

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 **decarbonization in the ASEAN region**
- 3 Key Pillars:
 - (1) **Decarbonizing Technologies** (Flagship projects on 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
Cleaner Energy
Future Initiative
for ASEAN
ASEAN+3

CEFIA Flagship Project (AC-ECP)

Disseminating Air Conditioning System with Excessive Cooling Protection (currently being introduced on a trial basis in Thailand and Vietnam), which provides the same level of comfort even at high temperature settings.

◆ Implementation System

Sharing expertise and products of AC-ECP by Japanese companies which are aiming for the business development in ASEAN countries.

◆ Expected Effect


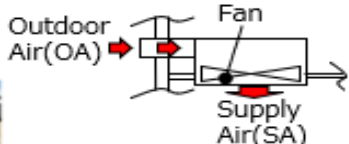

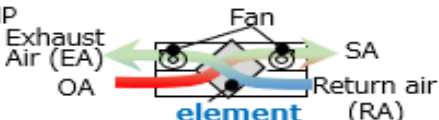




- ❑ AC-ECP prevents energy waste caused by the "overcooling" culture and contributes to energy saving in ASEAN countries

◆ Major Activities

Demonstrating the AC-ECP (Air conditioning system with excessive cooling protect), an energy-saving air conditioning system, and promote awareness of the technology.

Examples of Activities

- Presentation of the contribution of AC-ECP to the decarbonization at the CEFIA Forum
- Trial launch to the building in Bangkok, and in Vietnam as well in next years based on the results in Bangkok.
- The results will be shared through webinars etc.

	System	Description	Energy Spent	Hard Cost
Present	A.  18HP AC 23°C + Normal Ventilation 	X SA temp: Same as outdoor	100 %	100 %
	C.  12HP AC 26°C + ERV 	△ SA temp: Higher than indoor temp	66 %	75 %
Newly proposed "AC-ECP"	D.  12HP AC 26°C + ERV with Refrigerant Coil 	○ Sa temp: Same as indoor temp	66 %	99 %
	E.  12HP AC 26°C + ERV with Ref coil + Positive pressure control + CO2 demand control + AC interlock control 		53 %	101 %

Comparison of cost and energy consumption between Present AC and AC-ECP