

# ASEAN-German Energy Programme (AGEP)

## Moving together towards Sustainable Energy for ASEAN

### The challenges

The Association of Southeast Asian Nations (ASEAN) region is an economic zone of around 622 million people with regional gross domestic product of US\$ 2.6 trillion (2014) growing on an average of 5.3 percent per year. The demand for energy is immense due to the economic drive in the region due to rapid industrialisation. However, energy demand and supply in individual states vary depending on available resources, harnessing potential, natural conditions for renewable energy as well as political and regulatory frameworks.

According to the 4<sup>th</sup> ASEAN Energy Outlook, total energy consumption in commercial sector in the region driven by increasing per capita income is expected to grow at 7.3 percent annually; followed by industrial sector energy consumption at 5.3 percent annually onto 2035.

According to ASEAN Centre for Energy (ACE), energy consumption/demand varies between ASEAN Member States (AMS) such as Indonesia, Thailand, and Malaysia together account for around 70 percent of energy used by all AMS. The specific energy consumption in these states are about ten times higher than together in Cambodia, Laos, and Myanmar.

A regional guiding document, ASEAN Plan of Action for Energy Cooperation (APAEC) 2016-2025 envisages target of 23 percent of renewable energy (RE) share in total primary energy supply (TPES) by 2025. As for energy efficiency and conservation, the AMS are committed to achieve 20 percent reduction in energy intensity by 2020 and 30 percent by 2025 based on 2005 level. To achieve these targets, ASEAN needs to harmonise energy efficiency standards and labelling requirements, align building codes more strongly with energy efficiency and conservation criteria, and to strengthen research and development on the use of renewable energy. In addition, along with ACE's programme of ASEAN green building awards, awareness and promotion of green building development in ASEAN need improvement, especially targeted to private sector.

In addition to that, policy mapping and a reference document on energy efficiency for buildings and industry sector is also needed.

### Objective

Jointly implemented by ASEAN Centre for Energy (ACE) and GIZ on behalf of Federal Ministry for Economic Cooperation and Development (BMZ), AGEP aims to support the ASEAN Member States in improving regional coordination for the promotion of renewable energy and energy efficiency towards sustainable energy for all.

### Our approach

The joint programme operates in three areas of action:

- **Providing concrete and regionally coordinated action strategies**

This approach aims to strengthen the implementation of AMS measures to promote renewable energy, and energy efficiency and conservation through technical strategy and recommendations for action that are regionally harmonised.
- **Improving the regional technical exchange in the field of renewable energy and energy efficiency and conservation**

This approach aims to establish permanent technical cooperation and learning structure among the member states.
- **Strengthening capacity of ASEAN Centre for Energy (ACE)**

This approach aims to support ACE in realising its vision as catalyst for the economic growth and integration of the ASEAN region by initiating and facilitating multilateral collaborations as well as joint and collective activities on energy.



*L. to r.: Encouraging AMS to improve the use of potential renewables available (e.g. water, sunlight, wind) is our priority. Reducing energy intensity is as important, thus maximising energy-efficient and environmentally-friendly technology shall be implemented in the ASEAN region.*



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Commissioned by	German Federal Ministry for Economic Cooperation and Development (BMZ)
Project region	ASEAN
Lead executing agency	ASEAN Centre for Energy (ACE)
Duration	October 2016 – June 2019

AGEP activities include:



## Results achieved so far

Through previous joint programme, the Renewable Energy Support Programme for ASEAN/ASEAN-RESP (2009-2017), the following results are expected to keep expanding with effective approaches through ASEAN-German Energy Programme (AGEP) as its successor joint programme:

- **Regional Focus Groups Concept** are introduced as a new regional cooperation instrument that provides opportunity to representatives from civil society and the private sector to participate in the regional decision makers.
- **Capacity Development** to ASEAN RE actors from various sectors are successfully conducted. The topics delivered are among others sustainable financing, training of trainers for RE training institution, study visit to RE and Efficiency Week Germany, energy planning with ASEAN utilities, and smart grid in-depth consultancy partnering with SIEMENS AG
- **Regional Publications** in various renewable energy (RE) topic are presented to AMS. The publications among others cover RE financing guideline in ASEAN, ASEAN RE permit procedure, levelised cost of electricity in ASEAN, renewable energy policies, renewable energy development, REmap Analysis, guideline for implementing small-scale embedded generation (SSEG) for ASEAN region, and ASEAN Energy Outlook (4<sup>th</sup> edition).
- **ASEAN Renewable Energy Guidelines and its online platform** are presented to AMS. The RE Guidelines are developed for bioenergy projects in Indonesia, solar photovoltaic projects in the Philippines, solar photovoltaic and mini hydro power in Malaysia, and contribution from Vietnam on wind projects development.
- **Information dissemination platform** that consists of an online portal with more than 1000 users every month, the portal has already established itself as an important source of information. Quarterly newsletter also offers comprehensive and up-to-date information on the development of renewable energy in ASEAN Member State.

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