



# Cleaner Energy Future Initiative for ASEAN (CEFIA)

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# **Key components of CEFIA**

 CEFIA (Cleaner Energy Future Initiative for ASEAN) is an initiative to facilitate collaboration between the public and private sectors for accelerating the deployment of cleaner energy and decarbonization technology in the ASEAN region.

# Finance

Linking projects with the Sustainable Development Goals, and attracting ESG investments



# <u>Decarbonization</u> Technology

Utilizing cleaner energy technology and decarbonization technology

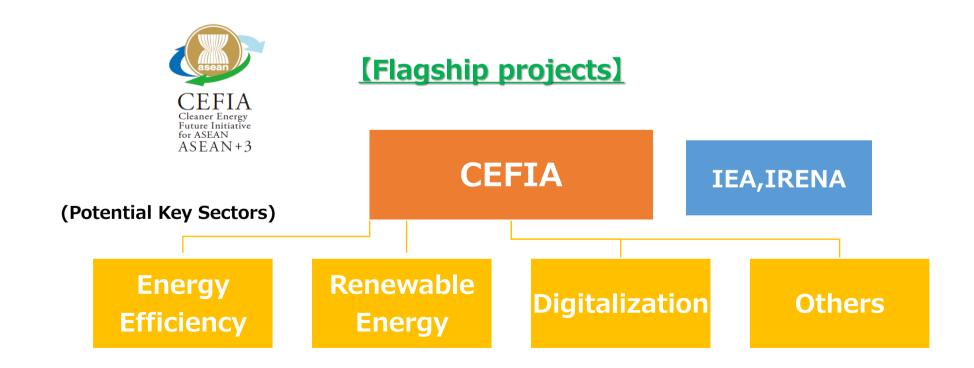
# <u>Institutions</u>

Developing and improving policy and institutional framework required for introduction and deployment of cleaner energy technology and decarbonization technology



# Flagship projects

- Showcase good practices of cooperation in introducing technology in parallel with developing appropriate policy and institutional framework, as well as mobilizing public and private finance
- Demonstrate active cooperation and collaboration among governments/governmental agencies, private sectors, and academia
- Call for more ideas of potential cooperation and move forward toward Cleaner Energy Future of ASEAN

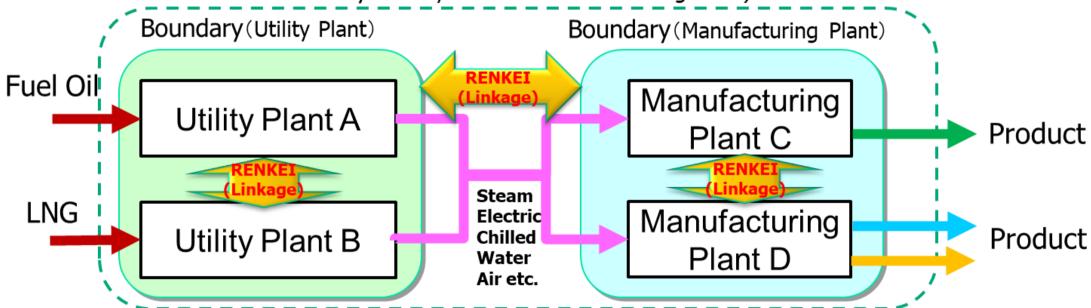


# Introduction of CEFIA Flagship (RENKEI)

#### What is **RENKEI** Control?

- to solve customer management issues (environmental problems) as well as energy saving (cost saving)
- to link multiple devices and equipment and improve total performance
- to realize significant energy savings by expanding the optimization range from a single equipment to multiple equipment.

Boundary (Utility Plant and Manufacturing Plant)



Compared to H/W approaches (replacement with high-efficiency equipment), **RENKEI** approaches are "Short construction period", "Less investment", "highly cost-effective" – Quick-Win Approach

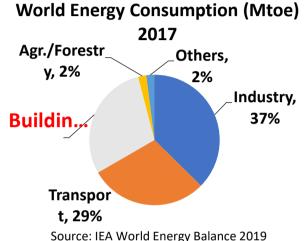
Will Contribute ASEAN GHG reduction target under the Paris Agreement

# Introduction of CEFIA Flagship (ZEB)

# CEFIA Flagship (ZEB) collaborates with activities for promotion of ZEB

# **Toward ZEB (Zero Energy Buildings)**

The current energy efficiency measures cannot achieve COP21 requirements for reduction of global warming gas. The more drastic measures have to be implemented.



### Step by step approach to ZEB

# ZEB Ready

Significant energy saving more than 50%

from reference point

# **Nearly ZEB**

Net energy saving not reach 100%

**But more than ZEB Ready** 

# (net)ZEB

Net energy saving of

**100%** or more

**Including Renewable energy** 

#### **Public-Private Collaborations**

#### **International Standardization**

TS 23764``An Approach for non-residential Zero Energy Buildings` is now proceeding to CD ballot @ Moscow in the end of Sept. 2020

#### **Seminar and workshop**



Japanese Business Alliance for Smart Energy Worldwide





Oct. 2019@Bangkok

July 2019@Legazpi Oct. 2019@Manila

Workshop (Webinar) is planning in Vietnam and Indonesia in 2020

#### **ASEAN Energy Awards**

ZEB Ready Award has been added to ASEAN Energy Awards since 2019 for promoting Step by step approach to ZEB among the ASEAN members states

# Facilitation of finance

# Short- and medium-term action plans for two areas for facilitation of finance:

# i) Enhancing regional capabilities

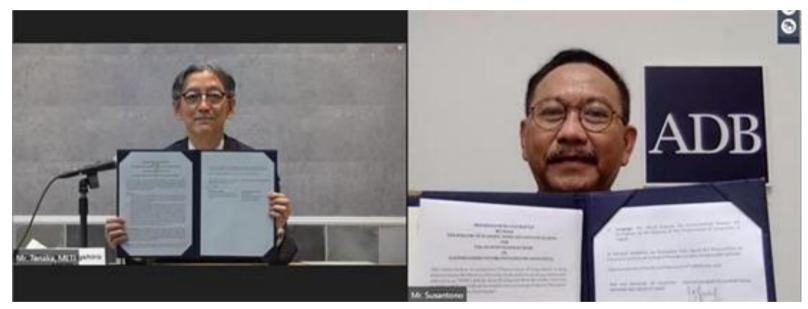
- Enhancing capability of ASEAN local financial institutions (FIs) in the area of cleaner energy project risk assessment and valuation; and,
- Enhancing the capability of ASEAN local FIs for implementation of finance or investment to decarbonization projects (energy efficiency and renewable energy, etc.)

# ii) Implementation of measures to strengthen cooperation

- Facilitation exchange of experiences among MDBs, international /ASEAN local FIs; and,
- Creating a hub for facilitation of Cleaner Energy Finance in ASEAN

# MOC in CEFIA concluded between METI and ADB

- Taking the opportunity of the 2nd CEFIA Government-Private Forum, the Asian Development Bank (ADB) and METI signed a memorandum of cooperation (MOC) in CEFIA.
- Signees were Mr. Tanaka Shigehiro, Vice-Minister for International Affairs, METI, and Mr. Bambang Susantono, Vice-President, ADB.



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#### **The fields for cooperation:**

- [i] Energy efficiency/conservation and renewable energy
- [ii] Other technologies that contribute to transition to low carbonization
- [iii] Utilization of private funds for supporting these efforts

### The 3rd CEFIA Government-Private Forum

- The CEFIA Government-Private Forum is established under the ASEAN+3 New and Renewable Energy (NRE) and Energy Efficiency and Conservation (EE&C) Forum.
- The 3rd CEFIA Government-Private Forum was held on February 21, 2022. The forum included an
  introduction of CEFIA's current activities, along with discussions on topics such as how
  decarbonization projects will realistically move ahead and how funding for decarbonization
  technologies will be mobilized.

#### **Summary**

Date: 21 February 2022

Host: Energy Commission of the government of Malaysia

Participants: government officials, private sectors,

international organization

Audience: 151 attended in Zoom, 168 views in YouTube

#### **Opening Remarks**

H.E Datuk Zurinah Pawanteh, Secretary General of Minister of Energy and Natural Resources, Malaysia Dr. Nuki Agya Utama, Executive Director of ASEAN Centre for Energy (ACE)

#### **Special Remarks**

Mr. ISHII Masahiro, State Minister of Economy, Trade and Industry, Japan

#### 3 Session

•Session I: Flagship Projects

•Session II: CEFIA Collaboration Roadmap

•Session III: Mobilization of Finance for Decarbonization Pathways

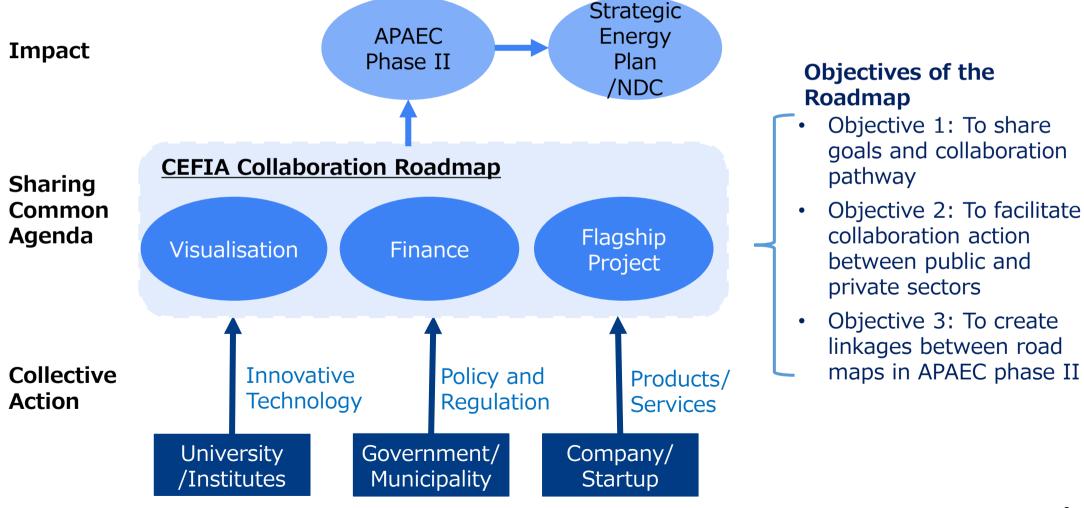






# **Draft Outline of Idea Note on CEFIA Collaboration Roadmap**

- CEFIA aims to contribute to APAEC Phase II.
- CEFIA believes that this will lead to contributions to the energy policy of each country.



# Thank You!!

