

Best practices and lessons learned from Japan's NMA

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Japan's NMA (1) : Mitigation and Clean energy

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 **Just Energy transition and decarbonization in the ASEAN region**
- Provide **Capacity building support through Flagship projects**
- Share activities and discuss at **the CEFIA Government-Private Forum**



3 key pillars



Decarbonizing Technologies
(energy efficiency, renewables, etc.)

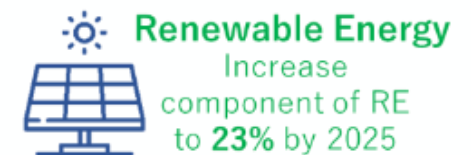
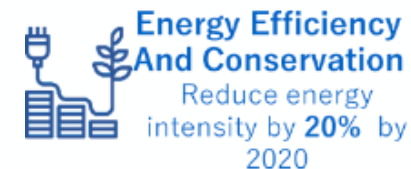


Institutional Arrangements
(policy framework, standardization, etc.)



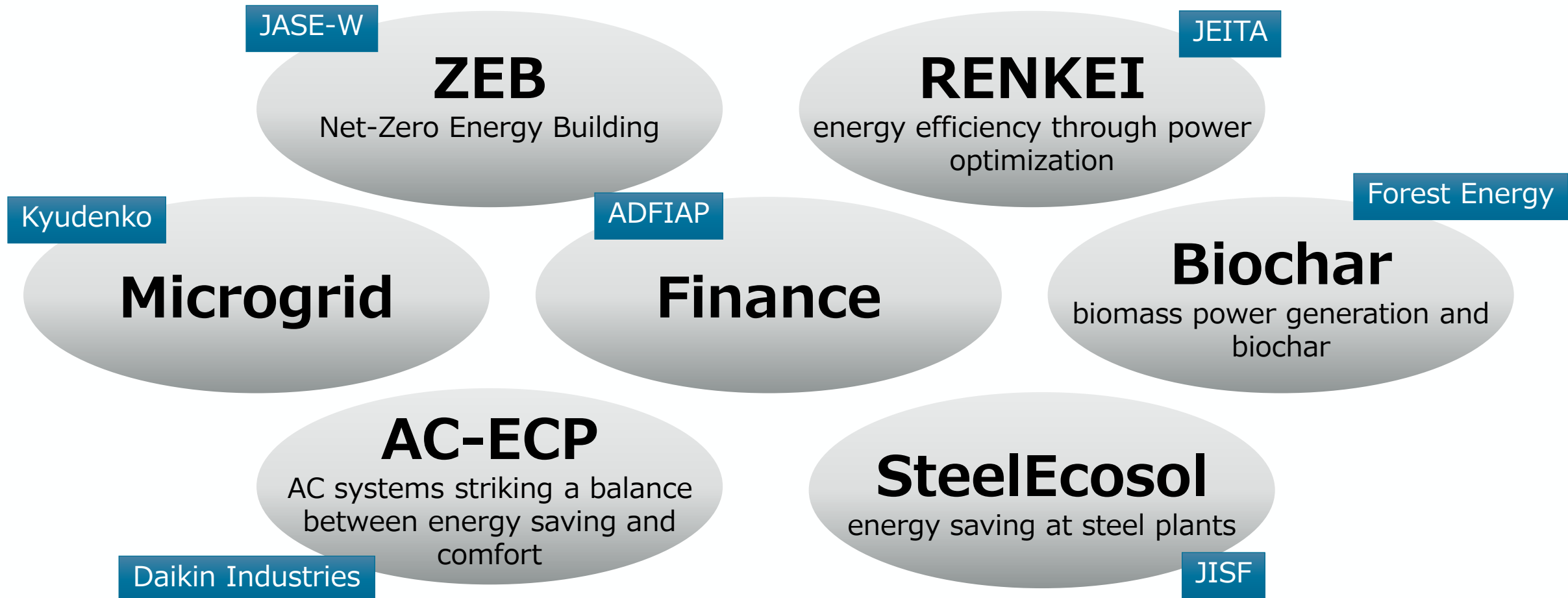
Finance
(SDGs, ESG, local financial institutions, etc.)

- ✓ Contribute to **APAEC (ASEAN Plans of Action for Energy Cooperation) Phase II (2021-25)**



CEFIA Flagship projects

- 9 projects are on going with seminar, workshop, capacity building, standardization, etc.
- Promoted by Japanese companies and related organizations



Flagship project: ZEB (Net-Zero Energy Building)

Outline

- ✓ **Objective:** Contribute to accelerating the decarbonization in the building sector in ASEAN by promoting the step-by-step approach to achieving Net-Zero Energy Building (ZEB).
- ✓ **Implementing institution:** ZEB Solution WG in the Japan Association for the Promotion of Energy Saving (JASE-World)

Recent Activities

- ✓ Promote awareness of technologies and ISO Technical Specification 23764
- ✓ Conduct demonstration project in Malaysia

※ISO/TS23764

- “Methodology for achieving non-residential zero-energy buildings (ZEBs).” A technical specification proposed to ISO by JASE-W, approved and issued by ISO.
- TS 23764 advocates a step-by-step approach to implementing ZEB.

Step-by-step approach to achieving 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

Flagship project: Finance

Outline



- ✓ **Objective:** Mobilize finance to facilitate energy transition and decarbonization in ASEAN.
- ✓ **Implementing institution:**
Association of Development Financing Institutions in Asia and the Pacific (ADFIAP)*

*90 member-institutions in 40 countries

Recent Activities

- ✓ Organize seminars to introduce Japanese companies' **decarbonizing technologies** to local development banks in ASEAN
- ✓ Support DFIs develop and implement programs for clean energy project



⇒ **TRANSITION FINANCE ACCELERATION LABORATORY (TFAL)**

- In 2023, TFAL provided in-depth one-on-one capacity building to **DBP (Development Bank of the Philippines)** to develop financing program on Net-Zero Energy Buildings (ZEB)/Green Building (GB).
- Currently, working to expand this case to **Bank Pembangunan Malaysia Berhad (BPMB)**.

The 6th CEFIA Government-Private Forum

@Bangkok, Thailand on July 23, 2024 (host: DEDE of Thailand)

- Around 55 people at the venue including 25 speakers from Japanese industries and ASEAN governments, ACE (ASEAN Center for Energy), etc.
- Shared the progress of flagships, new technologies (**hydrogen, ammonia**), ASEAN countries' policy development and needs, discussed finance and future cooperation.



▲Group photo



▲Panel discussion



▲Closing presentation

Next... Please come and join us!!

The 7th CEFIA Government-Private Forum in Japan
(February 13 & 14, 2025) including a **site-visit** to showcase Japan's decarbonizing technologies such as **hydrogen and ammonia**



Japan's NMA(2): Adaptation

SUBARU initiative

~Sustainable Business of Aadaptation for Resilient Urban future~

- Launched with UN Habitat at COP27 in 2022
- Improve the resilience of cities in the Asia-Pacific region together with Japanese companies
- Formulate public-private partnership projects
 1. Focus on **local circumstances**
 2. Promote **diverse partnerships**, such as cities and private sectors
 3. Enhance involvement of **startup companies and SMEs**

▼ Discussion with UN Habitat at COP27



*Regional office for Asia and the Pacific

■ UN Habitat offices in 17 countries
 Afghanistan, Cambodia, China, Fiji, India, Iran, Japan, Laos,
 Mongolia, Myanmar, Nepal, Pakistan, Philippines, Solomon Islands,
 Sri Lanka, Thailand, Vietnam

*Solomon Islands is closed due to vacancy

Side event with UN Habitat at COP28▲

SUBARU Initiative activities

UN Habitat Environmental Technology Expert Group Meeting

- Held annually, with participants from both Asia and the Pacific region and Japan.
- Conducted **matching between the local governments' needs and technologies available.**

UN Habitat 14th Environmental Technology Expert Group Meeting

Theme: Sustainable Urban Development through Climate Adaptation and Action

Date: September 12, 2023 @Fukuoka city, JAPAN

Participants:

<Japanese private sector>

Daiken, ECOSYSTEM, KAWASHIMA

Panasonic Holdings, SHABONDAMA SOAP

TAIHOU KINZOKU

<Asia local/national gov.>

Cambodia (Ministry of Environment), Nepal (Lalitpur Metropolitan City)

Philippines (Province of Iloilo), Vietnam (Hio An City)



◀ Meeting

▼ Site-visit to TAIHOU KINZOKU



SUBARU Initiative activities

Demonstration and Workshop@ Lalitpur Metropolitan City, Nepal

- As a follow-up to UN Habitat Environmental Technology Expert Group Meeting, ECOSYSTEM match with Lalitpur, Nepal.
- Demonstration and workshop held in January 2024

【 Demonstration 】

- Demonstration in a portion of a city-owned park
- After the construction, the Deputy Mayor of Lalitpur visited the park to confirm the permeability of the pavement material
- Promoting the technological capabilities of Japanese companies.



【 Workshop 】

- For local government technical staff, university students majoring in urban development, NGO staff, and others
- Introduction of Good Practices for Adaptation by METI
- Sharing Detailed technical description by ECOSYSTEM



SUBARU Initiative activities

UN Habitat 15th Environmental Technology Expert Group Meeting (@Online, Sept. 2024)

Theme: Sustainable Urban Development through Climate Adaptation and Action
- Solutions through Urban Energy and Green Building Technologies -

Participants:

<Japanese private sector>

Kyuden Mirai Energy, Agritree
Panasonic Operational Excellence,
Challenergy,
Golden Dowa Eco-system Myanmar

<Asia local/national gov.>

Nepal (WindPower)
Philippines (Province of Iloilo)
Vietnam (Institutional Strengthening and
Capacity Building for Urban Development)



◀ Opening remarks by UN Habitat and METI

▼ Screenshots of Participants



Lessons Learned

CEFIA – Mitigation and Clean energy

- **Regional Cooperation** (vs bilateral cooperation)
- **Various technology needs** –RE, EE, and **hydrogen, ammonia**, etc.
- **Involving Private sectors** for promotion (Japanese vs ASEAN's)
- **Utilizing Energy forum** (vs Climate Change)
- **Step by Step approach** from Capacity building to FS, demonstration
(**Need to reach out finance for scaling up**)

SUBARU initiative -Adaptation

- **Collaboration with UN Habitat**
- **Reaching out local communities and cities** in Asia and Pacific
- **Involving Private sectors** for promotion and business matching
(Support for **SMEs, start-ups**)
- **Step by Step approach** from Capacity building to demonstration
(**Need to develop business model for financing**)