

ENERGEX 2026

ASIA ENERGY STORAGE, HYDROGEN & FUTURE GRID SUMMIT 2026

THE ENERGY TRIFECTA: UNLOCKING ASIA ENERGY STORAGE, HYDROGEN & FUTURE GRID INTELLIGENCE



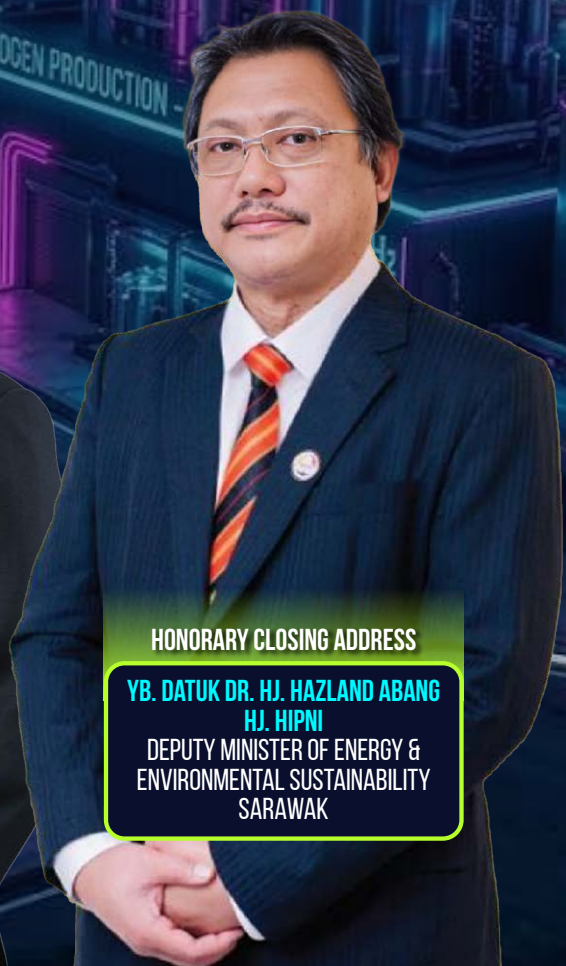
HONORARY OFFICIATING KEYNOTE

**YB DATO' SRI HJ. ABDUL RAHMAN
HJ. MOHAMAD**
DEPUTY MINISTER OF ENERGY
TRANSITION & WATER
TRANSFORMATION



HONORARY SPECIAL ADDRESS

**YB DATO' SRI MOHD SHAHAR
ABDULLAH**
DEPUTY MINISTER OF ECONOMY
MALAYSIA



HONORARY CLOSING ADDRESS

**YB. DATUK DR. HJ. HAZLAND ABANG
HJ. HIPNI**
DEPUTY MINISTER OF ENERGY &
ENVIRONMENTAL SUSTAINABILITY
SARAWAK

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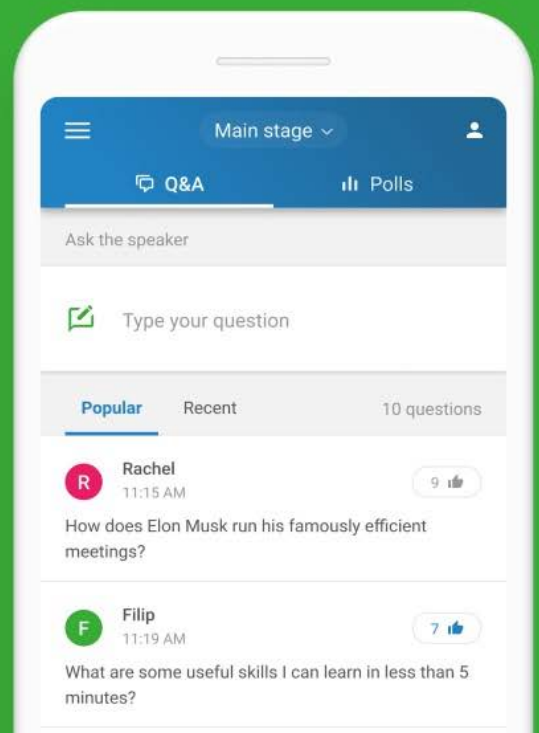


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RELIABLE GRID-FORMING EXPERT

10GW+

Grid-Forming PCS shipped to date

500+

Systems deployed

By 2025, solar PV and wind penetration in the world's top 15 countries is expected to reach between 30% and 70%. By 2030, that range will rise to 50%-85%.

This rapid growth poses unprecedented challenges to grid stability worldwide.

As renewable penetration grows, weak grids and low short-circuit ratio (SCR) become the new normal. Grid-Forming technology is emerging as the industry's next standard, enabling renewable-rich grids to operate actively, rather than passively following.

Kehua has been at the forefront of this transformation, delivering proven Grid-Forming solutions across the globe.

Production

6

Manufacturing bases

416,000m²

Grid-Forming PCS shipped to date

68GW+

Annual production capacity

digitalenergy.kehua.com

DAY 1: MORE RENEWABLE ENERGY. MORE INSTABILITY. WHY?

FROM CURTAILMENT TO CAPACITY — The Storage, Hydrogen and Safety Imperative for Malaysia's Energy Transition

08:30	REGISTRATION & WELCOMING COFFEE Delegate registration, badge collection and morning networking
09:00	WELCOME ADDRESS Conference Chair opening remarks
09:15	OPENING WELCOMING SESSION THE ENERGY TRIFECTA — THE RENEWABLE PARADOX, THE THREE-PART FIX, AND WHERE TWO DAYS TAKE US More solar. More instability. Why? This session opens with the central paradox of the energy transition — more renewable generation does not automatically mean a more stable grid. With data from Malaysia's own network, the speaker establishes what the mismatch problem looks like in practice, and then maps the energy trifecta: the three-part integrated answer that every session over the next two days will examine. Battery storage solves the hours problem. Green hydrogen solves the days-to-seasons problem. An intelligent grid is the coordinator that makes both work. Remove any one of the three and the system fails. KEY DISCUSSION POINTS: • The renewable paradox: why solar penetration above 20–30% begins to destabilise the grids it was meant to clean — with real curtailment data from Malaysia's network • Frequency instability in Southeast Asia: what happens when spinning turbines are replaced by solar panels with no synthetic inertia — and what this costs grid operators today • Battery storage handles the hours problem: frequency response, intraday balancing, peak shaving and grid stability within the same day • Green hydrogen handles the days-to-seasons problem: long-duration storage, seasonal demand firming and decarbonisation of sectors electricity cannot directly reach • The intelligent grid is the coordinator: dispatching BESS in milliseconds, calling on hydrogen reserves over days, integrating EV fleets through vehicle-to-grid in real time • The two-day journey ahead: how Day 1 builds each component of the trifecta and Day 2 assembles them into a system that can actually be implemented Speaker: Thomas Hubert Spannring, <i>Chief Financial Officer, Etihad Water & Electricity (EtihadWE)</i>
9:45	EXPERT DIALOGUE YOUR SOLAR FARM IS PRODUCING FULL POWER. NOBODY WANTS IT. NOW WHAT? This is the problem the room lives with every day. Solar generation peaks at noon. Demand peaks at 7pm. The grid cannot store the surplus or shift it by seven hours. Curtailment losses grow. Frequency dips when clouds move in. Grid operators issue constraint notices. Renewable developers see their business cases erode. This panel gives the room permission to name the problem honestly — without sugar-coating, without vendor answers. Real operators on the real cost of getting the timing wrong. KEY DISCUSSION POINTS: • Curtailment data: how much Malaysian solar capacity was curtailed in 2025–2026 and what that represents in lost revenue for developers • Frequency instability in a high-renewable grid: what operators are doing right now when generation and demand fall out of sync • The duck curve in Southeast Asia: why the worst moment of the day is not high demand — it is the evening ramp from solar to nothing • EV adoption colliding with the solar cliff: EV charging demand peaks precisely as solar generation drops — what this means for grid planning from 2027 • Grid code challenges: what the existing grid code was designed for, and what it cannot handle in a 50%+ renewable environment • What does "solving intermittency" actually mean in practice — and why the answer is more than just adding batteries MODERATOR: Eng. Abdullah Al Wahaibi, <i>Chief Executive Officer, Esbaar</i> PANELISTS: • Siriwat Chedsi, <i>Deputy Governor, Power Plant Development & Renewable Energy, EGAT</i> • Dan Barbulescu, <i>Director, Energy Storage Rights</i> • Dr. Zainal Arifin, <i>Director, Energy Transition & Sustainability Centre, PT PLN (Persero)</i> • Alan Bong, <i>Regional Director, Solarvest Holdings Berhad</i>
10:30	MINISTERIAL KEYNOTE & OFFICIATION MALAYSIA'S ENERGY TRANSITION AT THE TIPPING POINT — STORAGE, HYDROGEN AND THE GRID THAT WILL POWER OUR FUTURE The summit opens with a formal address setting the policy context and signalling government commitment to battery energy storage, green hydrogen and grid modernisation as the three pillars of Malaysia's National Energy Transition Roadmap. This is not a ceremonial speech — it is a policy briefing on what Malaysia has committed to, what is already in motion, and what the private sector is expected to deliver. KEY DISCUSSION POINTS: • Malaysia NER 2026 progress: milestone delivery on BESS, solar, grid reform and the carbon tax framework • MyBeST BESS Programme and LSS6 mandatory BESS requirement — how Malaysia designed the region's most advanced storage policy framework • Sarawak Hydrogen Hub: H2ornbill, H2biscus and the first electrolyser assembly facility in Southeast Asia — government perspective on timeline and targets • Carbon pricing in Malaysia: what the 2026 carbon tax means for the energy transition business case • ASEAN leadership ambition: positioning Malaysia as the premier destination for energy storage and clean hydrogen investment • What Malaysia expects from the private sector — and what the private sector needs from government in return Speaker: YB Dato' Sri Hj. Abdul Rahman Hj. Mohamad, <i>Deputy Minister, PETRA</i>

DAY 1: MORE RENEWABLE ENERGY. MORE INSTABILITY. WHY?

FROM CURTAILMENT TO CAPACITY — The Storage, Hydrogen and Safety Imperative for Malaysia's Energy Transition

10:45

PLENARY SEGMENT SESSION

IT WAS DESIGNED FOR COAL. HERE IS WHAT IT NEEDS TO HANDLE SOLAR, BATTERIES, EVS AND HYDROGEN.

This session captures the central strategic challenge facing major industrial ports today: the fundamental mismatch between legacy infrastructure and future energy demands. Puan Linda Zain will share a practitioner's perspective on Westports' transformation from its early development in 1994 to its roadmap towards becoming a Clean Energy Hub. The session will explore how ports can adapt their infrastructure and operations to accommodate electrification, renewable energy and alternative fuels while maintaining operational efficiency and reliability.

KEY DISCUSSION POINTS:

- The Big Shift: Moving from conventional energy consumption towards a more integrated and sustainable port energy ecosystem.
- Terminal Electrification: Transitioning from diesel-powered equipment towards electrified port operations.
- Clean Energy Integration: Exploring the role of solar PV, battery energy storage and alternative fuels in port decarbonisation.
- Infrastructure Readiness: Adapting existing port infrastructure to meet evolving energy demands while maintaining operational reliability.
- Future Transformation: Balancing sustainability goals, operational efficiency and future expansion plans.

SPEAKER: Linda Zain, *Deputy Chief Executive Officer, Westports (M) Sdn. Bhd.*

11:15

RECHARGE BREAK

Coffee • Connect • Create

— WHEN THE CLOCK HITS 7PM —

11:30

SPONSOR SEGMENT SESSION

EXPLORATION OF KEHUA GRID-FORMING ENERGY STORAGE TECHNOLOGY

SPEAKER: Calvin Xu, *Technical Solutions Engineer, Kehua Digital Energy*

12:00

LEADERSHIP EXCHANGE

HOW LONG DOES YOUR BATTERY NEED TO LAST? THE ANSWER DEPENDS ENTIRELY ON WHICH PROBLEM YOU ARE TRYING TO SOLVE.

For years, long-duration energy storage (LDES) has been the "coming soon" technology. In 2025–2026, Form Energy's iron-air 100-hour battery entered grid-connected operation for the first time. Vanadium flow batteries are scaling in China. CAES projects are advancing in Europe. Meanwhile, LFP lithium-ion costs have fallen to USD 80/kWh. This leadership exchange asks the question the whole industry is debating: which technology actually wins in Southeast Asia?

KEY DISCUSSION POINTS:

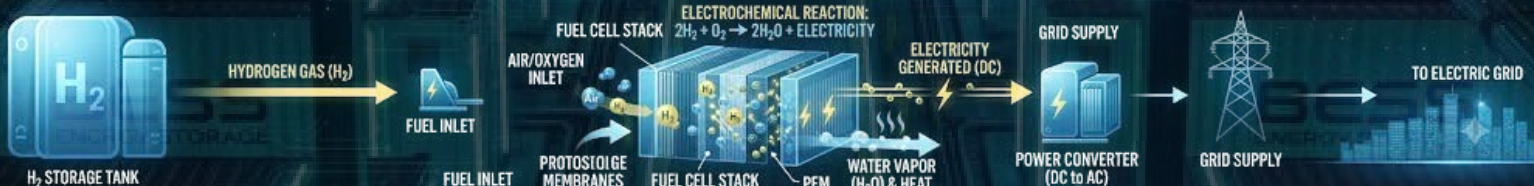
- LDES in 2026: where iron-air, vanadium flow and compressed air energy storage actually stand — real operational data, not press releases
- Where LDES is commercially superior: multi-day storage, seasonal firming, island grid decarbonisation — the honest use-case map for Southeast Asia
- Where LFP lithium-ion still wins: frequency response, intraday shifting, revenue stacking — why ASEAN project developers continue to default to LFP
- Revenue stacking in Southeast Asian electricity markets: can current market designs support the stacking models LDES needs to be bankable?
- The Cap & Floor lesson from the UK: ASEAN urgently needs a policy equivalent to make long-duration storage viable for project finance
- Which Southeast Asian market moves first on LDES? The regulatory and market conditions that would trigger a regional breakthrough project

MODERATOR: Yee Ho Tan, *Head of Battery, Manufacturing & Energy Storage, UOB*

PANELISTS:

- Dr. Mohamad Lutfi Samsudin, *Head of the Technical (Special Projects), Malakoff Corporation*
- Meg Wang, *Chief Executive Officer, Jiangsu Megalion Energy Storage Integration Technology Co., Ltd*
- Ir. Nirinder Singh Johl, *Chief Executive Officer, Asia Carbonx Change PLT.*
- Charles Shang, *Chief Executive Officer, Singapore Methanol*

THE HYDROGEN-TO-ELECTRICITY CONVERSION PROCESS



DAY 1: MORE RENEWABLE ENERGY. MORE INSTABILITY. WHY?

FROM CURTAILMENT TO CAPACITY — The Storage, Hydrogen and Safety Imperative for Malaysia's Energy Transition

12:45

PLENARY SEGMENT SESSION

THE GRID CAN'T WAIT: DELIVERING POWER INFRASTRUCTURE AT THE SPEED OF MALAYSIA'S AI ECONOMY

Data centres can be built in 18 to 24 months. The transmission infrastructure that powers them has traditionally taken much longer. As hyperscale and AI demand concentrates in Johor and the Southern Region, the question for Malaysia is no longer whether demand will come. It is whether the grid can be delivered in time to meet it. Drawing on Hasilwan's experience as a transmission and distribution EPC partner on fast-track power infrastructure for the data-centre sector, including its ongoing work on extra high voltage infrastructure in the Southern Region, this session looks at what it actually takes to build grid capacity on compressed timelines without compromising safety, quality or system reliability.

KEY DISCUSSION POINTS:

- The delivery gap: why the bottleneck in AI and data-centre growth has moved from land and capital to substations, transmission lines and grid connection timelines
- What makes fast track possible: the decisions and engineering choices that matter most in extra high voltage substation delivery, from early engagement and design freeze to long-lead equipment, modular design and commissioning planning
- Powering the gigawatt era: how dedicated power infrastructure for large data-centre campuses is planned and phased so that capacity is ready when each data hall comes online
- Fast track without shortcuts: keeping safety, quality, reliability and grid-code compliance intact under compressed schedules
- Supply chain and workforce readiness: securing transformers, GIS and HV equipment amid global shortages, and building the local engineering and construction talent pipeline
- From project-by-project to grid readiness: what developers, utilities and EPC contractors must align on so that Malaysia stays ahead of demand rather than chasing it

SPEAKER: Yong Sien Wae, *Group CEO and Director, Hasilwan (M) Sdn. Bhd.*

13:05

POWER LUNCH

Refuel • Recharge • Reconnect

— DAY THREE OF THE MONSOON. THE BATTERY IS EMPTY. HYDROGEN IS NOT —

14:20

PLENARY SEGMENT SESSION

DO WE FORGET FUTURE FUSION ENERGY? EXPERIENCE FROM THE FIRST SMALL TOKAMAK IN THE REGION

While SMR is gaining highly attention as an alternative to clean energy with rather matured development and in practical use, fusion energy is often overlooked as under research and development and need some more years before transitioning to day-to-day usage. In recent years, there are clear signs of rapid developments in certain fusion technologies, making fusion energy as another promising alternative. As a new comer with mild foundation into the fusion community, Thailand has taken an initiative to set up the first tokamak facility in the country about three years ago. We have made certain progress since then. Now it's probably the time to share our experience.

SPEAKER: Assoc. Prof. Dr. Somsak Dangtip, *Deputy Executive Director, Thailand Institute of Nuclear Technology*

15:00

PLENARY SEGMENT SESSION

DATA CENTRE GROWTH AND ENERGY INFRASTRUCTURE — 'MAKE EVERY WATT COUNT!'

Malaysia did not become a data centre market by accident, and it will not stay one by luck. Over the past few years, Johor in particular has absorbed demand that Singapore could not host, and the capital followed the land and the promise of power. The promise is now being tested. Hyperscale and AI workloads draw power at a scale and speed that grid planning and tariff design were never built to match.

This keynote sets out where the growth has come from and what it asks of TNB and the wider energy system. The real constraints are transmission, substation lead times, water, renewable sourcing and the gap between announced capacity and energised capacity. I will argue that the industry keeps treating power as a procurement item when it is the programme's critical path, and that owners who secure it late pay for it twice.

Drawing on projects across Southeast Asia and Korea, I will compare Malaysia with its neighbours and explain what investors should ask before committing to a site. I will also say plainly what regulators and developers each need to do differently if Malaysia is to turn a pipeline into delivered, reliable capacity. The audience should leave with questions, not slogans

SPEAKER: James Rix, *Head of Data Centres - PDS - Southeast Asia & Korea, JLL*

INTEGRATING HYDROGEN & ENERGY STORAGE INTO THE FUTURE GRID



DAY 1: MORE RENEWABLE ENERGY. MORE INSTABILITY. WHY?

FROM CURTAILMENT TO CAPACITY — The Storage, Hydrogen and Safety Imperative for Malaysia's Energy Transition

— THE CONVERSATION THAT NEVER MAKES THE BROCHURE —

15:30

OXFORD-STYLE DEBATE

THE AI INFRASTRUCTURE STRAIN: BALANCING HYPERSCALE DATA CENTER DEMAND WITH GRID CAPACITY, SAFETY, AND GREEN OFFTAKE

Southeast Asia is experiencing an unprecedented influx of Foreign Direct Investment (FDI) driven by the global AI arms race. However, hyperscale data centers require immense, continuous baseload power and intensive thermal cooling that legacy grids were never engineered to support. This session bridges the high-stakes gap between the tech sector and primary energy providers, uncovering how high-density data networks can deploy co-located storage safely, mitigate resource constraints, and secure authentic clean energy without destabilizing the regional grid.

KEY DISCUSSION POINTS:

- **The Grid Bottleneck:** Navigating the rapid 24-month deployment cycles of incoming AI clusters against legacy transmission lines and utility infrastructure timelines.
- **Co-located Storage & Uptime:** Utilizing large-scale BESS within hyperscale facilities not just for continuous backup, but as an active grid asset for frequency response and peak shaving.
- **The Water-Energy Nexus:** Mitigating the safety, resource allocation, and thermal runaway risks associated with high-density liquid cooling setups and extreme power loads.
- **Authentic Corporate Offtake:** Shifting beyond basic slide-deck targets to structure bankable green energy power purchase agreements (PPAs) that support long-term regional stability.

Format: Oxford-Style Debate. The room is polled before and after the session. Two opposing teams argue sharp, contrasting positions on grid limits.

MODERATOR: Chairunnas, *President/Director*, PT Global Safety Data Center

- **Richard Qiu, President**, LiCAP Technologies
- **James Rix, Head of Data Centres - PDS - Southeast Asia & Korea**, JLL
- **Thomas Hubert Spannring, Chief financial officer**, Etihad Water & Electricity (EtihadWE)
- **Yong Sien Wae, Group CEO and Director**, Hasilwan (M) Sdn Bhd

16:00

RECHARGE BREAK

Coffee • Connections • Collaboration

16:10

PLENARY SEGMENT SESSION

THE CONVERSATION THAT NEVER MAKES THE BROCHURE

Battery energy storage is one of the fastest-growing asset classes in Southeast Asia. BESS thermal runaway events are also occurring with greater frequency globally — and the lessons from them are not yet standard knowledge across the developer, operator and insurer community in this region. This session addresses what the industry typically does not feature at launch events: what causes fires, what suppresses them, what regulations require, and what real incident investigations have found.

KEY DISCUSSION POINTS:

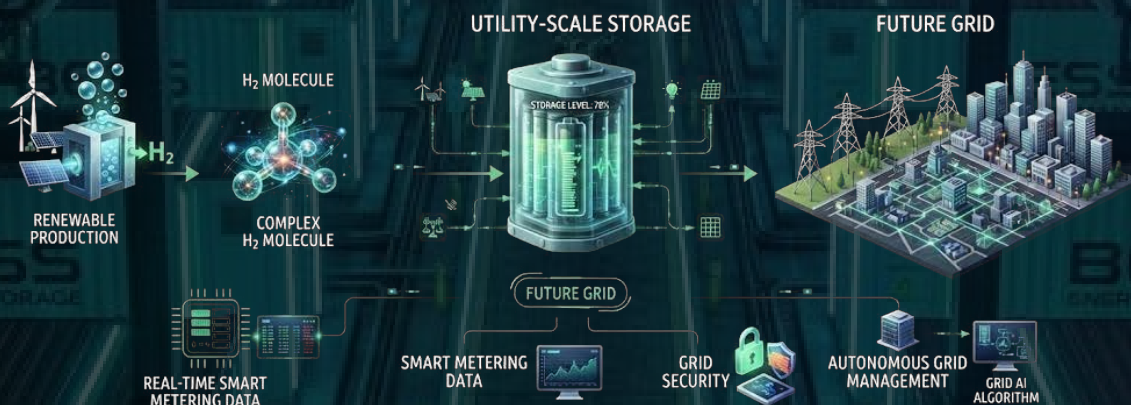
- BESS thermal runaway: the specific electrochemical sequence — LFP vs NMC chemistry risk profiles, thermal propagation and what triggers cascade failure
- Real incident case studies: what has gone wrong in deployed BESS systems globally in 2023–2025, what the investigations found, and what operators changed as a result
- Fire suppression system design: active suppression, passive containment, ventilation requirements and what IEC 62933 and NFPA 855 standards require
- Siting and separation requirements: minimum clearances, setback regulations and local Malaysian permitting frameworks
- Insurance underwriting for BESS: what underwriters require before issuing coverage and how incident history is affecting premium structures in 2026
- What regulators are preparing to mandate next: the direction of travel on storage safety standards in Malaysia and what developers and operators should be preparing for now

SPEAKER: Chairunnas, *President/Director*, PT Global Safety Data Center

16:40

END OF DAY 1

Conference Chair close — Day 2 preview



DAY 2: YOU HAVE THE PARTS. HERE IS WHY THEY DON'T WORK WITHOUT EACH OTHER.

FROM ASSETS TO ARCHITECTURE — Grid Intelligence, Investment Strategy and the Implementation Blueprint

08:30

REGISTRATION & NETWORKING BREAKFAST

Morning networking and refreshments

09:00

OPENING PLENARY SEGMENT SESSION

THE PART NOBODY BUDGETED FOR — AND WHY WITHOUT IT, EVERYTHING ELSE FAILS

Day 1 established the problem and introduced two powerful solutions: battery storage for hours, green hydrogen for weeks and seasons. Day 2 opens with the question that connects them: who coordinates both solutions in real time, dispatches the right response, integrates EVs as flexible grid assets through vehicle-to-grid, and does it faster than any human operator? The answer is an intelligent grid — and without it, battery storage and hydrogen are isolated assets that cannot function as a system.

KEY DISCUSSION POINTS:

- Why BESS and hydrogen alone are not enough: the coordination problem that emerges when two storage technologies operate without a real-time intelligent dispatcher
- AI grid dispatch in action: what artificial intelligence can do in grid management that human operators and conventional SCADA systems cannot
- Vehicle-to-grid (V2G) and EV fleet integration: millions of connected EV batteries as a distributed storage and frequency response resource
- Virtual Power Plants (VPPs): aggregating distributed generation, storage and flexible demand into a single dispatchable unit — what is live in ASEAN
- The ASEAN Power Grid vision: USD 764 billion in required transmission infrastructure and why the intelligent grid is the prerequisite for regional energy trade
- What grid intelligence actually costs and who pays for it — the investment required and the policy framework needed

SPEAKER: Dr. Zainal Arifin, *Director Energy Transition & Sustainability Centre, Institut Teknologi PLN, Strategic Colony Consultant, PT PLN (Persero)*

— THE GRID WAS BUILT FOR A DIFFERENT WORLD —

09:30

PLENARY SEGMENT SESSION

LARGE-SCALE SOLAR (LSS) FARM IN MALAYSIA: EPIC'S BERHAD EXPERIENCE

EPIC Berhad shares its experience in developing a Large-Scale Solar (LSS) project in Malaysia — from project development and grid connection to execution, commercial considerations and the practical challenges of delivering utility-scale renewable energy.

KEY DISCUSSION POINTS:

- LSS project development and implementation in Malaysia
- Grid connection and infrastructure considerations
- Commercial and investment considerations
- Practical challenges and lessons from project execution
- Key lessons for scaling Malaysia's solar capacity

SPEAKER: Dr. Ts. Hj. Muhtar Suhaili, *Group Chief Executive Officer, EPIC Berhad*

10:00

EXPERT DIALOGUE

AI SAID IT COULD RUN THE GRID BETTER. WAS IT RIGHT?

Artificial intelligence in grid management has moved from whitepaper to deployment. Digital twins of transmission networks are live. Virtual power plants are aggregating distributed resources. AI dispatch algorithms are making faster decisions than control room operators. But the difference between what is genuinely operational and what is still a vendor demonstration is substantial. This panel strips away the marketing and reports back on what is actually working.

KEY DISCUSSION POINTS:

- AI dispatch results from live deployments: what the data shows about response times, frequency regulation accuracy and cost savings in Malaysia and Thailand
- Digital twin deployments: what TNB's transmission network digital twin revealed about grid vulnerability that conventional modelling missed
- VPP programmes in Southeast Asia: which aggregation models are delivering measurable results and what regulatory conditions they needed to operate
- Demand response in industrial Malaysia: which large commercial and industrial customers are actively participating and what they earn
- EV fleet management as a grid asset class: vehicle-to-grid programmes in the region, the commercial model for fleet operators and the grid benefits delivered
- Cybersecurity as the fastest-growing risk in digitised grids: the attack surface created by connecting millions of endpoints to a national grid

MODERATOR: Zhao Jiajun, *VP, Business Development & Energy, Southeast Asia, STTGDC*

PANELISTS:

- Eng. Abdullah Al Wahaibi, *Chief Executive Officer, Esbaar*
- Dr. Zainal Arifin, *Director, Energy Transition & Sustainability Centre, PT PLN (Persero)*
- Yatin Premchand, *Managing Director — Infrastructure Advisory APAC, Black & Veatch*
- Meg Wang, *Chief Executive Officer, Jiangsu Megalion Energy Storage Integration Technology Co., Ltd*

DAY 2: YOU HAVE THE PARTS. HERE IS WHY THEY DON'T WORK WITHOUT EACH OTHER.

FROM ASSETS TO ARCHITECTURE — Grid Intelligence, Investment Strategy and the Implementation Blueprint

10:45

PLENARY SEGMENT SESSION

BEYOND MWH: MATCHING ENERGY STORAGE TECHNOLOGIES TO POWER DEMANDS IN THE AI ERA

The rapid growth of AI data centers, electrification, and increasingly dynamic power loads is changing how energy storage systems must be designed. While storage capacity is traditionally measured in MWh, many applications are driven just as much by instantaneous power demand, response time, and the frequency of charge-discharge cycles.

This presentation explores energy storage requirements across different timescales: from milliseconds and seconds to minutes and hours; and examines how batteries, ultracapacitors, and hybrid architectures can be matched to actual load profiles. Particular attention will be given to AI data centers, where rapid power fluctuations, power quality, and system reliability are creating new challenges for conventional battery-based solutions.

The session will highlight the complementary strengths of different storage technologies and discuss how application driven system design can improve performance, efficiency, reliability, and lifecycle economics. It will also examine advances in electrode manufacturing and high-power energy storage technologies that are enabling new solutions for next-generation power infrastructure.

SPEAKER: Richard Qiu, *President, LICAP Technologies, Inc.*

11:15

RECHARGE BREAK

Coffee • Connect • Create

— WHERE GREAT PROJECTS GO TO STALL —

11:30

PLENARY SEGMENT SESSION

METHANOL, BIOGAS AND BIOMETHANE: EVALUATING RENEWABLE PATHWAYS FOR INDUSTRIAL APPLICATIONS

The presentation could examine production pathways, feedstock availability, infrastructure and logistics requirements, industrial applications, and lifecycle emissions considerations, with relevance to Malaysia and the wider ASEAN region.

SPEAKER: Charles Shang, *Chief Executive Officer, Singapore Methanol Pte Ltd*

12:00

LEADERSHIP EXCHANGE

YOU HAVE THE TECHNOLOGY. YOU DON'T HAVE THE PEOPLE. NOW WHAT?

Malaysia and Southeast Asia are deploying energy storage, building hydrogen projects and upgrading grid infrastructure at a pace that has outrun the available talent pool. BESS systems need operations engineers who understand electrochemistry and inverter control. Electrolyser facilities need technicians who have never existed before. AI-managed grids need data engineers who also understand power systems. This session is about the talent gap — and what organisations that have solved it actually did.

KEY DISCUSSION POINTS:

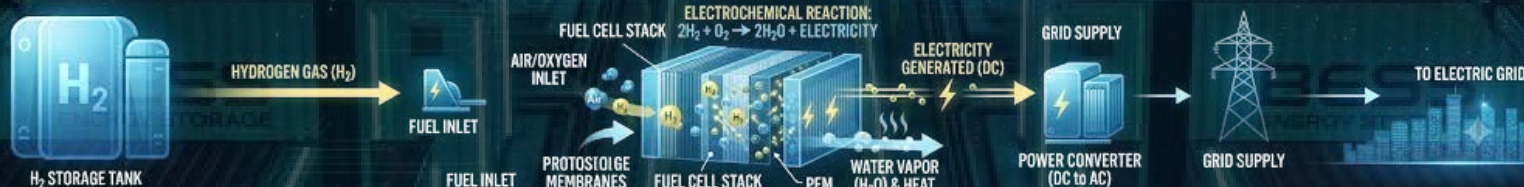
- Talent shortage data in ASEAN: the specific technical roles that are hardest to fill and the salary gap drawing engineers away from utilities to private developers
- What competencies are actually missing at site level: BESS operations and safety certification, electrolyser maintenance protocols, AI grid management, EV V2G integration systems
- University and vocational partnerships: which Malaysian universities and colleges are building new energy engineering pathways and what industry needs from curriculum reform
- Internal upskilling models from companies that have done it: how TNB, Gentari and private developers are retraining existing engineers for new technology roles
- The digital operations skills gap: the specific data science, SCADA modernisation and cybersecurity capabilities every grid operator and storage developer needs by 2027
- Building the talent pipeline now: what training investments need to start immediately to support 2027-2028 project commissioning timelines

MODERATOR: Datuk Dr. Nora Manaf, *Independent & Non-Executive Director & Board member, MBSB Group*

PANELISTS:

- Andre Susanto, *Chief Technology Officer, Quantum Power Asia*
- Somsak Dangtip, *Deputy Executive Director, TINT Thailand*
- Charles Shang, *Chief Executive Officer, Singapore Methanol*
- Zhao Jiajun, *VP, Business Development & Energy, Southeast Asia, STGDC*

THE HYDROGEN-TO-ELECTRICITY CONVERSION PROCESS



DAY 2: YOU HAVE THE PARTS. HERE IS WHY THEY DON'T WORK WITHOUT EACH OTHER.

FROM ASSETS TO ARCHITECTURE — Grid Intelligence, Investment Strategy and the Implementation Blueprint

12:40

PLENARY SEGMENT SESSION

POSITIONING MALAYSIA AS ASEAN'S INVESTMENT DESTINATION FOR ENERGY TRANSITION

Malaysia is building the infrastructure shaping its next energy chapter — from energy storage and hydrogen to the grid systems needed to connect it all. The question now is how Malaysia can attract and accelerate the capital required to bring these opportunities to scale. This session will explore Malaysia's investment proposition and how MIDA is helping facilitate and accelerate investment across the energy-transition ecosystem.

KEY DISCUSSION POINTS:

- Malaysia's investment proposition: What makes the country competitive for regional and international energy-transition investments.
- Opportunities across the energy transition: Where investors can participate across energy storage, hydrogen and grid infrastructure.
- Enabling strategic investment: How MIDA facilitates projects and supports investors in navigating Malaysia's investment landscape.
- Incentives and investor support: The mechanisms available to encourage and accelerate energy-transition investments.
- Building an investment-ready ecosystem: Strengthening the infrastructure, industry capabilities and partnerships needed to attract investment at scale.

SPEAKER: Surayu Susah, *Executive Director Manufacturing Development (Resource)*, MIDA

13:00

SPECIAL ADDRESS SESSION

SPEAKER: YB Dato' Sri Mohd Shahar Abdullah, *Deputy Minister*, Ministry of Economy (MOE)

13:15

POWER LUNCH

Refuel • Recharge • Reconnect

— WHO SIGNS THE CHEQUE —

14:20

ARMCHAIR DIALOGUE

THE CAPITAL IS THERE. HERE IS WHY IT IS NOT FLOWING INTO YOUR PROJECT.

Green finance has never been more available. The global green bond market exceeded USD 600 billion in 2025. Malaysia's green sukuk framework is among the most developed in the Islamic finance world. ADB blended finance windows for clean energy are open and active. And yet BESS projects struggle to reach financial close. Hydrogen projects sit at FEED for years. This session diagnoses the gap between available capital and deployed investment.

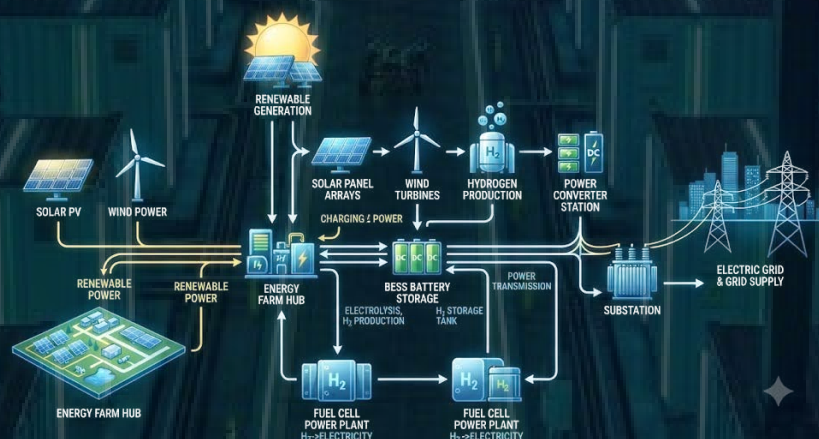
KEY DISCUSSION POINTS:

- What investors need before releasing capital to BESS projects: revenue certainty, grid connection confirmation, off-take structures and regulatory clarity
- Green sukuk in Malaysia: market size, qualifying criteria for storage and hydrogen assets, and what issuance has looked like in 2025-2026
- ADB and DFI blended finance windows: what the Asian Development Bank's clean energy facilities offer and how to structure a qualifying co-investment
- Carbon tax Malaysia 2026 and credit monetisation: how the carbon pricing framework can improve project IRR for storage and hydrogen
- The FID conditions checklist for a bankable green hydrogen project: offtake, infrastructure, policy certainty and cost reduction that unlocks commercial debt
- Policy uncertainty and its cost: how regulatory ambiguity adds 200-400 basis points to the cost of capital for storage and hydrogen projects in Southeast Asia

MODERATOR: Leonora Lim, *Regional Sector Head New Energy*, DHL Global Forwarding Asia Pacific

PANELISTS:

- Yee Ho Tan, *Head of Battery, Manufacturing & Energy Storage*, UOB
- Thomas Hubert Spannring, *Chief financial officer*, Etihad Water & Electricity (EtihadWE)
- Nirav Patel, *Chief Executive Officer / Partner*, Big Hill Industries
- Ted Wu, *SEA Region Sales Manager*, Kehua Digital Energy



DAY 2: YOU HAVE THE PARTS. HERE IS WHY THEY DON'T WORK WITHOUT EACH OTHER.

FROM ASSETS TO ARCHITECTURE — Grid Intelligence, Investment Strategy and the Implementation Blueprint

15:00

PLENARY SEGMENT SESSION

WHAT THE COMPLETE SYSTEM ACTUALLY LOOKS LIKE — AND WHAT IT COSTS TO BUILD

This is the capstone technical presentation of the summit. For the first time across two days, all three technologies — battery energy storage, green hydrogen and an intelligent grid — are modelled together as one integrated system. Not as separate projects. Not as aspirational targets. As a real system architecture with real cost data, real sequencing and real investment requirements

KEY DISCUSSION POINTS:

- System integration modelling: how BESS, green hydrogen and AI-managed grid are sized and sequenced relative to each other in an integrated national energy model
- Malaysia 2030 scenario: what the transmission grid, storage fleet and hydrogen production capacity need to look like to stay on the NETR trajectory
- International proof points: what Australia's South Australia grid, the UK's Capacity Market and Germany's hydrogen ramp-up demonstrate about integrated system design
- Cost architecture: the total investment figure for Malaysia's integrated storage and hydrogen build-out broken down by technology — and where the capital needs to come from
- Sequencing the build-out: what comes first, what comes next, and why getting the sequence wrong creates stranded assets
- The missing piece: what single policy or infrastructure decision, if made in 2026, would most accelerate the timeline for the complete system

SPEAKER: Andre Susanto, *Chief Technology Officer, Quantum Power Asia*

— MONDAY MORNING —

15:30

PLENARY SEGMENT SESSION

LOGISTICS: BRINGING TOGETHER THE NEW ENERGY ECOSYSTEM

The transition to a low-carbon future requires more than breakthrough technologies. It requires an ecosystem capable of moving, deploying, and sustaining batteries, energy storage systems, hydrogen infrastructure, renewable energy equipment, and grid assets safely and compliantly at scale.

This session explores how logistics enables the New Energy value chain, from manufacturing and project deployment to circular battery solutions and end-of-life management. Drawing on DHL's global experience, the presentation will also highlight how the company is advancing its own sustainability agenda through electrification, emissions reduction, and sustainable logistics solutions. Together, logistics and sustainability are helping transform energy ambitions into real-world implementation.

SPEAKER: Leonora Lim, *Regional Sector Head New Energy, DHL Global Forwarding Asia Pacific*

16:00

RECHARGE BREAK

Coffee • Connections • Collaboration

16:10

ENERGY LEADERS CLOSING DIALOGUE

ASEAN'S NUCLEAR POWER AMBITION: CURRENT STATUS AND POSSIBLE STRATEGIES TO ADVANCE FROM AMBITION TO ACTION

Malaysia has committed to 70% renewable energy by 2050. Battery storage covers hours. Hydrogen covers days. But both require renewable electricity — and in a 70% RE scenario, there are periods when renewable supply itself is constrained. This Energy Leaders Dialogue opens the conversation that has been absent from Malaysia's energy planning: the nuclear question — honestly, specifically and in the context of the storage and hydrogen system it would sit alongside.

KEY DISCUSSION POINTS:

- The baseload gap in a 70% renewable grid: the specific periods and durations when BESS and hydrogen alone cannot guarantee firm power supply in Malaysia
- Malaysia's nuclear policy position in 2026: what official statements say, what the feasibility studies have found, and where the political conversation currently sits
- How nuclear complements rather than competes with storage and hydrogen: the integrated system case for nuclear baseload + BESS frequency response + hydrogen seasonal storage
- Regional context: Vietnam's nuclear restart plans, Philippines nuclear policy, Indonesia's SMR ambitions — what ASEAN neighbours are doing and what Malaysia can learn
- The timeline reality: a nuclear power plant commissioned in 2035 requires a policy decision by 2026 — what the clock on this decision actually looks like
- What the conversation needs before it can advance: feasibility conditions, public engagement requirements and political preconditions for a credible Malaysian nuclear discussion

MODERATOR: Sheriffah Noor Khamseah Dato Syed Ahmad Iddid, *Malaysia's First Science Advisor, Prime Minister Department*

PANELISTS:

- Nik Mohd Faiz Khairuddin, *Director at Assessment and Licensing Division, Department of Atomic Energy (MOSTI)*
- Assoc. Prof. Dr. Somsak Dangtip, *Deputy Executive Director, Thailand Institute of Nuclear Technology*
- François Morin, *Director China, World Nuclear Association*
- Matthew Chew, *Nuclear Competency & Strategy Lead, HY*

16:50

SUMMIT CLOSING & DECLARATION- END OF THE SUMMIT

Closing address — Conference Chair — summit themes, key findings and industry declaration

SPEAKER: YB. Datuk Dr. Hj. Hazland Bin Abang Hj. Hipni, *Deputy Minister, Ministry of Energy & Environmental Sustainability Sarawak (MEESTy)*



YB DATO' SRI HJ. ABDUL RAHMAN BIN HAJI MOHAMAD, DEPUTY MINISTER, MINISTRY OF ENERGY TRANSITION AND WATER TRANSFORMATION (PETRA)

YB Dato' Sri Hj. Abdul Rahman bin Haji Mohamad is the Deputy Minister of the Ministry of Energy Transition and Water Transformation (PETRA), Malaysia, and the Member of Parliament for Lipis, Pahang. In this capacity, he plays a key role in shaping Malaysia's national energy transition policies, including the country's shift toward renewable energy, energy storage, and sustainable water management. The PETRA Ministry oversees Malaysia's ambitious energy transition agenda, including the National Energy Transition Roadmap (NETR), which targets 70% renewable energy capacity by 2050 and positions Malaysia as a regional clean energy leader.



YB DATO' SRI MOHD SHAHAR BIN ABDULLAH, DEPUTY MINISTER, MINISTRY OF ECONOMY, MALAYSIA

YB Dato' Sri Mohd Shahar bin Abdullah is the Deputy Minister of Economy of Malaysia and the Member of Parliament for Paya Besar, Pahang. In this role, he supports the formulation and implementation of Malaysia's national economic strategies, including investment promotion, industrial development, and the economic dimensions of the country's energy transition agenda. The Ministry of Economy plays a central role in coordinating Malaysia's MADANI Economy framework and the National Energy Transition Roadmap (NETR), seeking to position Malaysia as a high-value, sustainable economy driven by green investment and technological advancement.



YB DATUK DR. HAJI HAZLAND BIN HAJI ABANG HIPNI, DEPUTY MINISTER, MINISTRY OF ENERGY AND ENVIRONMENTAL SUSTAINABILITY SARAWAK (MEESTY)

YB Datuk Dr. Haji Hazland bin Haji Abang Hipni is the Deputy Minister of the Ministry of Energy and Environmental Sustainability Sarawak (MEESTy), where he supports the state's efforts to advance clean energy development, environmental sustainability and long-term decarbonisation. The Ministry plays a key role in shaping Sarawak's energy and environmental policies, with a focus on renewable energy, hydrogen development, sustainable resource management and climate action. Through initiatives aligned with Sarawak's ambition to achieve net-zero carbon emissions by 2050, the Ministry works with government agencies, industry stakeholders and private-sector partners to strengthen clean energy infrastructure, encourage investment and position Sarawak as a regional contributor to the transition towards a low-carbon economy.



SIRIWAT CHEDSI, DEPUTY GOVERNOR FOR POWER PLANT DEVELOPMENT AND RENEWABLE ENERGY, EGAT

Siritwat Chedsa is Deputy Governor for Power Plant Development and Renewable Energy at the Electricity Generating Authority of Thailand (EGAT), where he oversees Thailand's clean energy transition and nuclear energy readiness. He has been instrumental in advancing Thailand's plans to integrate 600 MW of Small Modular Reactors (SMRs) into the national Power Development Plan (PDP2024), aligning with Thailand's 2050 Net Zero target. He has led technical seminars with Korea Hydro and Nuclear Power (KHNP) on SMR deployment, represented Thailand at the Asia Nuclear Business Platform, and signed the MOU to establish the Hub of Talents for Nuclear Energy Technology (HOTNET), bringing together Thailand's public, academic, and industrial sectors.



ZAINAL ARIFIN, EXECUTIVE VICE PRESIDENT, RENEWABLE ENERGY, PT PLN (PERSERO)

Zainal Arifin is Executive Vice President for Renewable Energy at PT PLN (Persero), Indonesia's state electricity company, where he leads the nation's efforts to accelerate the renewable energy transition. With more than 30 years of experience at PLN, he is a central figure in the execution of Indonesia's national electricity supply plan (RUPTL) and the integration of distributed renewable generation into a complex and coal-dominated grid. He has presented at major international forums including the IERE General Meeting on distributed power generation for a cleaner energy supply, and actively engages with policymakers, regulators, and industry stakeholders on the planning and delivery of Indonesia's clean energy future.



SURAYU SUSAH, EXECUTIVE DIRECTOR, MANUFACTURING DEVELOPMENT (RESOURCE), MIDA

She is Executive Director of Manufacturing Development (Resource) at the Malaysian Investment Development Authority (MIDA), Malaysia's principal investment promotion and facilitation agency. In this role, she oversees three key divisions: Chemical and Advanced Materials, Life Sciences and Medical Technology, and Food Technology and Resource-Based Industries. She works to attract and facilitate high-value manufacturing investments into Malaysia, supporting the country's industrial upgrading agenda and the development of strategic, resource-based industries. Her work aligns with Malaysia's national ambitions to advance sustainable manufacturing and attract next-generation industrial investment aligned with the energy transition.



NIK MOHD FAIZ BIN KHAIRUDDIN, DIRECTOR, ASSESSMENT AND LICENSING DIVISION, DEPARTMENT OF ATOMIC ENERGY (ATOM MALAYSIA)

Nik Mohd Faiz bin Khairuddin is Director of the Assessment and Licensing Division at the Department of Atomic Energy Malaysia (ATOM), the national authority for atomic energy regulation and licensing. He serves as Chairman of Malaysia's National Nuclear Response Management Centre and is Malaysia's designated National Focal Point to the IAEA on the Denial of Illicit Trafficking of Nuclear and Radioactive Material. His role encompasses the regulatory oversight of nuclear and radioactive material applications across medical, industrial, and energy sectors, and he plays a key role in positioning Malaysia's regulatory framework in readiness for the country's nuclear energy ambitions.



FRANÇOIS MORIN, DIRECTOR CHINA, WORLD NUCLEAR ASSOCIATION

François Morin is China Director at the World Nuclear Association, based in Beijing, where he has served since 2012. In this role, he represents the global nuclear industry's interests in China and provides expert analysis on the country's nuclear energy expansion – the most ambitious in the world, with over 62 GW of installed capacity, 38 units under construction, and plans to double capacity to more than 120 GW by the mid-2030s. A regular contributor to international nuclear policy dialogues, he is a recognised authority on the strategic role of nuclear energy in Asia's clean energy transition and the industry's global growth trajectory toward tripling nuclear capacity by 2050.



ASSOC. PROF. DR. SOMSAK DANGTIP, DEPUTY EXECUTIVE DIRECTOR, THAILAND INSTITUTE OF NUCLEAR TECHNOLOGY (TINT)

Assoc. Prof. Dr. Somsak Dangtip holds a PhD in Applied Neutron Research from Uppsala University, Sweden, and currently serves as Deputy Executive Director of the Thailand Institute of Nuclear Technology (TINT). He has extensive experience in nuclear physics, research infrastructure management, research commercialisation, and fusion technology development. He was the Project Manager of Thailand Tokamak-1 – the first tokamak in Thailand and the ASEAN region – and serves as Thailand's National Contact Point for Fusion Technology under Horizon Europe. Prior to TINT's executive management, he held academic and administrative positions at Mahidol University and Chiang Mai University.



LEONORA LIM, REGIONAL SECTOR HEAD NEW ENERGY, DHL GLOBAL FORWARDING ASIA PACIFIC

Leonora Lim is Regional Sector Head for New Energy at DHL Global Forwarding Asia Pacific, bringing close to 30 years of experience in logistics and supply chain across the region. She previously served as Vice President for Life Sciences and Healthcare Asia Pacific at DHL Customer Solutions and Innovation, where she led commercial and operational strategy across multiple markets. In her current role, she leads DHL's new energy sector business across Asia Pacific, supporting the logistics needs of the solar, wind, battery, and broader clean energy industry. Her cross-sector expertise and regional leadership make her a key voice at the intersection of supply chain resilience and the energy transition.



JAMES RIX, HEAD OF DATA CENTRE AND INDUSTRIAL, MALAYSIA & INDONESIA, JLL

James Rix is Head of Data Centre and Industrial for Malaysia and Indonesia at JLL, and a globally recognised expert in data centre design and delivery. He has led projects across more than 14 countries and three continents, spanning due diligence, feasibility studies, white space fit-outs, refurbishments, and new builds for enterprise organisations, co-location providers, and hyperscale owner-operators. James is closely involved in the campus planning of large hyperscale facilities and is a specialist in early works and shovel-ready development. He is a regular international conference speaker and published author of the 'Bytes, Watts and Carbon' newsletter on LinkedIn.



YATIN PREMCHAND, MANAGING DIRECTOR, INFRASTRUCTURE ADVISORY, BLACK & VEATCH

Yatin Premchand is Managing Director, Global Advisory, for Black & Veatch in Asia Pacific, where he guides public and private sector clients on infrastructure investments and decarbonisation strategy. He has been involved in the commercialisation of several major gas-to-power projects across the region, more than 40 GW of sustainable energy and conventional power development, and the formation of technical and financial mechanisms to repurpose coal plants. He regularly advises developers and large industrial companies on green and blue hydrogen projects and other emerging decarbonisation strategies, and serves on the advisory board of Enlit Asia. He is a sought-after speaker on the energy transition landscape across Southeast Asia.



YEE HO TAN, HEAD OF BATTERY, MANUFACTURING & ENERGY STORAGE, UNITED OVERSEAS BANK (UOB)

Yee Ho Tan is Head of Battery, Manufacturing and Energy Storage at UOB, where he leads the bank's financing and advisory work in the battery, energy storage, and clean energy manufacturing sectors across Asia. Based in Singapore, he brings deep expertise in sector banking, having previously served as an Industry Banker in UOB's Energy and Chemicals Sector Solutions Group. He is an active participant in regional energy storage policy dialogues, including Malaysia's BESS competitive bidding framework, and is a regular speaker at industry forums including the Energy Storage Summit Asia. His work sits at the intersection of project finance, industrial decarbonisation, and the scaling of energy storage solutions across Southeast Asia.



THOMAS SPANNRING, CHIEF FINANCIAL OFFICER, ETIHAD WATER AND ELECTRICITY (ETIHADWE)

Thomas Spannring is Chief Financial Officer of EtihadWE, the UAE's integrated water and electricity utility serving government and infrastructure clients across the Emirates. He joined EtihadWE in August 2024, bringing senior financial leadership experience from Siemens Gamesa, the global renewable energy company, where he held several leadership positions focused on sustainable development. He holds an MBA from the University of Augsburg and a degree from the University of Bayreuth. At EtihadWE, he plays a central role in the organisation's financial strategy as it expands its battery energy storage, grid modernisation, and clean energy infrastructure portfolio across the region.



JIAJUN ZHAO, VICE PRESIDENT, BUSINESS DEVELOPMENT & ENERGY, SOUTHEAST ASIA, STTGDC

He is Vice President of Business Development and Energy, Southeast Asia at ST Telemedia Global Data Centres (STTGDC), one of Asia's leading data centre operators with a presence across nine countries. He is responsible for market expansion, product management, marketing, service partnerships, and energy strategy across the Southeast Asian region. He leads STTGDC's NVIDIA data centre colocation partnership programme and customer energy strategy, and has previously served in Corporate Development, Data Centre Strategy, and Analyst Relations functions within the company. Prior to STTGDC, he held product management roles at Singtel overseeing data centre and network services. He holds an MBA from Singapore Management University and a Bachelor of Engineering from the National University of Singapore.



DR. MOHAMAD LUTFI SAMSUDIN, HEAD OF TECHNICAL (SPECIAL PROJECTS), MALAKOFF CORPORATION BERHAD

Dr. Mohamad Lutfi Samsudin is Head of Technical (Special Projects) at Malakoff Corporation Berhad, one of Malaysia's leading independent power producers. He is an engineering leader focused on advancing Malakoff's capabilities in renewable energy, carbon utilisation, and green hydrogen as part of the company's energy transition agenda. His research collaborations include award-winning joint work with Universiti Teknikal Malaysia Melaka (UTEM) on intelligent data analytics for combined cycle power plants, and he is committed to building homegrown engineering expertise and driving sustainable innovation within Malaysia's power sector.



ZAJALINDA MOHD ZAIN, DEPUTY CHIEF EXECUTIVE OFFICER, WESTPORTS HOLDINGS BERHAD

Puan ZAJALINDA Mohd Zain is Deputy Chief Executive Officer of Westports Holdings Berhad, one of Malaysia's leading port operators, a role she assumed in October 2025. She brings over 30 years of diverse experience spanning advisory services, oil and gas engineering, and manufacturing services. Her career includes senior leadership roles at Eversendai Oil & Gas, where she secured major EPC contracts including a PETRONAS Carigali gas terminal project with Samsung Engineering, as well as executive positions managing PETRONAS, Shell, and Sapura projects. She was recognised as a 2017 SME ICON for the Energy Industry and is an advocate for women's leadership in engineering and energy sectors.



DATUK DR. NORA MANAF, INDEPENDENT & NON-EXECUTIVE DIRECTOR, MALAYSIA BUILDING SOCIETY BERHAD (MBSB)

Datuk Dr. Nora Manaf is an Independent Non-Executive Director of MBSB Group, appointed in July 2025. She brings more than 30 years of experience in human resources and banking, including a distinguished tenure at Malaysia's largest banking institution by market capitalisation. A Chartered Accountant (MIA), Chartered Banker (AICB), Chartered Fellow of the Chartered Institute of Personnel and Development (UK), and Black Belt Sustainability Practitioner, her expertise spans workforce strategy, talent development, and sustainability governance, making her a valued voice on the future of human capital in the financial and corporate sectors.



DR. TS. MUHTAR SUHAILI, GROUP CHIEF EXECUTIVE OFFICER, EPIC GROUP

Dr. Ts. Muhtar Suhaili is Group Chief Executive Officer of Eastern Pacific Industrial Corporation Berhad (EPIC Group), a Terengganu state-linked conglomerate with operations spanning oil and gas, renewable energy, port management, logistics, commodities, and automotive sectors. Appointed Group CEO in April 2024, he brings more than 20 years of leadership experience across these industries, having previously held senior roles at Shell Malaysia and Perodua Auto Corporation Sdn Bhd. Under his leadership, EPIC is actively expanding its footprint in the renewable energy space in Malaysia, continuing the group's evolution as a diversified energy and infrastructure company.



CALVIN XU, TECHNICAL SOLUTIONS ENGINEER, KEHUA DIGITAL ENERGY

As a Technical Solutions Engineer at Kehua Digital Energy, Calvin is responsible for designing energy storage and PV system solutions and providing technical support for customers across Southeast Asia. With experience in system integration, grid connection requirements and project coordination, he works closely with customers to develop reliable, practical and market-compliant clean energy solutions.



YONG SIEN WAE, GROUP CHIEF EXECUTIVE OFFICER, HASILWAN GROUP

Yong Sien Wae is Group Chief Executive Officer of Hasilwan Group, a Malaysian power engineering company with over 30 years of industry history, expanding regionally and preparing for an IPO as a leading energy transition company. He brings more than 19 years of experience in power engineering and energy transition infrastructure, having led the delivery of key projects including high- and medium-voltage grid interconnection facilities, utility-scale and commercial and industrial solar PV, battery energy storage systems (BESS), and energy efficiency solutions. Under his leadership, Hasilwan has grown its footprint as a one-stop energy transition solutions provider, committed to delivering reliable, innovative, and cost-sustainable outcomes across Malaysia and the region.



DR. RICHARD QIU, PRESIDENT, LICAP TECHNOLOGIES

Dr. Richard Qiu is President of LiCap Technologies, a pioneer in Activated Dry Electrode (ADE) manufacturing technology for lithium-ion, solid-state, and sodium-ion batteries. He brings more than 20 years of experience in strategy, business development, and market expansion across high-growth technology companies. Before joining LiCap, he served as President of New Ventures at Udemy, where he built a USD 150 million business unit, raised USD 50 million from strategic partners, and helped lead the company to its IPO. Under his leadership, LiCap has commissioned a 300 MWh production facility in California and established strategic partnerships with Nissan Motor Co. and Dürr System AG, advancing solvent-free battery manufacturing at commercial scale.



ENG. ABDULLAH AL WAHAIBI, CHIEF EXECUTIVE OFFICER, ESBAAR AI & DRONES

Eng. Abdullah Al Wahaibi is Chief Executive Officer of ESBAAR, an integrated AI and drone solutions company based in Oman serving the oil and gas, utilities, and infrastructure sectors. He brings nearly two decades of leadership experience across the public and private sectors, having previously served as CEO of Tatweer (Oman Company for the Development of Special Economic Zones) and in senior roles at Voltamp Energy, AlShawamikh Oil Services, and Siemens. He also serves as Chairman of the IEEE Power & Energy Society – Oman Chapter, where he actively contributes to the advancement of the regional energy sector through technology and innovation.



ANDRE E. SUSANTO, CHIEF TECHNOLOGY AND STRATEGY OFFICER, QUANTUM POWER ASIA

Andre E. Susanto is the Chief Technology and Strategy Officer at Quantum Power Asia, where he leads technology strategy, technical development, and project integration across the platform's clean energy portfolio. He brings more than 20 years of international experience across renewable energy, industrial decarbonisation, energy storage, and advanced technology, underpinned by degrees in physics and mechanical engineering. Andre has played a key role in the development and advisory of more than 9 GW of clean energy projects across the Asia Pacific region, spanning cross-border electricity infrastructure, utility-scale solar PV, and battery storage, providing the data-driven link between board-level strategy and field execution.



MEG WANG, CEO & CTO, JIANGSU MEGALION ENERGY STORAGE INTEGRATION TECHNOLOGY CO., LTD.

Meg Wang is Co-founder, CEO and Chief Technology Officer of Jiangsu Megalion Energy Storage Integration Technology Co., Ltd., a high-technology company incubated by the Institute of Physics of the Chinese Academy of Sciences. She leads the company's development of intelligent energy storage solutions based on advanced semi-solid-state lithium-ion and sodium-ion battery technology, serving residential, commercial and industrial, and utility-scale markets globally. Megalion's product portfolio spans EV battery packs, portable energy storage, and container energy storage systems, underpinned by a proprietary battery management system, big data analytics, and an AI-driven energy cloud platform.



CHARLES SHANG, CHIEF EXECUTIVE OFFICER, SINGAPORE METHANOL PTE LTD

Charles Shang is Chief Executive Officer of Singapore Methanol Pte Ltd, a company pioneering the production and distribution of green methanol from Southeast Asia's biomass resources for the maritime decarbonisation market. He brings more than two decades of experience in maritime shipping, logistics, and business development, having held leadership roles at Braemar Shipping, Mingshi Capital, and Maersk Shipping ETC. Recognised as a leader in maritime decarbonisation, he brings deep expertise in regulatory frameworks including EU ETS, FuelEU Maritime, and RED III, and leads the development of production facilities in Indonesia and strategic supply chain partnerships to support the global shipping industry's transition to sustainable fuels.



NIRAV PATEL, CHIEF EXECUTIVE OFFICER / PARTNER, BIG HILL INDUSTRIES USA

Nirav Patel is CEO and Partner of Big Hill Industries, LLC, a US-based infrastructure development firm focused on power and energy projects. He specialises in infrastructure development, capital structuring, and strategic partnerships across the power sector, with a particular focus on hydrogen and emerging clean energy technologies. An active participant in US hydrogen policy development, he has contributed to the US Hydrogen Policy Leaders Convention and works at the intersection of energy infrastructure, project finance, and decarbonisation strategy. He brings extensive experience in navigating complex energy markets and advancing early-stage projects from concept to commercial viability.



MATTHEW CHEW, NUCLEAR COMPETENCY & STRATEGY LEAD, HY M&E CONSULTANCY SERVICES

Matthew Chew is Nuclear Competency and Strategy Lead at HY M&E Consultancy Services Pte Ltd, where he spearheads the firm's nuclear energy consulting, Digital Twin portfolio, and OT cybersecurity initiatives to advance future energy systems. An alumnus of MIT's Leaders for Global Operations (LGO) programme, he holds dual degrees: an MBA and a Master of Science in Nuclear Science and Engineering from MIT, as well as BEng and MEng degrees from the National University of Singapore. He previously served at the Home Team Science and Technology Agency (HTX) in radiological-nuclear detection and AI-driven imaging systems. His work focuses on developing digital twins for nuclear energy, feasibility frameworks for microreactors, and building Singapore's nuclear energy ecosystem.



DAN BARBULESCU, DIRECTOR, ENERGY STORAGE RIGHTS

Dan Barbulescu is Director of Energy Storage Rights, where he has spent more than eight years pioneering cleantech solutions with a focus on HydroBattery technology and floating solar energy systems. The organisation's intellectual property spans ASEAN, Australia, and Pacific Island nations, reflecting a commitment to sustainable energy innovation and infrastructure development across the Indo-Pacific. In parallel, as Managing Director of Algorithm Intelligence for over seven years, he has advanced artificial intelligence algorithms and launched the 'Cyber Highway Offense Camera' project in collaboration with academic and industry partners, bringing together expertise in energy infrastructure, algorithm development, and multidisciplinary technology-driven innovation.



CHAIRUNNAS, PRESIDENT / DIRECTOR, PT GLOBAL SAFETY DATA CENTER

Chairunnas is President and Director of PT Global Safety Data Center (GSDC), Indonesia's pioneer and leading specialist in safety management for data centre construction and operations. With multiple professional certifications including MOSH, IRCA, NSCA, and NEBOSH, he has led safety operations across numerous large-scale hyperscale data centre projects in Indonesia, including facilities in Cikarang, Karawang, and Suryacipta developed for global cloud operators. GSDC, which he founded, is recognised as the foremost authority on data centre safety, health, and environmental solutions in Indonesia, providing expert manpower and support services for critical infrastructure development across the archipelago.



SHERIFFAH NOOR KHAMIS DATO SYED AHMAD IDID, FORMER MANAGER, BUSINESS UNIT, MINISTRY OF SCIENCE, TECHNOLOGY & INNOVATION (MOSTI)

Sheriffah Noor Khams Dato Syed Ahmad Idid is a Malaysian Innovation and Nuclear Advocate with a distinguished career in science, technology, and energy policy. She served as Manager of a Business Unit at the Ministry of Science, Technology and Innovation (MOSTI), where she led initiatives on innovation financing, biotechnology industry development, and Malaysia's Nuclear Supply Chain (NSC). She held a role as Special Adviser during the administration of the Fourth Prime Minister of Malaysia and has presented at IAEA forums on the financing of nuclear power projects. Her advocacy work spans nuclear energy readiness, R&D commercialisation frameworks, and the development of Malaysia's technology and innovation policy landscape.



IR. NIRINDER SINGH JOHL, CHIEF EXECUTIVE OFFICER, ASIACARBONXCHANGE PLT

Ir. Nirinder Singh Johl is a professional electrical engineer with over 36 years of experience at Tenaga Nasional Berhad (TNB), spanning electricity distribution, customer service, transmission, generation, corporate communications and international business. As former Managing Director of TNBX Sdn. Bhd., he pioneered initiatives in renewable energy, including the Solar Accelerated Renewable Energy Generation (SARE) programme and Malaysia's renewable energy certificate market. He is currently the CEO of AsiaCarbonXChange Plt, specialising in renewable energy certificate consultancy and management, with a focus on advancing renewable energy development across ASEAN.



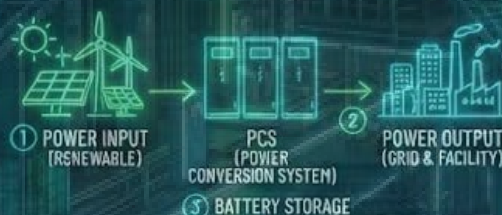
ALAN BONG, REGIONAL DIRECTOR, SOLARVEST HOLDINGS BERHAD

Alan Bong is Regional Director at Solarvest Holdings Berhad, a leading Malaysian solar energy company with a project track record exceeding 3.9 GW across the region. An experienced clean energy professional with in-depth knowledge of solar energy policies and regulations, he leads Solarvest's commercial initiatives to drive business growth, strengthen market presence, and expand the company's regional footprint. His work spans large-scale solar development, energy transition advocacy, and the navigation of complex regulatory environments across Southeast Asia's rapidly evolving renewable energy landscape.

BATTERY STORAGE RACKS

HV BATTERY MODULES

ENERGY FLOW PATH



FACILITY POWER DISTRIBUTION

TO GRID & LOCAL LOADS

SWITCHGEAR

AC/DC CONVERTERS

SWITCHGEAR

SWITCHGEAR

LICAP

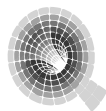
LICAP Technologies is a pioneer in Activated Dry Electrode® (ADE) technology and advanced high-power energy storage solutions. Its solvent-free, roll-to-roll platform enables more efficient, scalable and sustainable electrode manufacturing across lithium-ion, sodium-ion, solid-state batteries and ultracapacitors. Combining materials, electrode, manufacturing and equipment expertise, LICAP supports applications ranging from AI data centres and grid infrastructure to electric mobility and energy storage, while delivering high-power, fast-response and long-cycle solutions from electrodes to complete systems.



Energy Storage Rights is an energy storage innovator developing OLPHEs (One Lake Pumped Hydro Energy Storage), a modular and scalable pumped-hydro technology designed to expand energy storage opportunities using a single reservoir. Its innovative system uses a buoyant platform, pumps and turbines to store and release energy, with potential applications in mining pit lakes, reservoirs, gulfs and offshore environments. When combined with floating solar, the technology can transform existing water bodies into renewable energy assets with dispatchable storage capabilities, while offering additional potential benefits such as reduced water evaporation and improved water quality through aeration. By rethinking conventional pumped-hydro configurations, Energy Storage Rights aims to unlock more flexible and cost-effective approaches to large-scale energy storage and renewable energy integration.

BIG HILL

Big Hill Industries is an energy and industrial infrastructure developer advancing an approximately 5,600-acre site in Matagorda County on the Texas Gulf Coast. The company is developing an integrated platform for power generation, water supply, and industrial growth, while exploring opportunities in energy storage and LNG infrastructure. Drawing on the site's land, water resources, salt-dome geology, and existing industrial and marine infrastructure, Big Hill aims to support growing demand for reliable energy and essential resources. Through strategic partnerships, the company seeks to bring together engineering expertise, investment, and industrial customers to build long-term infrastructure capacity and support regional economic development.

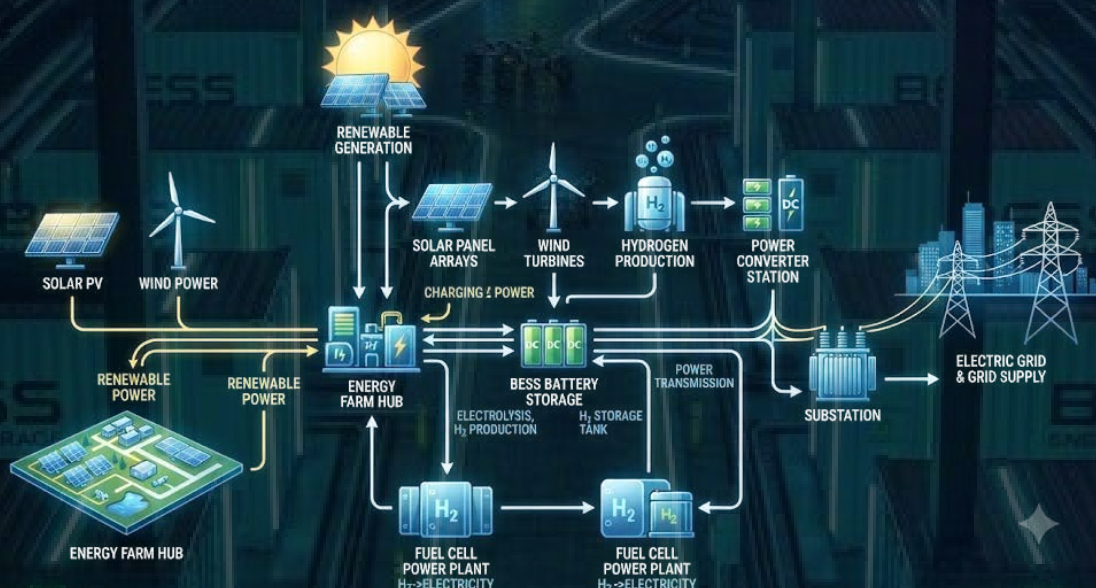


QUANTUM
POWER ASIA PTE LTD

Quantum Power Asia is a Singapore-headquartered clean energy infrastructure developer, investor and operator established in 2014, with its principal development operations in Indonesia. The company specialises in originating, developing, structuring and financing large-scale clean energy projects across Southeast Asia, spanning utility-scale solar, battery energy storage systems (BESS), industrial decarbonisation and cross-border electricity supply. By integrating renewable generation with energy storage and transmission infrastructure, Quantum Power Asia aims to deliver reliable, commercially viable clean power for industrial customers, utilities and regional energy markets. Its flagship development includes a proposed Indonesia-to-Singapore clean electricity project combining large-scale solar generation, battery storage and subsea transmission, reflecting its ambition to advance regional energy connectivity and strengthen long-term energy security.



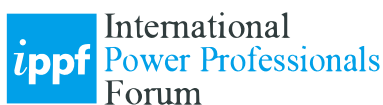
Singapore Methanol is a Singapore-based company focused on renewable methanol production and technology development. The company is exploring production opportunities in China and Southeast Asia, alongside port-based storage and distribution opportunities in Singapore & neighbouring countries. Its work spans feedstock sourcing, technology assessment, project development and support for research into fuel-origin verification. Serving the wider chemical, industrial and emerging maritime markets, Singapore Methanol aims to connect renewable resources with commercially viable production and dependable infrastructure, integrating sustainability and market requirements from the earliest stages of project development.



OFFICIAL TRAVEL PARTNER



SUPPORTING PARTNERS



MEDIA PARTNERS

