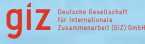




Implemented by:



ASEAN-German Energy Programme (AGEP)

ASEAN-German Energy Programme (AGEP) Phase II

Strengthening ACE in its role as a regional centre of excellence for sustainable energy



Photos : GIZ



Photos : GIZ, ACE

Background

The ASEAN region is becoming one of the global growth drivers and important economic force in the world. Even after accounting for the impact of the COVID-19 pandemic, the region's GDP is still projected to nearly triple from its 2017 figure, reaching USD 20 trillion by 2040. As reported in the 6th ASEAN Energy Outlook (AEO6) under the scenario where member states meet their national target (AMS Target Scenario, ATS), the energy demand (linked with industrialisation, economic growth and urbanisation, among others) in the region will continue to rise by 2.8% annually from 375 Mtoe in 2017 to 714 Mtoe in 2040. With more than 50% share of the demand still comes from the intensive use of fossil fuels resources such as coal, oil, and gas, emissions are expected to increase by 1.8 times, from 1,686 Mt CO₂-eq in 2017 reaching 3,002 Mt CO₂-eq by 2040. In addition to the economic and energy growth, energy access in ASEAN has also been growing over the years, reaching 88% of electrification rate in 2020 according to AGEP's Country Profiles.

Moving towards a more sustainable future, the ASEAN Member States (AMS) are committed to their regional energy blueprint called the ASEAN Plan of Action for Energy Cooperation (APAEC) 2016-2025 and adopted in 2015 by the ASEAN Ministers of Energy. The APAEC framework states that the 10 AMS will continue the development of conventional energy technologies (such as coal and gas) towards a cleaner means of utilisation, meanwhile also pursuing concrete targets for renewable energy (RE) and energy efficiency (EE). In APAEC Phase II: 2021-2025, it envisages an expansion of RE to 23% of the Total Primary Energy Supply (TPES) by increasing its share in power capacity to 35% and reduction of Energy Intensity (EI) by 32% in 2025 from 2005 level. According to the AEO6 under the ATS, the EI reduction is expected to achieve 28.9% in 2025, compared to the 2005 level, while the RE share in TPES is projected to reach 17.7% in 2025, which implies that stronger efforts would be needed by the region. Continuing the trajectory in 2040, ASEAN manages to reach 22.1% of RE share in TPES, while the EI reduction thrives until 42.7%.

As the agency involved in the implementation of APAEC, ACE takes a role as regional knowledge centre, catalyst, and think tank. As the regional knowledge centre, ACE collects and disseminates energy-related data and information and provides its technical expertise to the AMS. In its role of catalyst, ACE organises meetings of the relevant ASEAN bodies, processes and coordinates the development and implementation of the APAEC. As the think tank, ACE functions include research, development and evaluation of energy policy, economic concepts, and strategies as well as the identification and development of innovative solutions in the energy sector.

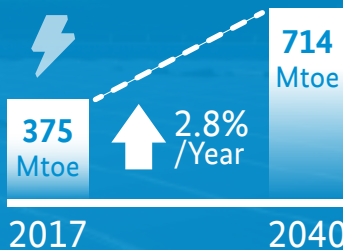
ASEAN Energy Statistics (AMS Target Scenario)

Electrification

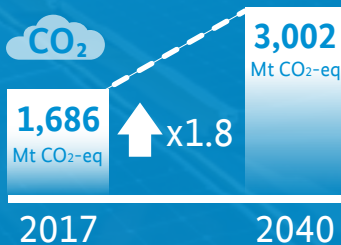
88 %

2020

Energy Demand



Energy-related GHG Emissions



RE Share & EI Reduction

	RE	17.7 %	22.1 %
	EI	28.9 %	42.7 %
		2025	2040

Objectives

The overall objective of the ASEAN-German Energy Programme Phase II is to strengthen ACE in its role as a regional centre of excellence for sustainable energy.

Our Approaches

The joint programme operates in three areas :

1. The 6th ASEAN Energy Outlook (AEO6) recommendations to reduce greenhouse gas emission
2. ASEAN data collection and processing guidelines
3. ACE long-term business plan with sustainable financing mechanisms

Activities

1. Development of the 6th ASEAN Energy Outlook (AEO6)
2. Development of RE Nodal Network Framework on R&D
3. Implementation of Regional Workshop on EE Financing
4. Development of ACE Internal Guideline and Competencies on Data Processing
5. Development of External ASEAN Statistical Guideline and Competencies on Energy Data
6. Support to ACE in organisational development, including development of its business plan and capacity building

Photo : GIZ, ACE



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Lead executing agency	ASEAN Centre for Energy (ACE)
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