remarkable platform for advancing knowledge, exchanging ideas, and strengthening collaborations that will drive the transformation of the global power and energy sector.

As the **Women in Power and Social Function Chair**, I am particularly proud to highlight the role of diversity, inclusion, and empowerment in shaping a sustainable energy future. Through the Women in Power program, we are dedicated to creating opportunities for women engineers, researchers, and professionals to contribute, lead, and inspire within our community. This initiative not only enhances the technical excellence of our field but also ensures that the solutions we develop are inclusive and impactful for society as a whole.

Equally, the social functions of IEEE PES GTD Asia 2025 provide a welcoming space for building networks, celebrating achievements, and fostering friendships across cultures and disciplines. These connections are vital for creating long-lasting partnerships and for nurturing the next generation of energy leaders.

I warmly invite all participants to take part in these activities, to engage, and to be inspired by the diversity of perspectives gathered here. May this conference be a rewarding and memorable experience for everyone.



WELCOME MESSAGES

Mr. Wisit Srinuntawong

Industrial Relations Chair
IEEE PES GTD Asia 2025



On behalf of the Local Organizing Committee, it is my great pleasure to extend a warm welcome to all of you to IEEE PES GTD Asia 2025. This conference serves as a vital platform where industry leaders, researchers, and professionals come together to exchange ideas, explore innovations, and collectively shape the future of power and energy systems across Asia and beyond.

As the Industrial Relations Chair, I am particularly proud of the strong collaboration among academia, utilities and industry that this event embodies. Through our technical sessions, exhibitions and networking opportunities, GTD Asia 2025 provides a unique space for meaningful dialogue, partnership development and the translation of emerging technologies to practical applications.

The power and energy sector is undergoing rapid transformation, driven by digitalization transformation, sustainability goals and the transition toward smarter and cleaner systems. This conference reflects our shared commitment to advancing these changes and ensuring that innovation delivers benefits to societies worldwide.

I would like to express my sincere appreciation to our industry partners, sponsors and participants for their invaluable contributions. Your engagement and insights make GTD Asia 2025 an exceptional forum for collaboration, innovation and growth.

Welcome once again and looking forward to an inspiring and productive conference experience together.



Dr. Praditpong Suksirithawornkul

Exhibition Chair, PR & Marketing Chair,
Conference Secretariat,
IEEE PES GTD Asia 2025

It is my distinct pleasure to welcome all participants to IEEE PES GTD Asia 2025. As the Exhibition Chair, PR & Marketing Chair, and Conference Secretariat, I am honored to witness this region's premier event for power and energy professionals—bringing together global leaders, innovators, and researchers to explore emerging trends in power generation, transmission & distribution, and renewable energy.

IEEE PES GTD Asia 2025 serves as a dynamic platform for sharing knowledge, showcasing cutting-edge technologies, and fostering collaboration that drives the advancement of the energy sector. This year, we continue that mission by bringing together academia, industry, and government, providing an invaluable forum for

collaboration, knowledge exchange, and innovation toward a sustainable energy future. Together, we aim to inspire innovation, foster strategic partnerships, and generate new ideas that drive progress toward a smarter and cleaner energy ecosystem.

I am confident that the discussions and insights shared throughout the event will deepen our understanding of the evolving energy landscape and create new opportunities for cooperation and growth. I encourage all participants to actively engage, exchange ideas, and make the most of this opportunity to shape the future of power generation, transmission & distribution, and renewable energy.



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Secretary, IEEE PES Thailand,
Hitachi Energy (Thailand) Limited



GENERAL INFORMATION



QUEEN SIRIKIT NATIONAL CONVENTION CENTER

QUEEN SIRIKIT NATIONAL CONVENTION CENTER (QSNCC)

60 Ratchadaphisek Road, Khlong Toei Sub-District, Khlong Toei District, Bangkok 10110, Thailand

REGISTRATION DESK

Opens at Foyer in front of Exhibition Hall 3-4

26 November 2025, 07.00 – 17.30 hrs.

27 November 2025, 07.00 – 18.00 hrs.

28 November 2025, 08.00 – 18.00 hrs.

29 November 2025, 08.00 – 16.00 hrs.

COFFEE/TEA BREAK AND CONFERENCE LUNCH

Morning and Afternoon Coffee Tea Break

27th – 29th November 2025

10.30 hrs. Exhibition Area, Hall 4, Level G

15.30 hrs. Exhibition Area, Hall 4, Level G

Conference Lunch

27th – 29th November 2025

12.30 hrs. Exhibition Area, Hall 4, Level G

WIFI

Network @QSNCC free Wi-Fi.

Register New Account to enjoy 3 hours of complimentary Wi-Fi access.

TRANSPORTATION

AOT Limousine

AOT LIMOUSINE is the one and only official limousine service at the Suvarnabhumi Airport, serving major cities such as Pattaya, Rayong, Hua-Hin, Ayutthaya and other cities throughout Thailand by expressway and highway. The fare is a charter rate depending on distance and type of vehicle. 13 service desks are easily to access all over both Arrival Hall and Buggage Claim Hall on the second floor of the Passenger Terminal at Suvarnmabhumi Airport.

For further information and make reservation by phone, please call Call Center (24 hours.) Tel:+662 134 2323, Mobile: +6686 342 1445 or contact Email: callcenter@aot-limousine.com



TRAVEL TO VENUE

QSNCC is conveniently located in the heart of Bangkok and is easily accessible by various modes of transportation. Here is a quick guide on how to get here smoothly:

By BTS Skytrain

Station: Get off at the Asok Station (Sukhumvit Line and transfer to the MRT).

MRT Connection: Follow the signs to the MRT Sukhumvit Station and take the Blue Line.

By MRT Subway

Station: Get off at the Queen Sirikit National Convention Centre Station (Blue Line).

Exit: Use Exit 3, which leads directly to QSNCC.

By Airport Rail Link

From Suvarnabhumi Airport: Take the Airport Rail Link to Makkasan Station

Transfer to MRT: Walk to the MRT Phetchaburi Station and take the Blue Line to Queen Sirikit National Convention Centre Station.

By Bus

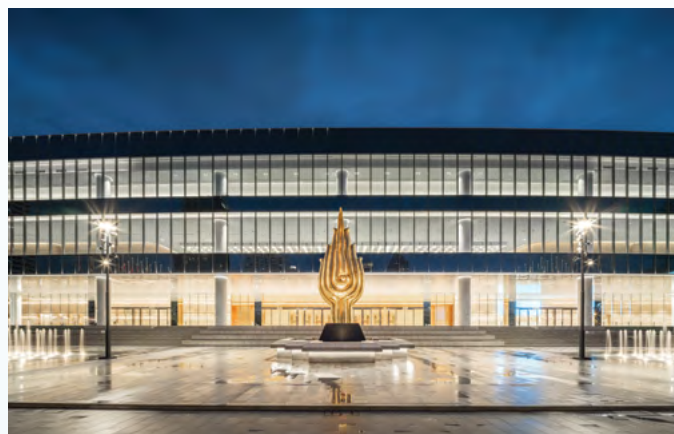
Routes: Several bus routes pass near QSNCC, including 136, 185, and 501

Bus Stop: Alight at the bus stop near the Queen Sirikit National Convention Centre.

By Taxi or Ride-Hailing Services

Taxis: Widely available throughout Bangkok. Simply tell the driver "Queen Sirikit National Convention Centre of QSNCC".

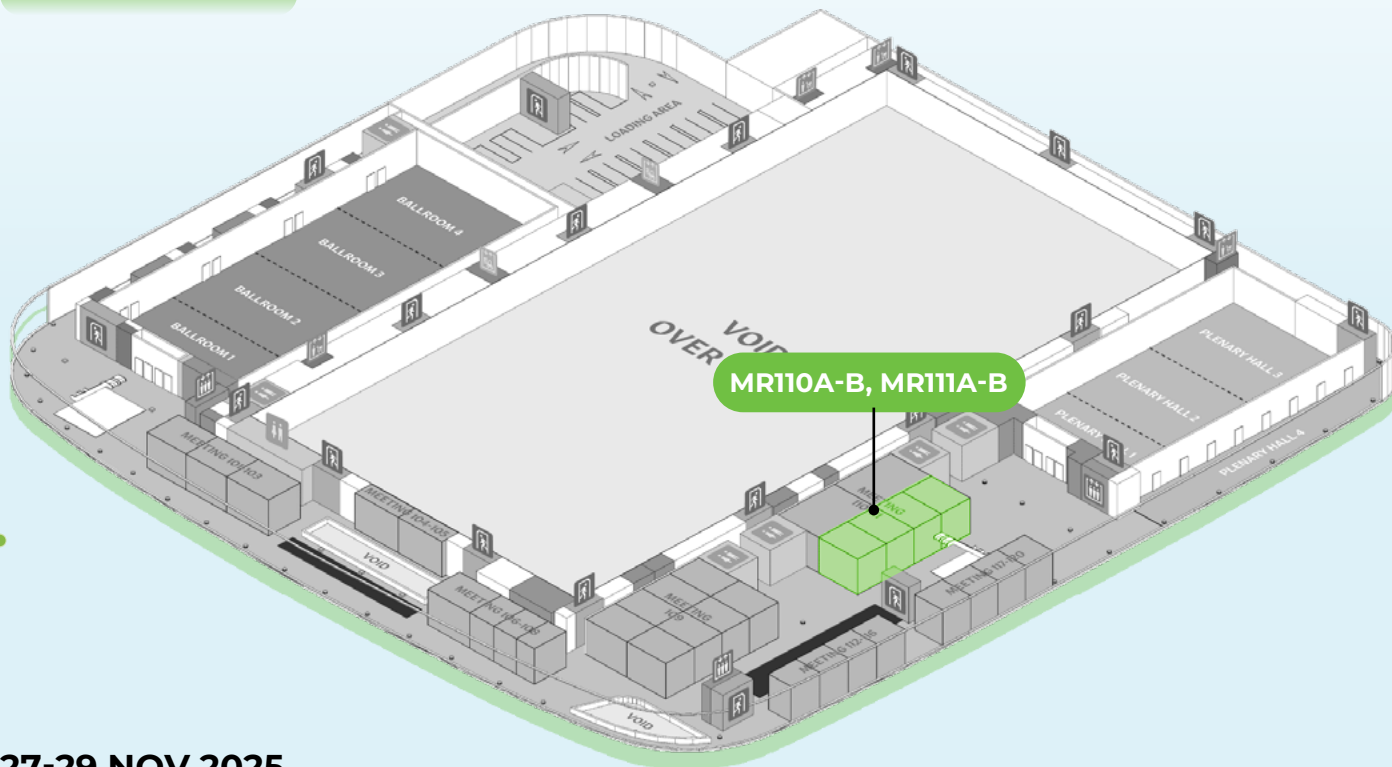
Ride Hailing: Use services like Grab or Bolt for a direct trip to QSNCC



VENUE LAYOUT

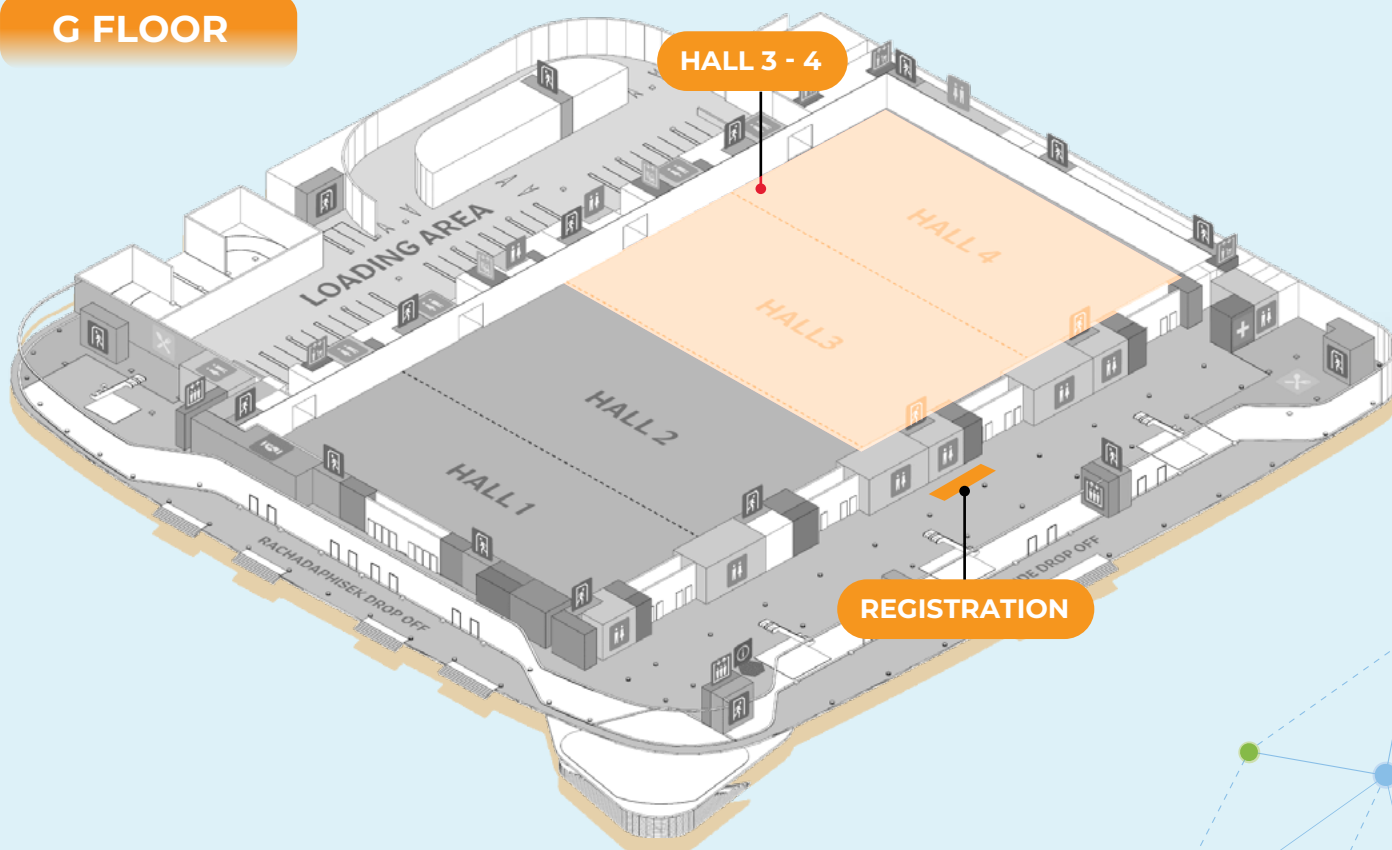
26 NOV 2025
[TUTORIAL SESSION]

1ST FLOOR



27-29 NOV 2025
[EXHIBITION & CONFERENCE]

G FLOOR



CONFERENCE PROGRAMME

26 - 29 NOVEMBER 2025

WEDNESDAY 26TH NOVEMBER 2025

Room/Time	1- MR110A, Level 1	2-MR110B, Level 1	3-MR111A, Level 1	4-MR111B, Level 1
09.00-10.15	Tutorial 1 Converter-Driven Stability Issues and Solutions in Power Electronics Defined Power Systems Speakers: <ul style="list-style-type: none"> Dr. Shan Jiang, University of New South Wales (UNSW Sydney) Dr. Ye Zhu, University of New South Wales (UNSW Sydney) Assoc.Prof. Georgios Konstantinou, University of New South Wales (UNSW Sydney) 	Tutorial 2 Requirements and application of UHF PD Monitoring Systems for gas insulated systems and Increased operation reliability through continuous PD monitoring Speakers: <ul style="list-style-type: none"> Dr. Wojciech Koltunowicz, OMICRON Energy Solutions GmbH 	Tutorial 3 Functional Performance Requirements for Grid Forming STATCOM (including E-STATCOM)- a perspective from the planning stage up to the project execution life cycle Speakers: <ul style="list-style-type: none"> Mr. David Langner, Siemens Energy Mr. Mikael Halonen, Hitachi Energy Mr. Septimus Boshoff, DNV South Africa (Pty) Ltd. Mr. Heinrich von Geymueller, Siemens Energy Mr. Theuns van Staden, DNV South Africa (Pty) Ltd. 	Tutorial 4 Decentralised frameworks for Future Distribution Networks with High DER Penetration Speaker: <ul style="list-style-type: none"> Dr. Daniel Eghbal, Future Network Strategy, Energy Queensland
10.15-10.30	AM Coffee Break			
10.30-12.00	Tutorial 1 [continue] Converter-Driven Stability Issues and Solutions in Power Electronics Defined Power Systems Speakers: <ul style="list-style-type: none"> Assoc.Prof. Georgios Konstantinou, University of New South Wales (UNSW Sydney) Dr. Shan Jiang, University of New South Wales (UNSW Sydney) Dr. Ye Zhu, University of New South Wales (UNSW Sydney) 	Tutorial 2 [continue] Requirements and application of UHF PD Monitoring Systems for gas insulated systems and Increased operation reliability through continuous PD monitoring Speakers: <ul style="list-style-type: none"> Dr. Wojciech Koltunowicz, OMICRON Energy Solutions GmbH 	Tutorial 3 [continue] Functional Performance Requirements for Grid Forming STATCOM (including E-STATCOM)- a perspective from the planning stage up to the project execution life cycle Speakers: <ul style="list-style-type: none"> Mr. David Langner, Siemens Energy Mr. Mikael Halonen, Hitachi Energy Mr. Septimus Boshoff, DNV South Africa (Pty) Ltd. Mr. Heinrich von Geymueller, Siemens Energy Mr. Theuns van Staden, DNV South Africa (Pty) Ltd. 	Tutorial 4 [continue] Decentralised frameworks for Future Distribution Networks with High DER Penetration Speakers: <ul style="list-style-type: none"> Dr. Daniel Eghbal, Future Network Strategy, Energy Queensland
12.00-13.30	Lunch at MR109BCDFGH			
13.30-14.45	Tutorial 5 De-risking the Energy Transition with Real-time Simulation and HIL Testing Speakers: <ul style="list-style-type: none"> Mr. Kurtis Toews, RTDS Technologies 	Tutorial 6 IEC61850, Process Bus and Digital Substation: Concepts and Real-Time Simulation Testing Speakers: <ul style="list-style-type: none"> Prof. Francisco M. Gonzalez-Longatt, The Leader of DlgEnSysLab. DlgEnSys-Lab 	Tutorial 3 [continue] Functional Performance Requirements for Grid Forming STATCOM (including E-STATCOM)- a perspective from the planning stage up to the project execution life cycle Speakers: <ul style="list-style-type: none"> Mr. David Langner, Siemens Energy Mr. Mikael Halonen, Hitachi Energy Mr. Septimus Boshoff, DNV South Africa (Pty) Ltd. Mr. Heinrich von Geymueller, Siemens Energy Mr. Theuns van Staden, DNV South Africa (Pty) Ltd. 	Tutorial 7 Real-Time Simulation for Power, Energy & Cybersecurity Speakers: <ul style="list-style-type: none"> Mr. Benoit Marcoux, OPAL-RT Technologies Ms. Piyaporn Sinnart, PTS Combination (Thailand)
14.45-15.00	PM Coffee Break			
15.00-16.30	Tutorial 5 [continue] De-risking the Energy Transition with Real-time Simulation and HIL Testing Speakers: <ul style="list-style-type: none"> Mr. Kurtis Toews, RTDS Technologies 	Tutorial 6 [continue] IEC61850, Process Bus and Digital Substation: Concepts and Real-Time Simulation Testing Speakers: <ul style="list-style-type: none"> Prof. Francisco M. Gonzalez-Longatt, The Leader of DlgEnSysLab. DlgEnSys-Lab 	Tutorial 3 [continue] Functional Performance Requirements for Grid Forming STATCOM (including E-STATCOM)- a perspective from the planning stage up to the project execution life cycle Speakers: <ul style="list-style-type: none"> Mr. David Langner, Siemens Energy Mr. Mikael Halonen, Hitachi Energy Mr. Septimus Boshoff, DNV South Africa (Pty) Ltd. Mr. Heinrich von Geymueller, Siemens Energy Mr. Theuns van Staden, DNV South Africa (Pty) Ltd. 	Tutorial 7 [continue] Real-Time Simulation for Power, Energy & Cybersecurity Speakers: <ul style="list-style-type: none"> Mr. Benoit Marcoux, OPAL-RT Technologies Ms. Piyaporn Sinnart, PTS Combination (Thailand)

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Room/ Time	POWER HUB [EXHIBITION HALL 3]				
09.00- 12.30	OPENING CEREMONY <ul style="list-style-type: none"> • Welcome Remarks by Dr. Narin Phoawanich, Governor, Electricity Authority of Thailand (EGAT) • TCEB Supporting Remarks by Dr. Supawan Teerarat, President, Thailand Convention and Exhibition Bureau (TCEB) • Reporting Remarks by Prof. Dr. Weerakorn Ongsakul, Conference Chair, IEEE PES GTD ASIA 2025 • Opening Remarks by Mr. Auttapol Rerkpiboon, Ministry of Energy • VIP - Exhibition Visit KEYNOTE LECTURE <ul style="list-style-type: none"> • Keynote 1: Advancing Innovation for Resilience in a Dynamic Energy Landscape <ul style="list-style-type: none"> • Mr. Raj Beasla, Senior Director Transmission and Substation Engineering at Pacific Gas and Electric Company • Keynote 2: Solar and wind integration in Southeast Asia <ul style="list-style-type: none"> • Dr. Peerapat Vithayachareon, Senior Energy Analyst, International Energy Agency (IEA) • Keynote 3: Accelerating the Energy Transition toward Carbon Neutrality - a Sustainable Energy Future for All <ul style="list-style-type: none"> • Dr. Narin Phoawanich, Governor, Electricity Authority of Thailand (EGAT) 				
12.30- 14.00	Lunch in Exhibition Hall				
Room/ Time	Energy Exchange [Exhibition Hall 3]	Spark Room 1 [Exhibition Hall 3]	Spark Room 2 [Exhibition Hall 3]	Spark Room 3 [Exhibition Hall 3]	Spark Room 4 [Exhibition Hall 3]
14.00- 15.30	Super Session 1 Ancillary Services and Technologies; Opportunities for Thailand's Power Grid Session Chair: Assoc. Prof. Naebboon Hoonchareon, Ph.D, Faculty of Engineering, Chulalongkorn University Speakers: <ul style="list-style-type: none"> • Dr. Chanchai Amornvipas, Energy Regulatory Commission of Thailand • Asst. Prof. Dr. Piti Eiamchamroonlarp, Faculty of Law, Chulalongkorn University • Dr. Areeporn Asawinpongphan, Thailand Development Research Institute (TDRI) • Mr. Warit Rattanachuen, Electricity Generating Authority of Thailand (EGAT) • Dr. Somchai Songsiri, Provincial Electricity Authority (PEA) • Dr. Knathip Spuntupong, Metropolitan Electricity Authority (MEA) • Dr. Worawut Waruttamapornsu, Hitachi Energy (Thailand) Limited • Mr. Pierre-Louis Dardenne, Schneider (Thailand) Limited 	Panel Session 1 Energy Transition is not going as fast as initially intended, what's the impact on global decarbonisation objectives and power systems? Session Chair: Mr. Dean Sharafi, Energy Transition Australian Energy Market Operator (AEMO) Speakers: <ul style="list-style-type: none"> • Mr. Ali Nami, Tracey Brunstrom & Hammond, Australia • Mr. Greg Elkins, Global Power Energy, Austria • Mr. Pierluigi Mancarella, The University of Melbourne, Australia • Mr. Mongkhon Tangsirirwit, Schneider Electric - Thailand, Myanmar and Laos 	Oral Session 1: Track 1 Advanced Generation, Transmission, and Carbon Management Technologies Session Chair: Asst. Prof. Dr. Komson Daroj, Ubon Ratchathani University Speakers: <ul style="list-style-type: none"> • Solving Large Scale Multi-carrier Energy Systems - Buu-Van Nguyen (15 min) • Visi Based Multi-zone Smart Home Controller with Fsm-driven Automation Using Round-robin Arbitration and Power Optimization - Pavan Kumar (15 min) • Thermal Models for Transformer Overload Management: Implementation Challenges and Solutions - Chong Soon Peng (15 min) 	Oral Session 2: Track 4/I EV Integration and Distributed Energy Management Systems Session Chair: Assoc. Prof. Sanchai Dechanupaprittha, Kasetsart University Speakers: <ul style="list-style-type: none"> • Optimal Siting of Pv and Bess Under Varying Ev Penetration Levels in an Ieee 37-bus System Considering System Line Capacity - Joseph Leo Veterana (15 min) • Optimal Online EV Charging with Discrete Rates and Phase Unbalance Constraints - Can Berk Saner (15 min) • Energy Flow Pathway and Economic Impact of Grid-connected Smart Home Pv-battery Systems Under Tou Tariff - Thatree Mamee (15 min) • Benefits Of Applying Point-On-Wave Closing Fault Interrupters In Distribution Networks - Roxanna Partow (15 min) 	Oral Session 3: Track 7/I Advanced Renewable Energy Integration and Conversion Technologies Session Chair: Dr. Noppada Teeraachariyakul, Kasetsart University Speakers: <ul style="list-style-type: none"> • The Role of Battery Storage in Accelerating Large-scale Offshore Wind Deployment - Nathanael Silava (15 min) • Technical Insights Into Net Metering for Distributed Solar Photovoltaics - Abhay Pandey (15 min) • Impact of Bess State of Charge on the Reliability of an Archipelagic Power System with Increasing Pv Penetration - Alina Quiñones (15 min) • Control of the Negative Sequence Component for Ride-through of Asymmetrical Faults in Grid Forming Inverters - Ruben Inzunza (15 min) • Evaluation of Peak Shaving Demand Charge and Greenhouse Gas Reduction with Photovoltaic Systems in Medium General Service - Natchapol Ruangsap (15 min) • System-Based Protection Testing Considering IBR and Negative Sequence Current Injections - Francisco M. Gonzalez-Longatt (15 min)

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Room/ Time	Energy Exchange [Exhibition Hall 3]	Spark Room 1 [Exhibition Hall 3]	Spark Room 2 [Exhibition Hall 3]	Spark Room 3 [Exhibition Hall 3]	Spark Room 4 [Exhibition Hall 3]
15.30-16.00	PM Break in Exhibition Hall				
16.00-17.30	<p>Super Session 1 [continue] Ancillary Services and Technologies; Opportunities for Thailand's Power Grid</p> <p>Session Chair: Assoc. Prof. Naebboon Hoonchareon, Ph.D, Faculty of Engineering, Chulalongkorn University</p> <p>Speakers:</p> <ul style="list-style-type: none"> Dr. Chanchai Amornvivas, Energy Regulatory Commission of Thailand Asst. Prof. Dr. Piti Eiamchamroonlarp, Faculty of Law, Chulalongkorn University Dr. Areeporn Asawinpongphan, Thailand Development Research Institute (TDRI) Mr. Warit Rattanachuen, Electricity Generating Authority of Thailand (EGAT) Dr. Somchai Songsiri, Provincial Electricity Authority (PEA) Dr. Knathip Spuntupong, Metropolitan Electricity Authority (MEA) Dr. Worawut Waruttamapornsu, Hitachi Energy (Thailand) Limited Mr. Pierre-Louis Dardenne, Schneider (Thailand) Limited 	<p>Panel Session 2 Innovative Optimization Techniques for Smart Grid Operation and Planning</p> <p>Session Chair: Dr. Hiroyuki Mori, Meiji University</p> <p>Speakers:</p> <ul style="list-style-type: none"> Dr. Hsiao-Dong Chiang, Cornell University, NY, USA Mr. Yukitoki Tsukamoto, Mitsubishi Electric Power Products, Inc., PA, USA Dr. Yutaka Sasaki, Hiroshima University, Japan 	<p>Oral Session 4: Track 2 Dynamic Line Rating (DLR) Innovations and HVDC Technologies</p> <p>Session Chair: Prof. Jai Govind Singh</p> <p>Speakers:</p> <ul style="list-style-type: none"> Var Compensation Sizing and Placement to Enhance Voltage Profile and Reduce Losses in Bhutan Grid – Samten (15 min) Polarity-Dependent Dielectric Behavior of XLPOInsulated PV Cables under High-Voltage AC and DC Stress: Leakage Current and PRPD Analysis – Khomsan Ruangwong (15 min) Corona Discharge Pulse Shape Analysis for Sphere Plane Configurations – Pradeep Kumar GUPTA (15 min) MTDC for Connecting Indonesian Islands Enabling Renewable Energy Generation – Sanjay Kumar Chaudhary (15 min) Geospatial Potential Assessment of Dynamic Line Rating: A High-level Methodology for Early-stage Planning. – Robinson Maswedza (15 min) Experimental Study of Partial Discharge in High-voltage CTs and Bushings – Noppada Teera-Acharyakul (15 min) 	<p>Oral Session 5: Track 4/2 EV Integration and Distributed Energy Management Systems</p> <p>Session Chair: Assoc. Prof. Dr. Dulpichet Rerkpreedapong, Kasetsart University</p> <p>Speakers:</p> <ul style="list-style-type: none"> Realistic Assessment of PV and EV Hosting Capacity in Low-voltage Networks: a Comparative Study of Deterministic and Time-series Methods – Tapparit Bangtit (15 min) Frequency-dependent Behavior and Field-evaluation of Voltage Transformers for Power Quality Applications – Felix Feustel (15 min) A Stackelberg Game of Demand Response from the Aggregator's Perspective – Seangleng Khe (15 min) Feeder Power Disaggregation Using Pmu and Smart Meter Data in Distribution Systems – Chaowanan Jamroen (15 min) Adapting Power Distribution Infrastructure for the Expansion of Data Centers : Challenges and Solution in the Thailand Metropolitan Area – Pinpong Nuimannate (15 min) Large-scale Application of Permanent On-line Partial Discharge Monitoring – Sam Roe (15 min) A Multi-parameter and Barrier-based Approach to Gis Modernization Planning in Kuwait's Transmission Network – Majdi Alomari (15 min) 	<p>Oral Session 6: Track 7/2 Advanced Renewable Energy Integration and Conversion Technologies</p> <p>Session Chair: Assoc. Prof. Dr. Keerati Chayakulkheeree, Suranaree University of Technology</p> <p>Speakers:</p> <ul style="list-style-type: none"> Assessing the Wind Energy Potential of the Bay of Bengal Using CMIP6 Climate Models - Ahnaf Rahman (15 min) Evaluating Break-even Costs of BESS in PV-integrated Systems Across Diverse Load Profiles and TOU Tariff Scenarios in Thailand - Pranuda Jivaganont (15 min) Economic Feasibility of Power Generation by Integrating Floating Photovoltaics on Sea and Small Wind Turbines at Samui Island in Southern Thailand - Kittisak Chaisuwan (15 min) Factors Affecting the Accuracy of AI-based Forecasting Models for Renewable Energy Generation in Asean - Apichai Samrthong (15 min) A Comparison of Impact for Various Biomass Utilization in Indonesian Cofiring Coal-fired Power Plants - Rachmat Hermawan (15 min)

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Room/ Time	Energy Exchange [Exhibition Hall 3]	Spark Room 1 [Exhibition Hall 3]	Spark Room 2 [Exhibition Hall 3]	Spark Room 3 [Exhibition Hall 3]	Spark Room 4 [Exhibition Hall 3]
09.00-10.30	<p>Super Session 2 Grid Modernization – Transitioning Power Systems to Sustainable Power Society with High VRE Penetration (Opportunities & Challenges)</p> <p>Session Chair: Mr. Vishal Devarajan, McKinsey & Company</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. Jakkree Sirimanee Wattana, Electricity Generating Authority of Thailand (EGAT) Dr. Peerapat Vithayasrichareon, International Energy Agency (IEA) Prof. Iain MacGill, The University of New South Wales (UNSW) Dato' Ir. Ts. Abdul Razib Dawood, ASEAN Centre for Energy (ACE) 	<p>Panel Session 3 Hydrogen in Power Systems: Integration Strategies and Global Perspectives</p> <p>Session Chair: Dr. Kanchit Ngamsanroaj, Ph.D. (E.E.), Committee of the IEEE Power & Energy Society, Thailand Chapter</p> <p>Speakers:</p> <ul style="list-style-type: none"> Dr. Sumittra Charojrochkul, The National Science and Technology Development Agency (NSTDA) Mr. Pariya Phuaksuk, Electricity Generating Authority of Thailand (EGAT) Mr. Milan Padhi, Siemens Energy Pte. Ltd. Mr. Jerin Raj, Black & Veatch Mr. Sarawut Phongphairat, Hitachi Energy (Thailand) Limited 	<p>Panel Session 4 Green Hydrogen in Power Generation: Strategic Integration or Market Hype</p> <p>Session Chair: Asst. Prof. Dr. Jirawadee Polprasert, Naresuan University</p> <p>Speakers:</p> <ul style="list-style-type: none"> Professor Dr. Pavich Tongroach, Chairman of Ronitron Co., Ltd. Dr. Yosapol Rathamarit, Electricity Generating Authority of Thailand (EGAT) Mr. Nutthapong Puangmanee, PTT Public Company Limited 	<p>Oral Session 7: Track 4/3 EV Integration and Distributed Energy Management Systems</p> <p>Session Chair: Asst. Prof. Dr. Thongchart Kerdphol, Kasetsart University</p> <p>Speakers:</p> <ul style="list-style-type: none"> A Reliable Islanding Detection Solution for Grids with Distributed Energy Resources - Od Naidu (15 min) Smart Microgrid Simulation and Techno-economic Optimization for Phuket Island Using Matlab - Sakrapee Khunpetch (15 min) Improving the Integration of Distributed Energy Resources (DERs) in Thailand's Power Grid Using Automatic Voltage Regulator Distribution Transformers (AVRDT) - Ling Leong Yieing (15 min) Impact Analysis of Single-phase and Three-phase Electric Vehicle Charging Stations on Power System Operation and Quality - Supakan Janthong (15 min) Practical Testing Approaches for Lpfit in Digital Substations - Gilje Woo (15 min) 	<p>Oral Session 8: Track 7/3 Advanced Renewable Energy Integration and Conversion Technologies</p> <p>Session Chair: Asst. Prof. Dr. Nidchabendra Chandanachulaka Roekrai, Kasetsart University</p> <p>Speakers:</p> <ul style="list-style-type: none"> Performance Evaluation of Biomimetic Turbines Inspired by Ash Tree Seeds and a Conventional Horizontal-axis Wind Turbine - John Russel Sajol (15 min) Sizing Of A Battery Energy Storage System (BESS) Under A Voltage Regulation Application On A Solar-Penetrated Distribution Network Considering Battery Degradation - Erison Peñaflor (15 min) Enhancing Transformer Performance for Renewable Energy Applications with Natural Ester Dielectric Fluid - Kin Yu Lam (15 min) Towards Streamlined DG Interconnection Criteria: A Fast Risk-based Hosting Capacity Estimate Method - Munyaradzi Justice Chihota (15 min)

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10.30- 11.00	AM Break in Exhibition Hall				
11.00- 12.30	Poster Session (In front of Spark Room 2)				
	<p>Super Session 3 Enabling SMRs in Thailand: Policy, Technology, and Partnerships</p> <p>Session Chair: Dr. Kampant Silva, National Energy Technology Center (ENTEC)</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. Arin Temeyakul, Electricity Generating Authority of Thailand (EGAT) Dr. Pantip Ampornrat, Office of Atoms for Peace (OAP) Mr. Benjamin Robert MC Intosh, Nuclear Competitiveness Team, U.S. State Department, Bureau of Arms Control and Nonproliferation Mr. Soon Kil Jung, Korea Hydro & Nuclear Power Co., Ltd. (KHNP) 	<p>Workshop 1 PCS - Key to Provide Resilience for Future Grid (Invitation Only) by Hitachi Energy</p>	<p>Panel Session 5 Powering the Carbon-Neutral Future: From Ambition to Action in a Decentralized, Digital Energy World by IEEE PES in collaboration with Schneider Electric (Invitation Only)</p> <p>Welcome by : Assoc. Prof. Dr. Somporn Sirisumrannukul, King Mongkut's University of Technology North Bangkok</p> <p>Moderator: Assoc. Prof. Nopbhorn Leeprechanon, IEEE Power and Energy Society (Thailand)</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. Mongkhon Tangsiriwit, Schneider Electric Ms. Nancy Lin, Schneider Electric Mr. Daren Gong, Schneider Electric Mr. Warit Rattanachuen, Electricity Generating Authority of Thailand (EGAT) Mr. Pisanu Tantitavorn, Metropolitan Electricity Authority (MEA) Dr. Somchai Songsiri, Provincial Electricity Authority (PEA) Mr. Shatetha Terdprisant, McKinsey & Company Dr. Natthakorn Kraikul, PTT Public Company Limited Ms. Ann Moore, AVEVA Dr. Worawut Waruttamapornsu, Hitachi Energy Mr. Tanapong Ittisakulchai, NTT DATA, Inc. (Thailand & CLM) Mr. Chanwut Limpichai, Eco Plant Services 	<p>Panel Session 6 Thailand's Demand Response Journey: Pilot Lessons and Pathways to Automation</p> <p>Session Chair: Assoc. Prof. Nipon Ketjoy, PhD, Naresuan University</p> <p>Speakers:</p> <ul style="list-style-type: none"> Asst. Prof. Dr. Yodthong Mensin, Naresuan University Mr. Parinya Somsaard, Provincial Electricity Authority (PEA) Mr. Surat Asvapositkul, Naresuan University 	
12.30- 14.00	Lunch in Exhibition Hall				
14.00- 15.30	<p>Super Session 4 Energy Storage: Accelerating the Path to a Carbon-Neutral Future</p> <p>Session Chair: Dr. Pimpa Limthongkul, National Energy Technology Center (ENTEC)</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. Kasiean Sukemoke, PEC Technology Thailand Co., Ltd. Dr. Jiravan Mongkoltanatas, National Energy Technology Center (ENTEC) Mr. Patipan Kalvibool, Huawei Digital Power Thailand Mr. Sudhibhumi Pumhiran, Nuovo Plus Co. Ltd. Ms. Oratai Suwanwilaikul, B.Grimm Power, PLC Mr. Nawanat Eua-Anant, Electricity Generating Authority of Thailand (EGAT) Mr. Chaturon Kusonsong, Provincial Electricity Authority (PEA) Dr. Supawan Saelim, Agora Energiewende 	<p>Panel Session 7 AI-Driven Power System and Equipment Monitoring and Maintenance</p> <p>Session Chair: Assoc. Prof. Dr. -Ing.Thanapong Suwanasri, King Mongkut's University of Technology North Bangkok, Thailand</p> <p>Speakers:</p> <ul style="list-style-type: none"> Ms. Kessuda Poempolpaibool, Siemens Limited Thailand Dr. Wojciech Koltunowicz, OMICRON Energy Solutions GmbH Mr. Chaiwat Chaisukesung, Hitachi Energy (Thailand) Limited Mr. Saar Herman, OFIL System Mr. Luca Garangnani, INWAVE, Australia 	<p>Panel Session 8 WiP - The Road to Sustainable Success: Women in Power Leading with Purpose and Resilience</p> <p>Session Chair: Asst. Prof. Dr. Supattana Nirukkanaporn, Rangsit University</p> <p>Speakers:</p> <ul style="list-style-type: none"> Dr. Piyapan Hannarkin, IEEE Power & Energy Society Thailand Ms. Nammon Lertchitcharat, Electricity Generating Authority of Thailand (EGAT) Ms. Yada Rungrueang Wisetrat, Schneider Electric (Thailand) Ms. Keeratisiri Wannaphan, Hitachi Energy (Thailand) Limited 	<p>Panel Session 9 DERs and the Path to Net Zero: Storage, EVs, and Flexible Demand</p> <p>Session Chair: Assoc. Prof. Dr. Somporn Sirisumrannukul, King Mongkut's University of Technology North Bangkok</p> <p>Speakers:</p> <ul style="list-style-type: none"> Dr. Daniel Eghbal, Future Network Strategy, Energy Queensland Mr. Worapot Krathong, Metropolitan Electricity Authority (MEA) Mr. Jlandong Liu, Schneider Electric Mr. Jaturong Tongkamkaew, Provincial Electricity Authority (PEA) Asst. Prof. Dr. Komson Daroj, Ubonratchathani University 	<p>Oral Session 9: Track 8/I AI and Blockchain for Sustainable and Secure Power Systems</p> <p>Session Chair: Asst. Prof. Dr. Teeratum Bunyagul, King Mongkut's University of Technology North Bangkok</p> <p>Speakers:</p> <ul style="list-style-type: none"> Feature-Augmented BiLSTM Approach for LSTLF on Power Transmission Systems - Bhuvadon Saengsukon (15 min) A Two-stage Framework for Power System Resilience Assessment: Process Design and a Case Study in Kinmen - Yuhsuan Wu (15 min) La2mnfeo6-double Perovskite Decorated 2d Ti3c2-mxene Hybrid Nanocomposite for Superior Energy Density Supercapacitor for Efficient Led Powering - Ahmar Ali (15 min) Review of Global Inertia Procurement Practices: Lessons for South Africa - Josh Dippenaar (15 min) Interchanging Traditional Power Transformer Medium-Voltage Condenser Type Bushings with Modern Composite Polymeric Bushings - Sherman NG (15 min) Coordinated Electric Ferry Charging Impacts by Balanced Hybrid Metaheuristic Optimization - Rajib Baran Roy (15 min)

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15.30- 16.00	PM Break in Exhibition Hall				
16.00- 17.30	Super Session 4 [continue] Energy Storage: Accelerating the Path to a Carbon-Neutral Future Session Chair: Dr. Pimpa Limthongkul, National Energy Technology Center (ENTEC) Speakers: <ul style="list-style-type: none"> Mr. Kasiean Sukemoke, PEC Technology Thailand Co., Ltd. Dr. Jiravan Mongkoltanatas, National Energy Technology Center (ENTEC) Mr. Patipan Kalvibool, Huawei Digital Power Thailand Mr. Sudhibhumi Pumhiran, Nuovo Plus Co. Ltd. Ms. Oratai Suwanwilaikul, B.Grimm Power, PLC Mr. Nawanat Eua-Anant, Electricity Generating Authority of Thailand (EGAT) Mr. Chaturon Kusonsong, Provincial Electricity Authority (PEA) Dr. Supawan Saelim, Agora Energiewende 	Panel Session 10 Net-Zero by 2050: Redesigning Generation, Transmission and Distribution for the Energy Future Session Chair: Asst. Prof. Dr. Jirawadee Polprasert, Naresuan University Speakers: <ul style="list-style-type: none"> Prof. Jai Govind Singh, The Asian Institute of Technology Thailand Mr. Purna Kharel, K&A Engineering Consulting Ms. Jennifer-RuiQiong Pan, Hitachi Energy (China) Limited Xiamen Branch Mr. Arjan Van den Broek, Global Power Synergy PCL 	Workshop 2 The Exclusive Launch of MCSeT with EvoPacT (Invitation Only) by Schneider Electric	Panel Session 11 Stability by Design: Grid-Forming Technologies and Solutions for Renewables of the Future Session Chair: Assoc. Prof. Dr. Cattareeya Suwanasri, King Mongkut's University of Technology North Bangkok Speakers: <ul style="list-style-type: none"> Mr. Witchaya Pimjaipong, Electricity Generating Authority of Thailand (EGAT) Mr. Thanatpong Pramote, Provincial Electricity Authority (PEA) Mr. Antti Harjula, Powerlink Queensland Mr. Yunfeng Liu, Ph.D., Huawei Technologies Co., Ltd. 	Oral Session 10: Track 8/2 AI and Blockchain for Sustainable and Secure Power Systems Session Chair: Prof. Krischonme Bhumkittipich, Rajamangala University of Technology Thanyaburi Speakers <ul style="list-style-type: none"> Artificial Neural Network-based Fault Classification and Location Estimation in a 22 Kv Distribution System: a Case Study in Dan Khun Thot, Thailand - Chompoo Suppatoomsin (15 min) Explainable Ai-enhanced Energy Forecasting Using Lightgbm with Shap and Lime Interpretability - Krishna Prakash N (15 min) Quantitative Analysis of Partial Shading Impact on Photovoltaic Module Performance: from Single Cell to Complex Shadow Patterns - Dr Mohammed Bou Rabee (15 min) A Solution to Optimal Power Flow Problems using Improved Dragonfly Algorithm - Soraphon Kigisirisin (15 min) Implementing a Transformer Fleet Management Strategy Combining Reliability and Sustainability Dimensions: A German Utility Case Study - Supachai Thima (15 min)
18.00- 21.00	Gala Dinner (at Power Hub)				

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Room/ Time	Spark Room 1 [Exhibition Hall 3]	Spark Room 2 [Exhibition Hall 3]	Spark Room 3 [Exhibition Hall 3]	Spark Room 4 [Exhibition Hall 3]
09.00- 10.30	Panel Session 12 DERMS and ADMS: Enabling the Clean Energy Transition at the Distribution Level Session Chair: Asst. Prof. Dr. Thongchart Kerdphol, Kasetsart University Speakers: <ul style="list-style-type: none"> Mr. Thawatchai Tantimaporn, Provincial Electricity Authority (PEA) Mr. Thanakrit Kittiwaraat, Electricity Generating Authority of Thailand (EGAT) Mr. Worapot Krathong, Metropolitan Electricity Authority (MEA) 	Panel Session 13 Recent Advances and Implementation of Advanced Metering Infrastructure (AMI) in Thailand Session Chair: Assoc. Prof. Dr. Keerati Chayakulcheeree, Suranaree University of Technology Speakers: <ul style="list-style-type: none"> Dr. Somchai Songsiri, Provincial Electricity Authority (PEA) Mr. Nattanont Chotiheerunyasakaya, Metropolitan Electricity Authority (MEA) Dr. Chaiyod Pirak, King Mongkut's University of Technology North Bangkok Dr. Sataporn Limpattamapanee, Electricity Generating Authority of Thailand (EGAT) 		Oral Session 11: Track 8/3 AI and Blockchain for Sustainable and Secure Power Systems Track 3 Grid Resilience to Natural Disasters Session Chair: Assoc. Prof. Dr. Nattachote Rugthaicharoencheep, Rajamangala University of Technology, Asst. Prof. Dr. Jirawadee Polprasert, Naresuan University Speakers: <ul style="list-style-type: none"> Operational Framework for Fault Detection in Power Systems: a Foundation for Ai-driven Analysis - Dinesh Babu Krishappa Nagalingam (15 min) The Role of Cyber-physical Security Mechanisms to Secure the Operation of Cyber-physical Systems - Reynaldo Nuqui (15 min) EMD-CNN-LDA-KNN: A Hybrid Framework for Power Quality Disturbance Recognition In Utility Grids - Supakan Janthong (15 min) Traveling Wave Fault Location Error in Branched Distribution Networks - Rustem Khuziashev (15 min) Emergency V2H Operation Considering Detection and Restoration of Multiple Faults in Distribution Systems - Atsushi Nobori (15 min) Optimal Placement of Static VAR Compensators (SVCs) in Transmission Systems Using Deep Reinforcement Learning - Sirawich Limprapassorn (15 min)

SATURDAY 29TH NOVEMBER 2025

Room/ Time	Spark Room 1 [Exhibition Hall 3]	Spark Room 2 [Exhibition Hall 3]	Spark Room 3 [Exhibition Hall 3]	Spark Room 4 [Exhibition Hall 3]
10.30- 11.00	AM Break in Exhibition Hall			
11.00- 12.30	<p>Panel Session 14 Renewable Energy Integration Using Modern HVDC and FACTS Technologies</p> <p>Session Chairs: Assoc. Prof. Sanchai Dechanupaprittha, Kasetsart University, Assoc. Prof. Dr. Cattareeya Suwanasri, King Mongkut's University of Technology North Bangkok</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. Ranfeng Situ, Hitachi Energy Mr. Heinrich von Geymueller, Siemens Energy Limited Dr. Sankara Subramanian, GE VERNOVA 		<p>Panel Session 15 Digitalization Meets Decarbonization: The Role of AI, IoT, and Blockchain</p> <p>Session Chair: Prof. Dr. Weerakorn Ongsakul, Asian Institute of Technology (AIT)</p> <p>Speakers:</p> <ul style="list-style-type: none"> Dr. Sutthat Krongchon, Thai IoT Association Dr. Chanwit Boonchuay, Synapes (Thailand) Co., Ltd. Dr. Warodom Khamphanchai, Asian Institute of Technology (AIT) 	<p>Oral Session 12: Track 8/4 AI and Blockchain for Sustainable and Secure Power Systems</p> <p>Session Chair: Assoc. Prof. Dr. Somporn Sirisumrannukul, King Mongkut's University of Technology North Bangkok</p> <p>Speakers:</p> <ul style="list-style-type: none"> A Large Language Model-based Framework for Generating Simulation Models of Power System - Duange Guo (15 min) Enhancing Grid Flexibility Through Electrification Under Transmission Constraints in Eastern Japan: Examining Scenarios for Cost-effective Renewable Integration - Keiki Shimura (15 min) Optimal Placement, Sizing, and Scheduling of Battery Energy Storage Systems in Distribution Systems Using Graph Neural Network and Artificial Rabbit Optimization - Tanachot Wattanakitkarn (15 min)
12.30- 14.00	Lunch in Exhibition Hall			
14.00- 15.30	<p>Oral Session 13: Track 4/4 EV Integration and Distributed Energy Management Systems</p> <p>Session Chair: Asst. Prof. Supattana Nirukkanaporn, Rangsit University</p> <p>Speakers:</p> <ul style="list-style-type: none"> A Model Predictive Control Scheme for a CSI7-based Transformerless Photovoltaic System - Natthachai Chaiyakham (15 min) Enhancing the Cybersecurity Posture of Microgrids Through Standards-compliant Architecture Patterns - Raja Sekhar Ravi (15 min) Participation of Distributed Renewable Energy Sources to Secondary Dynamic Grid Services - Bogdan Marinescu (15 min) A Fundamental Investigation on Detecting Short-gap DC Series Arcs Generated in Low-voltage DC Equipment - Mikimasa Iwata (15 min) Coordinated Dual-loop Model Predictive Control for Grid-forming Inverters - Nottakorn Sukmanont (15 min) Data-Driven Reliability Evaluation of Distribution Systems with Uncertainty Modeling - Nottakorn Sukmanont (15 min) 	<p>Oral Session 14: Track 5 Advanced Smart Grid and Metering Technologies</p> <p>Session Chair: Dr. Chaipyod Pirak, King Mongkut's University of Technology North Bangkok</p> <p>Speakers:</p> <ul style="list-style-type: none"> Heat Pump Demand Response to Minimize Network Voltage Impacts of Domestic Water Heating - Sparkle Prentice (15 min) Advanced Metering Infrastructure-Enabled Smart Metering for Utility Operations and Distribution Network Planning - Priyanshu Praliya (15 min) Coordinated Electric Vehicle Charging in Low-Voltage Distribution System Using LP-Based Dynamic Optimization Framework - Papungkorn Sihawong (15 min) Optimization of Battery Energy Storage Placement in Low-Voltage Distribution Network by Monte Carlo-Based Quasi-Dynamic Simulation and Genetic Algorithm - Pongpisit Charoenpanon (15 min) 	<p>Oral Session 15: Track 6 Bioenergy, Hydrogen, and Decentralized Electrification</p> <p>Session Chair: Dr. Kanchit Ngamsanroaj, University of South Carolina, United States</p> <p>Speakers:</p> <ul style="list-style-type: none"> Planning System of Power to Methanol Supply Chain - Yohanes Kristianto NUGROHO (15 min) Time-of-day Charging for Electric Vehicles: Impact Analysis of Indian Grid Emission dynamics - Pradyuman Agarwal (15 min) A Study On The Impact Of Superconducting Fault Current Limiter On Arc Flash Hazard In An Industrial System - Kittipong Anantanasap (15 min) A Framework for Generation Expansion Planning Under Transmission Constraints: a Case Study of the Western Cape - Grace Ruzive (15 min) 	<p>Oral Session 16: Track 8/5 AI and Blockchain for Sustainable and Secure Power Systems</p> <p>Session Chair: Dr. Warodom Khamphanchai, AltoTech Global</p> <p>Speakers:</p> <ul style="list-style-type: none"> Multi Objective Dynamic Economic Emission Dispatch Using Water Cycle Algorithm - Muhammad Faizan Malik (15 min) Analysis of Secondary Price Cap in the Philippine Wholesale Electricity Spot Market - Crizhalyng Weng Miguel (15 min) A Two-Stage YOLO-CNN Framework for Automated Lithium-ion Battery Defect Inspection - Pancharus Phongphitthongchai (15 min) AI-driven Renewable Energy Forecasting: Comparative Analysis of ML/DL Models with Cloud Computing Integration - Lakshmanan SA (15 min) Arc Flash Analysis in Power Distribution System of the Red Line Mass Transit - Prayad Boonkham (15 min) Optimal Photovoltaic-Battery Storage Sharing for Affordable Net-Zero Urban High-Rises - Raghuraman Ramakrishnan (15 min)
15.30- 16.00	PM Break in Exhibition Hall			

TECHNICAL SESSION OVERVIEW

Technical Sessions	Date	Time	Room	Topic
Tutorial 1	26 November	09.00-12.00	MR110A	Converter-Driven Stability Issues and Solutions in Power Electronics Defined Power Systems
Tutorial 2	26 November	09.00-12.00	MR110B	Requirements and application of UHF PD Monitoring Systems for gas insulated systems and Increased operation reliability through continuous PD monitoring
Tutorial 3	26 November	09.00-16.30	MR111A	Functional Performance Requirements for Grid Forming STATCOM (including E-STATCOM)- a perspective from the planning stage up to the project execution life cycle
Tutorial 4	26 November	09.00-12.00	MR111B	Decentralised frameworks for Future Distribution Networks with High DER Penetration
Tutorial 5	26 November	13.30-16.30	MR110A	De-risking the Energy Transition with Real-time Simulation and HIL Testing
Tutorial 6	26 November	13.30-16.30	MR110B	IEC61850, Process Bus and Digital Substation: Concepts and Real-Time Simulation Testing
Tutorial 7	26 November	13.30-16.30	MR111B	Real-Time Simulation for Power, Energy & Cybersecurity
Super Session 1	27 November	14.00 - 17.30	Energy Exchange	Ancillary Services and Technologies; Opportunities for Thailand's Power Grid
Super Session 2	28 November	09.00-10.30	Energy Exchange	Grid Modernization – Transitioning Power Systems to Sustainable Power Society with High VRE Penetration (Opportunities & Challenges)
Super Session 3	28 November	11.00-12.30	Energy Exchange	Enabling SMRs in Thailand: Policy, Technology, and Partnerships
Super Session 4	28 November	14.00-17.30	Energy Exchange	Energy Storage: Accelerating the Path to a Carbon-Neutral Future
Panel Session 1	27 November	14.00-15.30	Spark Room 1	Energy Transition is not going as fast as initially intended, what's the impact on global decarbonisation objectives and power systems?
Panel Session 2	27 November	16.00-17.30	Spark Room 1	Innovative Optimization Techniques for Smart Grid Operation and Planning
Panel Session 3	28 November	09.00-10.30	Spark Room 1	Hydrogen in Power Systems: Integration Strategies and Global Perspectives
Panel Session 4	28 November	09.00-10.30	Spark Room 2	Green Hydrogen in Power Generation: Strategic Integration or Market Hype
Panel Session 5	28 November	11.00-12.30	Spark Room 2	[C-Level Roundtable] Powering the Carbon-Neutral Future: From Ambition to Action in a Decentralized, Digital Energy World
Panel Session 6	28 November	11.00-12.30	Spark Room 3	Thailand's Demand Response Journey: Pilot Lessons and Pathways to Automation
Panel Session 7	28 November	14.00-15.30	Spark Room 1	AI-Driven Power System and Equipment Monitoring and Maintenance
Panel Session 8	28 November	14.00-15.30	Spark Room 2	WiP: The Road to Sustainable Success: Women in Power Leading with Purpose and Resilience
Panel Session 9	28 November	14.00-15.30	Spark Room 3	DERs and the Path to Net Zero: Storage, EVs, and Flexible Demand
Panel Session 10	28 November	16.00-17.30	Spark Room 1	Net-Zero by 2050: Redesigning Generation, Transmission and Distribution for the Energy Future
Panel Session 11	28 November	16.00-17.30	Spark Room 3	Stability by Design: Grid-Forming Technologies and Solutions for Renewables of the Future
Panel Session 12	29 November	09.00-10.30	Spark Room 1	DERMS and ADMS: Enabling the Clean Energy Transition at the Distribution Level
Panel Session 13	29 November	09.00-10.30	Spark Room 2	Recent Advances and Implementation of Advanced Metering Infrastructure (AMI) in Thailand
Panel Session 14	29 November	11.00-12.30	Spark Room 1	Renewable Energy Integration Using Modern HVDC and FACTS Technologies
Panel Session 15	29 November	11.00-12.30	Spark Room 3	Digitalization Meets Decarbonization: The Role of AI, IoT, and Blockchain
Workshop 1	28 November	11.00-12.30	Spark Room 1	PCS - Key to Provide Resilience for Future Grid by Hitachi Energy
Workshop 2	28 November	16.00-17.30	Spark Room 2	The Exclusive Launch of MCSeT with EvoPacT By Schneider Electric

KEYNOTE SESSION 1

ADVANCING INNOVATION FOR RESILIENCE IN A DYNAMIC ENERGY LANDSCAPE

Date: 27 Nov 2025

Time: 10.30 – 11.00 hrs.

Room: Power Hub, Exhibition Hall 3, Level G



RAJ BEASLA

Senior Director Transmission
and Substation Engineering
at Pacific Gas and Electric Company

KEYNOTE SESSION 2

SOLAR AND WIND INTEGRATION IN SOUTHEAST ASIA

Date: 27 Nov 2025

Time: 11.00 – 11.30 hrs.

Room: Power Hub, Exhibition Hall 3, Level G



**PEERAPAT
VITHAYASRICHAREON**

Senior Energy Analyst,
International Energy Agency

KEYNOTE SESSION 3

ACCELERATING THE ENERGY TRANSITION TOWARD CARBON NEUTRALITY - A SUSTAINABLE ENERGY FUTURE FOR ALL

Date: 27 Nov 2025

Time: 10.35 – 11.05 hrs.

Room: Power Hub, Exhibition Hall 3, Level G



NARIN PHOAWANICH

Governor,
Electricity Generating Authority of Thailand
(EGAT)

TUTORIAL SESSION 1

CONVERTER-DRIVEN STABILITY ISSUES AND SOLUTIONS IN POWER ELECTRONICS DEFINED POWER SYSTEMS

Date: 26 Nov 2025
Time: 09.00 – 12.00 hrs.
Room: MR110A, Level 1



SHAN JIANG
Postdoctoral Fellow
UNSW Sydney



YE ZHU
Shanghai Tech
(Postdoctoral Fellow UNSW Sydney)



GEORGIOS KONSTANTINOU
Associate Professor leading
the real-time simulations laboratory
(RTS@UNSW), UNSW Sydney

TUTORIAL SESSION 2

REQUIREMENTS AND APPLICATION OF UHF PD MONITORING SYSTEMS FOR GAS INSULATED SYSTEMS AND INCREASED OPERATION RELIABILITY THROUGH CONTINUOUS PD MONITORING

Date: 26 Nov 2025
Time: 09.00 – 12.00 hrs.
Room: MR110B, Level 1



WOJCIECH KOLTUNOWICZ
Senior Technical Consultant,
OMICRON Energy Solutions GmbH

TUTORIAL SESSION 3

FUNCTIONAL PERFORMANCE REQUIREMENTS FOR GRID FORMING STATCOM (INCLUDING E-STATCOM)- A PERSPECTIVE FROM THE PLANNING STAGE UP TO THE PROJECT EXECUTION LIFE CYCLE

Date: 26 Nov 2025
Time: 09.00 – 16.30 hrs.
Room: MR111A, Level 1



DAVID LANGNER
Senior System Design Engineer,
Siemens Energy



MIKAEL HALONEN
Hitachi Energy's Application
Engineering Manager



SEPTIMUS BOSHOFF
Head of Growth and
Technology FACTS
DNV South Africa (Pty) Ltd.



HEINRICH VON GEYMÜLLER
Sales Manager for Flexible AC
transmission systems (FACTS)
Siemens Energy



THEUNS VAN STADEN
Senior Consultant,
DNV South Africa (Pty) Ltd.

TUTORIAL SESSION 4

DECENTRALISED FRAMEWORKS FOR FUTURE DISTRIBUTION NETWORKS WITH HIGH DER PENETRATION

Date: 26 Nov 2025
Time: 09.00 - 12.00 hrs.
Room: MR111B, Level 1



DANIEL EGHBAL
Manager Future Network Strategy,
Energy Queensland

TUTORIAL SESSION 5

DE-RISKING THE ENERGY TRANSITION WITH REAL-TIME SIMULATION AND HIL TESTING (RTDS)

Date: 26 Nov 2025
Time: 13.30 - 16.30 hrs.
Room: MR110A, Level 1



KURTIS TOEWS
Senior Technical Sales Engineer,
RTDS Technologies

TUTORIAL SESSION 6

IEC61850, PROCESS BUS AND DIGITAL SUBSTATION: CONCEPTS AND REAL-TIME SIMULATION TESTING

Date: 26 Nov 2025
Time: 13.30 - 16.30 hrs.
Room: MR110B, Level 1



FRANCISCO M. GONZALEZ-LONGATT
Founder and leader,
The DigEnSys-Lab

TUTORIAL SESSION 7

REAL-TIME SIMULATION FOR POWER, ENERGY & CYBERSECURITY

Date: 26 Nov 2025
Time: 13.30 - 16.30 hrs.
Room: MR111B, Level 1



BENOIT MARCOUX

Business Development Manager- Asia,
OPAL-RT Technologies



PIYAPORN SINNART

Technical Sales Engineer,
PTS Combination (Thailand)

SUPER SESSION 1

Session Chair



NAEBBOON HOONCHAREON

Faculty of Engineering,
Chulalongkorn University

Speaker



CHANCHAI AMORNVIPAS

Director of Energy Innovation and
Regulatory Development Department,
Office of the Energy Regulatory
Commission (ERC)



PITI EIAMCHAMROONLARP

Faculty of Law,
Chulalongkorn University



AREEPORN ASAWINPONGPHAN

Research Fellow,
Thailand Development
Research Institute (TDRI)



WARIT RATTANACHUEN

Deputy Governor,
Electricity Generating Authority
of Thailand



SOMCHAI SONGSIRI

Assistant Governor,
Provincial Electricity Authority

ANCILLARY SERVICES AND TECHNOLOGIES; OPPORTUNITIES FOR THAILAND'S POWER GRID

Date: 27 Nov 2025
Time: 14.00 - 17.30 hrs.
Room: Energy Exchange, Exhibition Hall 3, Level G



KNATHIP SPUNTUPONG

Director of Power System Research and
Innovation Department,
Metropolitan Electricity Authority



WORAWUT WARUTTAMAPORNSU

Country Managing Director,
Hsachi Energy (Thailand) Ltd.



PIERRE-LOUIS DARDENNE

Sales Manager,
New Energy Landscape,
Schneider (Thailand) Limited

SUPER SESSION 2

GRID MODERNIZATION - TRANSITIONING POWER SYSTEMS TO SUSTAINABLE POWER SOCIETY WITH HIGH VRE PENETRATION (OPPORTUNITIES & CHALLENGES)

Date: 28 Nov 2025
Time: 09.00 - 10.30 hrs.
Room: Energy Exchange, Exhibition Hall 3, Level G

Session Chair



VISHAL DEVARAJAN

Associate Partner,
McKinsey & Company

Speaker



JAKREE SIRIMANEEWATTANA

Assistant Governor
- Corporate Strategy
EGAT



PEERAPAT VITHAYASRICHAREON

Senior Energy Analyst,
International Energy Agency (IEA)



IAIN MACGILL

Professor,
The University of New South Wales
(UNSW)



DATO' IR. TS. ABDUL RAZIB DAWOOD

Executive Director,
ASEAN Centre for Energy (ACE)

SUPER SESSION 3

Session Chair



KAMPANART SILVA
Researcher
National Energy Technology
Center: ENTEC

Speaker



ARIN TEMEYAKUL
Director, Power Plant Engineering
Division, Electricity Generating
Authority of Thailand (EGAT)



PANTIP AMPORNAT
Senior Energy Analyst
International Energy Agency (IEA)



BEN MCINTOSH
Special Assistant,
Nuclear Competitiveness Team U.S. State
Department, Bureau of Arms Control
and Nonproliferation



SOON KIL JUNG
General Manager
Korea Hydro & Nuclear
Power Co. Ltd. (KHNP)



XIANG RANRAN
Deputy Director of the Nuclear Energy
Development Department,
China National Nuclear Corporation
Overseas Ltd. (CNNC)

FUNDAMENTALS OF SMALL MODULAR REACTORS (SMRS): TECHNOLOGY, DESIGN, AND DEPLOYMENT

Date: 28 Nov 2025

Time: 11.00 – 12.30 hrs.

Room: Energy Exchange, Exhibition Hall 3, Level G

SUPER SESSION 4

Session Chair



PIMPA LIMTHONGKUL
Director of the Energy Innovation
Research Group, National Energy
Technology Center (NETC) Thailand

Speaker



KASIEAN SUKEMOKE
Managing Director,
PEC Technology Thailand Co., Ltd.



JIRAVAN MONGKOLANATAS
National Energy Technology Center,
(NETC) Thailand



PATIPAN KALVIBOOL
Chief Technology Officer,
Huawei Digital Power Thailand



SUDHIBHUMI PUMHIRAN
VP-Corporate Strategy &
Finance and Accounting,
Navio Plus Co. Ltd.



ORATAI SUWANVILAKUL
First Senior Vice President,
Smart Grid and Communication System,
B-Green Power, PCL

ENERGY STORAGE: ACCELERATING THE PATH TO A CARBON-NEUTRAL FUTURE

Date: 28 Nov 2025

Time: 14.00 - 17.30 hrs.

Room: Energy Exchange, Exhibition Hall 3, Level G



NAWANAT EUA-ANANT
Chief of System Control Department,
Northeastern Region Operation Division,
Electricity Generating Authority
of Thailand (EGAT)



CHATURON KUSONSONG
Deputy Manager Smart Grid Division,
Renewable Electricity
Authority (PEA)



SUPAWAN SAEILIM
Project Lead Southeast Asia
Energy Policy,
Agora Energywende

PANEL SESSION 1

Speaker



ALI NAMI
Director,
TBA – Tracey Brunsdon
& Harwood, Australia



GREG ELKINS
Chief Executive Officer,
Global Power Energy,
Australia



DEAN SHARAFI
Strategic Advisor,
Energy Transition Australian
Energy Market Operator (AEMO),
Australia



PIERLUIGI MANCARELLA
Chair Professor,
The University of Melbourne,
Australia



MONGKHON TANGSIRIWIT
Chief President,
Schneider Electric - Thailand,
Huymer and Lane

ENERGY TRANSITION IS NOT GOING AS FAST AS INITIALLY INTENDED, WHAT'S THE IMPACT ON GLOBAL DECARBONISATION OBJECTIVES AND POWER SYSTEMS?

Date: 27 Nov 2025

Time: 14.00 - 15.30 hrs.

Room: Spark Room 1, Exhibition Hall 3, Level G

PANEL SESSION 2

Session Chair



HIROYUKI MORI
Visiting Researcher,
Smart City Innovation Research
Institute, Meiji University
President and CEO, Polaris Grid, Inc.

Speaker



HSIAO-DONG CHIANG
Professor,
Cornell University, NY, USA



YUKITOKI TSUKAMOTO
Senior Executive of the
Digital Energy Center for Excellence,
Mitsubishi Electric Power
Products, Inc., PA, USA



YUTAKA SASAKI
Associate Professor at
Graduate School of Advanced
Science and Engineering,
Hiroshima University, Japan

INNOVATIVE OPTIMIZATION TECHNIQUES FOR SMART GRID OPERATION AND PLANNING

Date: 27 Nov 2025

Time: 16.00-17.30 hrs.

Room: Spark Room 1, Exhibition Hall 3, Level G

PANEL SESSION 3

Session Chair



KANCHIT NGAMSANROAJ
Senior Visiting Research Professor,
Hydrogen and Fuel Cell Center,
University of South Carolina, IEEE
Senior Member

Speaker



SUMITTRA CHAROJSROCHKUL
Executive Director of the National
Energy Technology Center (NETEC),
The National Science and Technology
Development Agency (NSTDA)



PARIYA PHUAKSUK
Engineer Level 10,
Deputy Governor Panel,
Electricity Generating
Authority of Thailand (EGAT)



MILAN PADHI
Business Development - Asia Pacific,
Hydrogen and Decarbonization Solutions,
Siemens Energy Pte. Ltd.



JERIN RAJ

Senior Vice President
and Managing Director,
APAC, Black & Veatch



SARAWUT PHONGPHAIRAT
AVP - M&S Industry,
Hatch Energy (Thailand) Limited

HYDROGEN IN POWER SYSTEMS: INTEGRATION STRATEGIES AND GLOBAL PERSPECTIVES

Date: 28 Nov 2025

Time: 09.00 – 10.30 hrs.

Room: Spark Room 1, Exhibition Hall 3, Level G

PANEL SESSION 4

Session Chair



JIRAWADEE POLPRASERT
Assistant Dean for Continuing
Study and Venture Builder and
an Assistant Professor in the
Department of Electrical and
Computer Engineering, Faculty
of Engineering, Naresuan University,
Phitsanulok, Thailand

Speaker



PAVICH TONGROACH
Chairman of Ronitron Co., Ltd.



YOSAPOL RATHAMARIT
Chief, Power Plant Control
System Engineering Department,
Electricity Generating Authority of Thailand
(EGAT)



NUTTHAPONG PUANGMANEE
Vice President,
Hydrogen Technology and Business
Development Department,
PTT Public Company Limited

GREEN HYDROGEN IN POWER GENERATION: STRATEGIC INTEGRATION OR MARKET HYPE

Date: 28 Nov 2025

Time: 09.00-10.30 hrs.

Room: Spark Room 2, Exhibition Hall 3, Level G

PANEL SESSION 5

POWERING THE CARBON-NEUTRAL FUTURE: FROM AMBITION TO ACTION IN A DECENTRALIZED, DIGITAL ENERGY WORLD BY IEEE PES IN COLLABORATION WITH SCHNEIDER ELECTRIC

Date: 29 Nov 2025

Time: 11:00 – 12:30 hrs.

Room: Spark Room 2, Exhibition Hall 3, Level G

PANEL SESSION 6

THAILAND'S DEMAND RESPONSE JOURNEY: PILOT LESSONS AND PATHWAYS TO AUTOMATION

Date: 28 Nov 2025

Time: 11:00-12:30 hrs.

Room: Spark Room 3, Exhibition Hall 3, Level G

Session Chair



NIPON KETJOY

Director School of Renewable Energy and Smart Grid Technology, Naresuan University

Speaker



YODTHONG MENSIN

Deputy Director for Research and Academic Services, School of Renewable Energy and Smart Grid Technology, Naresuan University



PARINYA SOMSAARD

Deputy Manager, Smart Grid Division, Provincial Electricity Authority (PEA)



SURAT ASVAPOOSITKUL

Head of Demand Response Control System Management, Electricity Generating Authority of Thailand (EGAT)

PANEL SESSION 7

AI-DRIVEN POWER SYSTEM AND EQUIPMENT MONITORING AND MAINTENANCE

Date: 28 Nov 2025

Time: 14:00-15:30 hrs.

Room: Spark Room 1, Exhibition Hall 3, Level G

Session Chair



THANAPONG SUWANASRI

Lecturer and Researcher, Electrical Power Engineering, TGGS, KMUTNB, Thailand.

Speaker



KESSUDA POEMPOLPAIBOOL

Technical Expert - Electrification & Automation, Siemens Limited, Thailand



WOJCIECH KOLTUNOWICZ

Senior Technical Consultant, ORICION Energy Solutions GmbH



CHAIWAT CHAISUKESUNG

Head Of Service Marketing and Sales, Hitachi Energy (Thailand) Limited



SAAR HERMAN

Sales Director, APAC, OPL System



LUCA GARANCIANI

Founder and CEO - INWAVE, Australia

PANEL SESSION 8

WIP: THE ROAD TO SUSTAINABLE SUCCESS: WOMEN IN POWER LEADING WITH PURPOSE AND RESILIENCE

Date: 28 Nov 2025

Time: 14.00 – 15.30 hrs.

Room: Spark Room 2, Exhibition Hall 3, Level G

Session Chair



**SUPATTANA
NIRUKKANAPORN**
Assistant Professor, Head of
Department of Electrical
Engineering, Rangsit University,
Thailand

Speaker



**PIYAPAN
HANNARKIN**
Managing Director,
Operational Energy Group Limited
(OEG) and Vice Chairman of EEE
Power & Energy Society Thailand.



**NAMMON
LERTCHITCHARAT**
Head of the Foreign Power
Purchase Agreements Negotiation
Section at the Electricity Generating
Authority of Thailand (EGAT)



**YADA RUNGRUEANG
WISETRAT**
Cluster Business Vice President,
Power System T&E,
Schneider Electric (Thailand)



**KEERATISIRI
WANNAPHAN**
Market Manager,
Thailand,
Business Unit High Voltage Products,
Hitachi Energy

PANEL SESSION 9

DETERS AND THE PATH TO NET ZERO: STORAGE, EVS, AND FLEXIBLE DEMAND

Date: 28 Nov 2025

Time: 14.00 – 15.30 hrs.

Room: Spark Room 3, Exhibition Hall 3, Level G

Session Chair



**SOMPORN
SIRISUMRANNUKUL**
King Mongkut's University of
Technology North Bangkok

Speaker



DANIEL EGBAL
Manager Future Network Strategy,
Energy Queensland



**WORAPOT
KRATHONG**
Electrical Engineer Level 9,
Power System Planning and
Smart Grid Department, (NEA)



**JATURONG
TONGKAMKAEW**
Assistant Chief, Smart Grid Section,
Smart Grid Division, Provincial
Electricity Authority (PEA)



KIRILL KOKOULIN
Offer Business Development
Director, Schneider Electric



KOMSON DAROJ
Lecturer/Department of Electrical
and Electronics Engineering,
Faculty of Engineering,
Ubonrachathani University

PANEL SESSION 10

NET-ZERO BY 2050: REDESIGNING GENERATION, TRANSMISSION AND DISTRIBUTION FOR THE ENERGY FUTURE

Date: 28 Nov 2025

Time: 16.00 – 17.30 hrs.

Room: Spark Room 1, Exhibition Hall 3, Level G

Session Chair



**JIRAWADEE
POLPRASERT**
Assistant Dean for Continuing Study
and Venture Builder and an Assistant
Professor in the Department of
Electrical and Computer Engineering,
Faculty of Engineering, Naresuan
University, Phitsanulok, Thailand

Speaker



JAI GOVIND SINGH
Head of Department of
Energy and Climate Change (ECC),
JIT



PURNA KHAREL
President and CEO,
K&A Engineering Consulting



JENNIFER-RUIQIONG PAN
ENVI/ENV GIS Global Product Manager,
Energy Product Manager in China,
Switchgear Product Group,
Hitachi Energy China Limited,
Xiamen Branch



**ARJAN
VAN DEN BROEK**
Executive Vice President
and Project Director
Map Te Phu Decarbonisation

PANEL SESSION 11

Speaker

Session Chair

STABILITY BY DESIGN: GRID-FORMING TECHNOLOGIES AND SOLUTIONS FOR RENEWABLES OF THE FUTURE

Date: 28 Nov 2025

Time: 16.00 – 17.30 hrs.

Room: Spark Room 3, Exhibition Hall 3, Level G



CATTAREEYA SUWANASRI
Head of the Department of Electrical and Computer Engineering, KMUTNB



WITCHAYA PIMJAIPONG
Chief, Transmission Control System Development Department, Control and Protection Division, Electricity Generating Authority of Thailand (EGAT)



THANATPONG PRAMOTE
Deputy Director of Grid Operation and Operational Technology, Provincial Electricity Authority (PEA)



ANTTI HARJULA
Technical Director of Power Systems Performance and Connections, Powerlink Queensland



YUNFENG LIU
Chief Scientist of Huawei Digital Power, Huawei Technologies Co., Ltd.

PANEL SESSION 12

Session Chair

Speaker

DERMS AND ADMS: ENABLING THE CLEAN ENERGY TRANSITION AT THE DISTRIBUTION LEVEL

Date: 29 Nov 2025

Time: 09.00 – 10.30 hrs.

Room: Spark Room 1, Exhibition Hall 3, Level G



THONGCHART KERDPOL
Assistant Professor with the Department of Electrical Engineering, Kasetsart University



THAWATCHAI TANTIMAPORN
Manager of the Electricity Liberalization Strategy and Facilitation Division, Provincial Electricity Authority (PEA)



THANAKRIT KITTIWARAT
The Head, Operation and Control Distributed Energy Resources (DERs) Section, Demand Response and Virtual Power Plant Division, Advanced Power System Technology Division, Electricity Generating Authority of Thailand (EGAT)



WORAPOT KRATHONG
Electrical engineer, MEA

PANEL SESSION 13

Speaker

Session Chair

RECENT ADVANCES AND IMPLEMENTATION OF ADVANCED METERING INFRASTRUCTURE (AMI) IN THAILAND

Date: 29 Nov 2025

Time: 09.00 – 10.30 hrs.

Room: Spark Room 2, Exhibition Hall 3, Level G



KEERATI CHAYAKULKHEEREE
Associate Professor at the School of Electrical Engineering, Institute of Engineering, Suranaree University of Technology (SUT)



SOMCHAI SONGSIRI
Assistant Governor (Planning and Engineering Power System Planning and Development), Provincial Electricity Authority (PEA)



NATTANONT CHOTTHEERUNYASAKAYA
Assistant Director of Smart Grid Division, Power System Planning and Smart Grid Department, Metropolitan Electricity Authority (MEA)



CHAIYOD PIRAK
Head of Mobile Communications and Embedded Systems Laboratory (MCELS), King Mongkut's University of Technology North Bangkok



SATAPORN LIMPATTAMAPANE
Chief of Demand Response and Virtual Power Plant Department, Electricity Generating Authority of Thailand (EGAT)

PANEL SESSION 14

Co-Session Chairs

RENEWABLE ENERGY INTEGRATION USING MODERN HVDC AND FACTS TECHNOLOGIES

Date: 29 Nov 2025

Time: 11.00 – 12.30 hrs.

Room: Spark Room 1, Exhibition Hall 3, Level G



**SANCHAI
DECHANUPAPRITTHA**
Associate Professor
Kasetsart University



**CATTAREEYA
SUWANASRI**
Head of the Department of Electrical
and Computer Engineering, KMUTNB



**HEINRICH VON
GEYMÜLLER**
Technical Sales STATCOMs,
Siemens Energy Limited



**SANKARA
SUBRAMANIAN**
Product Management
Leader, 900-FACTS, GE,
GE VERNOVA, Paris



RANFENG SITU
HSTU Segment Leader
for Power Quality,
Hitachi Energy

PANEL SESSION 15

Session Chair

Speaker

DIGITALIZATION MEETS DECARBONIZATION: THE ROLE OF AI, IOT, AND BLOCKCHAIN

Date: 29 Nov 2025

Time: 11.00 – 12.30 hrs.

Room: Spark Room 3, Exhibition Hall 3, Level G



**WEERAKORN
ONGSAKUL**
Asian Institute of Technology
(AIT)



**SUTHAT
KRONCHON**
President,
Thai IoT Association



**CHANWIT
BOONCHUAY**
President,
Artificial Intelligence Entrepreneur
Association of Thailand



**WARODOM
KHAMPHANCHAI**
CEO and Co-Founder
Altotech (Thailand) Co., Ltd.

WORKSHOP 1

PCS - KEY TO PROVIDE RESILIENCE FOR FUTURE GRID BY HITACHI ENERGY

Date: 28 Nov 2025

Time: 11:00 – 12:30 hrs.

Room: Spark Room 1, Exhibition Hall 3, Level G



WORKSHOP 2

THE EXCLUSIVE LAUNCH OF MCSET WITH EVOPACT BY SCHNEIDER ELECTRIC

Date: 28 Nov 2025

Time: 16:00 – 17:30 hrs.

Room: Spark Room 2, Exhibition Hall 3, Level G



SOCIAL FUNCTION

Agenda Opening Ceremony

IEEE PES GTD Asia 2025

“Accelerating the Energy Transition toward Carbon Neutrality – a Sustainable Energy Future for All”

DATE:

November 27, 2025

TIME:

09.00 – 12.30 hrs.

VENUE:

Power Hub, Hall 3, QSNCC Level G

Time	Activity
09.00	The honored guests seated
09.30 – 09.35 hrs.	MC Welcome delegates & guest
09.35 – 09.40 hrs.	Welcome Remarks By Dr. Narin Phoawanich General Co-Chair, IEEE PES GTD Asia 2025 Chairman, IEEE Power & Energy Society – Thailand & Governor, Electricity Generating Authority of Thailand (EGAT)
09.40 – 09.45 hrs.	TCEB Supporting Remarks By Mr. Puripan Bunnag Senior Vice President, Thailand Convention and Exhibition Bureau (TCEB)
09.45 – 09.50 hrs.	Reporting Remarks By Prof. Dr. Weerakorn Ongsakul Conference Chair, IEEE PES GTD ASIA 2025
09.50 – 10.00 hrs.	Opening Remarks By Mr. Auttapol Rerkpiboon Minister of Energy
10.00 – 10.05 hrs.	Gimmick Opening Ceremony
10.05 – 10.10 hrs.	Group Photo Session (1)
10.10 – 10.20 hrs.	IEEE PES GTD ASIA 2025 Awards to Supporters By Mr. Auttapol Rerkpiboon Minister of Energy
10.20 – 10.30 hrs.	Group Photo Session (2)
10.30 – 11.00 hrs.	Keynote Session (1) “Advancing Innovation for Resilience in a Dynamic Energy Landscape” By Mr. Raj Beasla Senior Director of Electric Transmission and Substation Engineering, Pacific Gas and Electric Company
11.00 – 11.30 hrs.	Keynote Session (2) “Accelerating the Energy Transition toward Carbon Neutrality - a Sustainable Energy Future for All” By Dr. Narin Phoawanich Governor, Electricity Generating Authority of Thailand (EGAT)
11.30 – 12.00 hrs.	Keynote Session (3) “Solar and Wind Integration in Southeast Asia” By Dr. Peerapat Vithayarichareon Senior Energy Analyst, International Energy Agency
11.30 – 12.00 hrs.	VIP Visit in Exhibition Halls
12.00 – 13.00 hrs.	Executive Lunch

SOCIAL FUNCTION

Agenda Gala Dinner

IEEE PES GTD Asia 2025

"Accelerating the Energy Transition toward Carbon Neutrality – a Sustainable Energy Future for All"

DATE:

November 28, 2025

TIME:

18.00 – 21.00 hrs.

VENUE:

Power Hub, Hall 3, QSNCC Level G

Time	Activity
18.00 – 18.30 hrs.	Welcome and the main entrance is opened
18.30 – 18.35 hrs.	MC greeting all guests
18.35 – 18.40 hrs.	Warm Welcome Remarks By Dr. Piyapan Hannarkin Vice Chair, IEEE Power & Society – Thailand
18.40 – 18.50 hrs.	Thank You Speech By Prof. Dr. Weerakorn Ongsakul Conference Chair, IEEE PES GTD ASIA 2025 By Mr. Warit Rattanachuen Deputy Governor (Strategy), Electricity Generating Authority of Thailand (EGAT)
18.50 – 18.55 hrs.	IEEE PES GTD Asia 2025 Best Paper & Poster Awards Recap By Assoc. Prof. Dr. Somporn Sirisumrannukul Technical Program Chair
18.55 – 19.10 hrs.	Best Paper & Poster Awards
19.10 – 19.15 hrs.	Group photo session (Awardees)
19.15 – 19.20 hrs.	Award to IEEE PES GTD Asia 2025 Organizing Committee By Dean Sharafi IEEE PES Region 10 Conferences Chair, IEEE Power and Energy Society
19.20 – 19.25 hrs.	Next edition: 2027 IEEE PES Grand International Conference and Exposition Asia (GTD Asia) By Dean Sharafi IEEE PES Region 10 Conferences Chair, IEEE Power and Energy Society
19.25 – 19.30 hrs.	Stage performance
19.30 – 19.35 hrs.	Delegates join Thai dance
19.35 – 21.00 hrs.	Gala dinner and enjoy of party



TECHNICAL TOURS

TT01

Discover Thailand's Leading Edge in Sustainable Energy and Smart Manufacturing

Schneider Electric Bangpoo Smart Factory, Samut Prakarn
North Bangkok Combined Cycle Power Plant, Nonthaburi
26th November 2024 | 08.00 – 17.30 hrs.

Step inside an award-winning, ISO-certified smart factory that redefines modern manufacturing. Since 1990, this site has produced vital electrical components while pioneering renewable energy integration, digital energy management, and cutting-edge battery storage systems. Witness how Schneider Electric leads the charge toward carbon neutrality with real-time energy optimization and sustainable innovation.

Indulge in a Michelin Guide-recognized seaside lunch featuring the finest fresh seafood while enjoying breathtaking coastal panoramas.

Your tour culminates at EGAT's North Bangkok Combined Cycle Power Plant, a technological marvel delivering nearly 1,500 MW of clean, efficient electricity through advanced generation technology and comprehensive emission control systems.



This immersive experience provides unprecedented insight into the innovations propelling Thailand's sustainable energy and manufacturing future.

TT02

Winds of Innovation: EGAT Hydrogen Hybrid Experience

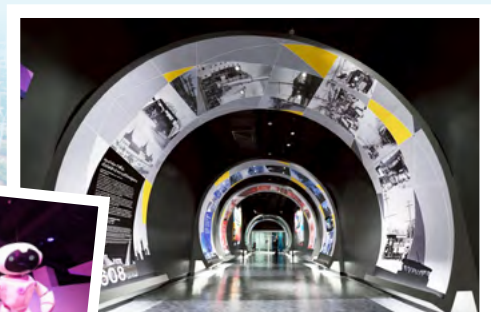
Fuel Cell : Wind Hydrogen Hybrid System,
Nakhon Ratchasima

26th November 2024 | 08.30 – 18.30 hrs.

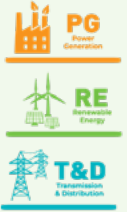
Discover Southeast Asia's pioneering renewable hydrogen hybrid power plant in Nakhon Ratchasima, a groundbreaking EGAT development. This revolutionary facility seamlessly integrates 24 MW of wind power with comprehensive hydrogen production, storage, and a 300 kW fuel cell system to deliver stable, environmentally responsible energy solutions.

Tour highlights include twelve advanced wind turbines, a 1 MW electrolyzer for hydrogen production, high-pressure storage infrastructure, and an innovative fuel cell system powering a completely energy-neutral Learning Center. Gain invaluable insights into renewable energy storage technologies and grid stabilization solutions.

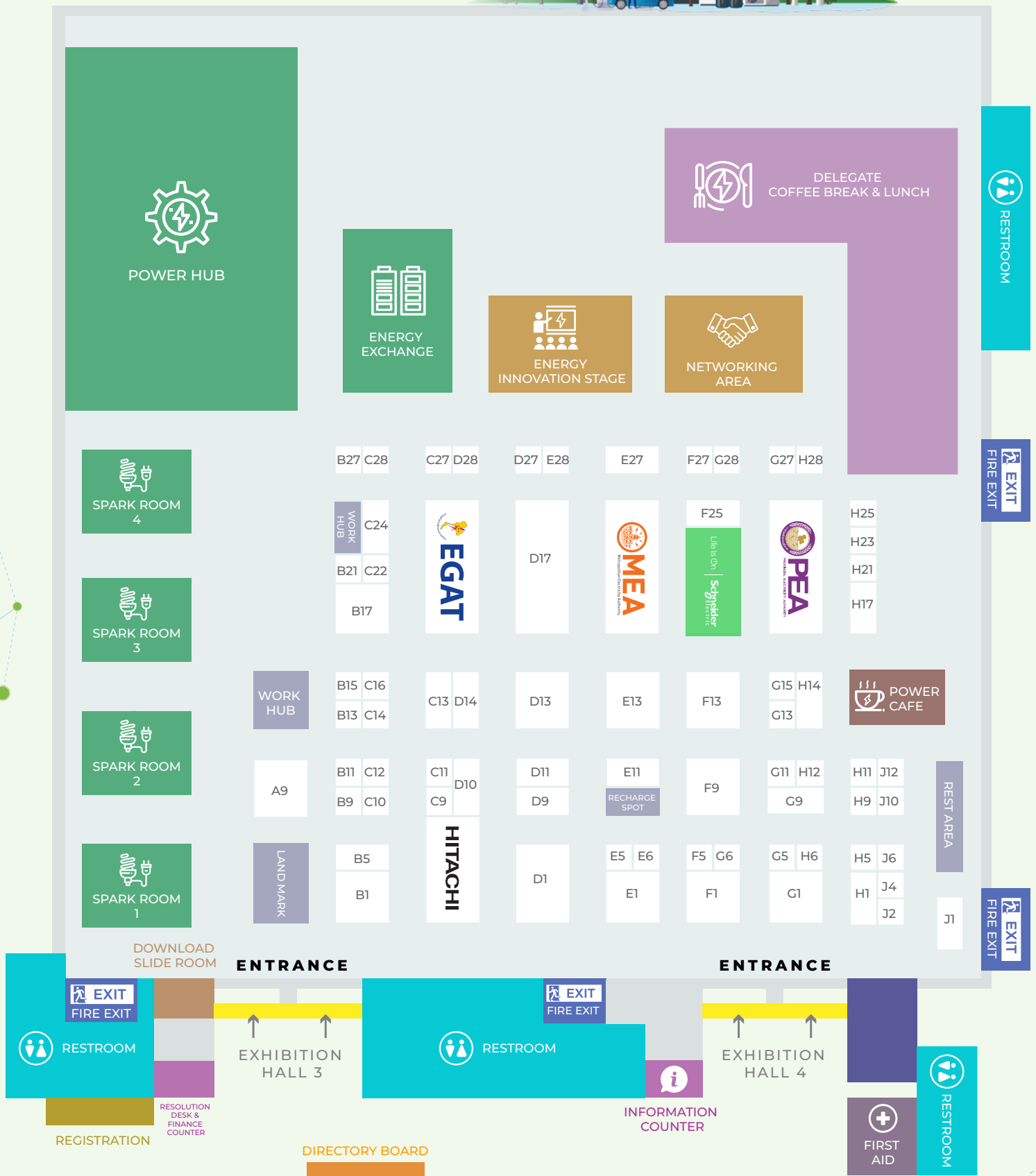
Enjoy an authentic countryside lunch featuring traditional Northeastern Thai cuisine, followed by opportunities to discover regional specialties including Sai Krok Isan, signature Korat rice crackers, and exquisite handwoven silk souvenirs.









































A stylized illustration of a smart energy grid. In the foreground, a blue car is parked at a charging station labeled 'H2' and 'smart'. A person is standing next to the car. To the right, there's a smart meter and a water tap. In the background, there are solar panels, a wind turbine, and a power line tower. The entire scene is overlaid with a network of green and blue dots connected by lines, representing a smart grid.








































FLOOR PLAN



EXHIBITER LIST

	ABB Electrification (Thailand) Co., Ltd. Thailand	F9		High Voltage, Inc. United States	F6
	Akradian Co., Ltd. Thailand Thailand	C10		Hioki Electric (Thailand) Co., Ltd. Thailand	B9
	ALT TELECOM PUBLIC COMPANY LIMITED Thailand	C24		Hitachi Energy (Thailand) Limited Thailand	C1
	AltoTech Global Co., Ltd. Thailand	B21		Hong Kong Trade Development Council Thailand	H5
	ATSIGN POWER CO., LTD. Thailand	D13		Hubbell Utility Solutions Thailand	J12
	Chardon Taiwan Corporation Taiwan	F25		IEEE Power & Energy Society Thailand	B17
	Charoenchai Transformer Co., Ltd. Thailand	C11		Innovative Insulators Company Saudi Arabia	H1
	China ZBB Group Shanghai Transformer Co., Ltd. China	H12		IPEC Ltd. United Kingdom	H17
	CYG CONTRON CO., LTD. China	F13		Jiangsu Dechun Power Electric Co., Ltd. China	H25
	CYG SUNRI CO., LTD. China	F13		KEMREX Co., Ltd. Thailand	F1
	Cylon Electrical Industry Group China	A9		King Mongkut's Institute of Technology Ladkrabang Thailand	D27
	Dewetron, Inc. Austria	G6		King Mongkut's University of Technology North Bangkok Thailand	C28
	DigSILENT GmbH Germany	D28		KINGSINE ELECTRIC AUTOMATION CO., LTD. China	F5
	ECTI Co., Ltd. Thailand	G13		KINKEI SYSTEM CORPORATION Japan	H21
	EGCO Engineering & Service Co., Ltd. Thailand	E1		Lucy Electric (Thailand) Ltd. Thailand	B5
	EMB GmbH Germany	C27		Maps & Globe Specialist (Singapore) Pte Ltd Singapore	J4
	Fuzhou Hisendo Electrical Co., Ltd. China	C22		Megger Ltd. United Kingdom	G5
	Guangdong Sihui Instrument Transformer Works Co., Ltd. China	C9		Metropolitan Electricity Authority (MEA) Thailand	E17
	Guangdong Yuchang Technology Co., Ltd. China	H6		Milestones Technology Co., Ltd. Thailand	J1

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	Mosdorfer (Thailand) Co., Ltd. Thailand	D11		Sieyuan Electric Co., Ltd. China	D1
	NANYANG JINNIU ELECTRIC CO., LTD China	G28		SKYVIV CO., LTD. Thailand	D14
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	OMICRON Electronics Asia Limited Hong Kong SAR	G1		Technology Media Thailand	J6
	OPAL-RT Technologies Thailand	G27		Thai Photovoltaic Industries Association Thailand	J10
	Paralec Energy Co., Ltd. Thailand	H14		Thai Renewable Energy (RE100) Association Thailand	C16
	PD Solutions Co., Ltd. Thailand	H9		Thai Virawat Co., Ltd. Thailand	B1
	Plan Market Gold Co., Ltd. Thailand	H11		Thailand Energy Storage Technology Association (TESTA) Thailand	B13
	PPC Insulators Slovakia (Slovak Republic)	B11		Thailand National Committee of CIGRE (TNC-CIGRE) Thailand	B15
	PREFORMED LINE PRODUCTS (THAILAND) LTD. Thailand	E13		UNHCR Thailand	F27
	Protecta Electronics Ltd. Hungary	G15		Waste to Energy Trade Association Thailand	C14
	Provincial Electricity Authority (PEA) Thailand	G17		Wish Composite Insulator Co., Ltd. China	E27
	RATCH Group PCL. Thailand	E5		Wuhan Guide Sensmart Tech Co.,Ltd China	G9
	Reinhausen (Thailand) Ltd. Thailand	D9		Wuxi Kuncheng New Material Technology Co., Ltd. China	H23
	RTDS Technologies Canada	C12		Xinchang Zhongke Electric Co., Ltd. China	G11
	Sanxin Special Materials (Changzhou) Co., Ltd. China	E11		Yokogawa (Thailand) Ltd. Thailand	J2
	Schneider Electric (Thailand) Ltd. Thailand	F17		Zhejiang Zhongqi Import and Export Co., Ltd. China	D10
	Shanghai Electric Power Transmission & Distribution Group China	D17			

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Accelerating
The Energy Transition
toward Carbon Neutrality –
A Sustainable Energy Future For All

