



# Indonesia Net Zero Emission Scenario

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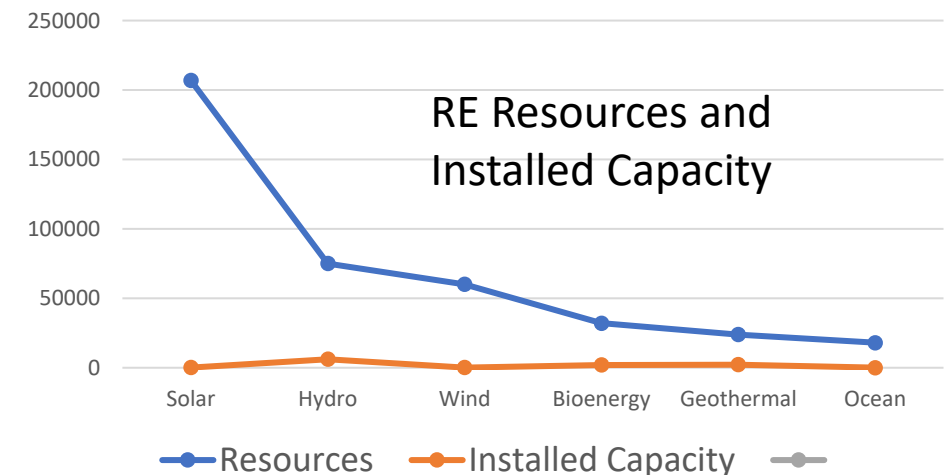
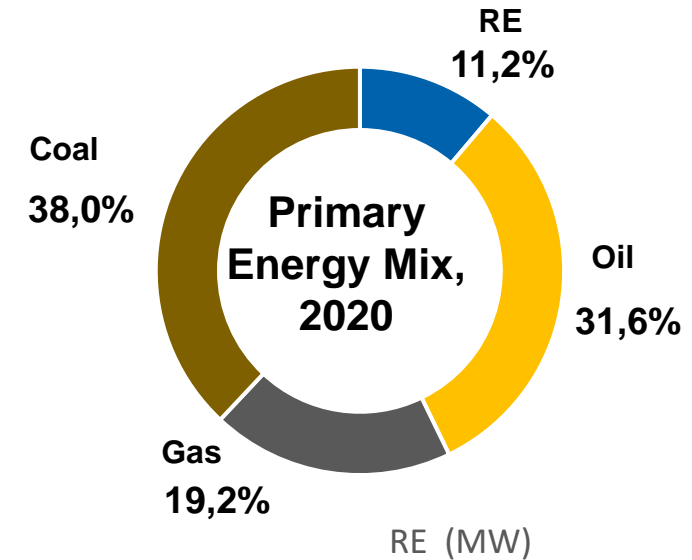
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**Panel Session 3: NZE Scenarios ASEAN Countries**  
**The 4<sup>th</sup> East Asia Energy Forum**  
**13 September 2021**



# Current Energy Situation, 2021

- Primary energy supply highly dominated by fossil fuel
  - coal dominated electricity generation, petroleum fuel dominated transport sector, LPG on households
- Oil production continues to decline
- Limited gas infrastructures
- Huge potential of RE, utilization is low
- Electricity consumption at 1,089 kWh/capita
- GDP/capita US\$3,869 (2020), US\$ 4,135 (2019)\*

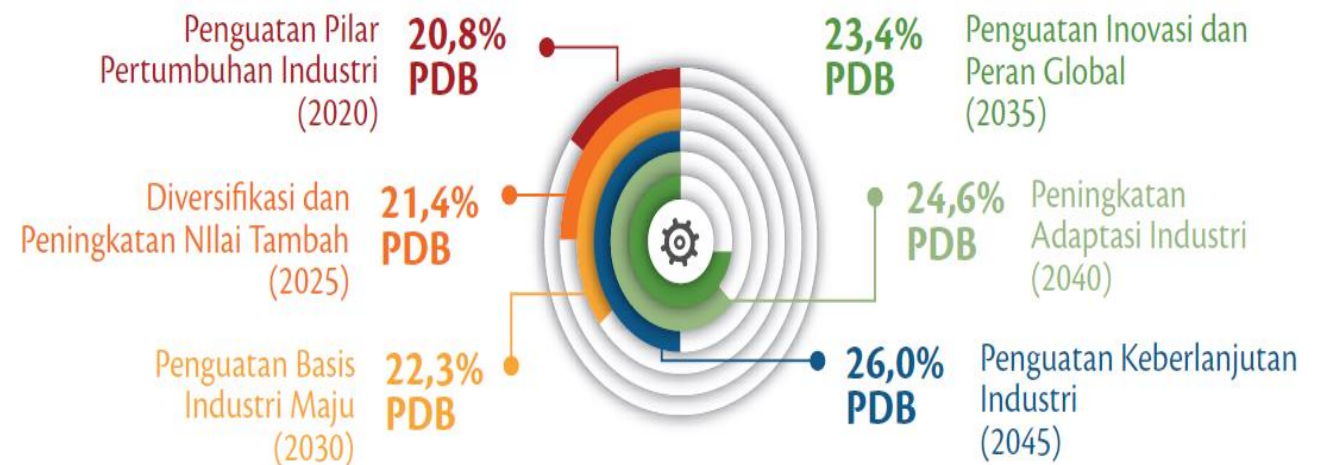
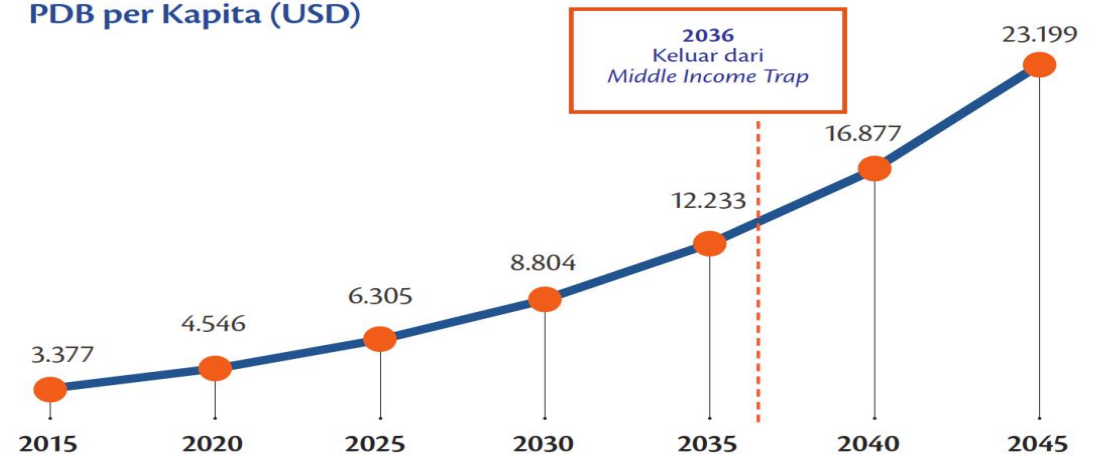


\* World Bank, 2021, MEMR, 2021

# Key References and Assumption

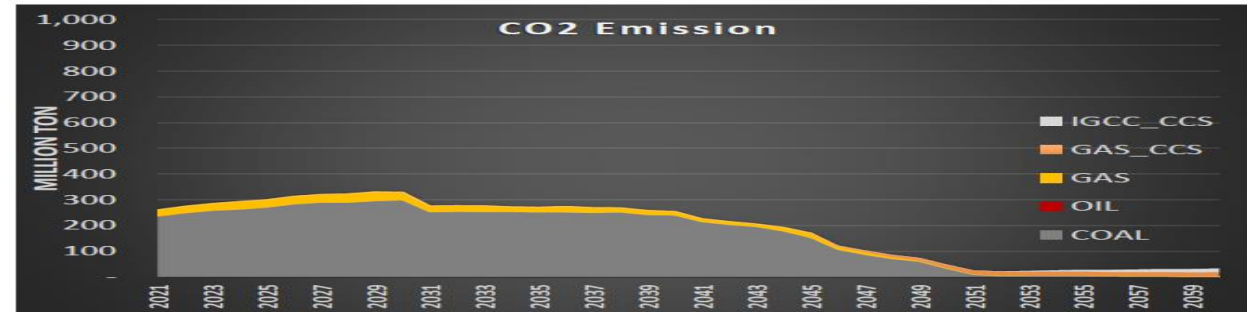
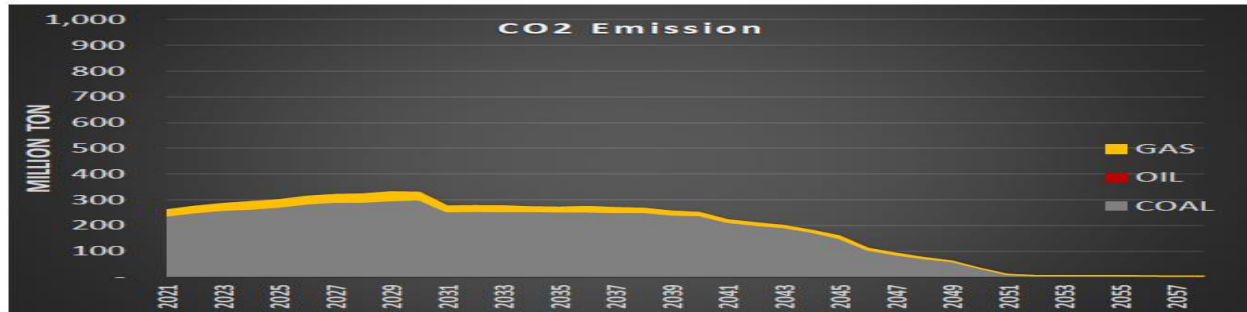
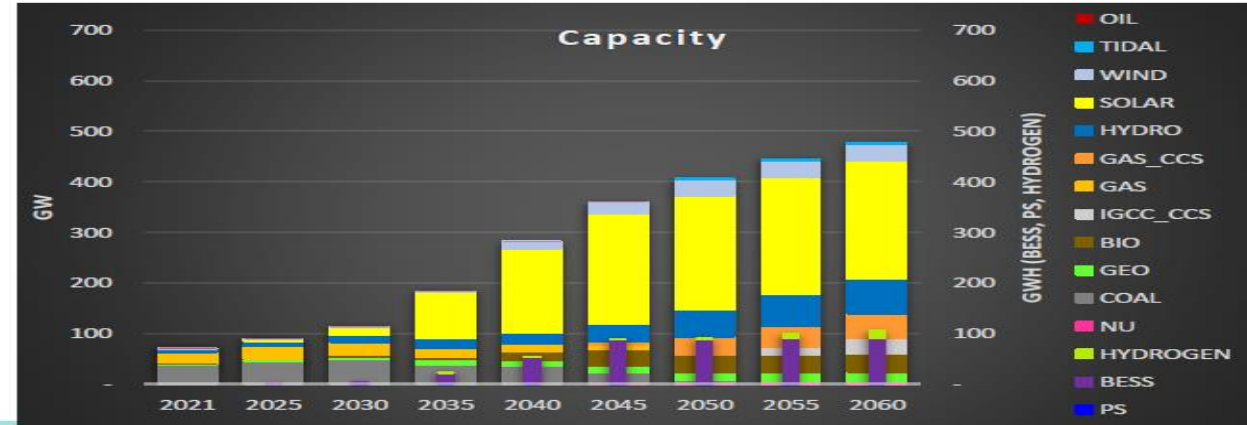
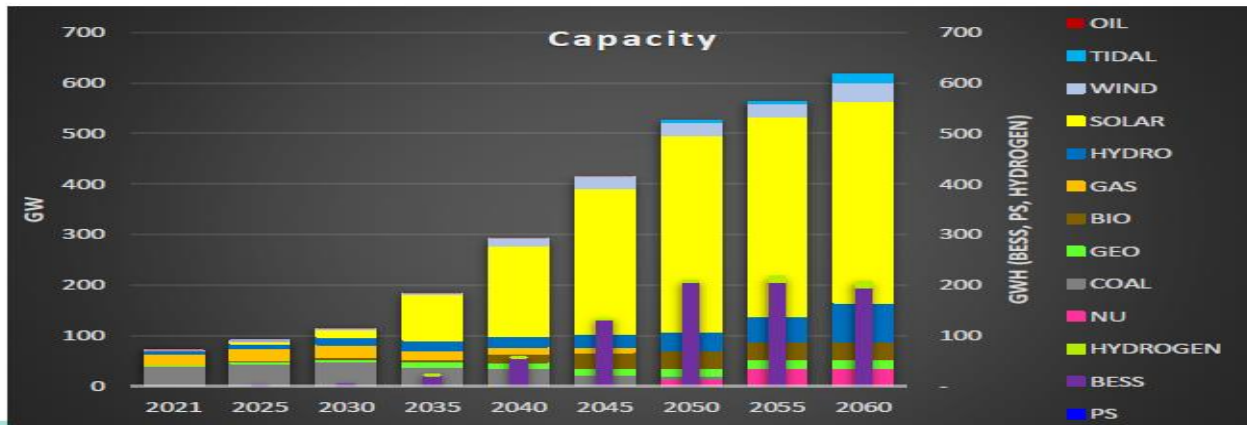
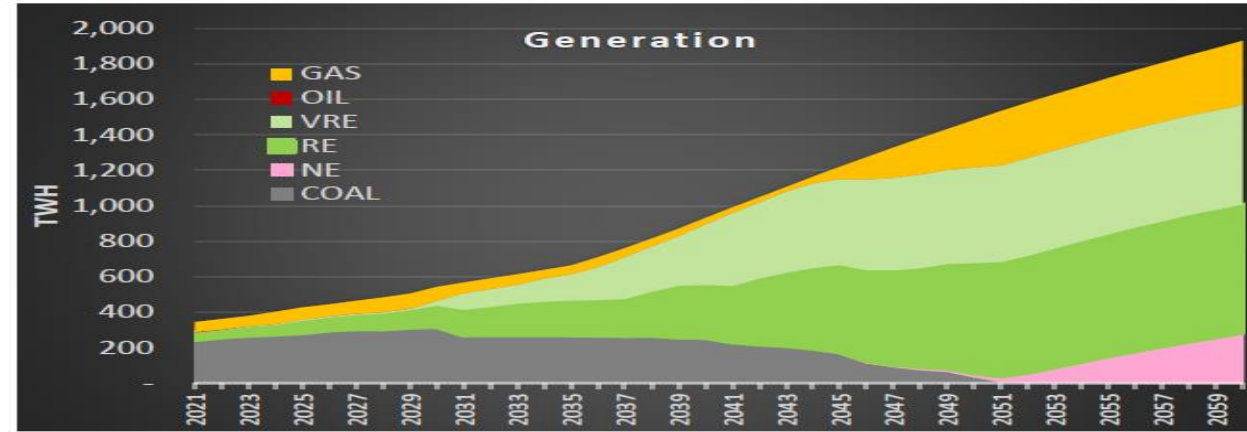
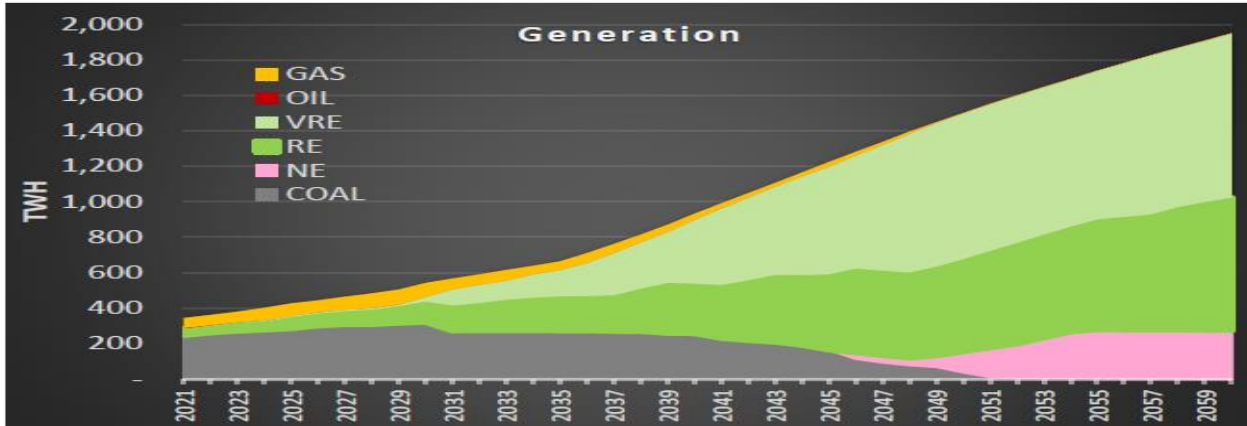
- GDP is projected to grow in the range of 4.40-5.50 in the period of 2021-2060
- Population is projected to grow in the range of 1.16-0.48 for 2021-2060
- Least cost approach
- Optimizing domestic energy production
- President's vision towards 2045

PDB per Kapita (USD)



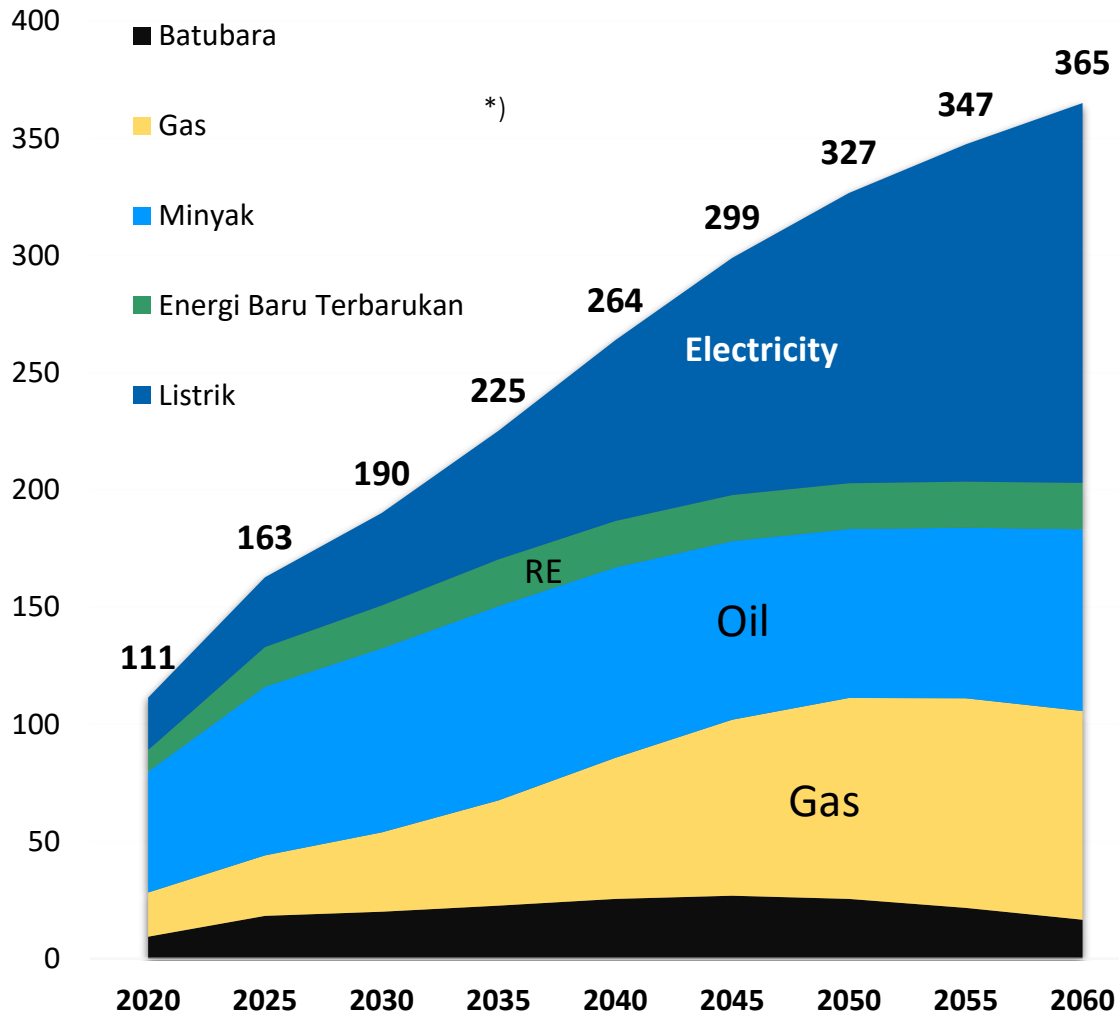
\* Bappenas, 2021, MEMR, 2021

# Electricity Generation and GHGs Emission, NZE Scenarios

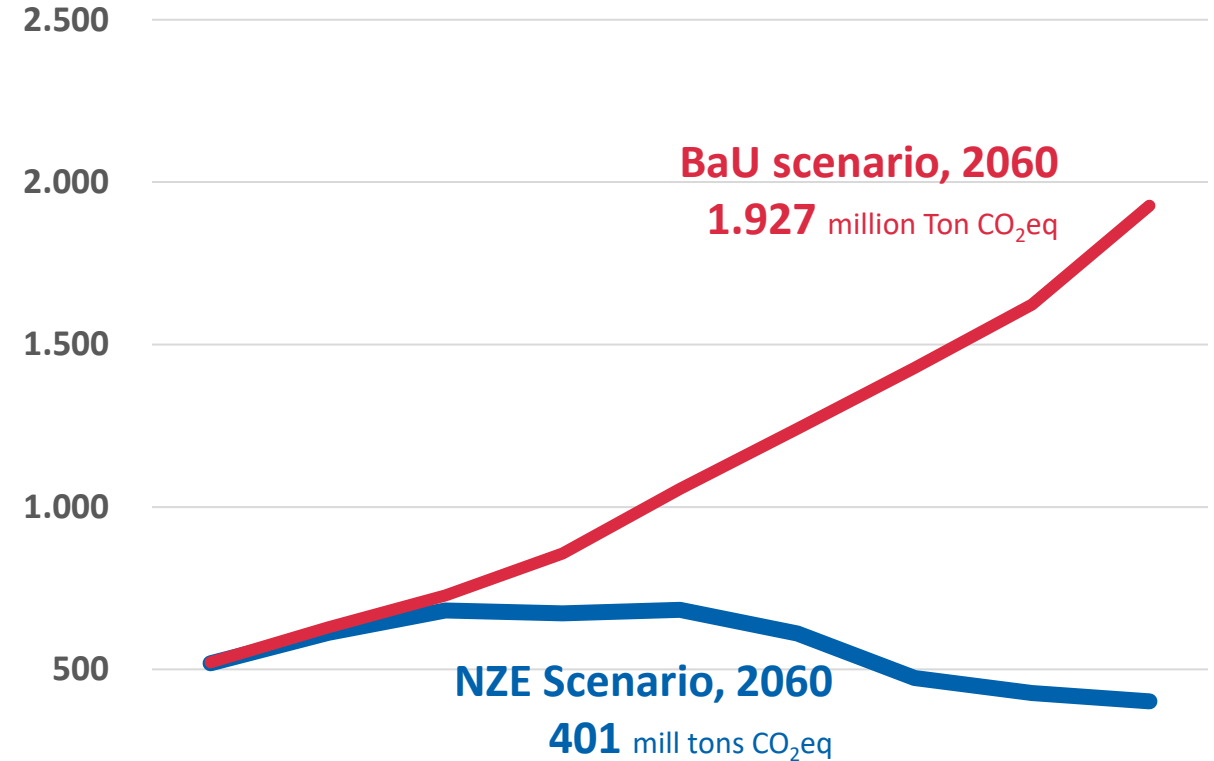


# Projected Final Energy Demand and GHGs Emission, NZE Scenario

Per Type | MTOE



GHGs Emission | Million tons CO<sub>2</sub> eq



	2021	2025	2030	2035	2040	2045	2050	2055	2060
Total	519	613	681	672	683	610	473	427	401
Total	522	630	728	857	1,056	1,240	1,429	1,623	1,927



# Thank You

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