



Smart Energy, Sustainable Future



Singapore – IEA

Regional Training Programme on Connecting ASEAN: Advancing Energy Security through Subsea Interconnections

21-22 May 2026
Orchard Hotel, Singapore



Context

ASEAN has been advancing its vision for the ASEAN Power Grid (APG), marked by key milestones in 2025 including the announcement of the Enhanced APG MoU and the development of the ToR for the ASEAN Submarine Power Cable Development Framework.

Following a decade of collaboration between Singapore and the IEA on regional power sector capacity building and building on the momentum generated by the May 2025 training programme on Connecting ASEAN, the Energy Market Authority (EMA) and the International Energy Agency (IEA) are pleased to convene the 10th Singapore - IEA Regional Training Programme, with a focused lens on enabling subsea interconnections and cross-border Renewable Energy Certificates (REC) trade across the region.

This edition emphasises practical, implementation-focused enablers for advancing the ASEAN Power Grid and scaling regional electricity trade, bringing together energy policymakers, regulators, system operators, and industry stakeholders from across ASEAN member states.

In particular, the training focuses on two priority areas:

- Facilitating subsea interconnections in ASEAN: exploring governance and regulatory models for cross-border subsea links, including roles and responsibilities across jurisdictions, permitting and coordination, cost allocation and tariff treatment, risk management, and maintenance and operational coordination to ensure reliability over the asset life cycle.
- Enabling cross-border Renewable Energy Certificate (REC) trade: examining the building blocks of credible REC systems and regional interoperability such as alignment with national policies and targets, buyer requirements, and safeguards against double counting while sharing best practices and lessons learned from existing REC approaches.

Objectives & target audience

The primary objective of the training is to facilitate dialogue and knowledge sharing between energy policymakers, regulatory authorities and industry professionals from across Southeast Asia and beyond, fostering stronger collaboration on power sector connectivity and regional electricity trade.

The training aims to deepen shared understanding of regulatory, governance, technical and financial requirements for advancing the APG, with particular emphasis on subsea interconnections and cross-border REC systems. Through expert knowledge sharing and peer exchange, participants will identify concrete policy and regulatory actions to enhance investment certainty, operational reliability, and market transparency, while ensuring that regional trade contributes to energy security, affordability and decarbonisation objectives.

A further objective is to translate strategic ambitions into implementable steps. The programme seeks to surface common bottlenecks, highlight replicable best practices, and foster sustained dialogue across institutions. The expected outcome is a clearer set of regional priorities and practical follow-up pathways that can support ASEAN's evolving cross-border electricity market architecture.

The training is designed for mid- to senior-level officials and practitioners from across Southeast Asia who are directly involved in power sector planning, regulation, and market development. This includes representatives from energy ministries, regulatory authorities, transmission system operators, market operators, and agencies responsible for renewable energy certification and tracking systems.

The programme also welcomes participation from regional institutions, development partners, and industry stakeholders engaged in cross-border infrastructure investment, subsea cable development, and corporate renewable procurement. By convening policymakers, regulators and market actors in the same forum, the training seeks to foster informed dialogue across the full ecosystem required to operationalise regional interconnection and REC trade in ASEAN.

Format

Across sessions, the programme prioritises peer learning and candid dialogue, combining expert presentations with moderated discussions, interactive polling and Q&A, and breakout exercises designed to translate lessons into actionable insights that participants can adapt to their own national and regional contexts.

Agenda

Day 1 – 21 May

8:30 – 9:00	<i>Arrival of participants and registration</i>
9:00 – 9:20	Opening Remarks <ul style="list-style-type: none">Ms. Agnes Koh, Deputy Director of External Relations, Energy Market Authority SingaporeMs. Sue Ern-Tan, Head of IEA Regional Cooperation Centre - Singapore
9:20 – 10:00	Introductory Presentations: <ul style="list-style-type: none"><i>Scene-setting: Subsea interconnection in ASEAN Power Grid</i> Ms. Shani Nadhilah, Head of the Power Generation and Interconnection Department, ASEAN Centre for Energy<i>Financing ASEAN Interconnectors</i> Mr. Yinglun Teng, Energy Analyst, International Energy Agency
10:00 – 10:30	<i>Group photo & Coffee break</i>
10:30 – 12:00	Session 1: Subsea interconnections: Governance Architecture <p><i>Session objective: Examine the regulatory, institutional and financial enablers required to move subsea interconnections in ASEAN from concept to bankable implementation.</i></p> <ul style="list-style-type: none"><i>Creating the Enabling Environment for Cross Border Electricity Trade: Subsea Cable Power Projects in ASEAN & the Regulatory Architecture</i> Ms. Georgie Skipper, CEO, Lucetia Group<i>Governance Architecture for Subsea Interconnectors</i> Ms. Sandra Seah, Partner & Co-Head of Energy & Utilities, Bird & Bird<i>Cost Allocation and Tariff Design - Guidelines on Transmission Pricing and Cost Allocation for Regional Power Trade</i> Mr. Yussuf Uwamahoro, Lead Energy Specialist, World Bank<i>Interconnectors, risk and regulatory certainty: An Australian case study</i> Mr. Michael Brothers, Director – Reset Coordination and Strategy, Australian Energy Regulator <p>Panel discussion and moderated Q&A</p>

	Moderator: Ms. Esra Bozkir Broekman, Electricity Markets and Regulation Analyst, IEA
12:00 – 13:30	<i>Lunch break</i>
13:30 – 15:00	<p>Session 2: APG Cross-border Implementation Framework</p> <p><i>Session objective: Provide participants with a framework to identify priority actions to undertake cross-border power trade covering subsea and overhead power interconnectors from financing/commercial; regulatory; governance and technical perspectives.</i></p> <ul style="list-style-type: none"> • Subsea cable project preparation financing Ms. Architrandi Priambodo, Asian Development Bank • APG Cross-border Implementation Framework – Coordination arrangement and country enablers Mr. Peerapat Vithayasrichareon, Senior Energy Analyst, IEA • Break-out session: Participants will gather in groups for a dedicated discussion on country-level enablers and cooperation arrangements to support cross-border power trade across key dimensions: Technical, Regulatory, Governance and Finance/commercial <p>Moderator: Mr. Yinglun Teng, Energy Analyst, IEA</p>
15:00 – 15:30	<i>Coffee break</i>
15:30 – 17:00	<p>Session 3: Operational Coordination and Maintenance in subsea interconnected systems</p> <p><i>Session objective: Shift from project development to long-term reliability and system security, examining how ASEAN operators can align protocols across borders. The session will also highlight a forward-looking dimension: the data-sharing architecture that enables reliable cross-border power flows and contribute to credible REC trade.</i></p> <ul style="list-style-type: none"> • Construction and maintenance of HV subsea interconnectors Mr. Maxime Touloutte, Markets & New Solutions Director, Nexans • Optimising cost exposure from planned and unplanned maintenance through cross-project coordination Mr. Philip Napier-Moore, Energy Leader Asia, Mott MacDonald • Institutional coordination between system operators Ms. Stella Westphal, Ms. Stella Westphal, Team Lead, European Offshore Development 50Hertz/ Elia Group

	<ul style="list-style-type: none"> • Major risks to subsea power cables infrastructure and potential mitigations Mr Ken Chung, Manager, Power Grid Assets Asia, Energy Systems, DNV <p>Moderated Dialogue, Q&A</p> <p>Moderator: Mr. Peerapat Vithayasrichareon, Senior Energy Analyst, IEA</p>
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17:00 – 19:00 *Networking Reception*

Day 2 – Cross-Border RECs

09:00 – 10:30	<p>Session 4: Cross-Border RECs: Market Design, Credibility and Regional Harmonisation</p> <p><i>Session objective: Build on Day 1’s operational infrastructure discussions by exploring the market mechanisms that give cross-border interconnections commercial value for renewable energy trade. The session covers demand signals driving REC market development in ASEAN, the international standards and national frameworks that could support cross-border RECs, the policy and regulatory gaps across the region, and the relationship between RECs and carbon credits in corporate net-zero strategies.</i></p> <ul style="list-style-type: none"> • Market Signals for Regional Trade: How cross-border RECs can support APG vision Mr. Matthew Wittenstein, Chief, Energy Connectivity Section, Energy Division, UNESCAP • Regional frameworks for cross-border REC in ASEAN – policy and regulatory gaps Ms. Tharinya Supasa, Head of Sustainable and Renewable Energy Department, ASEAN Centre for Energy • Credible Cross-Border Electricity Trade: International Standards, Singapore’s CBET REC Framework, and Corporate Procurement Confidence Mr. Henry Eu, Head of Policy & Development (Southeast Asia), Asia Clean Energy Coalition • RECs, Carbon Credits and Corporate Net Zero Claims Ms. Tara Caemmerer, Director, Corporate Development & Strategy, Climate Impact X <p>Panel Discussion and Q&A</p> <p>Moderator: Mr. Philippe Rose, Senior Energy Analyst, IEA</p>
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10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:30	<p>Session 5: Facilitated Dialogue: ASEAN Pathways for Cross-Border REC Cooperation</p> <p>Objective: Convert the day's learning into a concrete regional action agenda. Drawing on international experiences, participants identify the most critical gaps and the most tractable next steps – at both national and regional level – for advancing cross-border REC frameworks across the region.</p> <ul style="list-style-type: none"> • <i>Framing: Synthesising the previous session's key insights and posing three structured questions for the breakout groups.</i> • Breakout session- <i>Participants will gather into 3 groups to identify: Domestic barriers; Regional harmonisation priorities</i>
12:35 – 12:45	<p>Wrap-up and closing Remarks</p> <ul style="list-style-type: none"> • Ms Agnes Koh, Deputy Director of External Relations, Singapore Energy Market Authority