

# Overview of CEFIA and Report for Fiscal Year 2022

**August 25, 2023**

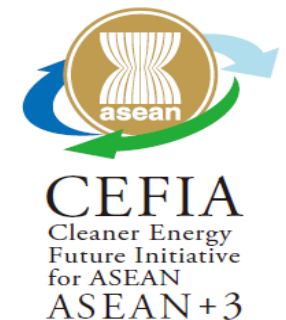
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## ***Cleaner Energy Future Initiative for ASEAN***

- Launched at the **16th ASEAN+3 Energy Ministerials** in September, 2019
- A Public and Private initiative for accelerating the deployment of cleaner energy and decarbonization technologies, contributing to **energy transition and decarbonization in the ASEAN region**
- 3 Key Pillars:
  - (1) **Decarbonizing Technologies** (energy efficiency, renewables, etc.)
  - (2) **Institutional Arrangements** (policy framework, standardization, etc.)
  - (3) **Finance** (SDGs, ESG, local financial institutions, etc.)
- Align and collaborate with 3 programs under **the ASEAN Plan of Action for Energy Cooperation (APAEC) Phase II (2021-2025)**
  - No. 4 Energy Efficiency and Conservation
  - No. 5 Renewable Energy
  - No. 6. Regional Energy Policy and Planning
- Provide **Capacity building support through Flagship projects**



# CEFIA Government-Private Forum



- 4 annual Government-Private Forums have been successfully held since 2019. (2019 (host: Philippines), 2021 (host: Thailand, online), 2022 (host: Malaysia, online))
- **The 4th CEFIA Government-Private Forum (February 16 in Cebu, Philippines)**

Host : Department of Energy, Government of the Philippines

Audience : 26 speakers/panelists, 76 attended in-person, 35 views on Facebook Live

Attendee: ASEAN Center for Energy (ACE), Governments and private companies from Japan and ASEAN countries, ADB, ADFIAP

Program: Introduction of CEFIA's activities

Discussions on cross-cutting efforts such as Mobilization of finance, Visualization of GHG emission reductions, Entrepreneurship for Cleantech, CEFIA's future directions

## **TODAY: The 5<sup>th</sup> CEFIA Government Private Forum**

Hold back-to-back with ASEAN Energy Business Forum (AEBF) on August 25th, 2023, in Bali, Indonesia.

# Flagship projects

Title	Purpose	Activities
<b>ZEB</b>	Promoting and developing <b>the Net-Zero Energy Building (ZEB)</b> to contribute to the acceleration of energy efficiency in the demand side in ASEAN.	<ul style="list-style-type: none"> <li>➤ International Standardisation</li> <li>➤ Seminar and workshop</li> <li>➤ Demonstration project in Malaysia</li> </ul>
<b>RENKEI</b>	Disseminating <b>control optimisation (RENKEI) to reduce energy consumption throughout utility plants and manufacturing plants through IoT.</b>	<ul style="list-style-type: none"> <li>➤ Feasibility Study for Thailand Industry</li> <li>➤ Workshop</li> <li>➤ Capacity Building</li> </ul>
<b>SteelEcosol</b>	Diagnosing and introducing <b>the best available energy-saving technologies (BAT) to the steel industries.</b>	<ul style="list-style-type: none"> <li>➤ Capacity Building</li> <li>➤ Public-Private Dialogue</li> <li>➤ Steel plant diagnosis</li> </ul>
<b>Finance</b>	Activities for <b>mobilizing finance</b> to facilitate energy transition and decarbonization in ASEA.	<ul style="list-style-type: none"> <li>➤ Survey local financial institutions</li> <li>➤ Capacity Building for local financial institutions (webinar)</li> </ul>

➤ Candidates of new Flagship projects proposed at 4<sup>th</sup> CEFIA Forum (February, 2023)

Title	Presenter
<b>Carbon Neutrality solution: Healthy and Energy Efficient AC system for ASEAN market</b>	Daikin Industries, Ltd.
<b>DENSO "Lean &amp; Clean" Factory toward Carbon Neutrality</b>	Siam DENSO Manufacturing Co., Ltd.
<b>CO2 Neutral Energy + Carbon Sink using Local Biomass</b>	Forest Energy Inc.
<b>Development of Clean Ammonia Value Chain</b>	IHI Corporation

New FP

New FP

# Ideas for New Flagship Project

Title	Presenter
Energy Efficiency in Data Centre	NTT Ltd.
Smart Transport	Zenmov Inc.
Next Generation Solar Cell Development: Perovskite-type Solar Cell	Sekisui Chemical Co., Ltd.
Hydrogen Production through Water Electrolysis Using Power from Renewables	Hitachi Zosen Corporation

**We are always open for  
new ideas from ASEAN!!**

# Activities for Cross-Cutting Area

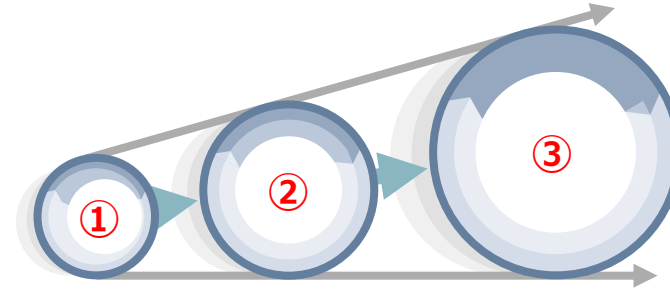
## ➤ Finance

- Activities for mobilizing finance to energy transition/decarbonizing projects in ASEAN
  - Identifying the needs of local financial institutions
  - Seminars and Workshops
  - **Development of the potential projects**

## ➤ Visualization of GHG emission reductions in decarbonizing technologies/projects

- Contribute to securing of climate finance as disclosure of climate mitigation impact
- CEFIA aims for visualizing GHG emission reductions estimations at 3 stages:

- ① **Individual technology/project**
- ② **Country-wide**
- ③ **ASEAN region-wide**



## ➤ Cleantech innovation and entrepreneurship for MSMEs and start-ups

- Support **the cleantech innovation and entrepreneurial ecosystem for Micro, Small & Medium Enterprises (MSMEs) and start-ups through GCIP program of UNIDO**
  - Development of methodologies, tools, training systems, guidebooks
  - Policy analysis, capacity building and knowledge sharing for innovation and entrepreneurship
  - Enhancement of linkages, networks and connectivity
- **Planning to expand the coverage of the program from current 3 AMS (Viet Nam, Cambodia, Indonesia) to 10 AMS in cooperation with ACE**

Thank You!!



**CEFIA**  
Cleaner Energy  
Future Initiative  
for ASEAN  
ASEAN+3