

Day One
26 October 2022

09:00

Welcome Remarks by Organiser

09:05

Keynote Address

Richard Lim, Chairman, **Energy Market Authority (EMA)**

09:20

Keynote Address

Jimmy Khoo, Chief Executive Officer, SP PowerGrid, **SP Group**

09:35

Platinum Sponsor Keynote Address: Future of the Grid: R&D Imperatives to Support Future Grid Development across Asia

Dr Fraser Thompson, Founder and Chief Strategy Officer (CSO), **Sun Cable**

09:50

Keynote Address

Dr Angela Wilkinson, Secretary General & CEO, **World Energy Council (WEC)**

10:05

Panel Discussion: Developing a Grid that Empowers the Future of Energy

- Trends and forecast in the evolving T&D landscape
- Key challenges in grid modernization to enable low carbon energy transition (Generation & Demand)
- Technological advancements that are key in the transformation to next generation grid
- The opportunities and challenges of interconnecting grid (e.g., ASEAN Power Grid)

Confirmed Speakers

Dr Nuki Agya Utama, Executive Director, **ASEAN Centre for Energy (ACE)**

Pravas Kumar Singh, Member, **Central Electricity Regulatory Commission (CERC)**

Gurbuz Gonul, Director, Country Engagement and Partnerships, **International Renewable Energy Agency (IRENA)**

Dr Aznan Ezraie bin Arifin, Chief of Strategy Officer, **TNB Research**

10:50 Morning Networking Break

11:20

Energy Leaders' Panel: Generation at the Crossroad, Beyond Fossil Fuel

- Future outlook of Generation Companies on the road to a cleaner power future
- Challenges in low carbon energy transition for power producers
- Policy and its importance in supporting the energy transition
- What technologies will support IPPs in their shift to a lower carbon generation system?
- How must the workforce evolve?
- The importance of regional collaboration and economic co-operation in evolving the ASEAN power sector.

Confirmed Speakers

(Moderator) **Philippe Joubert**, Senior Advisor, **World Energy Council (WEC)**

Graeme York, President & CEO, **Senoko Energy**

Eric Francia, President & CEO, **ACEN**

Ditlev Engel, CEO, Energy Systems, **DNV**

Michael Wong, Chief Operating Officer, **Tuas Power**

12:05

Panel Discussion: ASEAN Power Grid: Enabling RE Development Across ASEAN

- Understanding the potential of regional interconnection as a driver of a cleaner energy future
- Exploring successful multi-lateral power grids: What are the secrets to success?
- Examining the regulatory and political hurdles that must be overcome to ensure success
- Advancing transmission systems to prepare for greater interconnectivity and RE adoption, what needs to be done, what challenges exist, and what technologies will act as enablers?
- Discussing high and volatile costs as a barrier to driving interconnectivity and the potential solutions for this
- The importance of transparency: Developing schemes to ensure the green production of energy between regions
- Power trading: enabling x-border power trade platform(s) as a critical enabler of the APG

Confirmed speakers

(Moderator) **Yatin Premchand**, Managing Director – Global Advisory, **Black & Veatch**

Georgie Skipper, Chief Corporate and Government Affairs Officer, **Sun Cable**

Matthew Wittenstein, Chief of Section, Energy Connectivity, **United Nations Economic and Social Commission for Asia and the Pacific (UN ESCAP)**

Eddie Widiono, Founder & Chairman of Supervisory Board, **Indonesia Smart Grid Initiatives (PJCI)**

Amanda J. Van den Dool, Sustainable Energy and Safeguards Team Lead, **USAID Regional Development Mission for Asia (RDMA), Bangkok**

12:50 Networking Lunch

14:00

Panel Discussion: Next Generation Grid Control System

- Exploring the capabilities of next generation control systems (e.g., EMS/ADMS)
- Centralised vs decentralized control architecture
- OT-IT convergence for holistic grid constraint management
- Proactive network management with data as the key enabler

Confirmed speakers

(Moderator) Ravi Krishnaswamy, Senior Vice President – Energy & Sustainability, **Frost & Sullivan**

Gary Ang, Director for Grid Technology and Digitalisation, **SP PowerGrid, SP Group**

Bruce Chan, Deputy Director - Smartgrid & Innovation, **CLP Group**

Stephen Major, Industrial Specialist, **Oracle Energy & Water**

14:45

Panel Discussion: RE Integration - How Grid Planning & Advancing Technology Will Ensure Greater RE Adoption

- Contemporary advancements with distributed energy resource management systems, how they can be optimised in the short to long term?
- Advancing energy storage infrastructure to balance RE intermission for uninterrupted power supply
- Technologies that can enable the grid to cope with RE controllable load, surplus and variability
- Guaranteeing transmission structures are robust enough to cope with RE integration
- What research and policy decisions are needed to support technological advancements

Speakers

(Moderator) Saumya Rao, Director, Infrastructure Advisory, **PwC**

Filipa Ricciardi, Executive Vice President Client Solutions, **EDPR Sunseap**

Dr Dante Recalde, VP, Solutions - APAC, **Energy Exemplar**

Raul Miranda, Associate Analyst, Energy System Modelling, **International Renewable Energy Agency (IRENA)**

Nicolas Leong, Energy Business Director, North & Southeast Asia, **Wärtsilä Energy**

15:30 Networking Coffee Break

16:00

Opening Remarks by UNESCAP

Randi Kristiansen, Economic Affairs Officer, **UNESCAP**

16:10

Panel Discussion: Is the Trend for Sustainable Financing Increasing Appetite for Grid & Electrification Projects?

- Should investment priority shift away from generation to optimisation?
- Opportunities and direction for third-party investors and a look at specific assets, projects, and funding
- What is the direction of travel for ASEAN when it comes to financing? Which countries have optimised grid investment and which countries may have to play catch up?
- What are the barriers and opportunities to investment into electrification in the region?
- How can policies encourage grid investment?
- What factors contribute to making a grid project attractive for investors?

Confirmed Speakers

(Moderator) **Randi Kristiansen**, Economic Affairs Officer, **UNESCAP**

Lim Wee Seng, Group Head of Energy, Renewables and Infrastructure, **DBS**

Hsien-Hui Tong, Executive Director- Investments, **SGInnovate**

Lawrence Wu, Chief Financial Officer, **EDPR Sunseap**

Shalabh Singhanian, Chief Investment Officer, **InfraCo Asia**

17:00

Panel Session: Developing a Successful Asset Management Strategy to Manage Next-Gen System Demands

- Exploring successful asset renewal strategies
- Predicting asset failure and ensuring a reliable grid
- Technology advances supporting grid management in an evolving power system

Confirmed speakers

Wee Cheng Tian, Vice President, **SP Group**

Martin Hauske, Head of Asset and Operational Technology, Oracle Energy and Water, Asia Pacific and Japan, **Oracle**

17:30 End of Day 1 & SIEW CONNECT

Day 2
27 October 2022

09:00

Opening Keynote Address

Steve Lee, Chief Information and Security Officer, **SP Group**

09:15

Opening Remarks by IRENA [*topic TBC: on EV Adoption*]

Nicholas Wagner, Program Officer - Renewable Energy Roadmaps (REmap), **International Renewable Energy Agency (IRENA)**

09:25

Spotlight Session: All Aboard the Electric Vehicle - Understanding Barriers to EV Adoption

- What are some learning points from successful significant EV adoption abroad?
- How are utilities and tech providers expanding infrastructure development, what are the barriers and how can they be overcome?
- Encouraging greater buy-in by improving infrastructure: the importance of partnerships and consumer buy-in
- Understanding the need for effective charging systems as an enabler of large-scale EV adoptions: mass and staggered charging platforms
- Educating and re-educating consumers to help address range anxiety concerns
- Exploring the strategies adopted to encourage EV adoption across the region including government programmes

Confirmed Speakers

(Moderator) **Shah Nawaz Asan Gany**, Head, External Communication, Group Corporate Communications, **Tenaga Nasional Berhad (TNB)**

Datuk Shahrol Halmi, Vice President, **Zero Emission Vehicle Association (ZEVA)**

Dr Tobias Massier, Principal Scientist, Energy and Power Systems, **TUMCREATE**

Nicholas Wagner, Program Officer - Renewable Energy Roadmaps (REmap), **International Renewable Energy Agency (IRENA)**

Yeoh Eng Yew, Director, Regional Institute for Sustainability and Energy Transition (RISE), **Bureau Veritas**

10:10

Panel Discussion: Let's Get Technical - What Innovations Do We Need to See for V2G

- Modelling the application scenarios where V2G is needed and would work
- Latest trials in the development of V2G technology as well as the potential and limitations of a decentralised giant battery
- Complexities of having an external party have control of your vehicle's battery. What changes must be implemented to drive assurance?

Confirmed speakers

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The times & titles of sessions are subject to change & no speakers are confirmed unless clearly stated.

For further information about the agenda, or how to get involved, please contact

Simon Hoare: Simon.hoare@clarionevents.com

(Moderator) **Pierre Lelong**, Director, Head of Singapore, **ENEA Consulting**
Paul Welsford, Vice President, **Electric Vehicle Association of Singapore (EVAS)**
Dr Sanjib Kumar Panda, Associate Professor and Area Director, Power & Energy Research Group,
Department of Electrical & Computer Engineering, National University of Singapore

10:55 Networking Coffee Break

11:15

Panel Discussion: Grid Modernisation: Technologies & Strategies Ensuring Maximum Efficiency, Reliability in an Evolving Power System

- What are the limitations of the present grid? What evolving needs must we address?
- Understanding the complexities of an evolving power system and the steps in business development to match this
- Technologies to optimise network operation effectiveness
- Is maximising grid infrastructure the key to grid modernisation? What other steps must we take to accelerate this?

Confirmed Speakers

(Moderator) **Dr Matthew Rowe**, Director, Power Grids, Asia-Pacific, **DNV**
Brian Tsui, GM for Engineering & Capability Development, SP PowerGrid, **SP Group**

12:00

Technology Insight: Hurtling Towards a Fully Digitised Future

- Applying AI and other intelligent technologies to grid assets
- Case study on successful digitalisation projects when it comes to the grid
- Learning points on digitalisation from more advanced regions

12:15 Networking Lunch

13:45

Spotlight Session: Demand Response: Strategies Supporting Smarter Consumer Consumption

14:05

Panel Discussion: Power Hungry: How Energy Efficiency Will Enable the Growth of Data Centres Within an Increasingly Stressed Grid

- How are data centres working to support the lower carbon efforts of national governments globally?
- What efficiency technologies are increasingly enabling datacentres to reduce power consumption
- How are grid operators and datacentres working together to overcome the challenges posed by power-intensive buildings?
- How will energy efficiency solutions continue to evolve to support datacentres, and buildings more broadly

Confirmed Speakers

Dr Poh Seng (PS) Lee, Executive Director, **Energy Studies Institute (ESI)**, National University of Singapore (NUS)
Wong Wai Meng, Chief Executive Officer, **Keppel Data Centres**

Invited speakers: SP Group, AWS

14:50 Networking Coffee break

15:30:

Case Study: Cybersecurity

15:50

Panel Discussion: The Need for an Ever-Evolving Cybersecurity Landscape to Ensure A Secure Future Grid

- The broad outlook on accelerated cybersecurity issues alongside with energy transition, contemporary solutions and direction for further protection
- The IOT revolution, IT, and OT as new frontiers of energy
- The challenges of developing a common security standard to ascertain privacy and security in the age of digitalisation
- Protecting digital system by increasing network visibility, isolating problem and identifying the missing components from OT and substations.
- Using cyber threat intelligence IOC to locate threats on dashboard and mitigate supply chain risk management especially when third parties are involved

Confirmed speakers

(Moderator) **Simeon Tan**, Co-founder, **Protos Labs**

Abdul Aziz Patail, Grid Operation Technology Management Chief Engineer, **Sabah Electricity Sdn Bhd (SESB)**

Neo Boon Kai, Director, Security Architecture & Engineering, **SP Group**

Azril Rahim, Senior Manager, Cyber Security, **Tenaga Nasional Berhad (TNB)**

16:35

Panel Discussion: Upskilling: Creating the Energy Workforce of the Future

- Why there is a need for change in the contemporary energy sector
- The value of fluid digital skills in an increasingly digitised future for the energy sector
- Creating a *digital workforce*: outlining the technologies that are changing the shape of the work place and the competencies needed to thrive
- How does the industry address the need for workers to have transferable skills to mitigate against both a manpower and skills shortage issues?

Confirmed speakers

(Moderator) **Dr William Hickey**, Professor of Management, GDUFs, Canton, Senior Energy Advisor

Dr Mak Met, Senior Vice President, Human Resources, **Sarawak Energy Berhad**

Ir. Ts. Bibi Hazrina, Alli Rahman, Head of Strategic Asset and Safety Governance, **TNB Integrated Learning Solutions Sdn Bhd**

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17:05 End of Day 2 & SIEW CONNECT