# ASEAN Energy Outlook and Opportunities for Enhancing Cooperation with APEC

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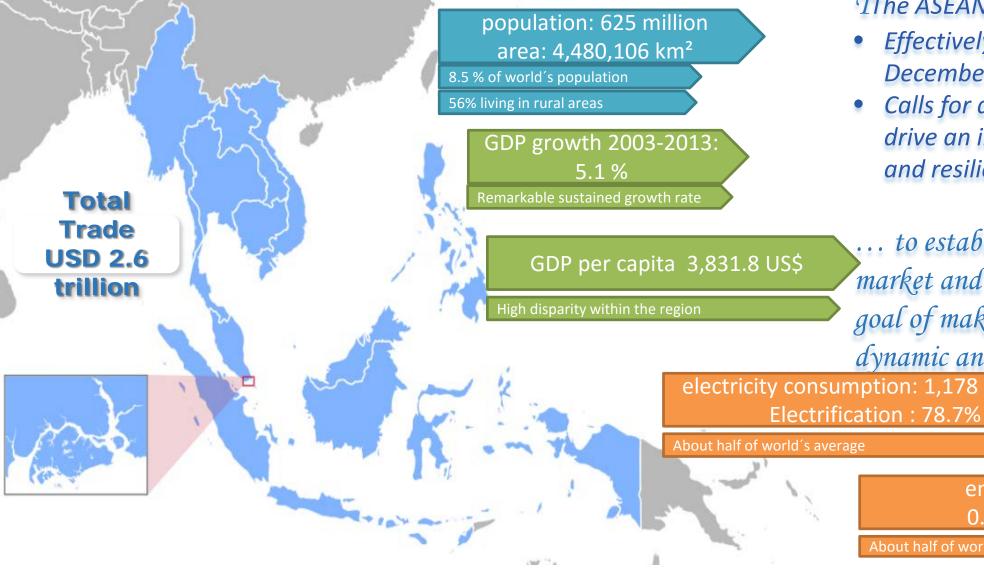
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## **CONTENTS**

ASEAN Overview
Energy Mix Situation
ASEAN Energy Outlook
ACE / APEC Cooperation

## **ASEAN: A Community of Opportunities**



### The ASEAN Economic Community:

- Effectively implemented on 31 December 2015,
- Calls for a well-connected ASEAN to drive an integrated, competitive and resilient region.

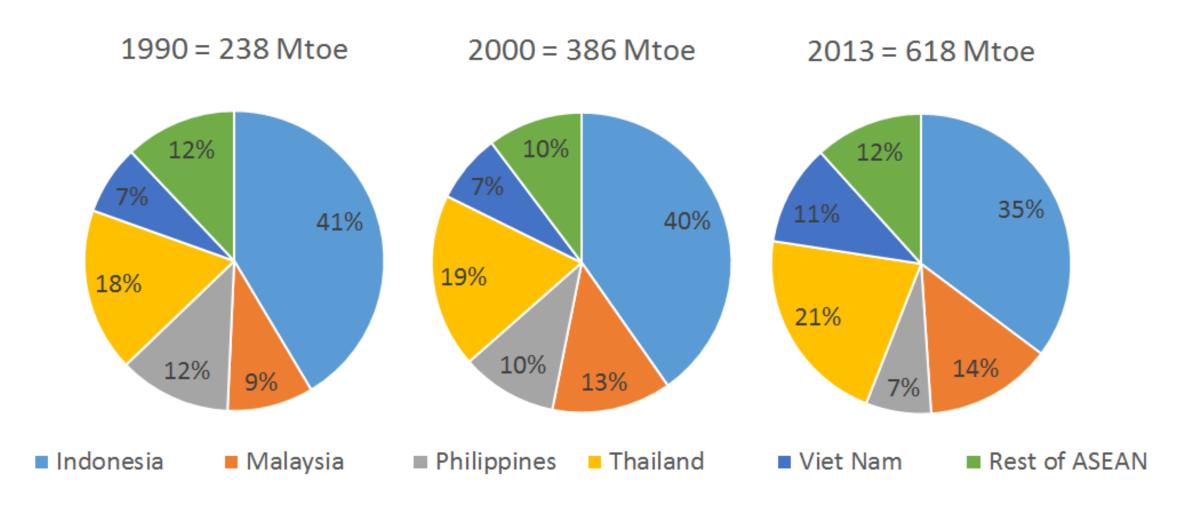
... to establish ASEAN as a single market and production base with the goal of making ASEAN more dynamic and competitive." electricity consumption: 1,178 kwh/cap

> energy intensity: 0.435 koe / \$05p

About half of world's average



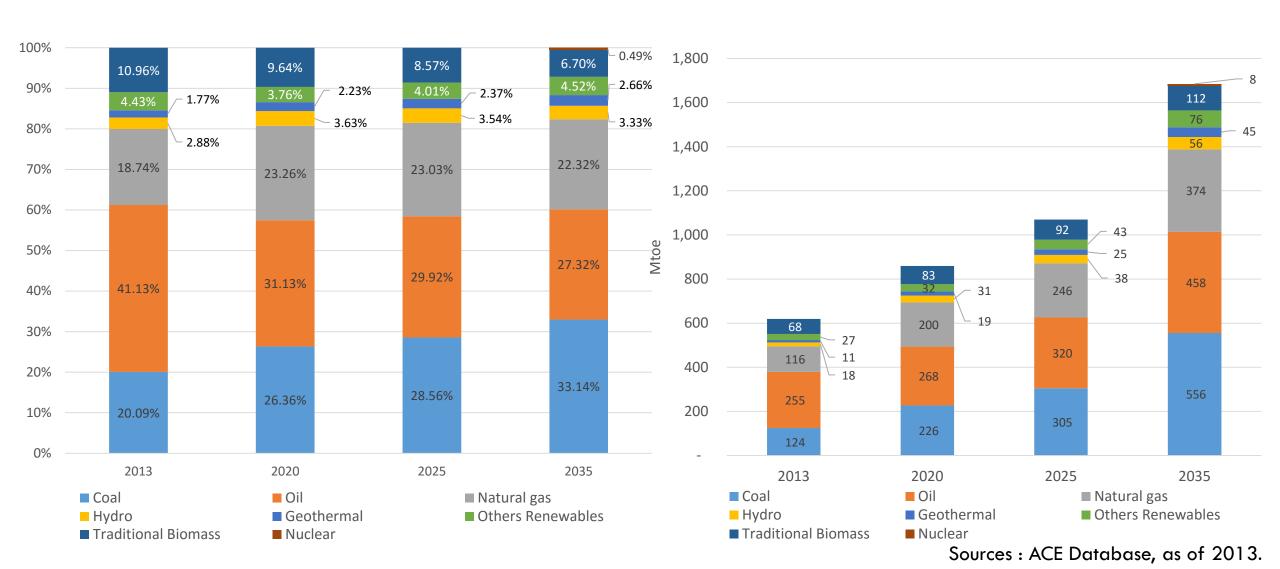
## HISTORICAL COMPARISON - Total Primary Energy Supply,



Sources: ACE Database, as of 2013.



## ASEAN ENERGY OUTLOOK PROJECTED TPES 2013 - 2035



## **ASEAN ENERGY BLUEPRINT**

➤ The ASEAN Plan of Action for Energy Cooperation (APAEC)

"Enhancing Energy Connectivity and Market Integration in ASEAN to Achieve Energy Security, Accessibility, Affordability and Sustainability for All"



- > 7 Areas of Focus
  - ✓ ASEAN Power Grid
  - ✓ Trans ASEAN Gas Pipeline
  - ✓ Coal & Clean Coal Technology

✓ Energy Efficiency & Conservation

ASEAN PLAN OF ACTION FOR ENER COOPERATION (APAEC) 2016-2026

- ✓ Renewable Energy
- ✓ Civilian Nuclear Energy
- ✓ Regional Energy Policy and Planning

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## **APAEC 2016 -2025 Targets**

## Renewable Energy:

Aspirational target to increase the component of renewable energy to 23% by 2025 in **ASEAN Total Primary Energy Supply.** 

### **Energy Efficiency & Conservation:**

To reduce energy intensity by 20% in 2020 based on 2005 level.

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Coal Increasing at CAGR of 7% Increase CCT technology



## **ACE Cooperation**

Through ASEAN Center for Energy (ACE), cooperation and collaboration in energy sector are done by

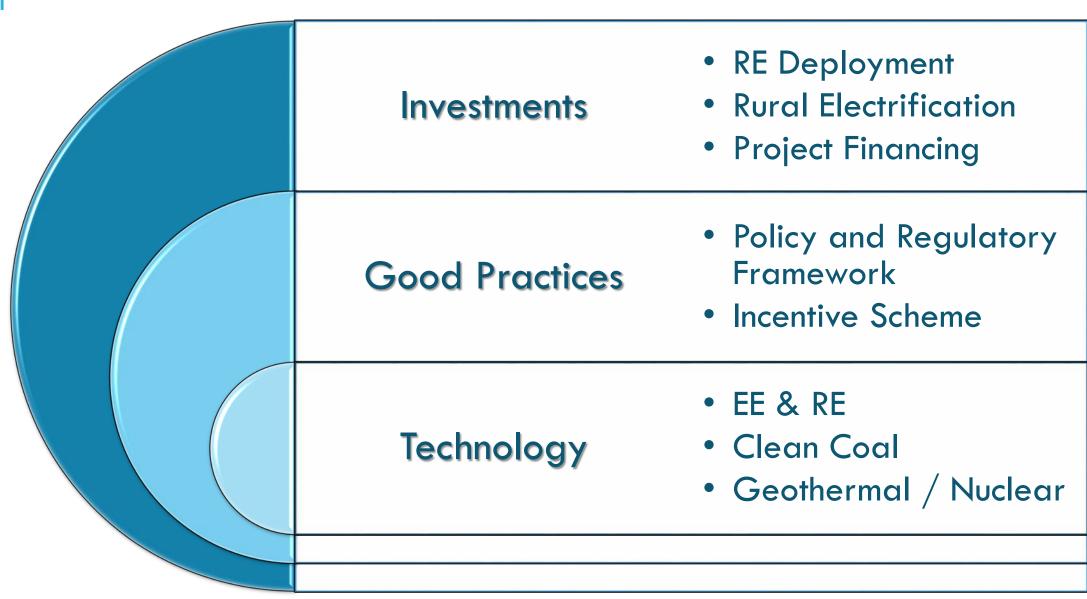
- > conducting capacity building,
- > technical and good practices exchange and
- policy research and analytics

## Some of Ongoing Programmes:

- 1. ASEAN+3 Mitigation Cooperation Programme (China, Korea and Japan)
- 2. ASEAN-Japan Energy Efficiency Partnership (ECCJ)
- 3. ASEAN Renewable Energy Support Program (GIZ)
- 4. ASEAN-Canada Nuclear and Radiological Program (DAFT)



## **APEC Cooperation**





## Thank you