



ASEAN-German Energy Programme

Unlocking ASEAN's Energy Efficiency Potential

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Perspective from Technical Implementation



Table of content

- I. Background: Regional and national targets
- II. Challenges in unlocking ASEAN's Energy Efficiency potential
- III. Unlocking ASEAN's Energy Efficiency potential



I. ASEAN Targets

ASEAN Plan of Action for Energy Cooperation (APAEC) 2016 – 2025



Energy Efficiency & Conservation:
To reduce Energy Intensity by **20%** in 2020
(based on 2005 level)

Renewable Energy:
To increase RE share to **23%** in
ASEAN Energy Mix by 2025



I. APAEC Energy Efficiency&Conservation

Harmonisation and Promotion of
Energy Efficiency Standards
and Labelling on various kinds
of energy-related products

Enhancing private sector
participation including Energy
Service Companies (ESCOs) for
EE&C promotion

Reduce EI by 20% in 2020
and by 30% in 2025

Developing green building
codes which support the use of
high energy efficient products:

Enhance the participation of
financial institutions in EE&C
development



I. National Energy Efficiency targets

Country	Energy Efficiency Target of AMS
Brunei Darussalam	Reduce Energy Intensity (EI) to 45% (2035)
Cambodia	Reduce Total Final Energy Consumption (TFEC) by 20% (2035)
Indonesia	Reduce TFEC by 15-20% (2025) - industry, transport, household and commercial
Lao PDR	Reduce Total Final Energy Consumption by 10% (2030)
Malaysia	Reduce electricity consumption in TFEC by 8% (2025)
Myanmar	Reduce electricity consumption in TFEC by 20% (2030)
Philippines	Reduce Energy Intensity by 50% (2040)
Singapore	Reduce Energy Intensity by 35% (2030)
Thailand	Reduce Energy Intensity by 30% (2036)
Vietnam	Reduce Energy Intensity of energy intensive industries by 10% (2020)



II. Challenges unlocking regional EE potential in ASEAN

Stakeholders

1. Government: Priorities
2. Industry: EE not considered core business

Administration

1. Unclear roles and responsibilities of agencies involved
2. Authorities have limited exposures on EE technologies

Human resources

1. Different national targets
2. Different approaches
3. Development gap between countries

Region

1. Lack of experience/knowledge of EE technologies, benefits and risks
2. Limited commercial finance products for EE

Finance



III. Unlocking ASEAN's Energy Efficiency potential

- **ASEAN-German Energy Programme (AGEP):** Promote regional cooperation and deployment of Renewable Energy and Energy Efficiency & Conservation in ASEAN
- **Partner institution:** ASEAN Centre for Energy (ACE)
- **Funded by:** The German Federal Ministry for Economic Cooperation and Development (BMZ)
- In line with ASEAN Plan of Action for Energy Cooperation (2016 - 2025)



III. Unlocking EE potential in ASEAN

Financial support models for sustainable Energy Efficiency Financing

1. Review and mapping of available EE financing schemes, models in ASEAN
2. Develop country specific Energy Efficiency financing guidelines
3. Develop regional recommendation on financing EE&C
4. Publication of best practices and successful cases in ASEAN

Green Building Code

1. Review report and mapping on existing Green Building Code in ASEAN
2. Develop technical and policy recommendations for Green Building Codes
3. Peer learning and knowledge sharing



Thank You

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