

CEEFIA Cleaner Energy Future Initiative for ASEAN ASEAN+3

## Launching of the CEFIA Collaboration Roadmap

Cebu, Philippines 16 February 2023



## **Objective of CEFIA**



Contribute to the transition of the ASEAN countries towards a low-carbon society through facilitating specific business sector engagement in the areas of renewable energy and EE&C.

#### **Roles of the Collaboration Roadmaps**

1. Serves as a platform for <u>collaborations</u> between public, private and academic sectors.

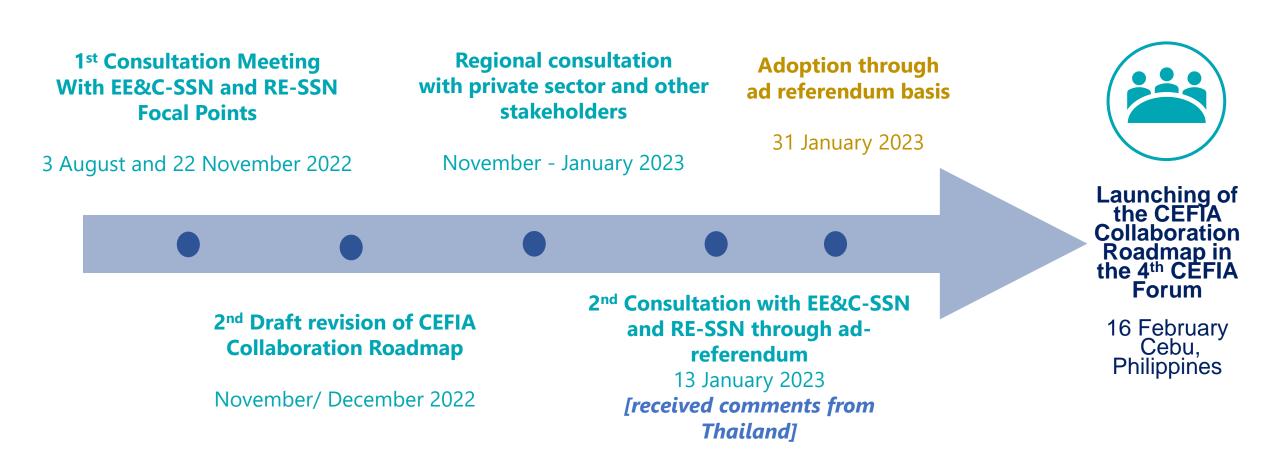
2. Clarifies collaboration between CEFIA and APAEC Phase II: 2021 - 2025.

3. Promotes <u>collaboration</u> among finance, frameworks, and low-carbon solutions.

Collaboration Roadmap on Finance Collaboration Roadmap on Flagship Projects (FP)

Collaboration Roadmap on Visualisation

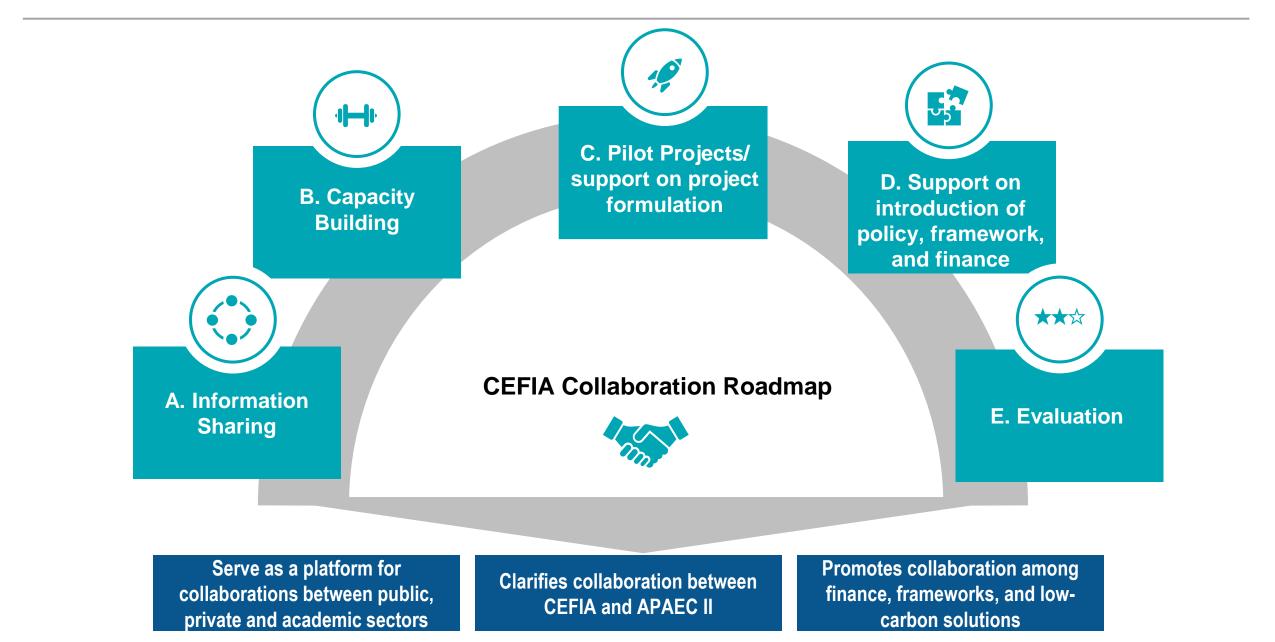




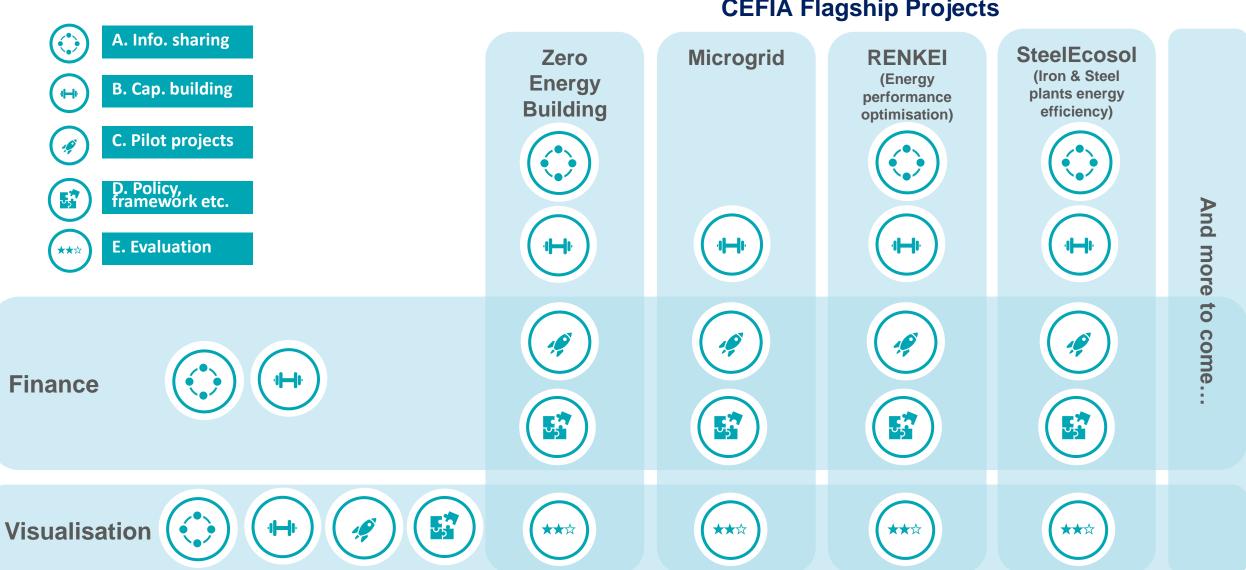
NOTE: The Collaboration Roadmap would be a living document and will be continuously updated according to the progress of collaboration and AMS interest/ priorities/ suggestions.

## Each collaboration roadmap comprises of five action areas









#### **CEFIA Flagship Projects**

## The collaboration roadmap(s) are structured to show links with **APAEC** Phase II

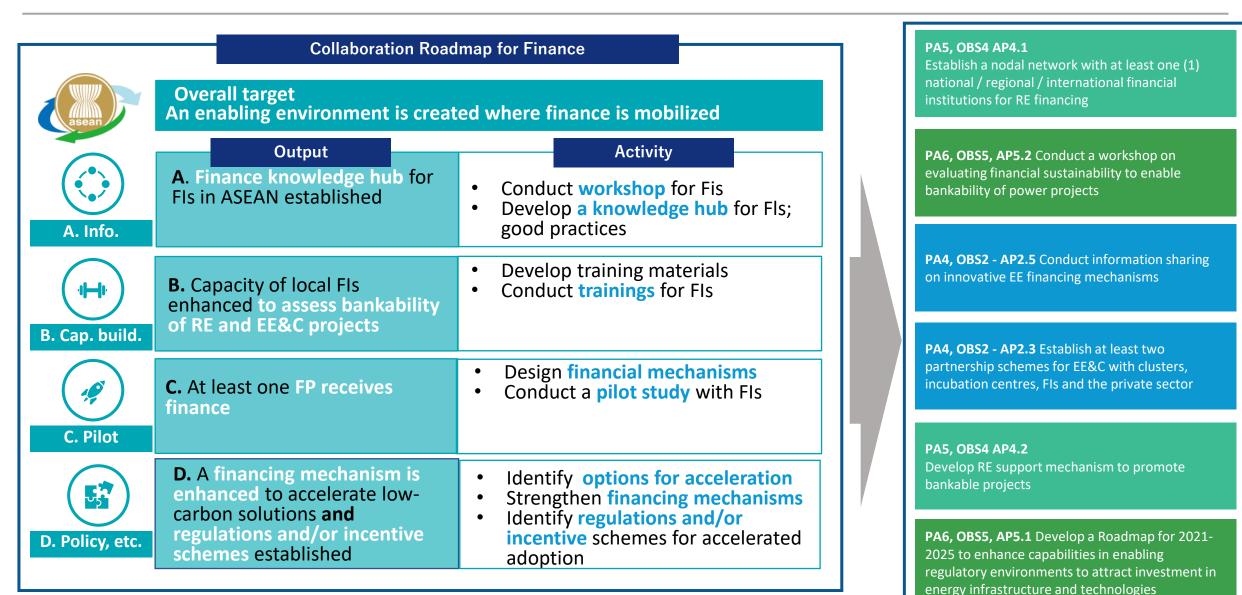


CEFIA
Cleaner Energy
Future Initiative
for ASEAN
ASEAN+3

Overall target			PA4. EE&C	PA5. Renewable Energy	PA6. Regional energ & planning
	Outcome(s)	Кеу	<b>OBS1.</b> Expand, harm and promote energy efficiency standards labelling on energy- related products	y renewable energy policy and and develop	<b>OBS1.</b> To enhance the profile of ASEAN energy sector internationally
A. Information Sharing	Outcome(s)	activities Key	OBS2. Enhance participation of private sector and financial institutions including energy service companies (ESCO) and clusters for EE&C promotion OBS3. Strengthen sustainability of energy efficiency in buildings	accelerate energy transition, access and	<b>OBS2.</b> Raise the level of data and analysis on ASEAN's energy policy and planning
B. Capacity Building		activities		for OBS3. Enhance renewable energy research and development (R&D)	<b>OBS3.</b> Strengthen collaboration with development partners and international organisations
C. Pilot Projects/ support on project formulation	Outcome(s)	Key activities	OBS4. Pursue energ	<b>OBS4.</b> Promote renewable energy financing schemes and mechanisms for greater	<b>OBS4.</b> Effectively manage the implementation of the APAEC
D. Support on introduction of policy, framework, and finance	Outcome(s)	Key activities	efficiency in transpo sector OBS5. Advance ener	partnership           OBS4. Promote           renewable energy           financing schemes and           mechanisms for greater           innovation and	<b>OBS5.</b> Attract investment and financing to accelerate ASEAN's energy infrastructure growth
<b>*</b> *	Outcome(s)	Key activities	efficiency and ener management in inc	gy partnership	<b>OBS6.</b> Promote information sharing on the energy-climate nexus

## **CEFIA** Finance will contribute to PA4, PA5, and PA6 of APAEC Phase





#### NOTE: In the Actual CR, each activity has an indicative timeline

## **CEFIA Visualisation will contribute to PA6 of APAEC Phase II**



asean	Collaboration Road Overall target An Positive impacts and calculation		
A. Info.	Output A. Knowledge and best practices of quantification disseminated	Activity <ul> <li>Conduct workshops</li> <li>Conduct networking events</li> </ul>	PA6. Regional Energy Policy& Planning OBS-AP
B. Cap. build.	<b>B.</b> Knowledge/ skills on decarbonization technologies and quantification developed	Conduct trainings	<b>PA6, OBS6 – AP6.3</b> Organise regional seminars on ASEAN Low- Carbon Transition
C. Pilot	<b>C.</b> Basic concept of visualisation outlined <b>and</b> Impacts quantified	<ul> <li>Develop draft basic concept</li> <li>Develop guidelines for quantification</li> <li>Quantify impacts of FP pilot projects</li> </ul>	PA6, OBS6– AP6.1 Share information and best practices on energy-climate nexus, including through policy dialogues
D. Policy, etc.	<b>D.</b> Regulations, incentives and financial frameworks introduced and Guidelines on quantification tools established	<ul> <li>Develop draft framework</li> <li>Develop draft guidelines</li> </ul>	<b>PA6, OBS4 AP4.1</b> - Monitor and evaluate the progress of the APAEC programmes

NOTE: In the Actual CR, each activity has an indicative timeline

## **Overview of CEFIA Flagship Project Roadmap (Outcome and Activities)**



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

#### CR for ZEB

Overall target: An enabling environment of ZEB is created

#### PA No. 4, OBS 3

#### Outcome:

- A. The **ZEB knowledge hub** established
- B. ZEB specialists developed
- C. Commercial viability business and financial models confirmed
- D. Market demand for ZEB is boosted
- E. ZEB's potential market size and potential GHG emission reduction evaluated

#### CR for RENKEI

Overall target: Best practice and lessons learned of RENKEI are consolidated

#### PA No. 4, OBS 2 & 5

#### Outcome:

- A. Network of private, public and academic sectors established
- B. Engineers are trained on RENKEI
- C. Feasibility study and pilot project conducted
- D. A new international standards established; Potential policy/framework

## introduced;

Tools/guidelines to assess effectiveness established

E. Contribution of RENKEI to EE&C assessed

#### CR for Microgrid

Overall target: Enabling environment for autonomous microgrids established in ASEAN countries

#### PA No. 5, OBS 4 & 6

#### Outcome:

- A. Stakeholders are equipped with know-how
- B. Autonomous microgrids optimal sites in ASEAN identified
- C. Financial mechanism introduced to accelerate installation
- D. Effectiveness of autonomous microgrids evaluated

#### CR for SteelEcoSol

Overall target: Promoting introduction of EE&C technologies and providing support for ASEAN iron & steel industry to reduce energy consumption and GHG emission

#### PA No. 4, OBS 5

#### **Outcome:**

- A. Creation of **Technology customized list** (TCL) for the iron & steel industry
- **B. Dissemination** of the latest Japanese iron & steel related to EE&C /CN policies and technologies
- C. Develop **policy recommendations** to promote wider deployment of EE&C in the iron & steel industry
- D. Potential of energy consumption reduction/ GHG emission reduction is evaluated

## **Future Potential CEFIA Flagship Projects**





Consultation Meeting With EE&C-SSN and RE-SSN Focal Points 3 August and 22 November 2022

### **Discussion objectives:**

- 1. To identify priority areas/activities for RE to be covered in CEFIA
- 2. To identify new areas/activities for publicprivate partnerships

AMS expected public-private sector collaboration activities to focus more on: capacity building activities, development of pilot projects, and policy framework development

Support are needed most in **attracting more local financial institutions**, **building capacity** of stakeholders, and **policy framework assessment** 

#### Recommendations for new CEFIA Flagship Projects:

EV Fuel Economy Geothermal Hydrogen Fuel Ammonia

Green financing Regional REC system RE project matchmaking

IoT Technology Deployment Incentives Grid interconnections

Blended financing structure Sustainable Aviation Fuel

Industrial EE Benchmarking Building Energy Codes



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# Thank You.

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