



METI

Ministry of Economy, Trade and Industry



CEFIA
Cleaner Energy
Future Initiative
for ASEAN
ASEAN+3

Overview of CEFIA (Cleaner Energy Future Initiative for ASEAN)

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About CEFIA

- ◎ **CEFIA (Cleaner Energy Future Initiative for ASEAN)** is a public-private initiative for the introduction of clean energy such as energy conservation and renewable energy in the ASEAN region. In September 2019, Japan proposed this initiative and its establishment was welcomed at the 16th ASEAN+3 Energy Ministers Meeting.
- ◎ Under CEFIA, ASEAN countries will promote the development of a clean energy-related business environment in the region through the implementation of **energy efficiency and renewable energy (flagship projects)** in collaboration with the public and private sectors.
- ◎ CEFIA's activities are reported and discussed at the annual CEFIA Public-Private Forum. Progress is reported to the ASEAN+3 Energy Ministerial Meeting every year.
- ◎ **Seven public-private forums** have been held to date.

Past CEFIA Forums



4th CEFIA Forum
February 16, 2023
Cebu, Philippines



5th CEFIA Forum
August 25, 2023
Bali, Indonesia



6th CEFIA Forum
July 23, 2024
Bangkok, Thailand

7th CEFIA Public-Private Forum

- ◎ On February 13, 2025, the 7th CEFIA Public-Private Forum was held **for the first time in Japan (Kobe)**.
- ◎ State Minister of Economy, Trade and Industry Ogushi and ACE Executive Director Dato' Ir. Ts. Razib Dawood delivered opening remarks via video message. Participants from Japanese and ASEAN governments, businesses, financial institutions, and other stakeholders reported on the progress of their activities.
- ◎ Japan's hydrogen and ammonia policy was introduced, and **"Hydrogen and Ammonia" was launched as a new flagship project**. Furthermore, Japan's advanced technologies and initiatives—**perovskite solar cells, CCUS, and transition finance**—were presented, leading to active discussions on the future direction of public-private partnerships.

7th CEFIA Forum



Opening Session



Group photo after the forum

7th CEFIA Public-Private Forum --- Excursion ---

- ◎ Following the forum, METI arranged opportunities for ASEAN government officials to **tour hydrogen and ammonia facilities in the Kansai region** and network with Japanese companies.
- ◎ The locations visited:
 - Kawasaki Heavy Industries, Kobe Plant
 - IHI Aioi Plant
 - Mitsubishi Heavy Industries Takasago Hydrogen Park

Excursion to Hydrogen and Ammonia Facilities



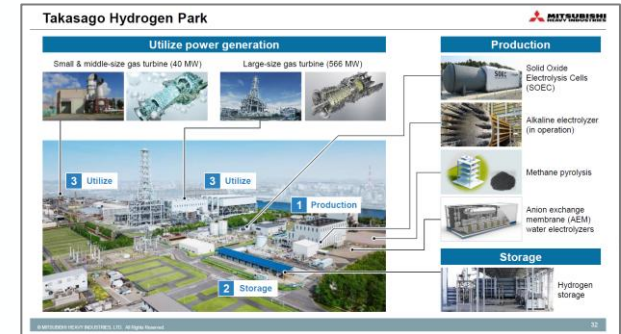
Kawasaki Heavy Industries
Embarking on the liquefied hydrogen
carrier



Large-scale ammonia supply system



IHI
Tour Ammonia-Fueled Gas Turbine
Test Site



Mitsubishi Heavy Industries
Tour the hydrogen production, storage,
and utilization chain at Hydrogen Park



Strengthening Collaboration between AZEC and CEFIA

- **The Asian Zero Emissions Community (AZEC)** was proposed by then Prime Minister Kishida in his policy speech in January 2022, with the objective of Asian countries working together to advance energy transition.
- AZEC will utilize Japanese technology and finance **to steadily promote decarbonization in Asia in a realistic manner through various pathways tailored to each country's circumstances.**
- Ministerial and summit meetings have been held in 2023 and 2024, and **CEFIA's efforts have been welcomed by the AZEC.**
- As part of our collaboration with AZEC, this forum is **held concurrently with the AZEC Ministerial Meeting and other related events.**

AZEC Leaders' Joint Statement (October 11, 2024)

4 Collaboration with related meetings and initiatives

We will collaborate with various meetings and initiatives such as Asia Energy Transition Initiative (AETI), Cleaner Energy Future Initiative for ASEAN (CEFIA), the Asia GX Consortium, Strategic Program for ASEAN Climate and Environment (SPACE), ASEAN-Japan Transport Partnership (AJTP), the ASEAN-Japan Smart Cities Network High Level Meeting, and ASEAN-Japan MIDORI Cooperation Plan.

AZEC Leaders' Joint Statement Action Plan for the Next Decade October 11, 2024, Vientiane

3 pillars

1. Develop a short- to medium-term action plan to facilitate AZEC solutions
2. Sectoral initiatives
3. Promoting tangible projects

Timetable of 3rd AZEC Ministerial Meeting

	16 th October	17 th October	
AM	<u>ASEAN Sparks</u> 8:00-14:00 @KLCC	<u>Opening Remarks</u> <u>for AZEC Sparks/AZEC Business Forum/CEFIA</u>	
		<u>AZEC Business Forum</u> 09:30-12:30 @KLCC	
		<u>Lunch</u> 12:45-14:30 @KLCC	
		<u>MOU Ceremony</u> (relevant ministers) 14:45-15:15 @Hyatt Hotel	<u>CEFIA</u> 14:45-18:30 @KLCC
PM		<u>3rd AZEC Ministerial Meeting</u> (all ministers) 15:30-17:30 @Hyatt Hotel	
		<u>Press Conference</u> (Malaysia, Japan, Philippines) 17:45-18:00 @Hyatt Hotel	

CEFIA Flagship Project Reorganization

Name	Outline	Participating Organizations	After Review and Reorganization
Hydrogen, Ammonia	Launched as a new flagship at the 7th Forum. Promotes hydrogen and ammonia production, transportation, and co-firing and mono-firing technologies.	- Japan Hydrogen Association (JH2A) - Clean Fuel Ammonia Association (CFAA)	Continue activities
ZEB (Zero Energy Building)	This group supports activities such as raising awareness of the ISO technical specification (TS23764), creating an environment for access to products and technologies, and materializing a demonstration project in Malaysia.	Japanese Business Alliance for Smart Energy Worldwide(JASE-W).	Continue activities
RENKEI (Energy Management)	RENKEI is a control technology that uses IoT to reduce energy consumption throughout power plants and business sites.	Japan Electronics and Information Technology Industries Association (JEITA)	Concluded activities with successful outcomes
Microgrid	Support for efforts to introduce micro-grid systems that integrate multiple renewable energies from wind and solar power generation and storage batteries.	- Kyushu Electric - Furukawa Battery	Continue activities
SteelEcosol (Iron and Steel Eco Solutions)	Creation of technology lists, public-private dialogue and energy audits of steel mills to promote the adoption of Best Available Technology (BAT) .	Japan Iron and Steel Federation	Continue activities
Biochar	Conducted a webinar to raise awareness of the technology to store CO2 as biochar during gasification of biomass.	Forest Energy	Expanding Biochar into "Biomass." The lead organization has changed to JCOAL.
High-efficiency air conditioning	Conduct awareness and dissemination activities (seminars, etc.) of high-efficiency air conditioning, which provides the same level of comfort as before even at higher temperature settings.	Daikin	Concluded activities as an individual flagship (Continue as part of ZEB)
Finance	Identify the needs of local financial institutions, organize seminars, and support the formulation of financial instruments for the introduction of decarbonization technologies.	Asia-Pacific Development Finance Institutions Association (ADFIAP)	Continue activities

The Future Direction of CEFIA

- ◎ Aligning with the **needs of ASEAN countries**, expand and review areas of activity accordingly.
- ◎ Working to expand **networks** and strengthen **connections** with various entities within ASEAN.
- ◎ Contribute to the **ASEAN Plan of Action for Energy Cooperation (APAEC) 2026-2030** phase.
- ◎ Strengthen collaboration with AZEC and other initiatives such as **Malaysia – Japan Environment Week** and **COP30**. And will achieve energy transition in a realistic manner, ensuring various pathways.



*Your input and feedback is crucial
as we approach our 10th anniversary!*