



Indonesia's Energy Transition: Plan and Strategy







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**Expert Staff on Green Economy to the Coordinating Minister for Maritime
and Investment Affairs**

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Indonesia is blessed with abundant NRE sources



		TOTAL POTENTIAL OF NRE 437.4 GW	TOTAL INSTALLED CAPACITY OF NRE 10.4 GW (2.5%)
	OCEAN	17.9 GW	0 MW*) (0%)
	GEOTHERMAL	23.9 GW	2,130.7 MW (8.9%)
	BIOENERGY	67.8 GW	1,905.3 MW (5.8%)
	WIND	60.6 GW	154.3 MW (0.25%)
	HYDRO	94.6 GW	6,121 MW (8.16%)
	SOLAR	207.8 GW	153.5 MWp (0.07%)

*) Ocean Energy Research:

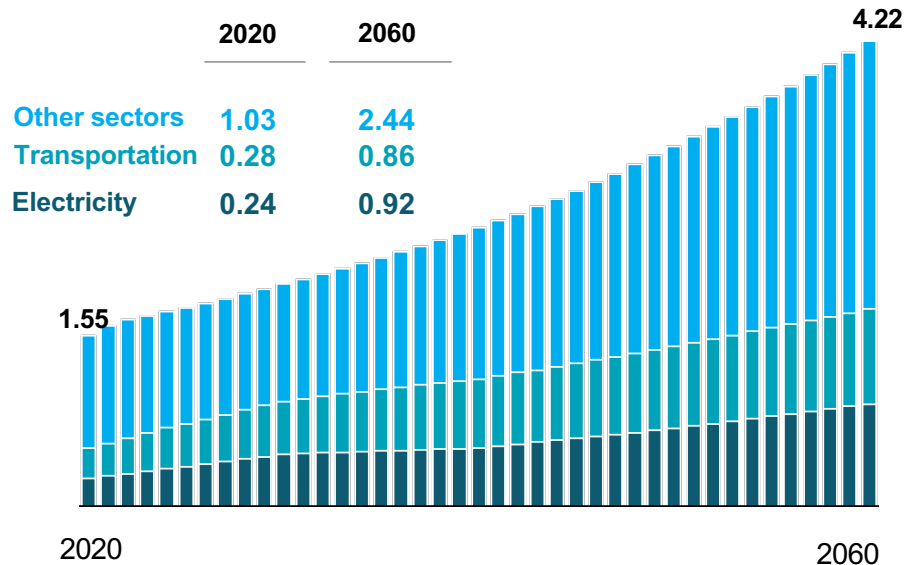
- **Ocean wave technology:** Oscillating Water Column (OWC) has the opportunity to be placed in the southern waters of Enggano. Heaving Device has an opportunity in the Mentawai region.
- **Ocean thermal energy technology:** Ocean Thermal Energy Conversion (OTEC), in North Bali Waters.
A Feasibility Study on the technology of ocean currents in the Alas Strait (between Lombok and Sumbawa Island), Sape Strait (between Sumbawa and Komodo Island) and the Pantar Strait (between P. Pantar and P. Alor) was carried out by Balitbang ESDM.

MWp : *Mega Watt Peak*

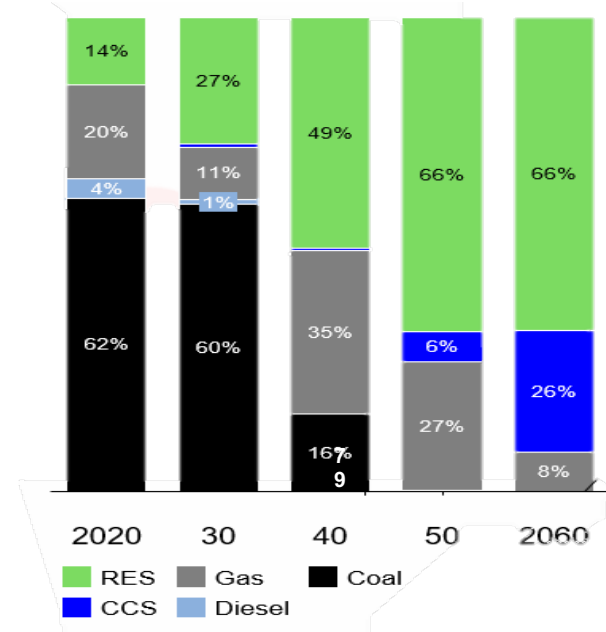
Indonesia commits to a future with cleaner power

Indonesia's electricity sector accounts for 15% of total emissions, which will increase into 0.92 billion tCO₂e/year by 2060 without abatement (baU scenario). However, under a carbon neutral scenario, the current best estimate is a shift to 66% NRE-based and 26% CCS technology by 2060.

Power sector CO₂ projections (BAU scenario), billion tCO₂e/yr



Generation share by technology, % (Carbon neutral scenario)



Energy Transition is a key strategy: Indonesia follows a two-track approach



An energy transition mechanism (ETM) accelerates the shift in energy mix toward renewables using public or philanthropic finance.

- Public or philanthropic finance is used to incentivize private investment to (1) **accelerate retirement of fossil fuel plants** and (2) **increase renewables investment**.
- **Indonesia is following a two-track approach** – implement an ETM pilot by 2022 and develop a broader ETM policy as part of the regional effort supported by the ETM Southeast Asia Partnership.

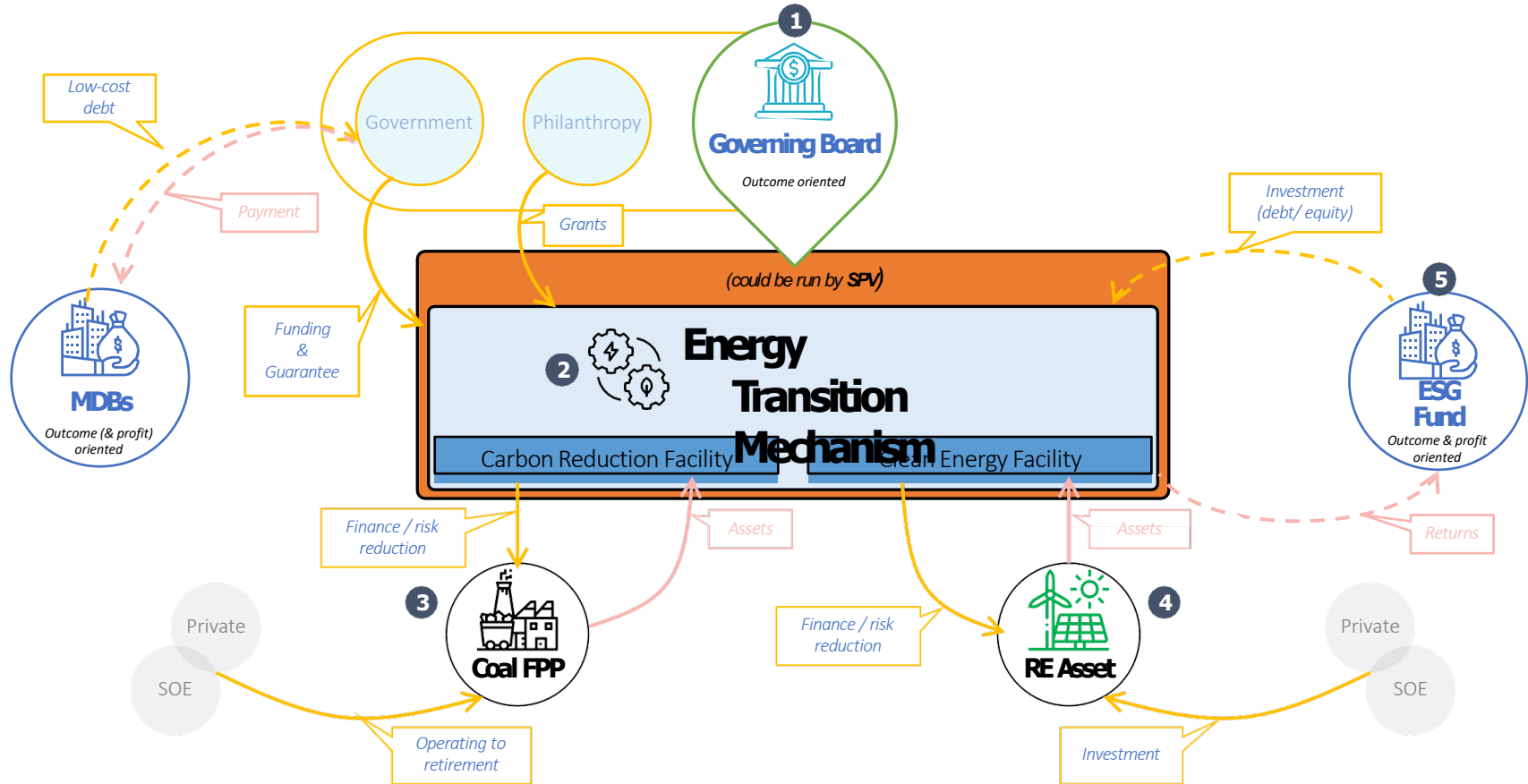
ETM Southeast Asia Partnership

- A regional effort.
- Use an MDB as the vehicle to manage the fund.
- Aim to early retire 16 GW CFPP in Indonesia alone.
- Currently doing a feasibility study and will start a pilot project in 2023.

GOI ETM Pilot Project

- A national effort to accelerate the process.
- Will choose one CFPP for piloting the early retirement.
- Targeting the end of 2022 to start the pilot project,
- There is a scope to develop into a national scale program.

ETM Pilot will tap into financing pool from philanthropies committed toward supporting energy transition





Thank You



SMALL GROUP
BREAKOUT SESSION

YOU HAVE ~20 MINUTES TO DISCUSS THE FOLLOWING QUESTIONS WITHIN YOUR SMALL GROUPS

- 1 What do you think is needed for blended finance to achieve scale and standardization?
- 2 Which blended finance instruments/archetypes are most applicable within your organization? Why?
- 3 Now that you are familiar with the concept of blended finance, what next steps will you take to mainstream/introduce this within your respective organizations?



CLOSING REMARKS –
PROFESSOR DENISE KENYON-ROUVINEZ
TANTOWI YAHYA, PRESIDENT OF
UNITED IN DIVERSITY



THANK YOU