



**15 - 17 MAY 2024**

Queen Sirikit National Convention Center  
Bangkok, Thailand

# Asia's solution to the world's energy challenges

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*“The Ministry of Energy of the Kingdom of Thailand is pleased to once again host the Future Energy Asia and Future Mobility Asia Exhibition and Summit at the Queen Sirikit National Convention Center in Bangkok, Thailand, from 15 - 17 May 2024. In keeping with our tradition as Asia’s preeminent conferences for accelerating the energy transition, we cordially invite you and more than 22,000 energy change-agents to partake in a collaborative, innovative, and dialogue-rich experience that is crucial in moulding the energy paradigm.”*



**H.E. Pirapan Salirathavibhaga**  
Deputy Prime Minister and Minister of  
Energy of Thailand



**600+**

Industry-Leading Speakers

**300+**

Strategic, Technical & Partner  
Conference Sessions

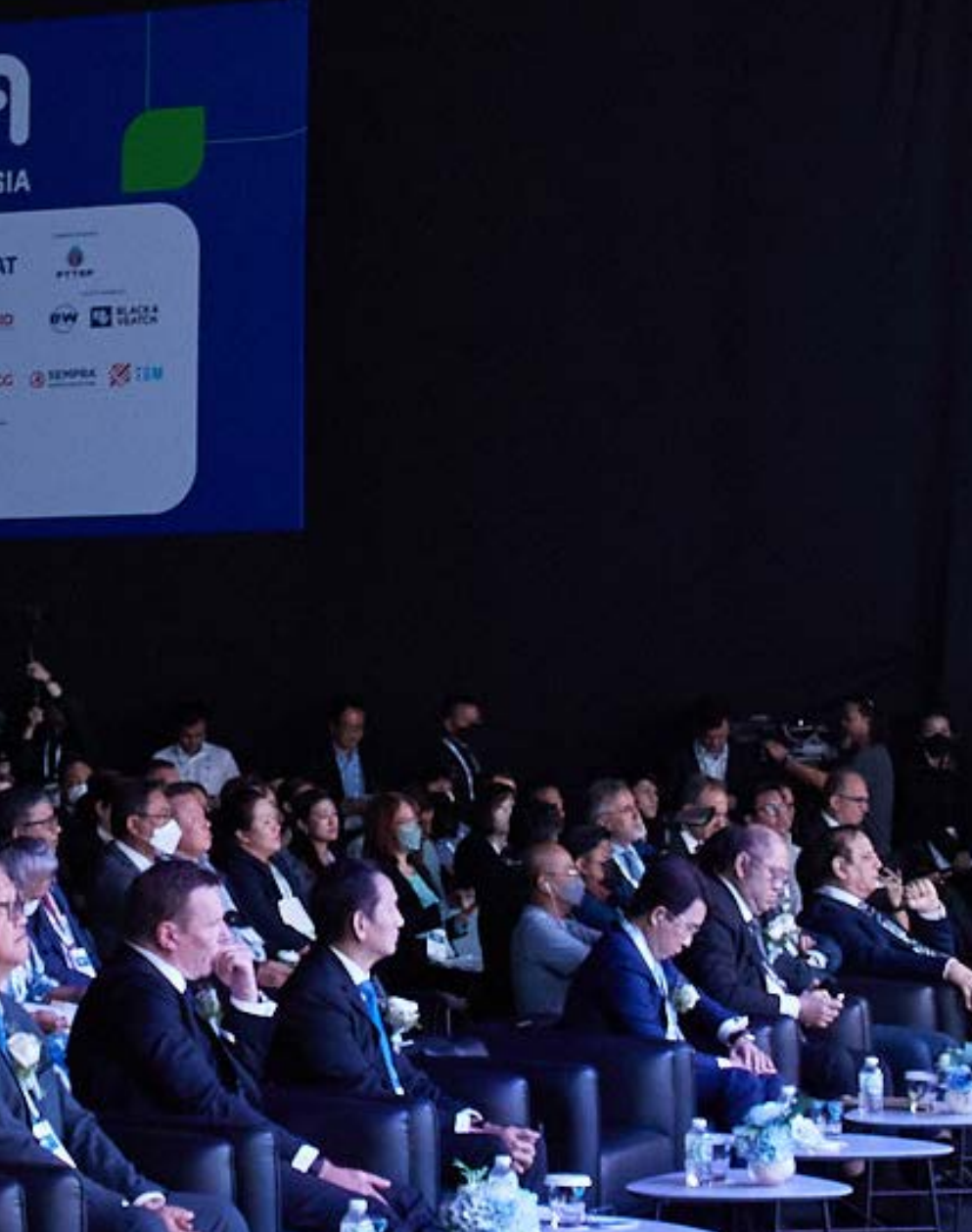
**2,500+**

Conference Delegates

**22,000+**

Attendees





# Accelerating The Clean Energy Revolution In Asia

Hosted by the Ministry of Energy, Thailand and co-hosted by PTT Group and EGAT, the Future Energy Asia 2024 Exhibition and Summit, incorporating the Future LNG Asia, and Future Mobility Asia events, will be held in Bangkok, Thailand, on 15 - 17 May 2024, convening over 22,000 international energy professionals, investors, and innovators to influence, support and deliver Asia's clean energy vision.

The combination of events will address the challenges Asian countries face in balancing immediate energy security concerns with longer-term economic growth objectives, sustainability goals, and commitments to achieve carbon neutrality and, eventually, net-zero. The event will support these nations' ambitions to strengthen international cooperation on policy, action on funding initiatives, and the development of technological solutions to supercharge the energy transition and enable a future of clean, affordable, and secure energy access while fostering sustainable economic growth.

**350+**

Exhibiting Companies

**70+**

Participating Countries

**FEA**  
FUTURE ENERGY ASIA

**FL**  
FUTURE LNG ASIA

**FMA**  
FUTURE MOBILITY ASIA



# Conference Overview



The Strategic Summit will amplify the voices of public and private sector leaders from Asia and beyond. Across a wide range of keynotes, policy sessions and panel discussions, attendees will hear vital insights into the trends, challenges and opportunities shaping the energy sector today.

Putting gas at the heart of the future energy transition, Future LNG Asia Summit welcomes leading LNG suppliers, buyers and technologists to connect with the wider energy ecosystem. It aims to facilitate the sharing of innovative ideas and best practices, and the identification of new commercial partnerships.



The Technical Conference will feature a diverse range of expert speakers from across the energy value chain. Conference sessions will explore the technical and engineering issues behind the biggest challenges being faced, and promote the ideas that are driving efficiencies, synergies, and supporting industry-wide decarbonisation efforts.

The Masterclass provides direct access to the latest insights and perspectives from industry experts on the topics that matter today. Fully CPD accredited, the sessions will arm you with the necessary tools to apply in your daily job and shape your business strategy going forward whilst also allowing you to start your networking early.



Future Mobility Asia Strategic Summit

The Future Mobility Asia Strategic Summit will bring together C-level executives and thought-leaders from across the global value chain, the summit will examine the key strategic trends and technological innovations that will shape the future of the mobility industry,



Energy Regulators Forum

The Energy Regulators Forum, organised by the Energy Regulators Regional Association (ERRA) hosted by the Energy Regulatory Commission of Thailand, will convene national regulators with global investors, utilities, consultants, traders and academics to engage in strategic dialogue on policy and regulatory developments.



Future Mobility Asia Technical Conference

The Future Mobility Asia Technical Conference will bring together key technologists, disruptors, and engineers to drive innovation and inspire new thinking, helping to accelerate the industry's evolution towards a cleaner, more sustainable future.



ERC (Energy Regulatory Commission) Forum

The ERC Forum, organised by the Energy Regulatory Commission - Thailand, provides a platform for policy makers and energy regulators to discuss, collaborate and share best practices and latest developments in energy policy and regulation, with a focus on the ASEAN region. Attendance through application only, visit [www.futureenergyasia.com/ercforum](http://www.futureenergyasia.com/ercforum) for more information.

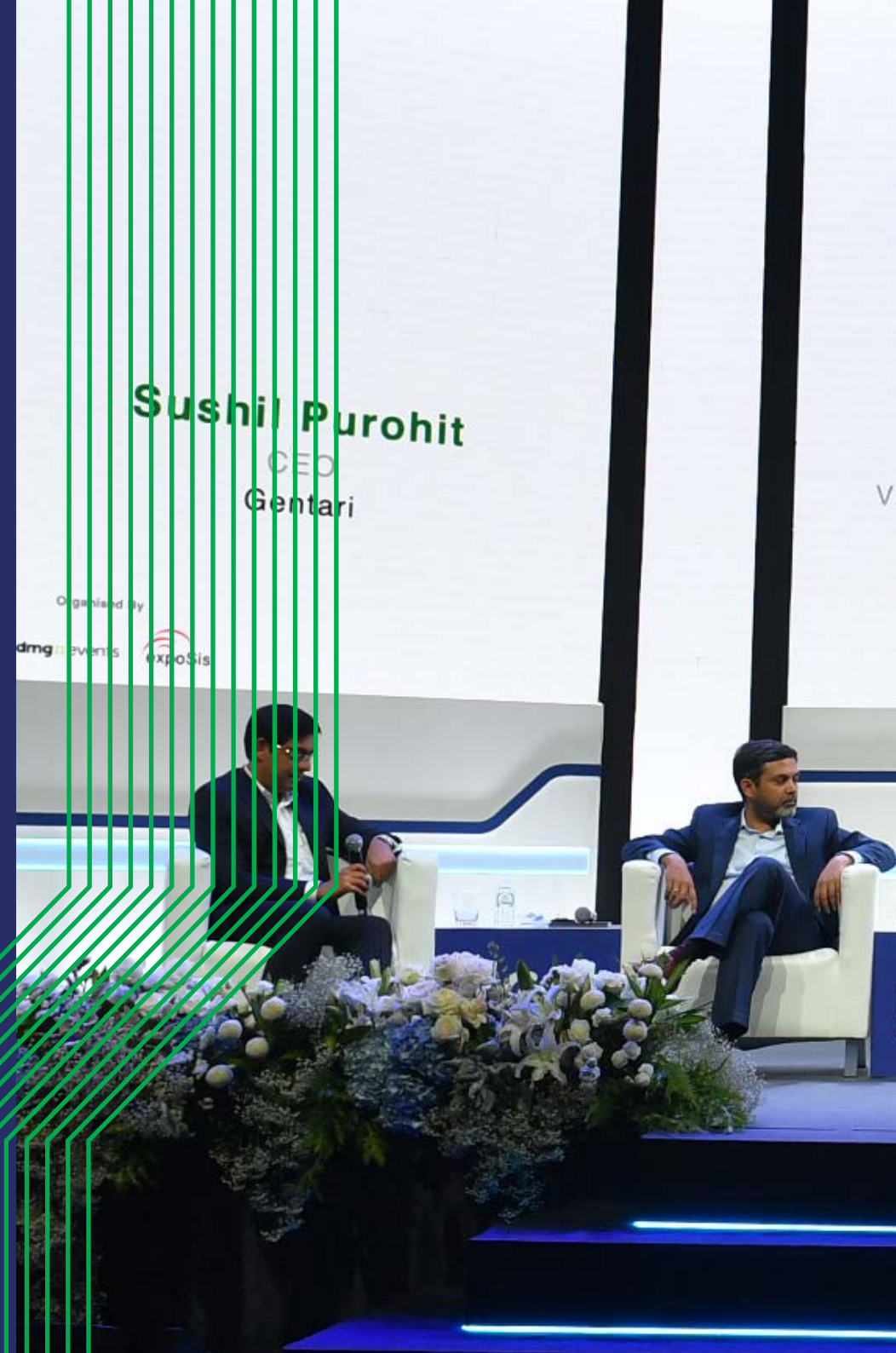


# Hear From 600+ Global Energy Experts

Across eight conferences and more than 300 sessions, Future Energy Asia, Future LNG Asia and Future Mobility Asia bring together more than 600 industry leading speakers, across three simultaneous Strategic Summits, and two Technical Conferences alongside two dedicated Regulatory Forums. This convergence will catalyse strategic initiatives pivotal for steering the industry on its journey to net-zero.

These events present a unique opportunity to discover insights from ministers, policymakers, energy leaders and industry innovators, shaping the strategies and technologies that will define our collective energy future.

With over 2,500 conference delegates from energy, technology, finance, shipping, logistics, manufacturing, policy, and academia expected to attend, Future Energy Asia, Future LNG Asia and Future Mobility Asia will further important dialogue around Asia's contributions to the global energy transition, and shine a spotlight on the region's ongoing decarbonisation efforts.





FUTURE ENERGY ASIA

## The Importance of Regional Partnerships to Support Energy Transition and Manage Supply Chain Complexity

**Vinesh Krishnan**

Vice President, Energy Solutions,  
Hub Asia  
ABB

**Athip Tantivorawong**

Chief Executive Officer and  
Executive Director  
InnoPower

**Pradip Kumar Das**

Chairman & Managing Director  
Indian Renewable Energy  
Development Agency Ltd



FGA  
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# Strategic Summit Speakers



**Darmawan Prasodjo**  
President Director  
PT PLN (Persero)



**Somruedee Chaimongkol**  
Chief Executive Officer  
Banpu Public Company  
Limited



**Dr. Harald Link**  
Chairman  
B. Grimm



**Dr. Tran Hong Nam**  
President and Chief  
Executive Officer,  
**Petrovietnam**  
Secretary in Charge  
ASEAN Council on  
Petroleum (ASCOPE)



**Niwat Adirek**  
CEO and President  
BCPG PLC.



**Jaturong  
Worawitsurawatthana**  
Executive Vice President  
Downstream Business  
Group Planning  
PTT



**Dr. Phirun Saiyaisitpanich**  
Director-General  
Department of Climate  
Change and Environment  
(ONEPw)



**Dr. Sudharma  
Yoonaidharma**  
Commissioner,  
Energy Regulatory  
Commission, Thailand



**Dr. Shiun Chen**  
Senior Vice President for  
Strategy and Corporate  
Development  
Sarawak Energy



**Nobuo Tanaka**  
Executive Director Emeritus  
International Energy  
Agency (IEA)



**Dr. Hong Peng Liu**  
Director, Energy Division  
United Nations Economic  
and Social Commission for  
Asia and the Pacific



**Varun Gujral**  
CEO Asia Pacific  
ENGIE Global Energy  
Management



**Sunil Veetil**  
Regional Head of  
Sustainability, Asia Pacific  
HSBC Commercial Banking



**Anatol Feygin**  
Executive Vice President  
and Chief Commercial  
Officer  
Cheniere Energy



**Mizlan Masri**  
Executive Vice President  
Diamond Gas International



**Christophe Malet**  
Senior Vice President  
Upstream LNG  
Hanas New Energy Group



**Julien Perez**  
Vice President, Strategy  
& Policy  
Oil and Gas Climate Initiative



**Low Kian Min**  
Chief Renewables Officer  
Gentari



**Marci Rose Baranski**  
Programme Management  
Officer, Industry and  
Economy Division  
United Nations Environment  
Programme



**Andrew Walker**  
VP Strategy  
Cheniere Marketing Ltd.



**Zhang Yaoyu**  
General Manager Global  
LNG and New Energies  
PetroChina International



**Ian Havercroft**  
Acting Head of Knowledge  
Global CCS Institute



**Masumi Takanashi**  
Project Director, Global  
Coordination Division,  
Hydrogen and CCS Project  
Japan Organization for  
Metals and Energy Security  
(JOGMEC)



**Helene Burger**  
Head of International  
Cooperation and CCS  
Sustainability, APAC  
Airbus



**Kelvin Wong**  
Managing Director Energy  
Renewables & Infrastructure  
DBS Bank



**Don Lam**  
CEO and Founding Partner  
VinaCapital



**Fabrizio Zarcone**  
Country Manager  
The World Bank



**Olivier Duguet**  
CEO and Co-founder  
The Blue Circle



**Omar Sekkat**  
SVP - Energy Finance  
DNB Bank



**Narsingh Chaudhary**  
President - Asia Pacific  
& India  
Black & Veatch



**Renaud Meyer**  
Resident Representative  
United Nations  
Development Programme  
(UNDP)



**Wen-Bin Qian**  
Vice President of Clean  
Hydrogen, Apac  
Linde



**Yoshitaka Hidaka**  
Director for Energy  
Transformation Strategy  
Japan Bank for International  
Cooperation (JBIC)



**James Kim**  
President/ CEO  
Approtium



**Toshiro Kudama**  
Head of Asia Pacific  
Operations, JERA Co.,  
Director and Vice Chair  
JERA Asia



**Dr. Yoshifumi Suehiro**  
Director, Global Coordination  
Team, CCS Group & Carbon  
Neutral Team (Oil, Gas  
and CCS), Carbon Neutral  
Promotion Headquarters  
JOGMEC



**Dr. Pisut Painmanakul**  
Director, Carbon Institute for  
Sustainability  
Chulalongkorn University



**Peter Godfrey**  
Managing Director Asia  
Pacific  
Energy Institute



**Thanyaporn  
Krichittayawuth**  
Executive Director  
Global Compact Network  
Thailand



**Yoshi Sato**  
Director, New Energy  
(Asia Pacific)  
SLB





**Chen Ping Shang**  
Head of Strategy, Planning & Finance, Hydrogen Gentari



**Rawee Boonsinsukh**  
Senior Executive Vice President of Operations BCPG PLC.



**Bobby G. Fondevilla**  
Executive Director Board of Investment, Philippines



**Yoshito Suzuki**  
General Manager, Engineering Planning Department Eurus Energy Holdings Corporation



**Jonas Berg**  
Senior Director, Applied Technology Emerson



**Zubin Bamji**  
Program Manager The World Bank



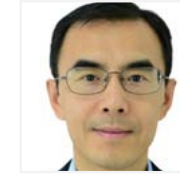
**Guillaume Gerondeau**  
Vice President, Transportation and Mobility Dassault Systemes



**Yada Rungruang Wisetrat**  
Cluster Business Vice President Power System Thailand, Myanmar and Laos Schneider Electric



**Pat Roberts**  
Managing Director LNG - Worldwide Ltd (Conference Chair)



**Delphi Sun**  
Assistant President & Head of Global LNG ENN Natural Gas Co., Ltd.



**Fabian Kor**  
Executive Vice President, Asia Pacific SEFE



**Christopher Goncalves**  
Chair and Managing Director, Energy & Climate Berkeley Research Group



**Imam Mul Akhyar**  
Global Head, Gas & LNG Supply PT PGN



**Yosuke Sato**  
VP, Corporate Planning, Japan Organization for Metals and Energy Security (JOGMEC)



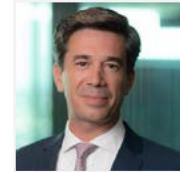
**Yaoyu Zhang**  
Global Head of LNG & New Energies PetroChina International



**Dulyapun (Den) Buranawit**  
VP, Strategic Planning & Business Development PTT Global LNG



**Mehdi Chennoufi**  
Head of Global LNG Origination & Market Development Shell Energy



**Laurent Chaveron**  
GM, LNG Long Term Marketing And Origination TotalEnergies Gas & Power Asia



**Ralf Dickgreber**  
Head of Global LNG & Biomass ENGIE



**Hazrin Hasan**  
VP Gas Assets & Solutions MISC Berhad



**Marty Sinthavanarong**  
Head of International Business Gulf Energy



**Toby Forrest**  
Head of Head, Chartering & Shipping Operations Pavilion Energy



**Alvin Wang**  
Head of Shipping & Operations ENN



**Felix Booth**  
Head of LNG Vortexa



**Michelle Ma**  
Senior LNG Broker & Partner Affinity LNG Pte. Ltd.



**Alice Zhang**  
CCS Commercial Manager - Asia Shell



**Tomoyuki Miyaguchi**  
Chief Representative - Thailand Japan Bank for International Cooperation (JBIC)



**Kenneth Foo**  
Associate Director, APAC LNG S&P Global Commodity Insights



**Abhishek Rohatgi**  
Head of APAC Gas & Global LNG Research BloombergNEF



**Alexander Ermakov**  
Energy Economist VP Gas Exporting Countries Forum (GECF)

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[www.futureenergyasia.com/conference/strategic-summit](http://www.futureenergyasia.com/conference/strategic-summit)

# OPENING CEREMONY

## Programme: Wednesday 15 May 2024

10.00 - 10.15  
OPENING ADDRESS

10.15 - 10.30  
Towards carbon neutrality and the transition to electric mobility

10.30 - 10.45  
Unveiling PTT's investment roadmap in gas infrastructure, LNG, and electric mobility

Kongkrapan Intarajang, CEO, PTT Public



10.45 - 11.00  
Green energy solutions: innovation and electrification strategies to a zero-emission future



11.00 - 11.15  
E&P Keynote - Strategic Initiatives for national energy security and decarbonisation



PTTEP

MINISTERIAL ADDRESS

KEYNOTE ADDRESS

LEADERSHIP PANEL

11.15 - 12.00  
**COP28, 2030, and the new global sustainability policy roadmap - implications, impact and opportunities for Asia's energy transition and climate leadership**

In December 2023, COP28 saw over 120 countries sign the Global Renewables and Energy Efficiency Pledge, a milestone international pact to supercharge the world's energy infrastructure transition through a tripling of global renewable energy capacity and doubling of energy efficiency capabilities by the end of the decade. ASEAN member states present jointly reaffirmed their own UNFCCC and Paris Agreement climate commitments, thus representing much of the world's fastest growing region for economic development and energy consumption. For global climate action policies to be successfully established across Asia, they will need to be just, equitable and tailored, reflecting common G2G goals implemented across differentiated national responsibilities, capabilities, capacities and circumstances. The energy security requirements of Asia's major developed nations must be balanced with those of its rapidly emerging economies, often those countries on the frontlines of future climate risk.

How will Asia's COP28 and wider climate policy commitments, as well as the influence of CBAM, IRA and the EU Green Deal in the West, impact the region's energy security, affordability and economic competitiveness? How can new policies and regulatory incentives be used to create sustainable economic growth opportunities? What accountability and implementation mechanisms must be put in place for initiatives to be both equitable and effective? How best should the public and private sectors collaborate to meet Asia's energy trilemma challenge?

**Audience insights:**

Hear key perspectives from policymakers and industry on how Asia should best approach its burgeoning role in global climate pledge leadership, alongside the region's diverse and far-reaching energy security, affordability and sustainability objectives.

**Panel:**



**Dr. Phirun, Saiyasitpanich**  
Director-General, Department of  
Climate Change and Environment  
(DCCE)



**FMA**  
FUTURE MOBILITY ASIA

**FCA**  
FUTURE ENERGY ASIA

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MINISTRY OF ENERGY

17 – 19 MAY 2023  
QSNCC, BANGKOK, THAILAND



# Strategic Summit | Schedule at a Glance

Wednesday   15 May 2024
<b>10.00 - 11.15</b> Opening Ceremony
<b>10.15 - 10.30</b> Towards carbon neutrality and the transition to electric mobility
<b>10.30 - 10.45</b> Unveiling PTT's investment roadmap in gas infrastructure, LNG, and electric mobility
<b>10.45 - 11.00</b> Green energy solutions: innovation and electrification strategies to a zero-emission future
<b>11.00 - 11.15</b> E&P Keynote - Strategic Initiatives for national energy security and decarbonisation
<b>11.15 - 12.00</b> COP28, 2030, and the new global sustainability policy roadmap - implications, impact and opportunities for Asia's energy transition and climate leadership
<b>12.00 - 13.00</b> Asia and the new global energy system - transformative models and pragmatic pathways to tackle the energy trilemma
<b>13.00 - 13.15</b> Maintaining security of energy supply amidst global challenges - the role of natural gas and LNG
<b>13.15 - 13.30</b> Driving climate impact: global best practices for scaling sustainable technologies in carbon reduction
<b>13.30 - 14.15</b> Transforming Asian upstream portfolios to support a low carbon future - visionary, adaptable and responsible solutions
<b>14.15 - 15.00</b> Asia's evolving downstream landscape - petrochemicals demand and diversification vs. value chain decarbonisation
<b>15.00 - 15.45</b> Transition pathways for the Asian power sector - accelerating net-zero via coal substitution, low carbon fuels, renewables, and energy efficiency
<b>15.45 - 16.45</b> Gas and LNG as a cost-effective transition bridge - meeting present to long-term demand for low carbon energy
<b>16.45 - 17.30</b> Methane abatement - Asia's imperative, challenge and opportunity

Thursday   16 May 2024
<b>10.00 - 10.45</b> Financing Asia's decarbonisation journey - rethinking transition funding and investment strategies
<b>10.45 - 11.30</b> Developing the Asian CCUS ecosystem - charting the course for carbon capture technologies deployment
<b>11.30 - 12.15</b> Addressing regulatory bottlenecks to boost renewable energy development
<b>12.15 - 13.00</b> Energy commodities, trade and supply chain - opportunities and challenges for Asia's transition
<b>13.00 - 13.45</b> Multilateral power trading - championing efficient and sustainable energy sharing through regional interconnectivity
<b>13.45 - 14.30</b> Decarbonising Asia's electricity grid - enabling integration of renewable energy with smart grid technologies
<b>14.30 - 15.15</b> Asia's next-generation energy storage solutions - solving the renewables intermittency challenge
<b>15.15 - 16.00</b> Unlocking the offtakers and scaling demand
<b>16.00 - 16.45</b> Building supply chain infrastructure for the green hydrogen market
<b>16.45 - 17.30</b> Understanding the financial implications of carbon credits and the EU Carbon Border Adjustment Mechanism (CBAM) for Asia-Pacific companies



## Friday | 17 May 2024

10.00 - 11.00

Optimising energy efficiency and how digital technologies will transform the energy value chain

11.00 - 12.00

Cross-industry collaborations advancing climate action, solutions and innovations

12.00 - 13.00

The end goal for decarbonising energy - how and when can renewables power Asia?

13.00 - 14.00

Harnessing advanced biofuels - a long-term game-changing solution for sustainable transport

14.00 - 15.00

Applications of biofuels, methanol and SAF in hard-to-abate sectors

15.00 - 16.00

Developing next-generation skills needed to manage future energy systems

16.00 - 17.30

Why Asia must pursue a just energy transition on its path to net-zero



LEADERSHIP PANEL

12.00 - 13.00

**Asia and the new global energy system - transformative models and pragmatic pathways to tackle the energy trilemma**

Asia is adding its collective voice to the global decarbonisation narrative, seeking to balance energy security and affordability, with viable policy and action to deliver a pragmatic transition that can avoid socio-political and economic instability along the pathway to net-zero. This journey will see multiple energy sources being tested, deployed and integrated and for the energy leaders of tomorrow, building a cost-competitive, adaptable and resilient portfolio will require creative and practical strategies and solutions and an understanding of how to continue meeting investor and market expectations while achieving Asia's far-reaching low carbon and net-zero commitments. Energy companies will also need to create a new generation of resilient workforces, pioneer and adapt climate technologies, as well as secure the finance and investment needed to build successful new operating models.

As the industry moves rapidly from establishing the frameworks of global and regional low carbon and net-zero pledges to the action and implementation stages, what steps must be taken to ensure sustainable, secure and affordable energy for Asia's diverse economies and populations, while continuing to create shareholder value? Where should the short-to-mid-term balance be found between investments in stable, existing infrastructures and newer, cleaner energy sources? Where are the opportunities for creating high impact new projects and markets in low carbon sectors? How can energy leaders build resilience into their operations?

**Audience insights:**

Join global and regional energy leaders as they discuss the new solutions and business models required to stay competitive, while mitigating challenges around the energy trilemma and meeting Asia's climate action needs.

KEYNOTE ADDRESS

13.00 - 13.15

**Maintaining security of energy supply amidst global challenges - the role of natural gas and LNG**

A study by the Economic Research Institute for ASEAN (ERIA) and the Institute of Energy Economy Japan (IEEJ), examined the role of natural gas in reducing emissions. The study foresees that natural gas will play a crucial part where it serves as a flexible baseload that allows the penetration of renewable electricity, and in the longer term (2030-2050), when more advanced technologies such as CCUS as well as cofiring with hydrogen in power generation will be deployed.

However, recent price volatility has raised questions over how reliable and predictable LNG's affordability will be for the future. What are the solutions for the growing economies of Asia to sustain LNG infrastructure development plans and secure energy supply, while also minimising the challenges of price volatility?

**Audience insights:**

Gain insights from a mid-to-long-term market supply outlook from one of the world's largest energy suppliers.

**Speaker:**



**Anatol Feygin**  
 Executive Vice President and Chief  
 Commercial Officer, Cheniere  
 Energy [CONFIRMED]

KEYNOTE ADDRESS

13.15 - 13.30

**Driving climate impact: global best practices for scaling sustainable technologies in carbon reduction**

**Speaker:**



**Narsingh Chaudhary**  
 President - Asia Pacific & India,  
 Black and Veatch



LEADERSHIP PANEL

**13.30 - 14.15**

**Transforming Asian upstream portfolios to support a low carbon future - visionary, adaptable and responsible solutions**

For energy companies looking to maintain profitable and viable upstream operations in Asia, or seeking future access, success will require navigating a complex new long-term strategic roadmap. Asia’s upstream evolution in the coming years and decades will be uniquely shaped by those resilient industry players capable of weathering ongoing market volatility, optimising wide-ranging growth market opportunities, while also meeting the region’s diverse energy trilemma challenges within a multi-staged transition to net-zero.

A fundamental restructuring, reengineering and value optimisation of upstream portfolios, resources and assets will be required, building and investing in a long-term vision for new business and operational models - balancing a pragmatic continued investment in E&P activities, with decarbonisation of existing operations, and development of gas and clean, low-carbon alternatives. New infrastructure investment, digital transformation of operations, adaption of CCUS, emissions management and a proliferation of other climate technology solutions, blended with development of a skilled workforce equipped to operate them, will also enable companies in accelerating profitable, lower-carbon growth strategies.

What are the unique requirements for Asia’s upstream operators to remain resilient, competitive and in line with regional climate action aspirations? How should investments in traditional portfolios be balanced with diversification into new low carbon business opportunities? What collaboration, partnership and climate financing strategies can facilitate long-term upstream viability?

**Audience insights:**

Hear visionary strategic outlooks on how upstream operators are planning to balance their Asia portfolios to remain competitive, ensure long-term affordability and security of supply, while successfully supporting and achieving regional energy transition targets.

LEADERSHIP PANEL

**14.15 - 15.00**

**Asia’s evolving downstream landscape - petrochemicals demand and diversification vs. value chain decarbonisation**

Asia’s mid-term carbon reduction targets and longer-term net-zero goal will see a transitional decline in the use of fossil fuels as an energy source. However, projected growth in regional demand for petrochemical feedstocks for traditional markets such as transport, plastics and fertilisers, and for emerging sectors seeking new product materials, including electric vehicles, renewables and green building construction, is set to continue. Asian refining and petrochemicals operators must plan for and implement a significant long-term transformation across their business models, infrastructure and assets in order to meet the challenges and opportunities of delivering cleaner fuels and chemicals that will contribute to the reduction of GHG emissions and fulfil the unique role downstream must play in value chain decarbonisation.

How best can investment in electrification, improving energy efficiency, developing CCUS and utilisation of climate tech enable effective progress? Are partnerships and cross-sector integration with industry and upstream the answer to faster decarbonisation of petrochemicals and refinery operations, while still maintaining growth margins and meeting supply demand? Where will the sustainable growth opportunities within Asian petrochemicals markets be found in the coming decade and beyond?

**Audience insights:**

Learn how the Asian downstream industry is pivoting to diversify, modernise and decarbonise its operations, and understand the importance of downstream in addressing decarbonisation across the wider value chain.

LEADERSHIP PANEL

**15.00 - 15.45**

**Transition pathways for the Asian power sector - accelerating net-zero via coal substitution, low carbon fuels, renewables, and energy efficiency**

Across the region, Asian nations are confronted with rapidly growing energy demand, requiring the power sector to strike a complex balance, ensuring ongoing affordable energy provision while also aligning with climate objectives. Achieving this aim will require an analysis of the future of coal-fired plants, currently accounting for more than 40% of the region's power generation, the reliability of natural gas supply, electrification of end-uses in the value chain, building regional grid interconnection infrastructure, and prospects of emerging technologies like carbon capture, hydrogen, and battery storage. While renewables must play a much more significant role, the challenges of integrating intermittent power sources and attracting the major investment funds necessary remain.

What strategies and policy frameworks are needed to expedite coal power substitution and avoidance of future stranded assets? How can funding be sourced to boost renewable energy investments and what savings from hydrocarbon supply costs can be built into implementation plans? What are the trends in technology development and deployment that can boost renewables infrastructure and facilitate efficient grid upgrades?

**Audience insights:**

Hear from Asia's most forward-thinking power and utilities leaders on their visions, strategies and priorities to achieve net-zero. Examine the transformation of the utility sector as it adapts to ensure security of supply throughout the energy transition. Understand how the business models of power companies are evolving and creating new opportunities for partnerships across the industry.

**Moderator:**



**Marko Lackovic**  
Managing Director & Partner, BCG

**Panel:**



**Darmawan Prasodjo**  
President Director, PT PLN (Persero)



**Somruedee Chaimongkol**  
Chief Executive Officer, Banpu Public Company Limited

LEADERSHIP PANEL

**15.45 - 16.45**

**Gas and LNG as a cost-effective transition bridge - meeting present to long-term demand for low carbon energy**

Natural gas and LNG already play a significant role as a mainstay in the energy mix for Asia's diverse and growing economies. Asia represents by far the largest global LNG market, with the developed regional import markets of Japan, China, Korea, and Taiwan being joined by Malaysia and Indonesia as net importers of natural gas, and Vietnam and the Philippines now pumping significant investment into LNG infrastructure. However, with the recent high price volatility of gas and LNG markets, following the conflict in Ukraine, concerns over reliability and affordability have challenged the view of natural gas and LNG as a viable and durable long-term bridging fuel for Asia's transition towards net-zero.

Regional cooperation, strategic infrastructure investments, and robust policy frameworks can help ensure more resilient operations. What are the key steps that need to be implemented to continue meeting escalating regional demand and attract the long-term capital required for LNG's pivotal role in Asia's energy supply mix? How can Asia's developing economies reduce the energy security risks posed by international price volatility? How can LNG infrastructure be future-proofed, allowing it to be modified and used for the emerging role of biogas, hydrogen and ammonia?

**Audience insights:**

Examine the market dynamics of gas and LNG and its potential to provide mid-to-long-term stability while paving the way for more intermittent renewable sources to join the mainstream of affordable, secure, and reliable energy supply.

**Moderator:**



**Tej Gidda**  
Global Leader - Future Energy, GHD

**Panel:**



**Christophe Malet**  
Senior Vice President Upstream LNG, Hanas New Energy Group



**Hartanto Wibowo**  
Director of Primary Energy, PT PLN



**Narsingh Chaudhary**  
President, Asia Pacific and India Region, Black and Veatch



**Varun Gujral**  
CEO Asia Pacific, ENGIE Global Energy Management



**Andrew Walker**  
Vice President LNG Strategy, Cheniere



LEADERSHIP PANEL

**16.45 - 17.30**

**Methane abatement - Asia's imperative, challenge and opportunity**

The elimination of methane emissions is considered a huge opportunity for the global energy sector to quickly support net-zero objectives. It is also recognized as a comparatively 'low hanging fruit' solution, since multiple existing measurement and mitigation technologies and operational practices, are already capable of reducing over 75% of methane emissions from fossil fuel usage. Methane abatement is especially important for Asia's fast-developing economies, where commitments to decarbonise must be balanced with solving the energy trilemma. The recent COP28 Oil & Gas Decarbonisation Charter, signed by amongst others, six ASEAN nations, pledges 'near-zero' methane emissions by 2030. However, at the current rate of growth, methane emissions in the region could as much as quadruple by 2050, unless practical steps are taken now.

The IEA estimates that 40% of Asia's energy sector methane emissions could be abated at zero cost, with the increased yields and reduced risks resulting from cutting leaks quickly paying for its own implementation. It therefore offers a low-cost and quick-win climate action opportunity for Asia's transition pathway. However, progress for practical implementation in the region is still being slowed by such factors as low industry awareness, the absence of an established market for captured gas, a lack of related infrastructure, an ineffective regulatory landscape and conflicting industry investment priorities.

What practical strategies, regulations, project collaboration and financing mechanisms can empower Asian companies to reduce methane emissions? What have been the success stories and flagship methane abatement projects in Asia to date? How will AI and other emerging technology developments contribute to eliminating methane emissions?

**Audience insights:**

Gain high level insights on how the Asian energy sector can demonstrate its commitment to reducing methane emissions without compromising energy affordability and security, through practical actions, partnerships and sharing global best practice.

**Moderator:**



**Julien Perez**  
 Vice President, Strategy & Policy, Oil and Gas Climate Initiative

**Panel:**



**Dr. Tran Hong Nam**  
 President and CEO, Secretary in Charge, PETROVIETNAM, ASEAN Council on Petroleum (ASCOPE)



**Dr. Steve Olive**  
 Mission Director, USAID



**Marci Rose Baranski**  
 Programme Management Officer, Industry and Economy Division, United Nations Environment Programme



**Shareen Yawanarajah**  
 Director, Global Energy Transition, Environmental Defense Fund (EDF)



**Hajime Wakuda**  
 President and Managing Director, Carbon Neutrality Promotion Headquarters, JOGMEC



**Zubin Bamji**  
 Program Manager, The World Bank



**Handan Badli**  
 Senior General Manager, Production and Operations Management, Malaysia Petroleum Management, Upstream, PETRONAS

LEADERSHIP PANEL

**10.00 - 10.45**

**Financing Asia's decarbonisation journey - rethinking transition funding and investment strategies**

According to the World Economic Forum, to achieve global net-zero targets by 2050, investments in new energy infrastructure, supply chains, materials and technologies will need to be tripled to an annual investment of \$4 trillion by the end of this decade. With Asia representing the fastest growing region for energy consumption and currently yielding 70% of its energy from fossil fuels, a huge amount of this uplift in financing will need to be attracted to and applied within Asian markets. To bridge this financial gap, exploring and testing innovative financing and investment schemes becomes imperative.

The viability of new and diverse financing sources will need to be assessed by regional governments, public and private infrastructure and project developers, and international finance institutions. Mobilising both public and private capital through blended finance will also increasingly emerge as a key strategy to expedite progress.

How can green funding be accelerated to finance Asia's transition? How can governments collaborate to de-risk the huge amount of financing involved in achieving net-zero while maintaining energy security and affordability? What role will public/private partnerships play? How will developments of carbon pricing and emissions trading in Asia affect the mobilisation of finance?

**Audience insights:**

Hear from private companies, multi-lateral institutions and public investors on their key considerations for investing in Asia's energy transition future.

**Panel:**



**Kelvin Wong**  
 Managing Director Energy  
 Renewables & Infrastructure,  
 DBS Bank



**Don Lam**  
 CEO and Founding Partner,  
 VinaCapital



**Fabrizio Zarcone**  
 Country Manager, The World  
 Bank

LEADERSHIP PANEL

**10.45 - 11.30**

**Developing the Asian CCUS ecosystem - charting the course for carbon capture technologies deployment**

CCUS technologies are predicted to play an important role in Asia's clean energy transition. The wider Asia-Pacific region holds significant potential for CCUS deployment, with over 1,300 emitter companies and 20 potential hubs. However, unlocking this potential requires overcoming challenges such as exponential growth, unequal access to viable storage, varying regulatory maturity levels, and the need to develop cross-border policies and infrastructure.

What strategies are being explored to expedite the development of carbon capture technologies and low carbon hubs in Asia, amidst these challenges? How can regional cooperation and partnerships for the development of CO2 storage and transport infrastructure accelerate deployment of CCUS? What regulatory frameworks and incentives need to be established and what role will international finance play?

**Audience insights:**

Hear viewpoints on the latest policy, financing mechanisms, storage developments, and CCUS technology initiatives from project developers, policymakers and financiers of carbon capture technologies.

**Moderator:**



**Ian Havercroft**  
 Acting Head of Knowledge,  
 Global CCS Institute

**Panel:**



**Masumi Takanashi**  
 Project Director, Global  
 Coordination Division, Hydrogen  
 and CCS Project, JOGMEC



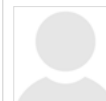
**Yoshi Sato**  
 Director, New Energy (Asia  
 Pacific), SLB



**H.E. Rachmat Kaimuddin**  
 Deputy Minister,  
 Infrastructure and  
 Transportation, Coordinating  
 Ministry of Maritime Affairs  
 and Investment, Republic of  
 Indonesia



**Dr. Han Phoumin**  
 Senior Energy Economist,  
 Economic Research Institute for  
 ASEAN and East Asia (ERIA)



**Alexander Yelland**  
 Director, Policy and Advocacy,  
 Asia Natural Gas & Energy  
 Association



LEADERSHIP PANEL

**11.30 - 12.15**

**Addressing regulatory bottlenecks to boost renewable energy development**

International Renewable Energy Agency (IRENA) in their Renewable Energy Outlook for ASEAN highlighted that Southeast Asia countries can meet growing energy demand with renewables and cut 75% of their energy-related CO2 emissions by 2050. IRENA’s Outlook identifies the transition pathway focusing on renewables where Southeast Asia can save up to USD 160 billion in energy costs while addressing energy security and climate risks.

However, uncertain policy frameworks, rising cost of installation, materials, and equipment and project risks hinder the shift to renewable energy. Overcoming these hurdles requires regulatory clarity, and international collaboration to advance the development of renewable projects. Legislation and collaboration amongst players are important to create a market to make renewable energy more profitable.

**Audience insights:**

A must-attend session that will gather renewable energy developers, operators, and investors with government regulators to discuss the policies, regulatory frameworks, collaboration, and support needed to triple renewable energy capacity by 2030.

**Moderator:**



**Pierre Noel**  
Senior Energy Adviser, TBI  
Global Advisory

**Panel:**



**Bobby G. Fondevilla**  
Executive Director, Board of  
Investment, Philippines



**Low Kian Min**  
Chief Renewables Officer,  
Gentari



**Supa Waisyarat**  
Country Director - Vietnam,  
Super Energy Corporation Plc



**Olivier Duguet**  
Founder, Chairman and CEO,  
The Blue Circle

LEADERSHIP PANEL

**12.15 - 13.00**

**Energy commodities, trade and supply chain - opportunities and challenges for Asia’s transition**

Global markets have experienced extreme volatility and realignments in recent years, greatly affecting the energy and key related commodities sectors. In the new era of low carbon targets and transition to renewables, secure and resilient supply chains are more essential than ever.

In a new world of shifting markets and commodity value chains, and far-reaching decarbonisation commitments, what is the outlook for staying competitive in Asia? How can growth opportunities be found and harnessed, and what are the most important factors to mitigate risk?

**Audience insights:**

Commodity industry experts will discuss the globalisation, trading and supply chains from an Asian perspective, and how best to bring resiliency to Asia’s transitioning supply chains.

LEADERSHIP PANEL

13.00 - 13.45

**Multilateral power trading - championing efficient and sustainable energy sharing through regional interconnectivity**

A key strategy for strengthening Southeast Asia’s transition to renewables while enhancing energy security, affordability, and sustainability is interconnecting power grids in the region. The ASEAN Power Grid (APG) ensures a reliable and interconnected electricity infrastructure and contributes to affordability, meeting rising demand through cross-border electricity trade. Private and foreign companies’ involvement is expected to play a significant role in developing the ASEAN power infrastructure, which requires \$990 billion by 2035.

However, building the APG is a massive multilateral undertaking, requiring the development of infrastructure, transmission facilities and electricity trading mechanisms. Strategies are required for implementing future interconnection projects and optimising the generation fuel mix, while establishing regulatory and technical frameworks.

**Audience insights:**

Examine how regional interconnectivity is being leveraged to promote pragmatic and mutually beneficial clean energy transition policies.

**Moderator:**



**Matthew Wittenstein**

Chief of Section for Energy Connectivity,  
United Nations

**Panel:**



**Dr. Sudharma Yoonaidhama,**  
Commissioner, Energy Regulatory  
Commission, Thailand



**Dato’ Ir. Ts. Abdul Razib bin Dawood**  
Chief Executive Officer, Energy  
Commission, Malaysia



**Rawee Boonsinsukh**  
Senior Executive Vice President  
of Operations, BCPG PLC



**Dr. Shiun Chen**  
Senior Vice President for Strategy  
and Corporate Development,  
Sarawak Energy

LEADERSHIP PANEL

13.45 - 14.30

**Decarbonising Asia’s electricity grid - enabling integration of renewable energy with smart grid technologies**

Asia faces the challenge of meeting rapidly growing energy demand and maintaining affordability, while decarbonising its electricity supply. This ‘greening’ challenge is made more acute by the current heavy reliance of many Asian countries on their existing coal fuelled power stations. Regional utility providers recognise the pivotal role of an upgraded electric grid in tackling the issue long-term. As sustainability drives decentralisation, the pressure to evolve the grid intensifies. Balancing low electricity rates with substantial capital investment challenges utilities. The technical architecture for this transition and tools for grid integration are critical considerations. Next-gen power grids are vital for cleaner energy systems and distributed resources. Leveraging digital technologies, particularly digital twins, ensures grid resiliency.

What are the main factors and next steps for fast-tracking clean energy into the regional grid infrastructure? What role can emerging smart grid and storage technologies play? What government incentives are required to attract funding?

**Audience insights:**

Explore effective strategies for seamlessly integrating renewable energy into existing power grids and get insights on leveraging innovative technologies and establishing a regulatory framework that fosters enhancement and resiliency of the power grid.

**Moderator:**



**Jerin Raj**

Director - South & Southeast Asia and Taiwan,  
Black & Veatch

**Panel:**



**Dr. Twarath Sutabutr**  
President, Office of Knowledge  
Management and Development



**Yada Rungrueang Wisetrat**  
Cluster Business Vice President  
Power System Thailand, Myanmar  
and Laos, Schneider Electric



**Guillaume Gerondeau**  
Vice President, Transportation and  
Mobility, Dassault Systemes



**Nicolas Leong**  
Director, North and Southeast  
Asia, Wartsila Corporation



LEADERSHIP PANEL

**14.30 - 15.15**

**Asia's next-generation energy storage solutions - solving the renewables intermittency challenge**

As Asia increasingly looks to renewables to sustainably supply future energy demand, the intermittent nature of these power sources is an obstacle to accelerating the decarbonisation transition. Energy storage technologies offer a solution and Asia is expected to be the fastest-growing market for new, cutting edge energy storage systems. However, there are current challenges to implementation, including the lack of long duration batteries, standardisation and timely degradation, and limited energy density of existing batteries. A well-defined market structure for energy storage technologies has not yet been established, and new incentive programs, support schemes, and innovative regulations and policy frameworks to lower costs are needed to encourage widespread adoption of energy storage systems.

How can Asia surmount economic and technological deployment constraints to expedite the market adoption of Energy Storage Systems (ESS) and Battery Energy Storage Systems (BESS)?

**Audience insights:**

Delve into the latest advancements in energy storage and battery technologies, tackling the intermittent nature of renewables.

**Moderator:**



**Nobuo Tanaka**  
 Executive Director Emeritus, International Energy Agency (IEA)

**Panel:**



**Franck Bernard**  
 Managing Director Energy Storage and Flexibility, Gurin Energy



**Yoshito Suzuki**  
 General Manager, Engineering Planning Department, Eurus Energy Holdings Corporation

LEADERSHIP PANEL

**15.15 - 16.00**

**Unlocking the offtakers and scaling demand**

Clean hydrogen has been emerging as a critical component of the energy transition and decarbonising hard-to-abate sectors. Asia is investing in hydrogen to transform its thermal power and industrial landscape, aiming to be a significant hydrogen consumer and producer. To harness the potential of hydrogen, effective collaboration across regions and sectors in market design is essential. This synergy expedites the development of hydrogen infrastructure, swiftly unlocking demand for hydrogen in various sectors of the economy.

Infrastructure developments, investment and new technologies are essential to ensure a successful hydrogen strategy.

**Audience insights:**

Identify hydrogen and ammonia opportunities in Asia and how to scale up projects in this emerging market.

**Panel:**



**Toshiro Kudama**  
 Chief Executive Officer, JERA Asia



**James Kim**  
 Chief Executive Officer, Approtium



**Wen-Bin Qian**  
 Vice President of Clean Hydrogen and Large Investments, APAC, Linde



**Yoshitaka Hidaka**  
 Director for Energy Transformation Strategy, Japan Bank for International Cooperation (JBIC)

LEADERSHIP PANEL

**16.00 - 16.45**

**Building supply chain infrastructure for the green hydrogen market**

Ensuring sustainable hydrogen supply chains is vital for integrating hydrogen into future energy systems. This requires assessing infrastructure, innovative manufacturing and distribution networks to manage risks. Early capital investment is necessary to gain manufacturing experience and optimise processes. Pipelines, as well as road, rail and shipping solutions, will be essential to transport hydrogen to locations with large-scale storage facilities. Access to renewable energy sources will be crucial in meeting the demand for green hydrogen, increasing procurement demands on manufacturers of hydrogen.

**Audience insights:**

Join industry experts as they navigate challenges and share best practices and innovations in building a robust supply chain for hydrogen. Examine methods to rapidly transition existing hydrogen production processes towards green practices.

**Moderator:**



**Nobuo Tanaka**  
 Executive Director Emeritus, International Energy Agency (IEA)

**Panel:**



**H.E. Rachmat Kaimuddin**  
 Deputy Minister, Infrastructure and Transportation, Coordinating Ministry of Maritime Affairs and Investment, Republic of Indonesia



**Wooi Leong Tan**  
 Managing Director, Energy and Industrial Division, Surbana Jurong Group



**Dr. Yoshifumi Suehiro**  
 Director, Global Coordination Team, CCS Group & Carbon Neutral Team (Oil, Gas and CCS), Carbon Neutral Promotion Headquarters, JOGMEC



**Chen Ping Shang**  
 Head of Strategy, Planning and Finance, Hydrogen, Gentari



**Robert Judd**  
 Technical Director, Hydrogen and Low Carbon Fuels, APAC, DNV

LEADERSHIP PANEL

**16.45 - 17.30**

**Understanding the financial implications of carbon credits and the EU Carbon Border Adjustment Mechanism (CBAM) for Asia-Pacific companies**

The recently approved Carbon Border Adjustment Mechanism (CBAM) legislation in the EU will have a direct impact on Asia-Pacific (APAC) companies, especially those with operations in Europe or engaged in exporting goods to the EU market. As a result, tax departments within APAC firms must develop strategic plans to address the challenges associated with CBAM implementation, while also exploring potential opportunities that may arise. However, many APAC companies remain unaware of the extensive reporting requirements and operational implications linked to CBAM, highlighting the urgent need for decisive action towards decarbonisation to safeguard competitiveness in the face of these regulatory changes.

How do the intricacies of the CBAM pose challenges for APAC companies, particularly with carbon credits? How can meticulous planning assist in mitigating financial risks and maximising the advantages associated with compliance with CBAM regulations? What are the additional reporting requirements and heightened competitiveness pressures that APAC manufacturers and exporters confront as a result of the CBAM? Furthermore, why is the rapid decarbonisation of their operations paramount to preserving their market position amidst these operational challenges?

**Audience insights:**

Hear differing viewpoints among companies regarding the CBAM underscore the critical necessity of acquiring a thorough comprehension of its implications and adopting strategic response accordingly.

LEADERSHIP PANEL

**10.00 - 11.00**

**Optimising energy efficiency and how digital technologies will transform the energy value chain**

Facing the urgent challenge of climate change, the world aims to transition to a net-zero emissions energy system while meeting escalating energy demands. Key to this transformation is the critical role of technology, particularly digital and AI innovations. These advancements enable the design of new energy systems that optimise operational efficiency, enhance emissions tracking and reporting, and improve the monitoring of carbon offsets.

**Audience insights:**

Explore how digital technologies can be harnessed to enhance and optimise energy efficiency across various sectors and recognise opportunities for technology companies to provide credible and workable solutions.

Panel:



**Jonas Berge**  
 Senior Director, Applied Technology,  
 Emerson

LEADERSHIP PANEL

**11.00 - 12.00**

**Cross-industry collaborations advancing climate action, solutions and innovations**

Energy company portfolios are evolving as organisations position themselves as direct providers of low carbon energy. This is creating new opportunities for partnerships and paved the way for technology transfer and knowledge sharing to accelerate the transition to new energy systems.

How do industry leaders identify the right opportunities for partnerships? How can businesses drive innovation and strengthen collaboration across their value chains to achieve climate goals?

**Audience insights:**

Understand how industries, and public and private sectors are collaborating and forming strategic alliances to advance technologies and harmonise efforts on decarbonisation.

Moderator:



**Nobuo Tanaka**  
 Executive Director Emeritus, International  
 Energy Agency (IEA)

Panel:



**Dr. Harald Link**  
 Chairman, B.Grimm



**Niwat Adirek**  
 CEO and President, BCPG PLC.

LEADERSHIP PANEL

**12.00 - 13.00**

**The end goal for decarbonising energy - how and when can renewables power Asia?**

The staged transition to renewable energy sources, including wind, solar PV, hydro, and geothermal power, is a cornerstone of regional and global climate action plans. IRENA reports suggest that by 2050, the hoped for proliferation of Asia's renewables capacity and infrastructure can deliver reductions of up to 75% of energy related CO2 emissions. The question is how long it will take to shift away from fossil fuels and what steps must be taken to prepare the ground for a future powered by reliable, secure and affordable renewable sources.

Asia's emerging economies have low renewable penetration rates and face additional hurdles towards making this change, including the current challenges of long-term storage, power quality reliability, inadequate infrastructure, and limited awareness, as well as a need for supportive, multilateral policies and subsidies.

How can political momentum be built for the renewables transition? What finance mechanisms, technologies and workable solutions are already available? Where are the quickest wins and what are the optimum renewable energy mixes for them to succeed?

**Audience insights:**

Energy leaders and policymakers will evaluate viable pathways for long-term coal retirement, and how to meet Asia's massive renewable potential in the timeframes needed.

Moderator:



**Melvin Chen**  
 Head of APAC Power and Renewables  
 Consulting, Wood Mackenzie



LEADERSHIP PANEL

**13.00 - 14.00**

**Harnessing advanced biofuels - a long-term game-changing solution for sustainable transport**

Biofuels are projected to play a significant role in feeding the growing demand for energy. Progress is accelerating with efforts to fully unlock the potential of biofuels for transforming the decarbonisation of transportation across Asia. Thailand boasts the largest usage share of liquid biofuels in the region, comprising almost 17 percent of its total transport fuels, and Malaysia, Indonesia, the Philippines and Vietnam are all currently investing in improving their biofuel development capacity.

However, to create sufficient public and private sector financing interest for development projects, and widespread commercial and trade adoption of biofuels, the current operational and technological risks must be further mitigated to make them to represent an attractive opportunity and a viable long-term clean energy solution.

What collaborative initiatives and partnerships are needed to leverage Asia's diverse agricultural, technological and policy strengths, towards building an effective transnational feedstock and biofuel supply chain? How can pan-Asian R&D networks and skills initiatives accelerate innovation in technology? What regulatory and policy incentives are needed to drive momentum?

**Audience insights:**

Explore the strategies, standards, and policy incentives needed for attracting finance, advancing innovation and scaling the production of biofuels.

**Moderator:**



**Harshit Agrawal**  
 Senior Gas Specialist, The World Bank

LEADERSHIP PANEL

**14.00 - 15.00**

**Applications of biofuels, methanol and SAF in hard-to-abate sectors**

Next-gen energy solutions like biofuels, and sustainable aviation fuel (SAF) are gaining interest as a viable and cleaner alternative to non-renewable fossil fuels. Countries like Australia, South Korea, and Japan are adopting a combination of electrification and biofuels to achieve net-zero goals. Singapore, Thailand, and Malaysia are leading efforts to decarbonize hard-to-abate sectors through biofuels. Indonesia has adopted a biomass cofiring solution. What are the best practices and opportunities for using alternative fuels to advance energy transition?

**Audience insights:**

Evaluate a range of alternative fuel options and technologies that offer great potential in decarbonising industries. Learn the growing necessity for the utilisation of biofuels, methanol, and SAF.

**Panel:**



**Helene Burger**  
 Head of International Cooperation and Sustainability, APAC, Airbus

**15.00 - 16.00**

**Developing next-generation skills needed to manage future energy systems**

The energy value chain is undergoing a transformative shift, integrating digital capabilities and emerging climate and digital technologies to usher in the next-generation energy system. To advance decarbonisation, organisations must prioritise talent engagement, invest in skills, and evolve business models. Crafting an employee value proposition that attracts and inspires new talent, combined with re-skilling staff, is essential for sustaining legacy systems and embracing new technologies needed for the energy transition.

**Audience insights:**

Understand the significance of the integration of digital capabilities and climate technologies. Recognise the importance of attracting new talent and investing in skills to manage the complexities of the evolving energy sector.

**Panel:**



**Dr. Pisut Painmanakul**  
 Director, Carbon Institute for Sustainability, Chulalongkorn University

JUST TRANSITION FORUM

16.00 - 17.30

**Why Asia must pursue a just energy transition on its path to net-zero**

The final COP28 text calls on parties to be: "Transitioning away from fossil fuels in energy systems, in a just, orderly and equitable manner, accelerating action in this critical decade, to achieve net-zero by 2050.

Asian Development Bank (ADB) stated that Asia accounts for 50% of global greenhouse gas emissions. Coal-fired power plants, which contribute to a third of these emissions, pose a challenge as coal is responsible for almost 60% of the region's power generation. Transitioning away from coal faces obstacles in terms of scale, employment, and economic dependency. A just energy transition is critical to reconciling environmental sustainability with social equity and economic inclusivity, promoting clean energy adoption and creating a resilient and equitable future for the continent.

**Audience insights:**

The Just Transition Forum will bring together perspectives from community representatives, policymakers, researchers and activists to define the next practical steps of how Asia can move forward towards a just transition, emphasising the importance of fair and inclusive strategies that foster clean energy adoption, and contribute to a resilient and equitable future. Discover the great positive impact and the resulting net positive development with the energy transition as it alleviates the stress caused by the pollution from fossil-based energy systems.

**Moderator:**



**Dave Sivaprasad**  
 Managing Director and Partner, BCG

**Panel:**



**Kitty Bu**  
 Vice President - Asia (ex - India),  
 Global Energy Alliance for  
 People and Planet (GEAPP)



**Dr. Hong Peng Liu**  
 Director, Energy Division, United  
 Nations Economic and Social  
 Commission for Asia and the  
 Pacific



**Renaud Meyer**  
 Resident Representative,  
 United Nations Development  
 Programme (UNDP)



**Peter Godfrey**  
 Managing Director Asia Pacific,  
 Energy Institute



**Thanyaporn**  
 Krichtitayawuth, Executive  
 Director, Global Compact  
 Network Thailand



**Suchart Klaikaew**  
 Senior Energy Advisor,  
 Innovation Regions for a Just  
 Energy Transition, (JET-CR)  
 Interregional Platform, GIZ







## FUTURE LNG ASIA

In today's rapidly changing global environment, intelligence, insight and forward-thinking leadership are essential for strategic decision-making. Future LNG Asia Strategic Summit directly addresses this by convening senior stakeholders from throughout the LNG and gas value chain. New growth prospects for LNG in Asia and worldwide, issues like market volatility and energy security, as well as progress toward decarbonisation goals, are just some of the important issues to be addressed.

Recognising the many synergies between LNG and the broader energy sector, Future LNG Asia Strategic Summit is joining forces with Future Energy Asia. This colocation allows leading LNG suppliers, buyers and technologists to connect with the wider energy ecosystem. It aims to facilitate the sharing of innovative ideas and best practices, and identification of new commercial partnerships. By bringing diverse energy leaders together, the combined event fosters the collaborative thinking and multi-sector cooperation needed to successfully navigate ongoing industry transformations.







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Chair's Opening Remarks

Pat Roberts  
Managing Director  
LNG-Worldwide Ltd

**Chair's Opening Remarks**

**Pat Roberts**  
Managing Director  
LNG-Worldwide Ltd






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Time	Session
10:00	<b>Opening Ceremony</b>
13:00	<b>Chair's Opening Remarks</b>
	 <b>Pat Roberts</b> MD LNG Worldwide Ltd
13:15	<b>Opening Address</b>
13:30	<b>Outlook - The LNG &amp; Gas Global Outlook Medium Term to 2030 and Beyond to 2040</b> This keynote session will explore the medium-term prospects for liquefied natural gas (LNG) and gas markets, extending through 2040. It will analyse the evolving demand landscape in the Asia Pacific region, considering net-zero pathways. Key questions include whether LNG can address the trilemma of energy security, affordability, and decarbonisation. It will also explore price levels for LNG affordability, latent demand, and changes from key regional buyers pursuing net-zero goals. On the supply side, it discusses new capacity, the attractiveness of USLNG, non-US projects, carbon footprint certification, and the impact of decarbonisation efforts on LNG project development. Can LNG quickly resolve the trilemma of guaranteeing energy security, affordability, and its own decarbonisation to become attractive and adopted throughout the region? At what approximate price levels do we see LNG being affordable and sustainable to Asian buyers? Will the DoE pause on permitting have a material impact for Asian markets, and can other non-US projects take the lead in the next 12-18 months? What impact is the need to decarbonise having on the develop and costs of LNG projects?  <b>Attendee Insights:</b> Hear from LNG leaders from across the region share insights into the dynamic LNG landscape, considering both demand and supply factors, and analyse the challenges and opportunities for LNG growth in the Asia Pacific region
	<b>Moderator:</b>  <b>Pat Roberts</b> Managing Director LNG Worldwide Ltd
	<b>Panel:</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <b>Andrew Walker</b>            VP Strategy,            Cheniere Marketing Ltd.         </div> <div style="width: 45%;">  <b>Mehdi Chennoufi</b>            Head of Global LNG Origination            &amp; Market Development            Shell Energy         </div> </div> <div style="margin-top: 10px;">  <b>Fabian Kor</b>            Executive Vice President            Asia Pacific            SEFE         </div>

Time	Session
14:30	<b>Procurement- Evolution of Flexibility in Asia-Pacific's LNG Procurement</b> The outlook for LNG trading growth in Asia remains positive, with spot trading gaining prominence. However, buyers are adjusting their strategies to cope with uncertain demand outlooks, incorporating more flexibility into their LNG portfolios. This includes diversifying supply sources, adjusting contract terms, and optimising storage and regasification capacities. The attractiveness of USLNG in Asian markets is evolving, and buyers are exploring its potential benefits. Suppliers recognise the value of flexibility and are adjusting contract terms, offering diverse pricing structures, and accommodating changes in delivery schedules. How are buyers adapting to uncertain demand outlooks in their businesses and building more flexibility into their portfolios? What are the most effective risk management techniques for volatile LNG markets? What contracting changes are we seeing? What is the outlook for LNG trading growth generally in Asia?  <b>Attendee Insights:</b> Gain key insights into how market volatility is reshaping the trading landscape in Asia Pacific with buyers incorporating flexibility into their portfolios and suppliers recognising the value of adjusting contract terms, and to what extend disruption will continue and evolve through 2024/25.
	<b>Moderator:</b>  <b>Kenneth Foo</b> Associate Director, APAC LNG, S&P Global Commodity Insights
	<b>Panel:</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <b>Dulyapun (Den) Buranawit</b>            VP, Strategic Planning &amp;            Business Development            PTT Global LNG         </div> <div style="width: 45%;">  <b>Delphi Sun</b>            Assistant President &amp;            Head of Global LNG            ENN Natural Gas Co., Ltd.         </div> </div> <div style="margin-top: 10px;">  <b>Ralf Dickgreber</b>            Head of Global LNG &amp; Biomass            ENGIE         </div>

**Time Session**


<b>15:30</b>	<p><b>Shipping - LNG Shipping Availability, Decarbonisation &amp; Supply Chain Disruption</b></p> <p>Asian LNG demand is continuing to increase, supported by strong economic growth and recent LNG price declines, leading to a strong order book up to 2030. However, shipping faces ongoing disruption to key trade routes, with transit disruption through the Panama Canal and Suze Canal, and is continuing to adapt to IMO regulations and future-proofing vessel designs. This session will also address future opportunities for shipping, exploring its role in carbon capture and storage, and as a key driver for unlocking new energy supply chains.</p> <ul style="list-style-type: none"> <li>Trade Flow Disruption: What impact will the transiting restrictions through the Panama Canal and Suez Canal have in setting trading patterns and freighting patterns for the future? What is the outlook for the LNG order book to 2030?</li> <li>Phasing out of steam ships: What are the most likely options and how will they impact the overall availability of capacity.</li> <li>Regulations: Longer term outlook, adapting to IMO regulations, future proofing designs - what impact do these factors have on rates? Are they simply passed through to charterers?</li> </ul> <p><b>Moderator:</b></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p><b>Michelle Ma</b> Senior LNG Broker &amp; Partner Affinity LNG Pte. Ltd.</p> </div> </div> <p><b>Panel:</b></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p><b>Toby Forrest</b> Head of Head, Chartering &amp; Shipping Operations Pavilion Energy</p> </div> <div style="width: 45%;">  <p><b>Alvin Wang</b> Head of Shipping &amp; Operations ENN</p> </div> </div> <div style="margin-top: 10px;">  <p><b>Hazrin Hasan</b> VP Gas Assets &amp; Solutions MISC Berhad</p> </div>
<b>16:30</b>	<b>Close of Summit Day One</b>

**Time Session**

<b>15:00</b>	<p><b>Regional LNG - Key Markets Driving Asia Pacific's LNG Demand Growth</b></p> <p>Pricing levels play a crucial role in stimulating long-term demand in Asia. In North Asian markets, balancing LNG with decarbonisation objectives is challenging, and managing expiring contracts amid uncertain demand is crucial, leading to some discussion on long-term contracts. In South &amp; Southeast Asian markets, high LNG prices impact new entrants and existing projects, encouraging the optimisation of infrastructure, and bolstering firm LNG supply. For the Indian Sub-Continent markets, price sensitivity is a challenge, and appetite for investing in US projects or committing to HH-indexed LNG is being assessed. The question remains whether high prices defer or destroy LNG demand.</p> <ul style="list-style-type: none"> <li>North Asian markets: Key challenges in balancing LNG with decarbonisation objectives. How much appetite is there for new long-term contracts?</li> <li>South &amp; Southeast Asian markets: What impact has high prices had on new entrants and their existing projects and their planned gas to power projects? Does difficulty in securing LNG cost competitively defer LNG demand or destroy it?</li> <li>Indian Sub-Continent markets: Specific challenges for price sensitive markets. What is the appetite to invest in US projects or commit to long term HH indexed LNG?</li> </ul> <p><b>Panelists:</b></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p><b>Zhang Yaoyu</b> Global Head of LNG and New Energies, PetroChina International</p> </div> <div style="width: 45%;">  <p><b>Imam Mul Akhyar</b> Global Head, Gas &amp; LNG Supply, PT PGN</p> </div> </div>
<b>16:00</b>	<p><b>Country Spotlights - Thailand and China</b></p> <p>These two dynamic markets are shaping the future of LNG in Asia. In Thailand, LNG development is gaining momentum due to lower prices, and it is playing a crucial role in driving economic recovery. However, the country faces challenges balancing energy security and with net-zero commitments. In China, imports are recovering from a slump in 2022, with January imports jumping nearly 30% year-on-year, and LNG helping to drive its green transition, and shape future demand globally.</p> <ul style="list-style-type: none"> <li>Gas Strategy: What role will natural gas play in each market.</li> <li>Energy Mix: China's changing energy mix vs Thailand's substitution of domestic gas for LNG.</li> <li>Energy Transition: What efforts are being made in each market to mitigate emissions from LNG.</li> </ul>
<b>16:45</b>	<b>Close of Summit Day One</b>



Time	Session
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10:00	<b>Chair's Opening Remarks</b>   <b>Pat Roberts</b> Managing Director LNG Worldwide Ltd
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10:15	<b>Keynote Address</b>
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10:30	<b>Regional LNG - Key Markets Driving Asia Pacific's LNG Demand Growth</b> Pricing levels play a crucial role in stimulating long-term demand in Asia. In North Asian markets, balancing LNG with decarbonisation objectives is challenging, and managing expiring contracts amid uncertain demand is crucial, leading to some discussion on long-term contracts. In South & Southeast Asian markets, high LNG prices impact new entrants and existing projects, encouraging the optimisation of infrastructure, and bolstering firm LNG supply. For the Indian Sub-Continent markets, price sensitivity is a challenge, and appetite for investing in US projects or committing to HH-indexed LNG is being assessed. The question remains whether high prices defer or destroy LNG demand. How much appetite is there for new long-term contracts in key Asia markets? What impact has high prices had on new entrants and their existing projects and their planned gas to power projects? What is the appetite to invest in US projects or commit to long term HH indexed LNG?
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**Attendee Insights:** Assessing the current and future appetite for LNG in key Asian markets as they balance economic viability, environmental concerns, and energy independence.

**Moderator:**




**Marty Sinthavanarong**  
Head of International Business, Gulf Energy

**Panel:**



**Mizlan Masri**  
EVP, Commercial, Diamond Gas International



**Imam Mul Akhyar**  
Global Head, Gas & LNG Supply  
PT PGN



**Yaoyu Zhang**  
Global Head of LNG and New Energies, PetroChina International




**Kenneth Foo**  
Associate Director  
APAC LNG,  
S&P Global Commodity Insights

Time	Session
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11:30	<b>Country Spotlights - Thailand and China</b> These two dynamic markets are shaping the future of LNG in Asia. In Thailand, LNG development is gaining momentum due to lower prices, and it is playing a crucial role in driving economic recovery. However, the country faces challenges balancing energy security and with net-zero commitments. In China, imports are recovering from a slump in 2022, with January imports jumping nearly 30% year-on-year, and LNG helping to drive its green transition, and shape future demand globally. What role will natural gas play in each market? What efforts are being made in each market to mitigate emissions from LNG? And what impact will China's changing energy mix and Thailand's substitution of domestic gas have on LNG?
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**Attendee Insights:** Gain valuable insights into these two pivotal players, exploring what impact their natural gas, emissions reduction, and energy transitions strategies will have on regional and global energy dynamics.

**Moderator:**




**Abhishek Rohatgi**  
Head of APAC Gas & Global LNG Research  
BloombergNEF

**Panel:**



**Christophe Malet**  
SVP  
Hanas New Energy Group



**Alexander Ermakov**  
Energy Econometrician  
Gas Exporting Countries Forum (GECF)

12:30	<b>FSRUs vs Land Based Terminals - How Will the Industry Bring Growth Markets Online?</b>
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FSRU's enable rapid and cost-effective LNG import capacity growth, offering flexibility and adaptability. However, bringing them online requires addressing technical, regulatory, and infrastructure challenges. Small-scale LNG distribution and bunkering are potential growth areas, and FSRU's play a pivotal role in expanding these markets, especially in Asia. The strategic deployment of both FSRU's and land-based terminals is essential for meeting diverse LNG demand and fostering industrial growth throughout the region. What is the regional overview of the projects under construction and those planned to 2030 for both FSRUs and land-based terminals? What has been the impact of European FSRU demand in deploying FSRU's in Asia Pacific? Can China and India sustain the recent growth in new terminals?

**Attendee Insights:** Hear from industry leaders with real-world knowledge as they explore how new construction techniques, innovation, and technology is shaping the future of FSRU's and land-based terminals, unlocking new supply and growth opportunities throughout the region.

Time	Session
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**13:30** **CCUS - Unlocking Commercial Opportunities with the New Carbon Economy**  
 CCUS solutions represent a significant opportunity for the Asia Pacific region, helping to decarbonise hard to abate sectors, create new valued-added applications - such as synthetic fuels and materials - and unlock new commercial value chains. However, establishing new CCUS projects requires significant investment, government support, and a new policy framework for the region. Collaboration among different industry, government, and regulators is crucial for accelerating the adoption of CCUS solutions and highlighting its role in achieving net-zero goals. What are the economic and technical considerations for implementing carbon capture projects in the region? What are the economic and policy barriers to large-scale deployment of carbon capture? What are the potential sites for safe carbon storage in the Asia-Pacific, and what regulatory frameworks are needed? How can captured carbon dioxide be effectively utilised in hard to abate industrial processes? How can different industries collaborate to accelerate the adoption of carbon capture solutions?

**Attendee Insights:** Gain insights into how collaboration, incentives, and technology are reducing the cost of CCUS, enabling significant emission reductions in hard to abate sectors, and unlocking new growth opportunities in the new carbon economy.

**Panel:**



**Julien Perez**  
 VP, Strategy & Policy, Oil & Gas Climate Initiative (OGCI)



**Christopher Goncalves**  
 Chair and MD, Energy & Climate, Berkeley Research Group



**Alice Zhang**  
 CCS Commercial Manager - Asia, Shell

**14:30** **Transition - The Role of LNG in Asia-Pacific's Energy Transition**  
 Buyers in Asia are increasingly interested in LNG with low greenhouse gas (GHG) emissions. Delivering GHG-neutral LNG, as demonstrated by Shell's recent delivery to Taiwan, is a step toward addressing emissions concerns. While companies focus on Scope 1 and 2 emissions (from operations and bought fuel), they also grapple with pressure to address Scope 3 emissions (from products). Changing regulations and evolving clean energy expectations add complexity to adopting new decarbonisation technologies. However, innovative technologies and strategic planning will drive its evolution, with LNG's resilience and adaptability contributing significantly to Asia-Pacific's sustainable energy future.

- **Technology:** Innovative technologies shaping decarbonised LNG including MRV, carbon neutral LNG, CCS, and low or zero-emission fuels.
- **Awareness:** Are we as an industry making LNG relatable to governments and the public that LNG can contribute very significantly to reducing emissions in Asia's energy sector for the medium to long term?
- **Emission Reduction:** Reviewing the challenges and opportunities to reduce Scope 1 and 2 emissions structurally in LNG infrastructure by 2030. What's needed to make policy frameworks encourage the sustainable use of LNG?

Time	Session
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**Panel:**



**Yosuke Sato**  
 Project Director, Research and Analysis Department, JOGMEC

**15:30** **Finance - Financing Asia Pacific's Energy Transition**  
 Rapid growth in energy demand across Asia is seeing LNG become the fuel of choice, driven by expanding populations, rising standards of living, and sprawling urbanisation. With LNG production and transportation at an all-time high, Asia is seeing new opportunities for both land-based import terminals as well as floating storage and regasification facilities. However, critical barriers to LNG value chain financing are likely to constrain demand growth in South and Southeast Asian markets, as cost inflation, demand fluctuations, and delays in approving new developments impact long-term investment in the industry. How are lenders responding to the uncertainties in LNG demand and deployment of funds between different fuels? What efforts do host governments need to make to promote investment in LNG infrastructure and promote LNG as a new demand centre? What are the key hurdles currently associated to the development of energy projects in Asia Pacific?

**Attendee Insights:** Explore how best to secure investment and financing to successfully deliver new LNG projects, and understand how Asia can transition from fossil fuels to cleaner energy sources whilst balancing economic imperatives and climate goals.

**Panel:**



**Tomoyuki Miyaguchi**  
 Chief Representative - Thailand, Japan Bank for International Cooperation (JBIC)



**Omar Sekkat**  
 SVP - Energy Finance, DNB Bank

**15:30** **Chair's Closing Remarks**

### 10:00 Part 1: Key building blocks

#### The context for the global LNG business 2024 - 2030 and the longer term to 2040:

- How can we make LNG a competitive sustainable fuel for energy transitions to net-zero.
- The fundamentals of the business - how supply chains are structured, how risks are managed and what 2024's economics look like.
- The size and shape of the global business and how it's changing - a summary of the Global SD balance and its outlook.
- The key players - what they bring, their approach to risk and value management, how they are adapting to the new macro business environment. How do they compare amongst themselves?

#### The focus on infrastructure: the forces currently promoting its development, vs the forces holding it back:

- Challenges and dilemmas different countries face.
- LNG supply
- Regasification
- Shipping

#### Moderator:



**Pat Roberts**  
Managing Director  
LNG Worldwide Ltd

### 12:30 Part 2: What new trends are emerging?

#### Key regional markets - the demand pull in Europe and its impact on Asia - how might this develop?

- Selling LNG: the cost vs value considerations.
- The principal business models behind Qatar and the US projects, how they vary and some key considerations for the future.
- The Global Portfolio Aggregators role and the value they bring.
- LNG traders - their growing role.
- Contracting structures and short-term vs long-term considerations.
- LNG pricing options - demystifying the jargon and explaining how a variety of Asian companies choose to price LNG.

#### The long lens into the future:

- Scenario planning for the global market out to 2050.
- Impacts on price sensitive buyers and new entrants.
- Key considerations of the principal stakeholders.
- Why 2024-2030 and 2030-2040 will be quite different in their drivers and how LNG can become a very significant transition fuel to be competitive throughout this period and beyond.

### 14:00 Close of Masterclass



Patricia Roberts BSc PhD Director LNG  
Workshop at DMG's LNG Asia Pacific Summit 2022



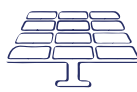
# TECHNICAL CONFERENCE

The Technical Conference will feature a diverse range of expert speakers from across the energy value chain. Conference sessions will explore the technical and engineering challenges behind the biggest issues of the day, and promote the ideas that are driving efficiencies, synergies, and supporting industry-wide decarbonisation efforts.

## Technical Conference themes include:



Clean Hydrogen



Renewable Energy



Gas and LNG, CCUS Technologies



Energy Policy, Economics And Funding Strategy



Grid and Power Transmission Technologies



Boosting Energy Efficiencies Through Digital Technologies

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# Technical Conference Speakers



**Nick Borisov**  
VP Business Development  
8 Rivers Capital LLC



**Artit Krichphiphat**  
CEO  
A Advisory Co, Ltd.



**Muhammad Asef Hashmi**  
Senior Drilling Engineer  
Adnoc Onshore



**Rohit Grover**  
CEO, Founder  
Aerostrovilos Energy Pvt. Ltd.



**Tim Hard**  
SVP  
Argus Media



**Daniele Porciani**  
Digital & Outcome Based  
Services Technical Sales  
Manager  
Baker Hughes Company



**Molly Iliffe**  
Global Head of Hydrogen  
Baring Partners



**Brice Degeyter**  
GM and founder  
Bizsu



**Rohit Rana**  
Senior Analyst, Global Advisory  
Black & Veatch



**Atasit Sirmongkol**  
Engineering Manager  
Black & Veatch



**Anuradha Fad**  
Analyst, Global Advisory  
Black & Veatch



**Jerome Flourey**  
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**Kin Yu Lam**  
Technical Service  
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Carigill Asia Pacific Holdings  
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**Jamal Aliyev, CFA**  
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**Pannawat Nikitsaranont**  
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Chevron Thailand E&P



**Patrick Crehan**  
Director  
CKA



**Saad Mahmood**  
Consultant  
Copperleaf Technologies



**Peerapat Vitheysrichareon**  
Principal consultant  
DNV



**Thomas Koller**  
Regional Hydrogen and CCUS  
Segment Lead, APAC  
DNV



**Mark Elia**  
Global Director - Power &  
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DSS Sustainable Solutions  
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**Ekksait Sombatnimitsakul**  
Oil & Gas and New Energy  
Leader - ASEAN  
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**Jonas Berge**  
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**Prabhat Agrawal**  
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**Nishchay Kathuria**  
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Gall India Limited



**Jon Salazar**  
CEO & Founder  
Gazelle Wind Power Limited



**Margaretha Coertzen**  
Service Line Leader - Hydrogen  
& Hydrocarbons APAC  
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**Noushin Poursafar**  
Battery Storage Engineer  
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**Sarah FitzGerald**  
Future Energy Global Program  
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Chief General Manager  
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Professor  
KENTECH



**Sunil K M**  
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**Guillermo Eichenkopf**  
General Manager  
M2 (Thailand) Co.,Ltd.



**Philip Napier-Moore**  
Energy Sector Leader, ASEAN  
and East Asia  
Mott MacDonald



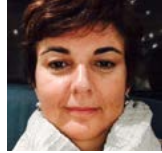
**Mazin Al Habsi**  
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Engineer  
NAFUN Electronics



**Ruaa Al Gharibi**  
Electronics & Instrumentation  
Engineer  
NAFUN Electronics



**D V Shastry**  
Executive Director  
Natural Gas Society



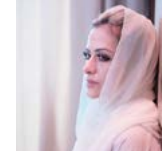
**Ana Pego**  
Researcher Speaker  
Nova University of Lisbon



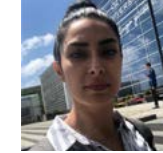
**Geetali Kalita**  
Head-ESG  
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Senior Manager (Technical  
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**Dr. Arshi Ayub Mohamed  
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**Bitu Akhgär**  
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**Mustafa Al Lawati**  
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**Dave Turner**  
Region Director Asia Pacific  
SeekOps Inc



**Paul Hughes**  
President  
Shift Clean Energy



**Azrin Kassim**  
Manager / Team Lead  
SLB



**Chee Kong Chung**  
Managing Director / Founder  
Smart Tradzt



**Darren Chua**  
GM  
Summit Power International



**Hoi Hoong Leong**  
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Surbana Jurong Private Ltd



**Himanshu Kishorkumar  
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Tripatra engineering



**MK Balaji**  
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**Athita Vivatpinyo**  
Manager, Advanced Energy  
Systems  
USAID Southeast Asia Smart  
Power Program



**Maythiwan Kiatgrajai**  
Manager, Utility Modernization  
USAID Southeast Asia Smart  
Power Program



**Martin Lacey**  
Director  
WESTGLEN CONSULT LTD.



**Alexandra Merkel**  
CTO  
WinTec GmbH



**Clean Hydrogen**

**Theatre One**

TIMING	PRESENTATION TITLE & SPEAKERS
11:30 - 11:35	<b>Opening Remarks</b> Mathieu Geze, Director Asia, HDF Energy
11:35 - 11:55	<b>Hydrogen readiness assessment of a training industrial burner for PTT Public Company Limited</b>
11:55 - 12:15	<b>Synthetic methane - does converting renewable hydrogen into methane make sense?</b> Margaretha Coertzen, Service Line Leader - Hydrogen & Hydrocarbons APAC, GHD
12:15 - 12:35	<b>Techno-commercial assessment framework for co-firing hydrogen in gas power plants to reduce carbon emission</b> Azrin Kassim, Manager / Team Lead, SLB Nor Azwani Abd Ghapar, Senior Process Engineer, SLB Rajes Mutthusamy, Senior Energy Economics Consultant, SLB
12:35 - 12:55	<b>The role of green hydrogen to support decarbonisation in Thailand and Southeast Asia</b> Peerapat Vithayasrichareon, Principal consultant, DNV
12:55 - 13:05	<b>Q &amp; A</b> Mathieu Geze, Director Asia, HDF Energy
14:00 - 14:20	<b>Innovative solutions for ultra-low carbon intensity hydrogen generation - TOPSOE</b>
14:20 - 14:40	<b>Utilisation of green hydrogen</b> Rohit Rana, Senior Analyst, Global Advisory, Black & Veatch
14:40 - 15:00	<b>Future fuels supply chain port infrastructure demand in decarbonisation by Phil Baker, Principal and Senior Executive Advisor, GHD</b>
15:00 - 15:20	<b>Hydrogen applications for distributed power</b> Klaus Payrhuber, Strategic Product Development Manager, INNIO Jenbacher GmbH & Co. OG
15:20 - 15:40	<b>Mobile pipeline transportation of high pressure hydrogen in MEGC containers and tube trailers</b> Shaun Hogan, President, Hansho Composites, LLC

TIMING	PRESENTATION TITLE & SPEAKERS
15:40 - 15:55	<b>Q &amp; A</b>
15:55 - 16:15	<b>Reserve</b>
16:15 - 16:35	<b>Evaluating policy to support scaling of green hydrogen in Thailand</b> Thomas Koller, Regional Hydrogen and CCUS Segment Lead, DNV
16:35 - 16:55	<b>The most economical solution for green hydrogen production and storage</b> Jihyun Hwang, Professor, KENTECH
16:55 - 17:15	<b>Green &amp; low carbon hydrogen production initiative and its future projection</b> Debashis Thakur, Senior Manager (Technical Service), Numaligarh Refinery Limited
17:15 - 17:35	<b>Reserve</b>
17:35 - 17:50	<b>Q &amp; A</b>
17:50 - 18:00	<b>Closing Remarks and End of Day 1</b>





**Renewable Energy**

**Theatre Two**

TIMING	PRESENTATION TITLE & SPEAKERS
11:30 - 11:35	<b>Opening Remarks</b> Philip Napier-Moore, Energy Sector Leader, ASEAN and East Asia Mott MacDonald, Thailand
11:35 - 11:55	<b>Solar PV market outlook for 2024-2028 in Asia Pacific (APAC)</b> Wan Afiq Naquiuddin Bin Wan Mohd Syukri, Senior Energy Analyst Speaker, Energy Industries Council (EIC), Malaysia
11:55 - 12:15	<b>Replacing diesel heavy operations</b> Paul Sernia, CEO, Endua, Australia
12:15 - 12:35	<b>RE and storage: power pairing supercharges today and tomorrow by</b> Patricia Tirados, Market Leader, GHD
12:35 - 12:55	<b>Implementing a shipbuilding approach and modular design to floating offshore wind platforms</b> Jon Salazar, CEO & Founder, Gazelle Wind Power Limited, Ireland
12:55 - 13:05	<b>Q &amp; A</b> Philip Napier-Moore, Energy Sector Leader, ASEAN and East Asia, Mott MacDonald, Thailand
2:50	<b>Q&amp;A</b>
14:00 - 14:4	<b>Reserved</b>
14:40 - 15:00	<b>Coal to syn natural gas</b> Geetali Kalita, Head-ESG, NRL, India
15:00 - 15:20	<b>Reserved</b>
15:20 - 15:40	<b>Bamboo is the next disruptive technology for global warming</b> Arshi Ayub Mohamed Zaveri, CEO, Oxygenate, United Arab Emirates
15:40 - 15:55	<b>Q &amp; A</b>
15:55 - 16:15	<b>Green design strategies for small-scale lithium plants: minimizing environmental impact from inception</b> Balaji Vijayakumar, Lead Design Engineer -Piping, Fluor Daniel India Pvt. Ltd, India

TIMING	PRESENTATION TITLE & SPEAKERS
16:15 - 16:35	<b>Reserved</b>
16:35 - 16:55	<b>Integrating Biomethane into existing refinery</b> Nur Jannah Abdul Wahid, Staff (Process Design), Petroliam Nasional Berhad (PETRONAS), Malaysia Marina Mosir, Staff (Fractionation), Petroliam Nasional Berhad (PETRONAS), Malaysia
16:55 - 17:15	<b>Effect of Hydraulic Retention Time (HRT) and sludge recycling on the ZPHB™ anaerobic reactor performance and biogas production from palm oil mill effluent (POME)</b> Sunil K M, Director, KIS GROUP, India
17:15 - 17:35	<b>Municipal waste to energy by mobile waste incinerator power plant</b> thanyaboon thanyachotpaiboon, Scientist, Electricity Generating Authority of Thailand, Thailand pornthep Krittayakasem, scientist, Electricity Generating Authority of Thailand, Thailand
17:35 - 17:50	<b>Q &amp; A</b>
17:50 - 18:00	<b>Closing Remarks and End of Day 1</b>



**GAS AND LNG, CCS TECHNOLOGIES**

Theatre One

TIMING	PRESENTATION TITLE & SPEAKERS
10:00 - 10:05	<b>Opening Remarks</b>
10:05 - 10:25	<b>Cold energy recovery in LNG plants with highly efficient patented ORC cycle</b> Chee Aun Kok, Regional Sales manager APAC, Exergy International Malaysia
10:25 - 10:45	<b>CCUS supply chain design to achieve carbon neutral natural gas via methanation</b> Chee Yit (Ron) Chew, CCS Business Developer, Altera Infrastructure, Singapore
10:45 - 11:05	<b>Enhancing electricity generation efficiency by converting diesel to lng power plants: a case study of herapp in Timor-Leste</b> M Fatah Yasin, Business Analyst, PT Perusahaan Gas Negara Tbk, Indonesia Bey Ignatius Purba, Analyst, PT Perusahaan Gas Negara Tbk, Indonesia
11:05 - 11:25	<b>Carbon capture in gas &amp; LNG: challenges, innovations, and the path to a sustainable future</b> Siti Aishah Mohd Hatta, Senior Storage Lead, Global CCS Institute, Malaysia
11:25 - 11:45	<b>Preparing future ready organisations through operational excellence</b> D V Shastry, Executive Director, Natural Gas Society, India
11:45 - 11:55	<b>Q &amp; A</b>
11:55 - 12:15	<b>How to structure the CCS business to optimise value</b> Prabhat Agrawal, Senior Advisor Mid/Downstream, Gaffney Cline, Singapore
12:15 - 12:35	<b>Sustainable policies in operation and maintenance in energy sector</b> Trinath Sahoo, Chief General Manager, Indian Oil Corporation Ltd, India
12:35 - 12:55	<b>Optimising polyethylene reactor operation, efficiency &amp; process control using digital twin for polymer property measurement</b> Nishchay Kathuria, Manager Instrumentation, Gail India Limited, India
12:55 - 13:15	<b>EOR of sour oil field through CO2 miscible gas injection: de-bottlenecking challenges for surface facilities</b> Mustafa Al Lawati, Snr Concept Engineer, PDO, Oman
13:15 - 13:25	<b>Q &amp; A</b>
14:25 - 14:45	<b>Revolutionising well test: digital tools for enhanced equipment guidelines, selection and surveillance tool</b> Sulaiman Sidek, Production Technologist, PETRONAS Carigali Sdn. Bhd., Malaysia

TIMING	PRESENTATION TITLE & SPEAKERS
14:45 - 15:05	<b>Noval approach to drill extended reach drilling (ERD) wells across challenging reservoirs</b> Muhammad Asef Hashmi, Senior Drilling Engineer, Adnoc Onshore, United Arab Emirates
15:05 - 15:25	<b>Minimize environmental footprint in Yasuni National Park by using an integrated plug &amp; play horizontal pumping system with skid package</b> Alejandro Sotomayor, Customer Engagement Coordinator, Schlumberger, Ecuador
15:25 - 15:45	<b>Switching from reactive to proactive asset management strategy using value based predictive analytics</b> Saad Mahmood, Consultant, Copperleaf Technologies, Australia
15:45 - 16:00	<b>Q &amp; A</b>



**Grid and Power Transmission Technologies**

Theatre One

TIMING	PRESENTATION TITLE & SPEAKERS
16:00 - 16:20	<b>Incorporating renewable energy, energy efficiency, emerging trends and new technologies in long term electricity consumption forecasts</b> Noor Suryanni Ab Rani, Manager, Tenaga Nasional Berhad, Malaysia
16:20 - 16:40	<b>99% Carbon free power generation using solid fuels with Allam-Fetvedt Cycle (AFC)</b> Nick Borisow, VP Business Development, 8 Rivers Capital LLC, United States
16:40 - 17:00	<b>Findings from feasibility study for nearshore floating solar for oil &amp; gas facility</b> Kamaluddin Zakaria, Workstream Lead (Renewable Energy), PETRONAS (Project Delivery & Technology), Malaysia
17:00 - 17:20	<b>Examining renewable energy service company opportunities in Indonesia</b> Mohammad Raihani Rahman, Business Development Manager, PT Petro Raya Resources, Indonesia
17:20 - 17:40	<b>SandClear: the first automated sand erosion management system (A-SEMS)</b> Napatthamon Vongnavapreechakul, Corrosion Engineer, PTTEP Energy Development Co Ltd, Thailand
17:40 - 17:50	<b>Q &amp; A</b>
17:50 - 18:00	<b>Closing Remarks and End of Day 2</b>



**Boosting Energy Efficiencies Through Digital Technologies**

Theatre Two

TIMING	PRESENTATION TITLE & SPEAKERS
10:00 - 10:05	Opening Remarks
10:05 - 10:25	<b>Energy optimization in industrial and production assets based on digital distributed control management systems</b> Daniele Porciani, Digital & Outcome Based Services Technical Sales Manager, Baker Hughes Company, Italy
10:25 - 10:45	<b>How are digital twins helping to drive energy efficiency and de-risk decarbonisation decisions within the built environment?</b> Rohan Rawte, Director - Asia & Middle East, IES, Singapore
10:45 - 11:05	<b>Energy markets modelling and simulation for net zero pathways and green fuels alternatives by Andrej Trpovski, Energy Exemplar</b>
11:05 - 11:25	<b>Long duration energy storage: a key to help unlock global decarbonisation</b> Atasit Sirimongkol, Engineering Manager, Black & Veatch, Thailand
11:25 - 11:45	<b>Monitoring and mitigating methane emissions in the oil and gas industry to fight climate crisis</b> Chee Kong Chung, Managing Director / Founder, Smart Tradzt, Singapore
11:45 - 12:00	Q & A
12:00 - 12:20	<b>Leveraging process simulation in digital twins for boil-off gas management optimisation in LNG receiving terminals</b> Farah Syamim Anwar, Staff Engineer (Process Simulation & Optimisation), Petronas Group Technical Solution, Malaysia
12:20 - 12:40	<b>Cybersecurity considerations for offshore and maritime assets</b> Jerome FLOURY, Global Service Line Leader - Smart Assets and Digital Services, Speaker, Bureau Veritas Marine & Offshore, Singapore
12:40 - 13:00	<b>Enhancing PV system performance and safety with multichannel IV-curve tracing</b> Guillermo Eichentopf, General Manager, M2 (Thailand) Co., Ltd., Thailand
13:00 - 13:20	<b>Technologies and innovation accelerate digital transformation for operational excellence</b> Jonas Berge, Senior Director, Applied Technology, Emerson, Singapore
13:20 - 13:30	Q & A
13:25 - 14:30	Networking Break
14:30 - 14:50	<b>Capability development gearing towards energy transition</b> Sunantha Kitisarasak, Manager, Learning and Development, PTT Exploration and Production Public Company Limited, Thailand

TIMING	PRESENTATION TITLE & SPEAKERS
14:50 - 15:10	<b>Energy efficiency and electrification unlocking low-carbon product opportunities</b> Jason Tan Kah Shin, Manager Energy Efficiency, Petronas Carigali Sdn Bhd, Malaysia Salhizan Mohamad Salleh, Head Maintenance, Petronas Carigali Sdn Bhd, Malaysia
15:10 - 15:30	<b>Bulk competitive procurement mechanism to overcome techno-economic barriers of energy efficiency</b> Athita Vivatpinyo, Manager, Advanced Energy Systems, USAID Southeast Asia Smart Power Program, Thailand
15:30 - 15:50	<b>Adapting operating culture as a lever to successful new energy transformation</b> Mark Elia, Global Director - Power & Utilities, DSS Sustainable Solutions (Thailand) Co., Ltd., Thailand
15:50 - 16:00	Q & A



**Energy Policy, Economics And Funding Strategy**

Theatre Two

TIMING	PRESENTATION TITLE & SPEAKERS
16:00 - 16:20	<b>Reframing the project management approach in carbon-sensitive energy investment decisions</b> Prasannakumar K Purayil, Lead Portfolio Planning Engineer, Basrah Gas Company, India
16:20 - 16:40	<b>Innovative finance, ESG reporting and the need for international networks related to the scaling of sustainable biofuel supply chains</b> Patrick Crehan, Director, CKA, Belgium
16:40 - 17:00	<b>Getting ready for altered risk profile gained through new energy diversifications</b> Ekkasit Sombatnimitsakul, Oil & Gas and New Energy Leader - ASEAN Speaker, DSS Sustainable Solutions (Thailand) Co., Ltd., Thailand
17:00 - 17:20	<b>BioCircuit: 100% BCG wastewater treatment</b> Asst. Sukkasem, CEO/Founder, Inno Green Tech Co., Ltd., Thailand
17:20 - 17:40	Reserved Session
17:40 - 17:50	Q & A
17:50 - 18:00	Closing Remarks and End of Day 2





**Grid and Power Transmission Technologies**

Theatre One

TIMING	PRESENTATION TITLE & SPEAKERS
10:00 - 10:05	<b>Opening Remarks</b> MK Balaji, Director - Advanced Energy Systems, USAID South East Asia Smart Power Program, Thailand
10:05 - 10:25	<b>A just transition: evaluating ESG impacts of early decommissioning of coal plants and the opportunities for site and facility repurposing</b> Anuradha Fad, Analyst, Global Advisory, Black & Veatch, India
10:25 - 10:45	<b>Electricity as a trade commodity by Sachin Narang, Senior Advisor, GHD</b>
10:45 - 11:05	<b>Sizing of distributed energy resources in islanded microgrids</b> Noushin Poursafar, Battery Storage Engineer, GHD, Australia
11:45 - 12:00	<b>Q &amp; A</b> MK Balaji, Director - Advanced Energy Systems, USAID South East Asia Smart Power Program, Thailand
12:00 - 12:20	<b>Democratizing gas turbine technology to decarbonize heavy duty transportation and power generation on land, air and sea.</b> Rohit Grover, CEO, Founder, Aerostrovilos Energy Pvt. Ltd., India
12:20 - 12:40	<b>Modelling and optimisation of an advanced hydro/solar hybrid conversion scheme</b> Martin Lacey, Director, WESTGLEN CONSULT LTD. United Kingdom
12:40 - 13:00	<b>Modernizing Lao PDR power sector: unlocking solar grid integration</b> Maythiwan Kiatgrajai, Manager, Utility Modernization, USAID Southeast Asia Smart Power Program, Thailand
13:00 - 13:20	<b>Performance validation of radio frequency smart meters firmware</b> Eric Pradana Putra Bin Amin, Team Member Technical Operations, Tenaga Nasional Berhad, Malaysia
13:20 - 13:35	<b>Q &amp; A</b> MK Balaji, Director - Advanced Energy Systems, USAID South East Asia Smart Power Program, Thailand

TIMING	PRESENTATION TITLE & SPEAKERS
14:30 - 14:50	<b>Forging a greener future in Malaysia with smart meters</b> Jun Yasmin Suraya Binti Jamil Khir, Executive (Deployment Planning), Speaker Tenaga Nasional Berhad, Malaysia
14:50 - 15:10	<b>Automated optimal design of transmission and distribution network expansion</b> Stefano Grassi, CEO, Gilytics AG, Switzerland
15:10 - 15:30	<b>Enhancing power transmission with natural ester-filled transformers in the era of energy transition</b> Kin Yu Lam, Technical Service Representative, Cargill Asia Pacific Holdings Pte Ltd, Singapore
15:30 - 15:50	<b>Sustainable microgrid providing electricity and productivity for rural char, Gaibandha, Bangladesh</b> Darren Chua, GM, Summit Power International, Singapore
15:50 - 16:05	<b>Q &amp; A</b>
16:05 - 16:25	<b>Beyond TNB AMI for digital transformation and innovation to accelerate the national energy transition roadmap of Malaysia</b> Teik Ken Lim, Head (Technical), Tenaga Nasional Berhad, Malaysia
16:45 - 17:05	<b>Improving energy efficiency through enterprise level orchestration</b> Norasikin Taib, Manager (Enterprise Decarbonization), PETRONAS, Malaysia Anida Hamzah, Manager (Enterprise Decarbonization), Petronas Malaysia Shahril Azlan Zainon Aznan, Senior Manager (Enterprise Decarbonization), Speaker Petronas, Malaysia
17:05 - 17:15	<b>Q &amp; A</b>
17:15 - 17:25	<b>Summary and Closing Remarks</b>

 **Energy Policy, Economics and Funding Strategy** Theatre Two

TIMING	PRESENTATION TITLE & SPEAKERS
10:00 - 10:05	Opening Remarks
10:05 - 10:25	<b>The landscape of green finance in India</b> Trinath Sahoo, Chief General Manager, Indian Oil Corporation Ltd, India
10:25 - 10:45	<b>How much energy efficiency cost: a case study in Thailand</b> Athita Vivatpinyo, Manager, Advanced Energy Systems, USAID Southeast Asia Smart Power Program, Thailand
10:45 - 11:05	<b>Strategic project positioning: a key to derisking the energy transition</b> Sarah FitzGerald, Future Energy Global Program Lead, GHD, Australia
11:05 - 11:25	<b>Thai-Swiss collaboration under Article 6 of the Paris Agreement: a new financial mechanism to support climate action.</b> Kian Min Low, Chief Renewables Officer, Gentari, Afghanistan
11:25 - 11:45	<b>Reducing carbon footprint in the built environment through the use of air-based BIPV/Ts and PV/Ts in comparison with current use of combi-boilers</b> Bitak Akhgar, Researcher Energy Consultant, Ozyegin University, Turkey
11:45 - 12:00	Q & A
12:20 - 12:40	<b>Carbon Tax at Production (CTAP) global framework as a key lever to tackle climate change</b> ARTIT KRICHPHIPHAT, CEO, A Advisory co, Ltd., Thailand
12:40 - 13:00	<b>Unraveling the dynamics of global gas markets in 2023: a departure from established trends in Henry hub and TTF gas prices</b> Jamal Aliyev, CFA, Senior Manager, CCI APAC HOLDINGS, Singapore
13:00 - 13:20	<b>ASEAN energy policies: the effect of electricity generation on CO2 emissions</b> Kwanruetai Boonyasana, Lecturer and Researcher, Rajamangala University of Technology Phra Nakhon (RMUTP), Thailand
13:20 - 13:30	Q & A
13:30 - 14:30	Lunch Break & Networking

 **Boosting Energy Efficiency through Digital Technologies** Theatre Two

TIMING	PRESENTATION TITLE & SPEAKERS
14:30 - 14:50	<b>Nature-based technology to reduce energy consumption of buildings</b> Brice Degeyter, GM and founder, Bizsu, Singapore
14:50 - 15:10	<b>Integrated operations center: Innovative digital technology for high-performance and competitive business</b> Pannawat Nilkitsaranont, Facilities Designs and Solutions Manager, Chevron Thailand E&P, Thailand
15:10 - 15:30	<b>Exploring the use of drones for efficient offshore methane missions quantification in Thailand</b> Dave Turner, Region Director Asia Pacific, SeekOps Inc, Malaysia
15:30 - 15:50	<b>Reshaping virtual power plants with cutting-edge AI optimization</b> Marina Neretina, Business Development, EIPGRID Inc., South Korea
15:50 - 16:00	Q & A
16:00 - 16:20	<b>Optimizing self-generated renewable energy use with cloud cameras and AI to reduce costs</b> Alexandra Merkel, CTO, WiriTec GmbH, Germany Adrian Merkel, Managing Director, WiriTec GmbH, Germany
16:20 - 16:40	<b>Rubber seed to green diesel feedstock: an example of rubber industry circular economy</b> Kresnadeva Ihza Saputra, Process Technology Engineer, Tripatra engineering, Indonesia
16:40 - 17:00	<b>Navigating cyber storms: a comprehensive analysis of digital resilience in Nigeria's electricity sector</b> Pius Achuama, PhD Researcher, Coventry University, United Kingdom
17:00 - 17:10	Q & A
17:10 - 17:20	Summary and Closing Remarks
	End of Future Energy Asia Technical Conference



## Adaptive Regulation In Energy Transition

The Energy Regulators Forum, organised by the Energy Regulators Regional Association (ERRA) and hosted and supported by the Energy Regulatory Commission of Thailand, will convene national regulators with global investors, utilities, consultants, traders and academics to engage in strategic dialogue on policy and regulatory developments and map a way forward for the energy transition.

### Energy Regulators Forum Sessions include:

**Safeguarding Energy Transition Goals**

**Impact Of Clean Energy Sources On The Grids And System Stability**

**Mobilising Green Finance**

**Facilitating Innovative Technologies For Energy Transition**

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Introduction

- The European Commission's 2020-2025 Energy Strategy
- EU - China - Global Energy Council
- EU - China - Global Energy Council
- EU - China - Global Energy Council

EU Energy Strategy  
 2020-2025  
 EU Energy Strategy  
 2020-2025  
 EU Energy Strategy  
 2020-2025



# ENERGY REGULATORS FORUM

## Programme: Wednesday 15 May 2024

**13:00 - 13:20**

**Opening Remarks**

Dr Maia Melikidze, ERRA Chair  
 Chairman Samerjan Suksumek, Energy Regulatory Commission of Thailand

**13:20 - 13:40**

**Keynote Address**

Minister of Economy, Thailand (TBD)

**SESSION I: SAFEGUARDING ENERGY TRANSITION GOALS**

Session I will outline the intricate clean energy transformation challenges that stand in front of the energy sector and will put the key actors that shape the response to them - policymakers and regulators - in the spotlight. As energy transition is an ongoing global mission with complex regional and local risks and opportunities that have to be addressed with tailored legal frameworks, the session will identify high-level observations on where, when and how to employ them to the benefit of the energy system and the ultimate welfare of the end-consumers.

**13:40 - 14:30**

**Decarbonization in Energy Regulatory Decision Making**

**Speaker:** Mr. Alejandro Hernandez, Principal and India and Global Opportunities Program Director, Regulatory Assistance Project (RAP)

Governments from all over the world have pledged decarbonisation objectives under the COP - UNFCCC framework. RAP - RETA's report "Elevating decarbonisation in regulatory decision making" presents examples of regulators from all over the world contributing to the achievement of those objectives, and makes recommendations on how to potentiate regulators' role in the decarbonisation of their economies.

**Regulatory Experiences with Decarbonization in Energy Regulatory Decision Making**

**Speaker:** Ms. Anna Collyer, Chair, Australian Energy Market Commission (AEMC) (invited)

The presentation goes into details on the regulatory instruments and processes elaborated by the Australian Energy Market Commission to implement decarbonization in Australia.

**Q&A with the Audience**

ENERGY KEYNOTE

**14:30 - 15:20**

**Safeguarding Energy Transition Goals in the ASEAN Region**

This session will explore strategies to ensure the ASEAN region meets its energy transition objectives amidst growing demands and climate change challenges. Panelists which are representatives of the main decision makers in their respective energy sectors, will present collaborative strategies, policy frameworks, and technological innovations essential for achieving sustainable energy systems.

Speakers share their countries energy transition goals, and highlight case studies, share best practices, and propose practical insights for regional cooperation in the ASEAN region's energy sector.

**Moderator:** Dr. Phuanart Choonhapran, Assistant Secretary General, Energy Regulatory Commission, Thailand (ERC)

**Panel:**

- Mr. Mohammed Rashdan bin Mohd Yusof, Chairman Energy Commission Malaysia (invited)
- Mr. Richard Lim Cherg Li, Chairman, Energy Market Authority, Singapore (invited)
- Mr. Daw Mi Mi Khaing, Director General, Ministry of Electricity and Energy, Myanmar (invited)
- Mr. Ir Wanhar, Director, Ministry of Energy and Mineral Resources, Indonesia (invited)

**Q&A with the Audience**

**15:20-15:40**

Afternoon Break & Networking

**15:40 - 16:20**

**Engaging National Energy Companies on Their Decarbonization Pathways**

**Speaker:** Mr. Julien Perez, Vice President, Strategy & Policy, Oil and Gas Climate Initiative

As the world is moving towards a net-zero emissions future, oil & gas companies have to reduce greenhouse gas emissions across their operations and engage with customers, policy makers, partners, and other energy-intensive industries to reduce greenhouse gas emissions and help accelerate the transition to a net-zero society engage with customers. National energy companies have a particular role in the sense that their activity contribute to stabilize their local economy. This talk will try to address some ways of engaging national energy companies in a transition to a low carbon future is key to reach the Paris Agreement goals

**16:20**

**End of Day One**

ASEAN REGULATORS' PANEL DISCUSSION

ENERGY KEYNOTE



# ENERGY REGULATORS FORUM

## Programme: Thursday 16 May 2024

### SESSION II: IMPACT OF CLEAN ENERGY SOURCES ON THE GRIDS AND SYSTEM STABILITY

Preserving system stability with increased penetration of renewable energy sources is a growing challenge in most jurisdictions. Session II will analyse methods for monitoring the system and measuring the impact of variable RES, and offer conclusions on possible regulatory methods and tools to promote and facilitate grid resilience. A separate focus will be given to grid code requirements and the importance of cross-border interconnection and regional regulatory harmonisation.

**09:30 - 09:35**  
**WELCOME**

**09:35 - 10:20**

The focus of the session is on maintaining and enhancing grid stability as the world transitions to renewable energy sources. The speakers shall examine the technical challenges of integrating a high percentage of variable renewable energy, the role of energy storage, and the importance of cross-border energy cooperation. The session may include presentations on assessing, monitoring, and ensuring grid stability.

**Speaker:** Peerepat Vithayasrichareon, Principal Consultant, DNV

**Q&A with the Audience**

**10:20 - 10:40**

**Institutional Architecture for Regional Power System Integration: Government, Utility and Regulators Role**

**Speaker:** Ms. Rena Kuwahata, Energy Analyst & Modeller, International Energy Agency (IEA) (invited)

The presentation examines stakeholder roles at different stages of cross-border integration to enable multilateral power trade. The main focus is on the roles of energy regulators after briefly discussing of those of governments and utilities.

**Q&A with the Audience**

**10:40 - 11:00**

**Morning Break & Networking**

GRIDS CASE STUDY PRESENTATIONS

**11:00 - 11:50**

**System stability in an island grid system - Hawaii**

**Speaker:** Lorraine H. Akiba, former Commissioner, Public Utilities Commission of State of Hawaii

The case study presentation will depict system stability issues from an island grid system perspective and the challenges faced by lacking an energy imbalance market and still keeping grid stable and operational.

**The way forward for reliable operation of the power system with high variable renewables penetration in the Indian grid**

**Speaker:** Rajiv Kumar Porwal, Director of System Operation, Grid India

The speaker will highlight how the National Grid Company of India meets the challenge of growing electricity demand coupled with boasting non-fossil generation capacity ensuring the reliability of the power grid and ensuring the availability of adequate resources.

**Q&A with the Audience**

REGULATORY PANEL DISCUSSION

**11:50 - 12:45**

**Grid stability and market operations - The role of the regulator**

This session aims to analyze the role that regulatory frameworks play in ensuring grid stability. Panelists will consider how regulations need to adapt to support the integration of renewable energies, demand response mechanisms, and new technologies. Speakers will provide insights into successful regulatory strategies, the balance between innovation and consumer protection, and the future of energy regulation, in different contexts, and countries.

**Panel:**

- Lorraine H. Akiba, former Commissioner, Public Utilities Commission of State of Hawaii
- Kocou Laurent Tossou, Chairman, ECOWAS Regional Electricity Regulatory Authority, Ghana
- Representative of Authority for Public Services Regulation, Oman

**Q&A with the Audience**

**12:45 - 14:00**

**Lunch Break & Networking**

GRIDS AND SYSTEM STABILITY KEYNOTE

REGIONAL POWER SYSTEM INTEGRATION KEYNOTE





# Energy Regulators Forum

## Programme: Thursday 16 May 2024

### SESSION III: MOBILISING GREEN FINANCE

Session III involve key stakeholders of the energy and finance sectors responsible for and experienced in scaling up green finance. Speakers will present the process of facilitating successful projects on national and on regional levels.

The discussions will attempt to showcase new business models and innovative financing mechanisms corresponding with the fact that private investment is a critical element of the energy transition.

**14:00 - 14:45**

#### Green Transmission: Context and Rationale

**Speaker:** Balaji M K, Specialist Leader, Deloitte Consulting LLP

This stage-setting presentation will offer a holistic overview how finance can accelerate and facilitate decarbonization and the innovation necessary to just energy transition.

#### Lessons Learnt from Regulatory Support of Renewables

**Speaker:** Ms. Ana Stanic, E&A Law

#### Q&A with the Audience

**14:45 - 15:20**

Green Financing by Commercial and Donor Banks

#### Speakers:

- Shinya Nishimura, Senior Energy Specialist, the World Bank Group
- Panittra Vejajiva, Head of Financial Institutions and ESG Solutions, United Overseas Bank

The session will highlight successful examples for green financing projects in emerging countries.

#### Q&A with the Audience

**15:20 - 15:40**

Afternoon Break & Networking

**15:40 - 16:30**

#### Key Success Factors of Green Financing

This panel will consider the elements that contribute to the success of green financing initiatives. Discussion points will include the evaluation of risk, the mobilization of capital, and the creation of financial products that support sustainable energy projects. Panelists are expected to share examples of successful green financing models, the role of public and private sectors, the role of donors, and strategies to overcome financial barriers to green investments.

The session will include insights from donor banks, commercial banks, project developers, and regulators which operate in various conditions. The panelists are expected to provide key insights based on their experience and lessons learned.

#### Moderator:

Andrijana Nelkova-Chuchuk, Commissioner, ERC North Macedonia; ERRA Presidium Member

#### Speakers:

- David Morton, Chairman, ICER, Former Chair & CEO, British Columbia Utilities Commission, Canada
- Panittra Vejajiva, Head of Financial Institutions and ESG Solutions, United Overseas Bank
- Representative of Asian Development Bank
- Representative of Thailand K Bank

#### Q&A with the Audience

**16:30**

End of Day Two

**18:30 - 21:00**

GALA DINNER HOSTED BY ERC THAILAND (ON INVITATION BASIS)

Venue: Marriott Bangkok Surawongse

GREEN FINANCING KEYNOTE

GREEN FINANCING CASE STUDY PRESENTATIONS

GREEN FINANCING PANEL DISCUSSION

ENERGY KEYNOTE



# Energy Regulators Forum

## Programme: Friday 17 May 2024

### SESSION IV: FACILITATING INNOVATIVE TECHNOLOGIES FOR ENERGY TRANSITION

The final Session will have a two-fold character. On the one hand, the program will elaborate what are the instruments that regulators can employ to facilitate or accelerate the utilization of new technologies and innovation in the sector to support decarbonization. The presentations will highlight both regulatory experimentation via sandboxing as well as innovative mechanisms within the standard regulatory toolbox. On the other hand, the session will offer a range of case study examples where innovation is being put in practice - presentations will show how companies that spearhead energy transition implement pilots and how do they cooperate with regulators while doing so.

**09:30 - 09:35**  
**WELCOME**

**09:35 - 10:40**  
**Lessons from Great Britain on regulating for the energy transition**

**Speaker:** William Derbyshire, ECA

The presentation will describe the key mechanisms introduced in the most recent electricity price reviews in Great Britain to manage the uncertainties around the energy transition and discuss their application in the ASEAN context, given the differences in resource endowments and regulatory arrangements.

**Regulatory Approach for Evaluating Battery Energy Storage Systems (BESS) - India**  
**Speaker:** Anish Mandal, Partner, Deloitte Touche Tohmatsu, India

The speaker will take stock of the regulatory changes needed to enable battery energy storage systems to meet their role efficiently and effectively.

**Energy Transition and Green Technologies - Experiences of SOCAR Türkiye**  
**Speaker:** Elshan Asadov,

**Q&A with the Audience**

**10:40 - 11:00**  
**Morning Break & Networking**

INNOVATION CASE STUDIES

REGULATORY PANEL DISCUSSION

**11:00 - 12:00**  
**Regulatory Sandboxing**

The speed of innovation poses multiple challenges on regulators keeping pace with technology and most importantly understanding its implications on markets. The debate will address how regulators can create and maintain a level playing field for innovators and what is the degree of experimenting for regulatory framework to be less stringent in certain circumstances. Speakers will discuss the need for flexible regulatory frameworks that can adapt to technological advancements, support pilot projects, and encourage collaboration between startups, incumbents, and regulators.

**Moderator:** Alda Ozola, Chair, Public Utilities Commission, Latvia; ERRA Presidium Member

- Panel:**
- Monalisa C. Dimalanta, Chairperson & CEO, Energy Regulatory Commission, Philippines
  - Dr. Dante Recalde, VP Solutions APAC, Energy Exemplar
  - Commissioner Buntoon, Energy Regulatory Commission, Thailand (invited)

**Q&A with the Audience**

**12:00 - 12:15**  
**CONCLUDING REMARKS**

**12:15**  
**End of Energy Regulators Forum 2024**



FUTURE ENERGY ASIA

### The Pivotal Role of Carbon Capture, Utilisation and Storage in Asia's Decarbonisation Pathways

**Jonas Berge**

Senior Director, Applied Technology  
Emerson Automation Solutions

**Adelina Awaluddin**

Senior General Manager  
ExxonMobil Malaysia  
Low Carbon Solutions

**Hiroki Sato**

Senior Managing Executive Officer  
Chubu Electric Power Co Inc.

**Nopasit Chaiwanakupt**

Senior Vice President, Carbon  
and Energy Solutions Division  
PTT Exploration and Production Public  
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<b>\$850</b>	<ul style="list-style-type: none"><li>• Energy Regulators Forum</li></ul>

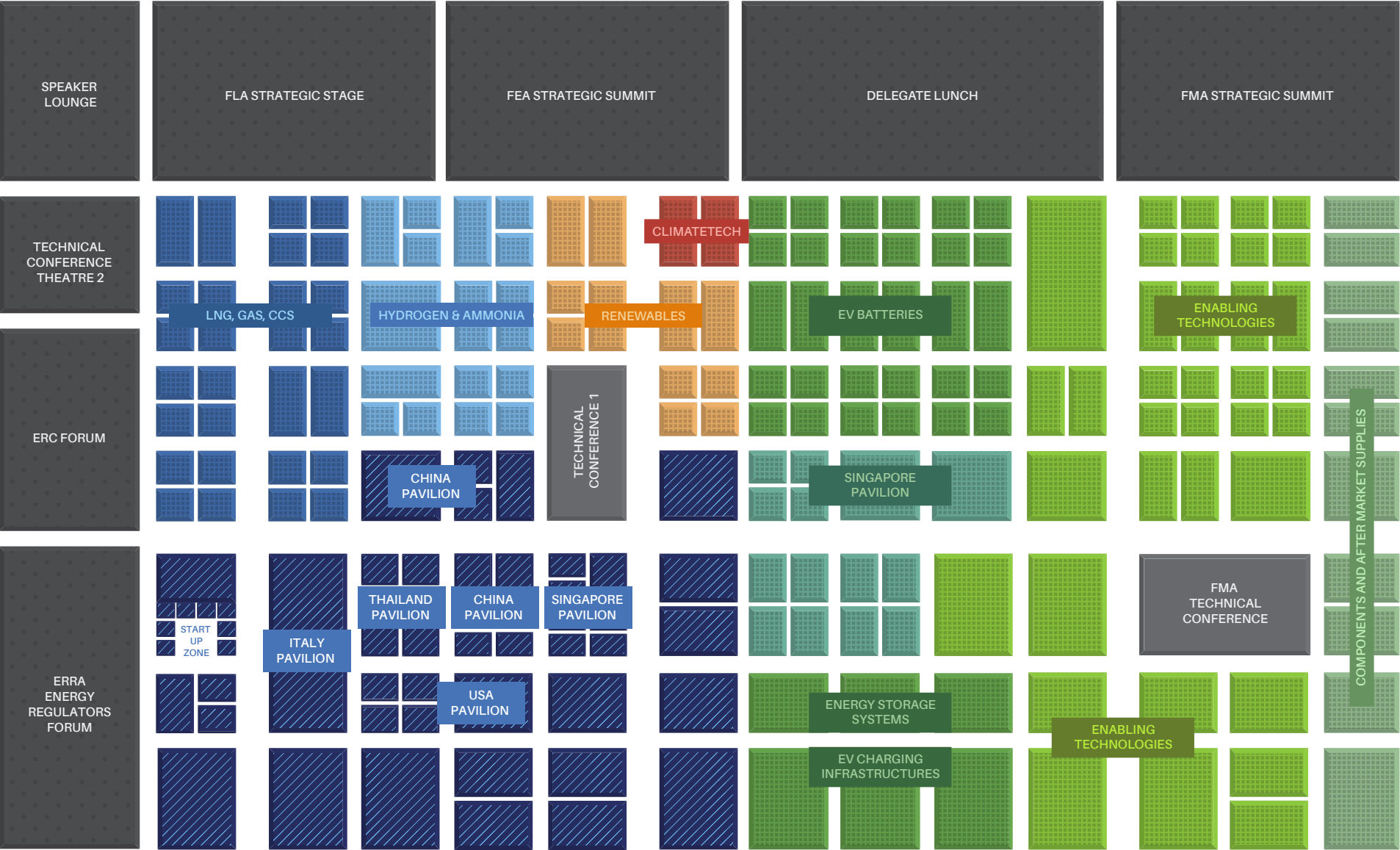
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# Exhibition & Conferences Map



### **Explore the exhibition space**

More than 300 exhibitors showcasing the best, most innovative solutions from across the energy, natural gas, LNG and mobility ecosystems.

Future Energy Asia facilitates the networking opportunities needed and the investment required to transform the energy landscape together.

### **Book a stand in the Future Energy Asia Exhibition:**

Selecting a prime stand location is an important decision, and our team can assist and guide you through the opportunities.

Contact the exhibition team to find out more about participating [sales@futureenergyasia.com](mailto:sales@futureenergyasia.com)

### **Queen Sirikit National Convention Center**

An iconic landmark at the heart of downtown Bangkok, the Queen Sirikit National Convention Center (QSNCC) is a versatile venue suited to all kinds of events. This state-of-the-art facility is designed to offer flexible solutions both today and in the future.

### **Opening Times:**

15 May 2024: 10am to 6pm

16 May 2024: 10am to 6pm

17 May 2024: 10am to 5pm







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