



CEFIA

Cleaner Energy
Future Initiative
for ASEAN

ASEAN+3

Setting the Scene Presentation

5th CEFIA Forum

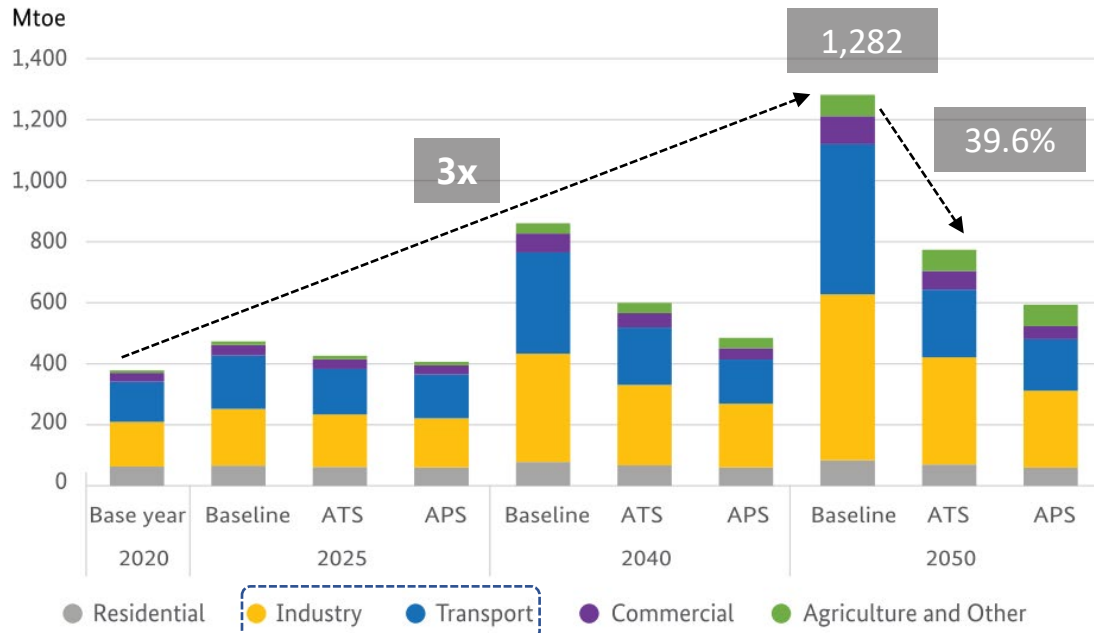
Nusa Dua, Bali, Indonesia

25 August 2023

Presented by: Ms. Shania Esmeralda Manaloe,
CEE Officer, ACE

ASEAN Energy Landscape

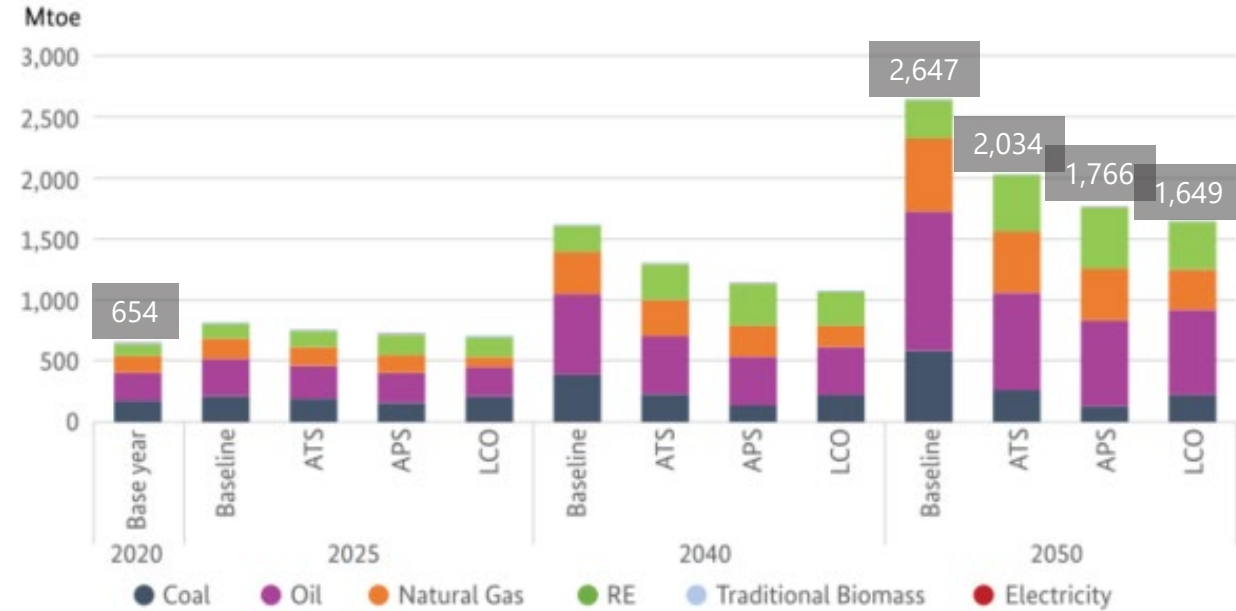
Energy demand By Sector



- Industry and transport sectors remain the largest energy-consuming sectors in the region.
- Compared to the Baseline Scenario, the avoided energy consumption will be the greatest under ATS. This is expected due to various EE&C policies looking to be set by the AMS.

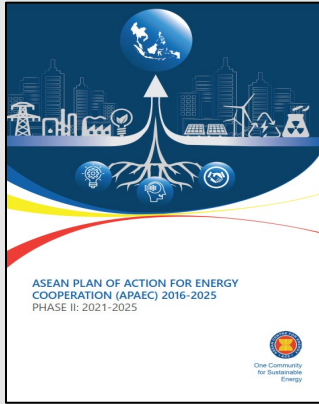
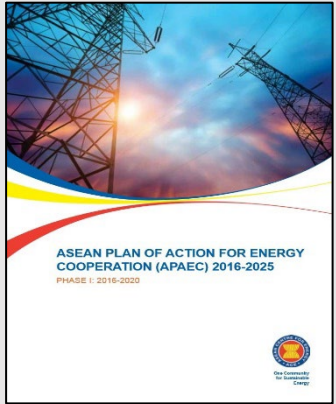
Source: AEO7

Energy Supply by Fuel



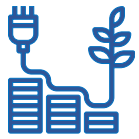
- Baseline Scenario projected a 4x of energy produced to drive economic growth from 2020 to 2050. Energy efficiency measures reduce the energy supply to 3x and 2.7x in ATS and APS.
- LCO Scenario reduces the supply further to 2.5x of 2020.
- In all scenarios, **fossil fuels remain the largest component.**

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

Accelerating Energy Transition and Strengthening Energy Resilience Through Greater Innovation and Cooperation



4. Energy Efficiency and Conservation

To **reduce energy intensity** by 32% by 2025 and encourage EE&C efforts, especially in transport and industry



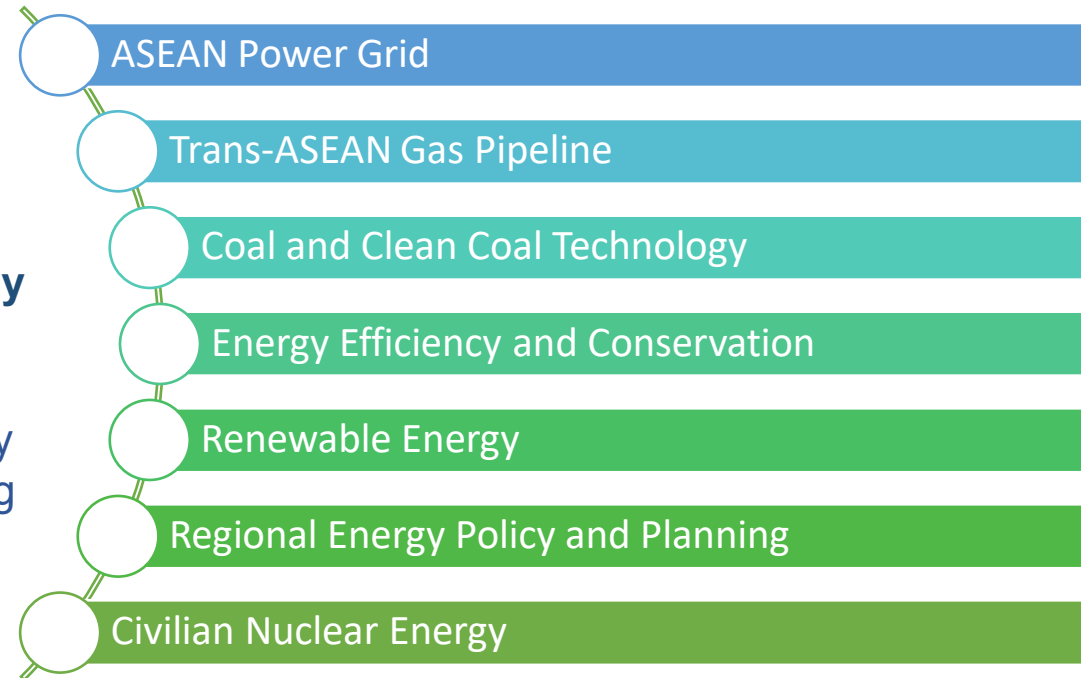
5. Renewable Energy

To **increase the share of RE** to 23% in TPES and 35% in installed power capacity by 2025

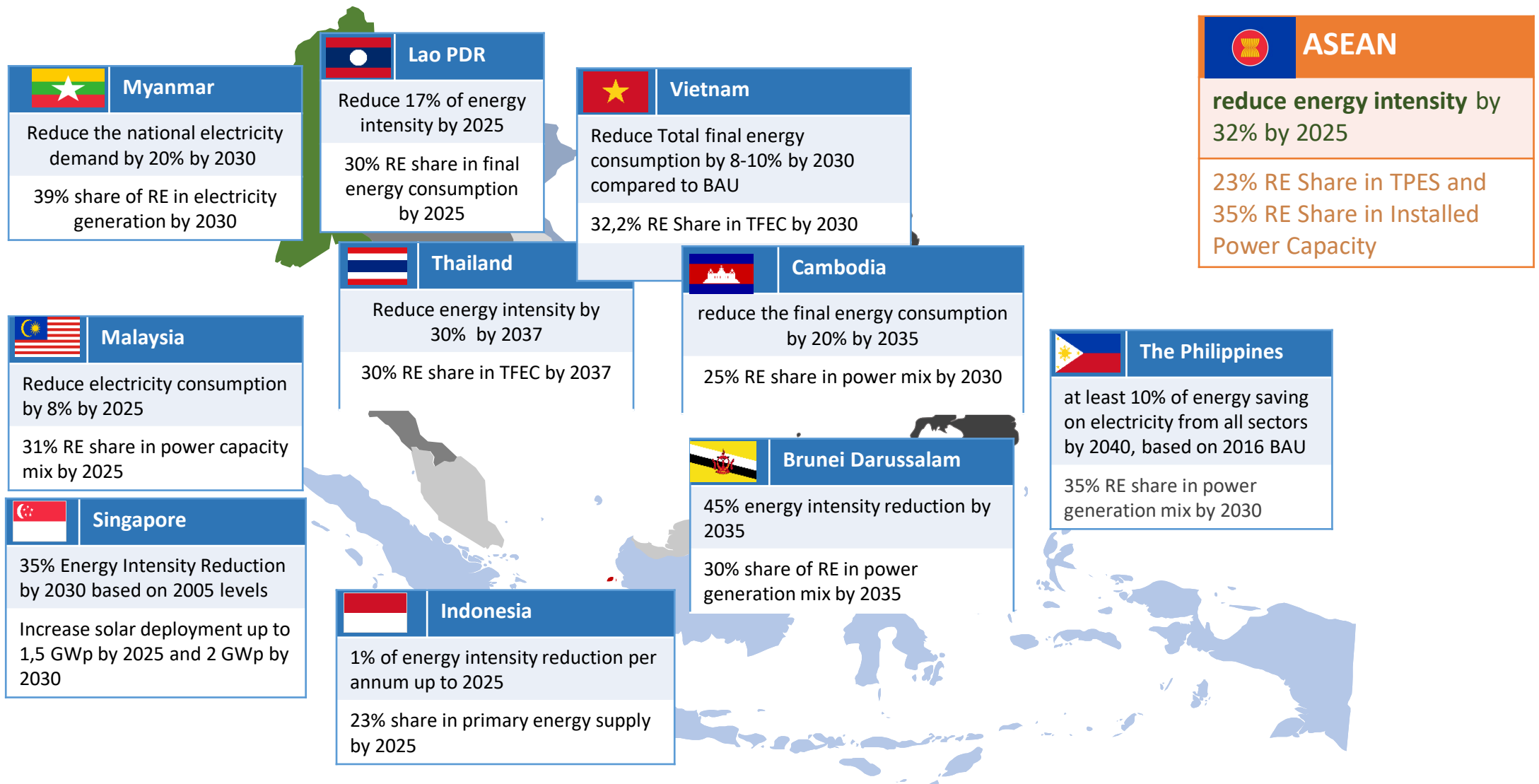


6. Regional Energy Policy and Planning

To advance energy policy and planning to **accelerate the region's energy transition and resilience**

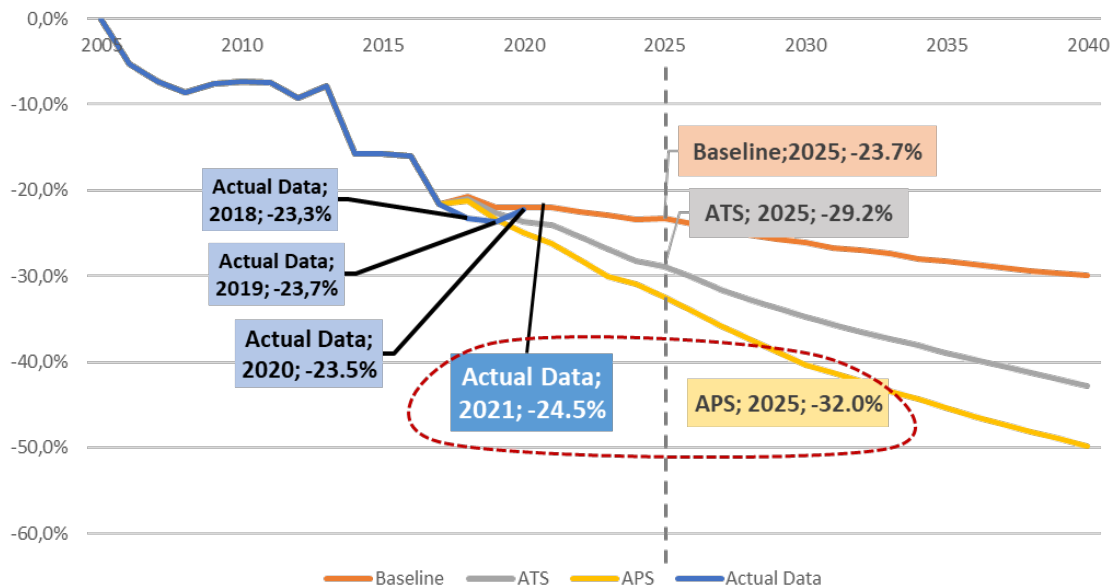


ASEAN Member States have set up energy efficiency and conservation-related and renewable energy targets



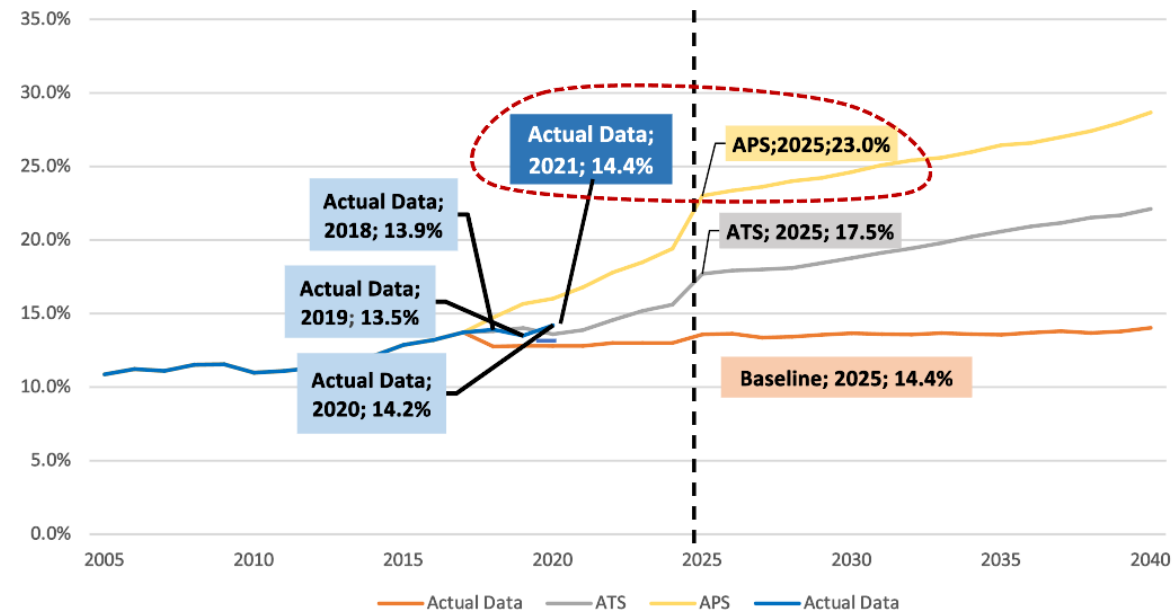
Status of APAEC EE and RE Targets

Energy Intensity Reduction (TPES, from 2005 level)



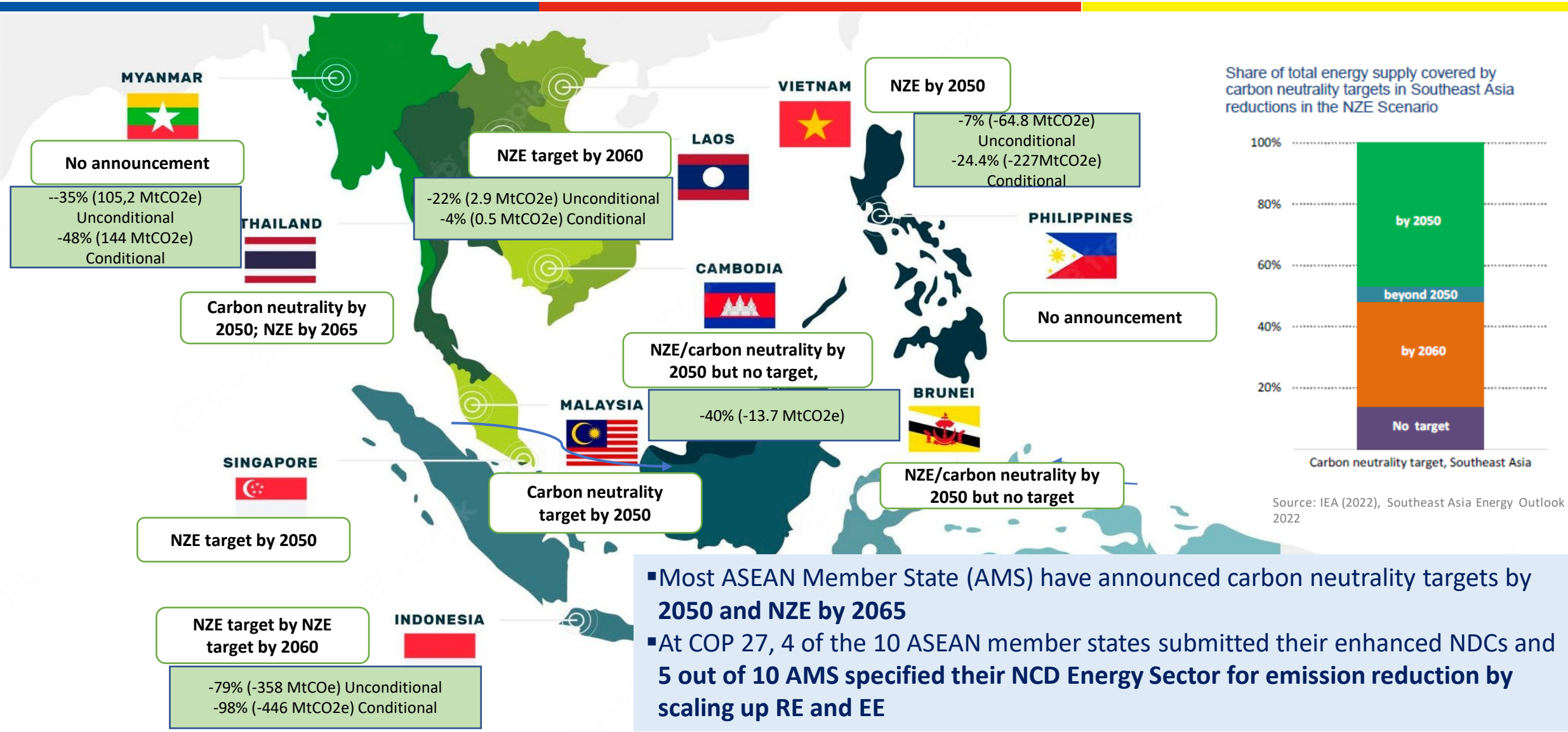
Energy Intensity (EI) reduction based on TPES in 2021 is **24.5%** compared to 2005, increased 1% from 2020. Even so, AMS is projected to not reach the 2025 target, with a 2.8%-point gap

RE Share in TPES

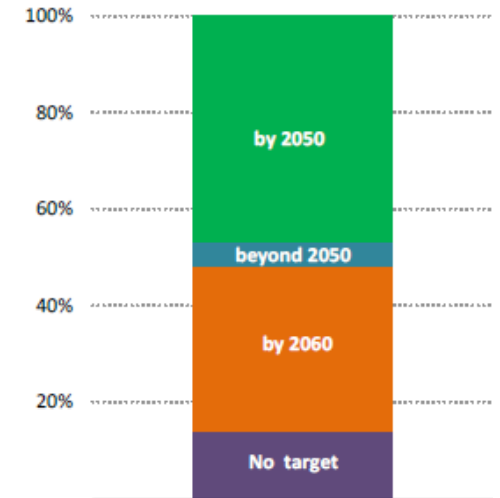


Renewable Energy (RE) share in TPES in 2021 increased 0.2 % from 2020, reaching a total of **14.4%**. RE Share in the Total Power Installed Capacity reached **32.8%**, decreased 0.5% from 2020.

EE and RE is Set to Play Increasing Role towards Net Zero Energy Goals



Share of total energy supply covered by carbon neutrality targets in Southeast Asia reductions in the NZE Scenario

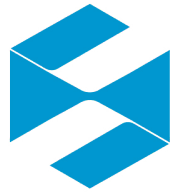


Carbon neutrality target, Southeast Asia

Source: IEA (2022), Southeast Asia Energy Outlook 2022

- Most ASEAN Member State (AMS) have announced carbon neutrality targets by 2050 and NZE by 2065
- At COP 27, 4 of the 10 ASEAN member states submitted their enhanced NDCs and 5 out of 10 AMS specified their NCD Energy Sector for emission reduction by scaling up RE and EE

Objective of CEFIA and CEFIA Collaboration Roadmap



Serves as a platform to facilitate **collaboration between public and private sectors** for accelerating the development of cleaner energy and low carbon technologies in the ASEAN region, especially in areas of EE&C and RE

Activities

Objectives



Finance

An enabling environment is created where finance is mobilized through leveraging financial investments from local and international financial institutions in ASEAN



Visualisation

Realise the transition of ASEAN towards a decarbonised society, through quantifying and increasing the visibility of CEFIA's contributions to GHG emission reductions.



Flagship Projects

Formulate and Implement series of Projects to accelerate adoption and wider deployment of selected decarbonizing solutions.

Platform to **showcase** the best practices, challenges and solutions

Workplace for public and private sector to initiate some cooperative projects and activities

Databank and catalyst that attract more ideas and supports to accelerate development and deployment of cleaner energy technologies in ASEAN

Linchpin to advance technology deployment through public-private partnership



Directions from SOME+3 and AMEM+3

19th AMEM+3 (16 September 2022)

The Meeting welcomed the new proposed flagship project on the adoption of best available technologies (BAT) to decarbonize iron and steel industry in ASEAN.

The Meeting acknowledge the launching of CEFIA Project Management Unit (PMU) to oversee the overall implementation of projects and the development of the CEFIA Collaboration Roadmap

22nd SOME+3 (22 June 2023)

The Meeting welcomed the CEFIA Collaboration Roadmap to support the implementation of APAEC at the 4th CEFIA Public Private Forum.

The Meeting considered and agreed to leverage CEFIA platform to mobilise public private investment for clean energy projects

The Meeting looked forward to the 5th CEFIA Forum to be held as a side event to the ASEAN Energy Business Forum 2023 in Nusa Dua, Bali, Indonesia



CEFIA

Cleaner Energy
Future Initiative
for ASEAN

ASEAN+3

Thank You.