



SETTING THE SCENE

7th CEFIA Forum

Kobe, Japan

13 February 2025

Presented by:

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ASEAN Centre for Energy

Discussion points

- Review of 6th CEFIA Forum
- Direction from 21st AMEM+3
- Updates on APAEC Phase II: 2021-2025
- APAEC Post 2025
- Proposals for regional collaborations

Review of 6th CEFIA Forum



Overview

- 23 July 2024, at The Sukosol Bangkok Hotel, Thailand
- Organized by: DEDE (Thailand), METI (Japan), ACE, BCG
- Attendees: 73 participants from 8 ASEAN countries + Japan & Korea

Highlights

- Shared the APAEC Phase II implementation progress.
- Discussions about flagship projects, decarbonization technologies and initiatives, cross-cutting projects, best practices for financial instruments and de-risking mechanisms.
- AMS expected public-private sector collaboration activities to focus more on:
 - ❖ Capacity Building Activities and Best Practices Sharing Knowledge,
 - ❖ Development of Pilot Projects and Technology Transfer
 - ❖ Policy Framework Assessment and Development
- Topics to explore: Electric vehicles, Fuel economy, Green financing, Hydrogen fuel ammonia, Technology deployment incentives, Blended finance mechanisms, Grid interconnections, Building energy codes



6th CEFIA Forum in Bangkok, Thailand

21st AMEM+3: Comments and outcomes



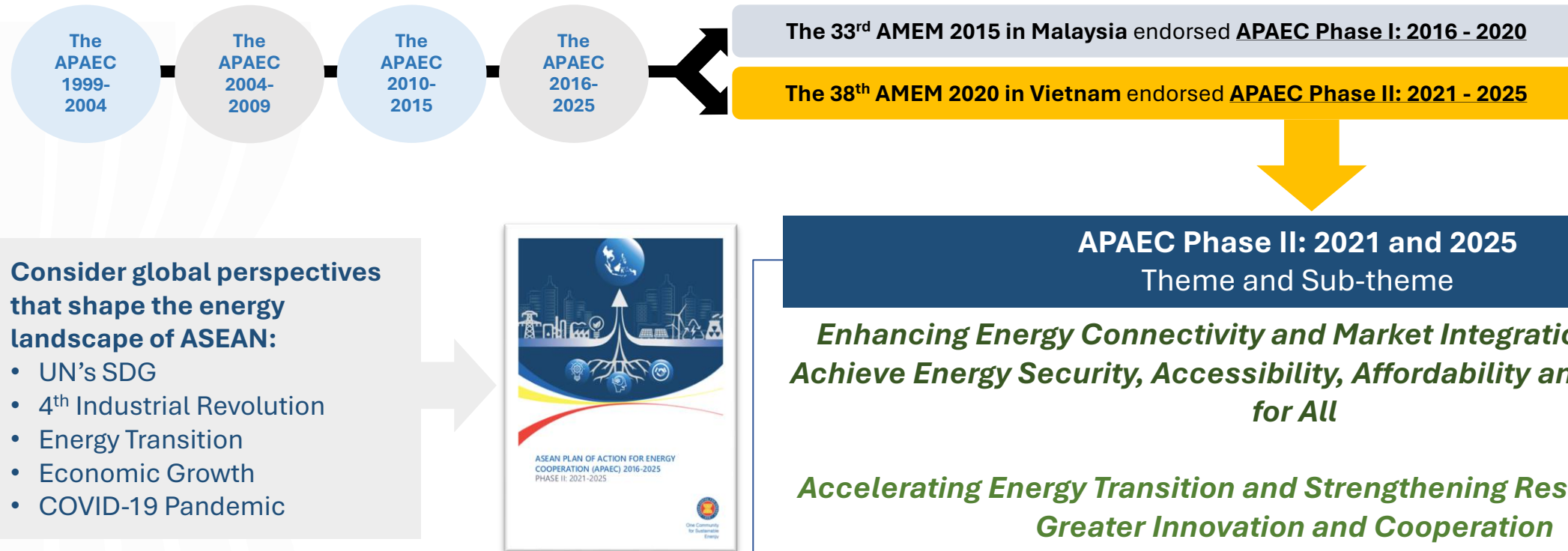
- Acknowledged the conduct of 6th Government-Private Forum of CEFIA on 23 July 2024 in Bangkok, Thailand
- Recognised the significant progress made in CEFIA's flagship projects and highlighted the increasing involvement of the private sector in supporting the adoption of decarbonisation technologies and initiatives. Encouraged continuation of CEFIA's flagship projects
- Underscored the critical role of CEFIA as a pivotal platform for mobilising transition financing and further encouraged both public and private sector investment in energy transition projects
- Encouraged the alignment of CEFIA flagship projects with the new APAEC post-2025.
- Encouraged ASEAN+3 to strengthen collaboration particularly in:
 - ❖ Innovative financing solutions for clean energy technologies;
 - ❖ Grid stability and efficiency through advanced smart grid and energy storage solutions;
 - ❖ Energy efficiency in end-use sectors and urban planning;
 - ❖ Emerging clean energy technologies such as green hydrogen.



APAEC Phase II: 2021- 2025 2024 Implementation

The ASEAN Plan of Action for Energy Cooperation (APAEC)

The ASEAN Plan of Action for Energy Cooperation (APAEC) is a regional blueprint documents that aims to promote multilateral energy cooperation and integration to attain the goals of the ASEAN Economic Community (AEC). It serves as the platform for deeper cooperation both within ASEAN as well as with Dialogue Partners (DPs) and International Organisations (IOs) towards enhancing energy security, accessibility, affordability, and sustainability within the framework of the AEC.



The APAEC Phase II: 2021-2025 consists of seven programme areas, reflecting the focus and interests of the region on energy cooperation



1. ASEAN Power Grid (APG)

To expand **regional multilateral electricity trading**, strengthen **grid resilience and modernisation**, and promote **clean and renewable energy integration**.



5. Renewable Energy (RE)

To increase the share of RE to **23% in TPES** and **35% in installed power capacity by 2025**



2. Trans-ASEAN Gas Pipeline (TAGP)

To pursue the **development of a common gas market for ASEAN** by enhancing gas and LNG connectivity and accessibility.



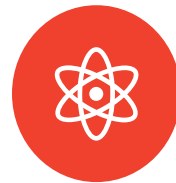
6. Regional Energy Policy and Planning (REPP)

To **advance energy policy and planning** to accelerate the region's energy transition and resilience



3. Clean coal technology (CCT)

To optimise **the role of CCT in facilitating the transition** towards sustainable and lower emission development.



7. Civilian Nuclear Energy (CNE)

To **build human resource capabilities** on nuclear science and technology for power generation.



4. Energy Efficiency and Conservation (EEC)

To **reduce energy intensity by 32% by 2025** and encourage EEC efforts, especially in the sector of transport and industry,

Key Achievements of APAEC Phase II: 2021-2025

Incremental progress, substantial efforts and cooperation are needed to achieve regional goals by 2025



4.1 out of 5

Overall Scorecard of
APAEC Phase II: 2021-
2025 by December 2024



APG

9 out of 18

Bilateral interconnections

LTMS-PIP

Commenced in 2022



TAGP

48.5 MTPA

Regasification capacity in
11 terminals

13

Cross-border
Pipelines in 6 AMS



CCT

18 GW

CCT (SC & USC) installed
power capacity and 13
coal-biomass co-firing
plants.



EE&C

24.5%

Energy intensity
reduction as of 2022
based on 2005 levels



RE

15.6%

RE Share in TPES in 2022

33.6%%

RE share in installed
power Capacity in 2022



REPP

SOME-ADB

SOME-EU

Established in 2023

8th AEO

Published in 2024

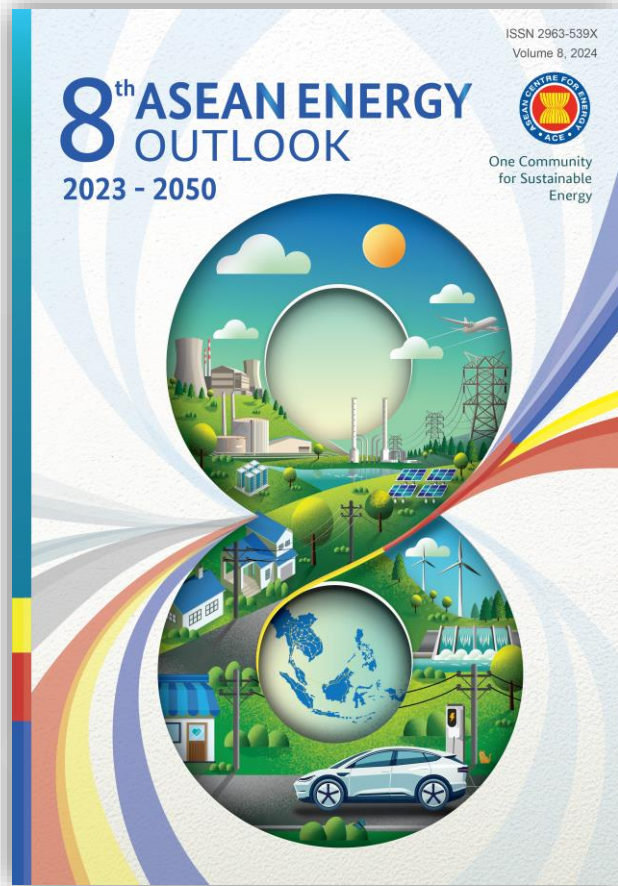


CNE

400

Policy maker trained
from 7 regional nuclear
capacity building
programme

8th ASEAN Energy Outlook



- The 8th edition presents a comprehensive analysis of the current state of ASEAN's energy landscape and offers projections for several plausible future scenarios.
- Endorsed by 42nd AMEM in Lao PDR, September 2024.
- The AEO8 serves a critical reference, gearing up towards the final year of **ASEAN Plan of Action for Energy Cooperation (APAEC) 2016-2025 Phase II (2021-2025)**, guiding the development of the new phase of APAEC 2026-2030, and monitoring the region's energy ambitions.

Historical data from 2005 - 2022 are projected out to 2023 - 2050 in four scenarios



“AEO8 is poised to serve not only as a guiding compass but also as a catalyst for the formulation of visionary regional targets and driving strategic energy policy development for the APAEC 2026-2030 and for a coming transformative decade”

DOWNLOAD HERE



go.aseanenergy.org/AEO8



Outcomes of 2024 Energy Priority Economic Deliverable/Annual Priorities* Under Lao PDR as Chair of 42nd SOME/AMEM



No.	Annual priorities	Status of Completion
1	Substantive Progress in Finalizing the Successor Agreement on the ASEAN Power Grid (APG) and Multilateral Power Trade in the Region	Fully completed
2	Substantive Progress in Finalizing the text of the New or Successor Agreement of the ASEAN Petroleum Security Agreement (APSA)	Fully completed
3	Protocol to Amend the Trans-ASEAN Gas Pipeline (TAGP MOU)	Fully completed
4	Enhance regional policies and regulations to support CCS/CCUS implementation in power and carbon-intensive sectors	Fully completed
5	Implement the LT RE Roadmap (1st year of implementation: focus on specific RE technologies/sources): Offshore Wind or Bioenergy	<i>Partially completed</i>
6	EE for Industry: Initiate the development of Energy Performance Benchmarks and Guidelines for Industry	Fully completed
7	8th ASEAN Energy Outlook	Fully completed
8	Enhance monitoring for ASEAN Power Grid Interconnectors Project and attract more support from DPs/IOs	Fully completed

*As reported during Special SOME 2025 in Langkawi, Malaysia

Endorsed 2025 Energy Priority Economic Deliverable/Annual Priorities*



Under Malaysia as Chair of 43rd SOME/AMEM

1. Signing of APG Enhanced MoU (PED Output)
2. Announcement of the APG Financing Facility
3. Signing of APSA Successor Agreement
4. Launching of ASEAN Energy Efficiency Database and Investment Platform (Building)
5. Finalisation of RE Long-term Roadmap (continuation from 2024 AP)
6. Initiate ASEAN Renewable Energy Certificate (REC) Framework
7. Endorsement of APAEC 2026–2030 (PED Output)
8. Initiate Nuclear Power Plant Deployment (NPP) Framework

*As reported during Special SOME 2025 in Langkawi, Malaysia



Post 2025 APAEC Timeline

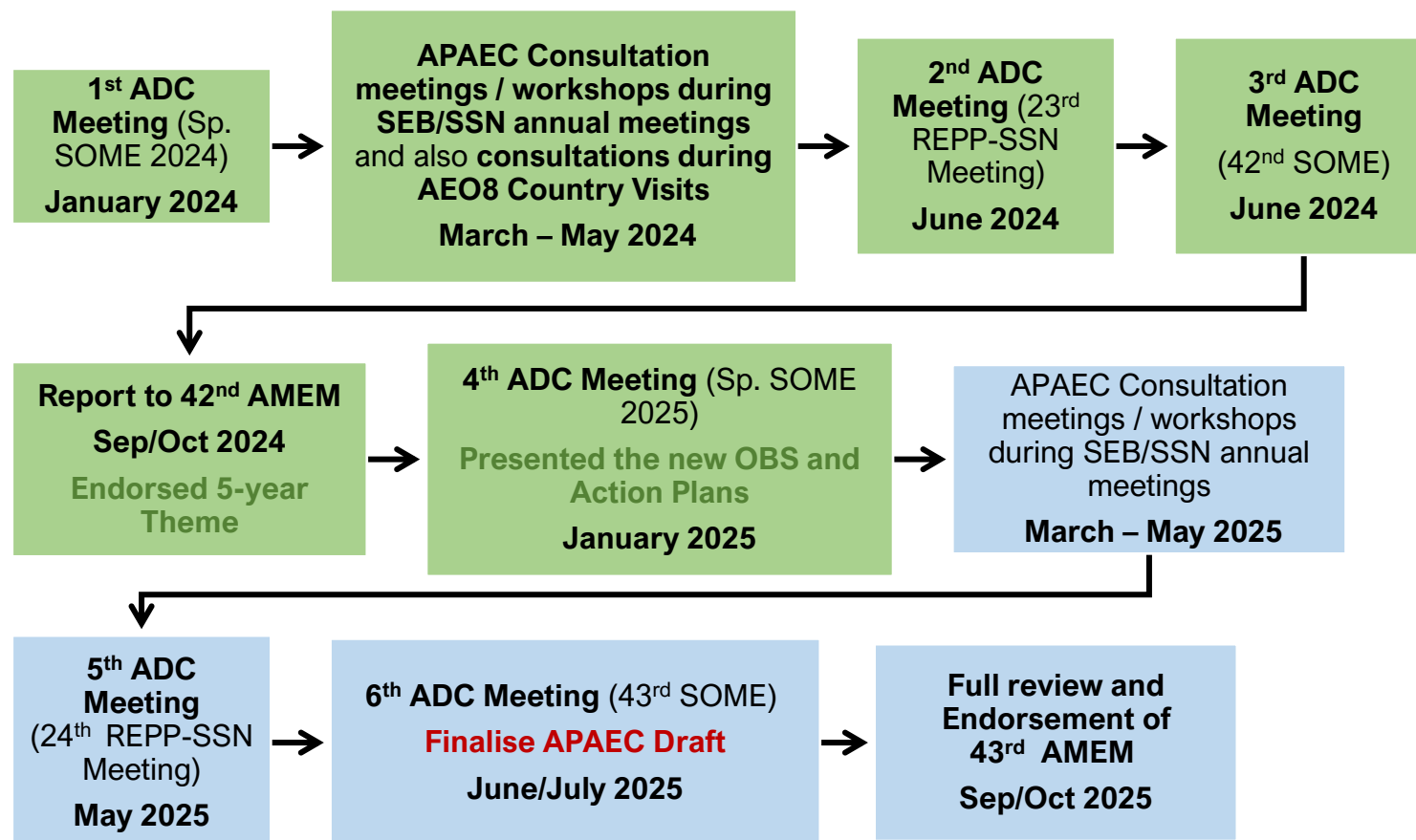
Progress of APAEC Post-2025 (2026 – 2030) Development



Highlights

- The **development of APAEC Post-2025 began in early 2024**, with 3 ADC Meetings and multiple consultations (with AMS and external) organised.
- As the APAEC Secretariat, **ACE has been supporting ADC Members** in this process.
- The 5-year theme, "*Advancing Regional Cooperation in Ensuring Energy Security and Accelerating Decarbonisation for a Just and Inclusive Energy Transition*," was endorsed at the 42nd AMEM.
- The 20-year theme, "*Secure, Resilient, and Interconnected Low-Carbon ASEAN Energy Future*," endorsed during Special SOME 2025

Timeline of APAEC Development



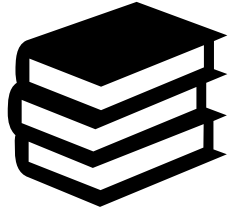


Proposals for Regional Collaborations

Suggestion For Regional Collaborations With Support From Private Sectors



To build stronger regional partnerships, private sector involvement, and capacity building



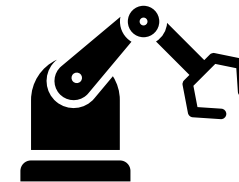
Study, research, policy brief for relevant topics in the region



Match-making event between stakeholders



Capacity building, training, technology transfer



Technology introductions & trials, site visits for capacity building



ASEAN Centre for Energy
One Community for Sustainable Energy

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those are available for download from:

aseanenergy.org/publications



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Thank You