

# ASEAN-German Energy Programme (AGEP)

Moving together towards Sustainable Energy in ASEAN

## The challenges

The Association of Southeast Asian Nations (ASEAN) region is an economic zone of around 630 million people with regional gross domestic product of USD 2.4 trillion (2015) growing on an average of 5.3 percent per year in the period 2007-2015. The demand for energy is immense due to the economic growth in the region driven by transport and industry sectors. However, energy demand and supply in individual ASEAN Member State (AMS) vary depending on available resources, as well as political and regulatory frameworks.

According to the 5<sup>th</sup> ASEAN Energy Outlook, total energy consumption in commercial and industrial sector in the region driven by increasing per capita income is expected to grow at 4.1 percent per year, followed by energy consumption from agricultural sector at 3.7 percent annually up to 2040.

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

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 (EE&C), 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 EE&C criteria, and to strengthen research and development on the use of RE. In addition, in line with ACE's programme of ASEAN green building awards, ASEAN needs to boost awareness and promotion of green building development, especially targeted to private sector. Policy mapping and a reference document on energy efficiency for buildings and industry sector are also required.

## Objective

Jointly implemented by by ACE and GIZ on behalf of Federal Ministry for Economic Cooperation and Development (BMZ), AGEP aims to support the AMS in improving regional coordination for the promotion of RE and EE 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 RE and EE&C through technical strategy and recommendations for action that are regionally harmonised.



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 & environmental friendly technology shall be implemented in the ASEAN region.

➤ **Improving the regional technical exchange in the field of RE and EE&C**

This approach aims to establish robust technical cooperation and learning structure among the ASEAN Member States.

➤ **Strengthening the capacity of ACE**

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



Photos: RENAC



**Results achieved so far**

The following results are expected to keep expanding with effective approaches of AGEP to the ten (10) AMS:

➤ **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.

➤ **Regional Publications** in various renewable energy (RE) topic are presented to AMS. The publications among others are the 5th ASEAN Energy Outlook, Recommendation Paper on Permit Procedures on RE Development in the ASEAN Region, Study on Regional RE Cooperation in ASEAN and Recommendation Paper on Technical Requirement for RE Generation Connected to The Distribution Grids in Indonesia, Malaysia and Thailand.

➤ **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 newsletters are also issued to offer comprehensive and up-to-date information on the development of RE and EE&C in AMS.

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**AGEP Implementation**

- Commissioned by: The German Federal Ministry for Economic Development and Cooperation (BMZ)
- Duration: October 2016 – June 2019



Photo: GIZ

**AGEP activities include:**

Enhancing renewable energy (RE) policies in ASEAN	Promoting benefits of RE and EE&C to general public	Support the development of RE project financing
Empowering the ASEAN research & development network on RE	Support exchange on vRE grid integration	Developing the 5th ASEAN Energy Outlook
Developing regional green building code for new and retrofitted buildings in ASEAN	Developing EE&C financial support mechanism in ASEAN	



Photos: GIZ, ACE