



METI

Ministry of Economy, Trade and Industry

Best practices and lessons learned from Japan's NMAs

June 4th, 2024

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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 **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.)



CEFIA
Cleaner Energy
Future Initiative
for ASEAN
ASEAN+3

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

 **Energy Efficiency
And Conservation**
Reduce energy
intensity by **20%** by
2020

 **Renewable Energy**
Increase
component of RE
to **23%** by 2025

August 25 in 2023; Bali, Indonesia

- Held back to back with the ASEAN+3 Energy Ministerial Meeting and the ASEAN Energy Business Forum (AEBF)
- Host : Ministry of Energy and Mineral Resources of Indonesia
- Audience : 23 speakers and panelists, around 80 participants at the venue



▲ Opening group photo



▲ Business matching event



▲ Exhibition of perovskite-type solar cell



▲ Panel discussion



▲ Closing group photo

- The **6th CEFIA Government-Private Forum** will be held **in Bangkok, Thailand (Hybrid format) on July 23, 2024**
- Capacity building seminars/workshops, feasibility study, demonstration are planned under the flagship projects.

Flagship Project	Activities for 2024
<p>ZEB Net-Zero Energy Building</p>	<ul style="list-style-type: none"> • Seminars and discussions on ZEB with the 6th CEFIA Forum • Demonstration project in Malaysia
<p>RENKEI energy efficiency through power optimization</p>	<ul style="list-style-type: none"> • Webinars for public awareness for Malaysia and Thailand • Capacity building for Energy Manager • Feasibility study for project formulation
<p>SteelEcosol energy saving at steel plants</p>	<ul style="list-style-type: none"> • Steel plant diagnosis • Formulate Asia net zero steel guideline • Dissemination of ISO14404 and BAT list for ASEAN
<p>Biochar biomass power generation and biochar</p>	<ul style="list-style-type: none"> • Workshops for public awareness for ASEAN (webinar) • Demonstration project with Thailand or Indonesia Univ.
<p>AC-ECP AC systems striking a balance between energy saving and comfort</p>	<ul style="list-style-type: none"> • Workshops for public awareness for ASEAN (webinar) • Demonstration with Vietnam Univ.
<p>Finance</p>	<ul style="list-style-type: none"> • Capacity building for DBP (Development Bank of the Philippines) and BPMB (Malaysia Development Bank) to finance ZEB and green buildings projects

SUBARU initiative

~**S**ustainable **B**usiness of **A**daptation for **R**esilient **U**rban 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



Side event with UN Habitat at COP28▲



*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

UN Habitat Environmental Technology Expert Group Meeting

- Held annually, with participants from both Asia and the Pacific region and Japan.
- Aim to seek opportunities for collaboration and partnerships through discussion and **matching between local/national governments in Asia and the Pacific region with the adaptation needs and Japanese companies with the adaptation technologies.**

UN Habitat 14th Environmental Technology Expert Group Meeting (Japan, 2023)

Theme: Sustainable Urban Development through Climate Adaptation and Action

Participants:

<Japanese private sector>

- ✓ underground rainwater harvesting tank
- ✓ Recycle/reuse of bricks
- ✓ Community scale composting
- ✓ Solar lanterns for home use
- ✓ Soap based fire extinguishing agents
- ✓ Flood locks to avoid flood water, etc.

<Asia local/national gov.>

Cambodia (Ministry of Environment)

Nepal (Lalitpur Metropolitan City)

Philippines (Province of Iloilo)

Vietnam (Hio An City)



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



CEFIA

- **Regional Cooperation** under the ASEAN+3 Energy Ministerials
- **Involving Private sectors** for promotion
- **Utilizing Energy forum in the areas** other than Climate Change
- **Step by Step approach** from Capacity building to Project implementation

SUBARU initiative

- **Collaboration with UN Habitat** with broad networks and connections to local communities in Asia and Pacific region
- **Reaching out local communities and cities**
- **Involving Private sectors** for promotion and business matching (In person WS and site visit)
- **Step by Step approach** from Capacity building to Project implementation