RE and the Transition in the ASEAN Power Sector

(based on ASEAN Power Updates 2021)

The 4th East Asia Energy Forum: A Low-Carbon Energy Transition in the ASEAN Region Panel Session 1: Natural Gas and vRE as Transition Energy 13 September 2021

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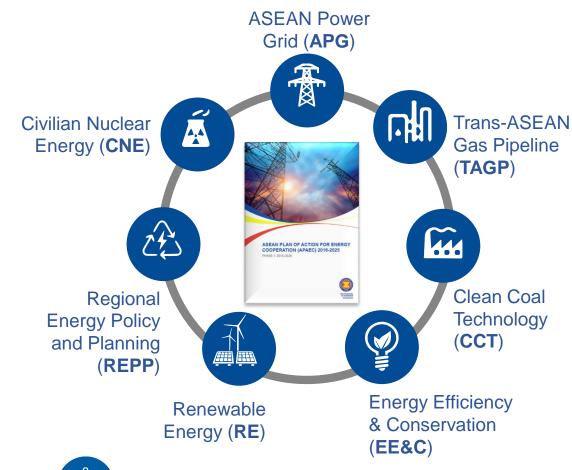


ACE is representing 10 ASEAN countries on energy cooperation



Enhancing Energy Connectivity and Market Integration in ASEAN to Achieve

- **Energy Security**
- Accessibility
- Affordability
- Sustainability for All

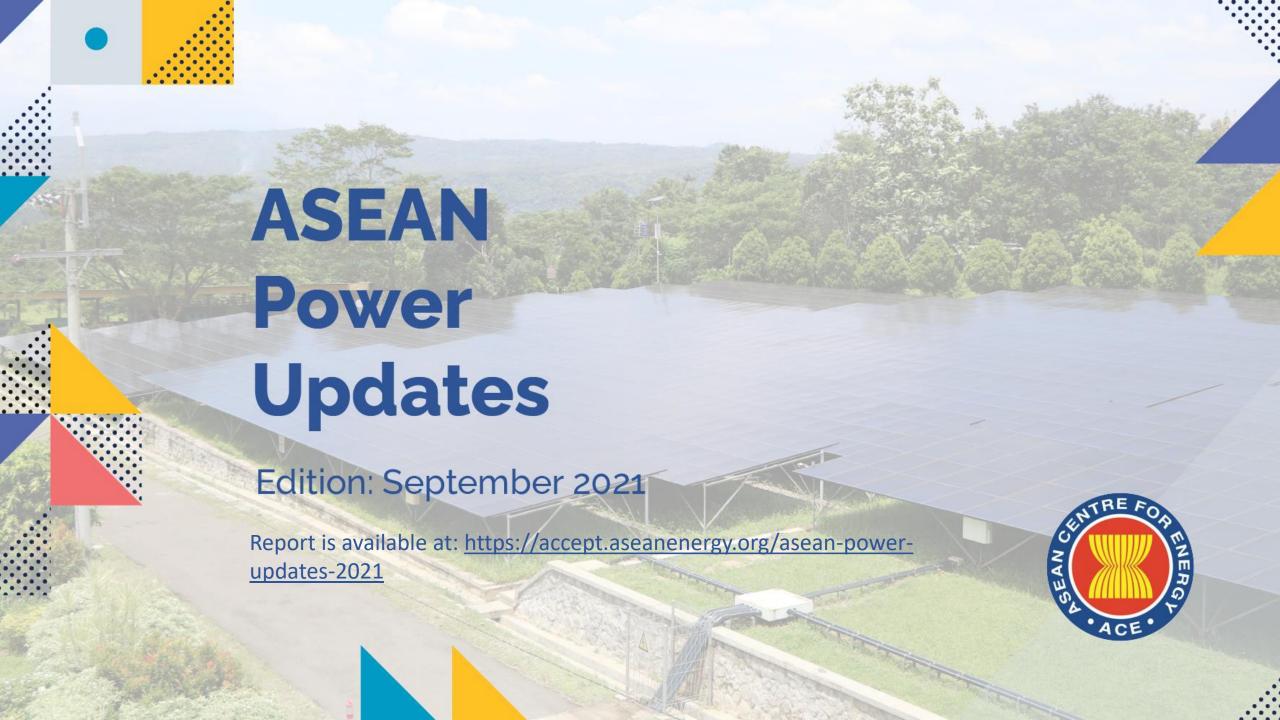






Think Tank Data and Knowledge Hub



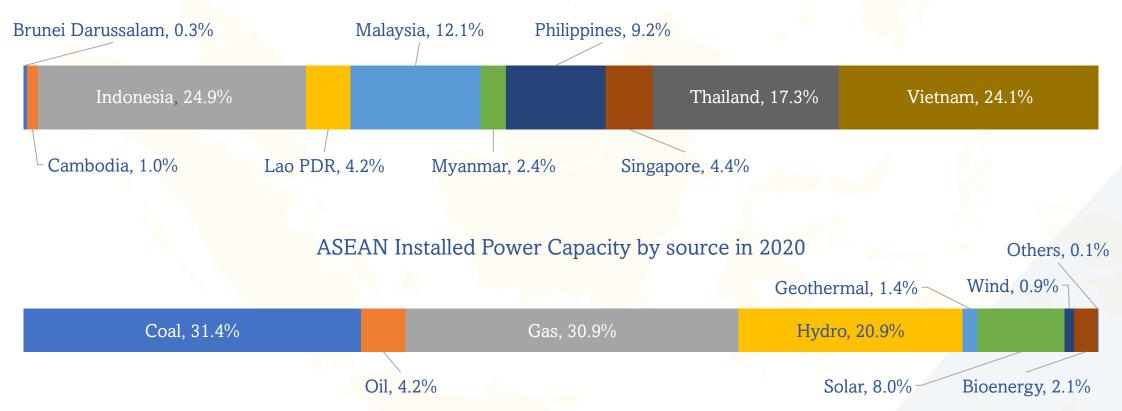




In 2020, AMS had 285 GW of installed power capacity in total

- ❖ Indonesia, Vietnam, and Thailand accounted for around 2/3 of the total capacity.
- Coal, gas, and hydro contributed more than 80%.







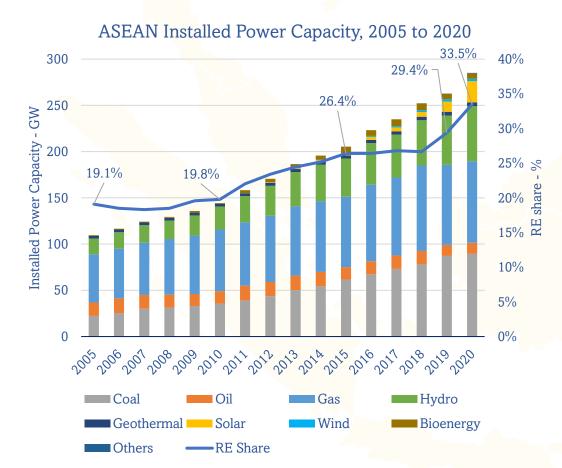
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- ❖ About 82% of the ASEAN new capacity in 2020 was renewable (a notable new trend).
- Lao PDR created new hydro capacity, while Vietnam significantly increased its solar capacity.

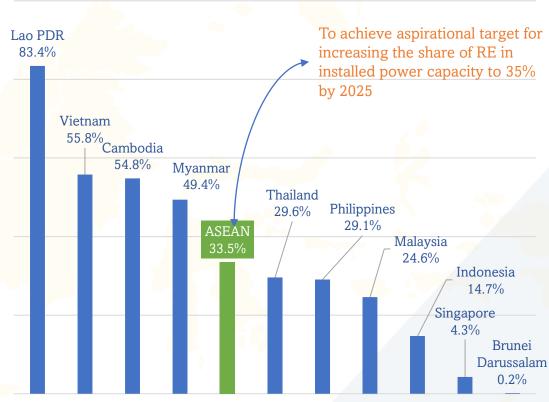




- ACE.
- Most of the increase in RE has been in hydro and bioenergy; solar and wind began to increase sharply in 2015.
- Despite different RE potential among the AMS, all their shares of RE increased.



RE share in AMS' Installed Power Capacity in 2020







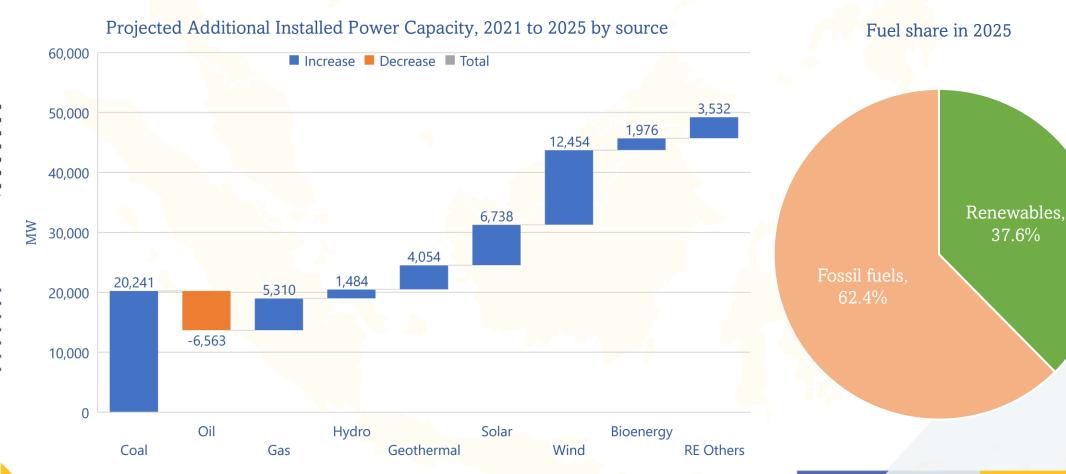
- While the installed fossil fuel capacity and renewables capacity were comparable in the past, the AMS are now looking more towards RE.
- Vietnam's solar power greatly expands, and Thailand's and the Philippines' wind power climbs.





Eager for energy transition, AMS continue to install RE

- More than 60% of the newly installed capacity up to 2025 will be coming from renewables.
- This will mean a 37.6% share of RE in 2025, which is 2.6 units above the regional target.



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