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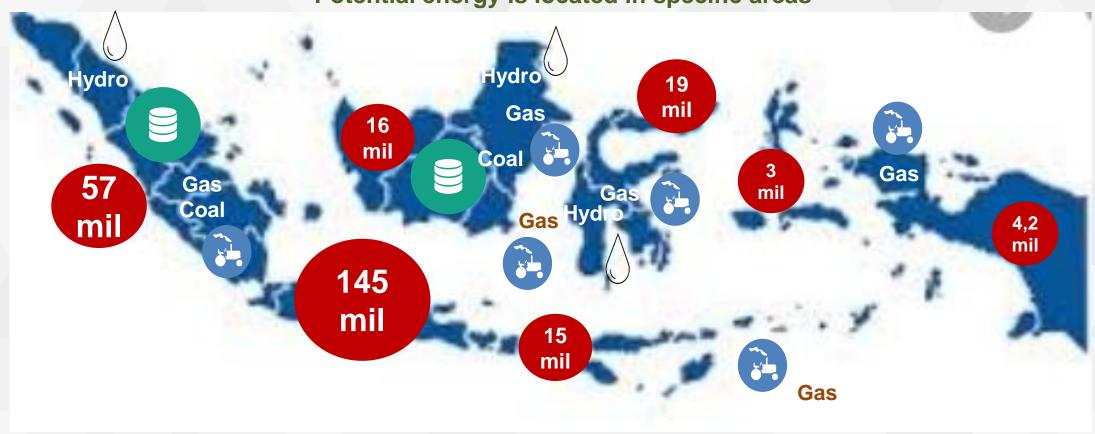
Map of Indonesia



Indonesia consists of more than 17.000 islands and it is big challenge to provide electricity to all island.

More than 50% of Indonesia population is located in 7 % of land area of Indonesia.

Potential energy is located in specific areas



Indonesia is the most complicated country for logistic matters



Technology Trend



Technologies



Energy efficiency



Electric vehicles



Renewables



Energy storage



Small modular reactor



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A Decarbonization

Implications



Distributed generation



Micro grids



Energy services





B Decentralization



Digital and Advanced Analytics



Beyond the meter



Smart grids/ Smart cities



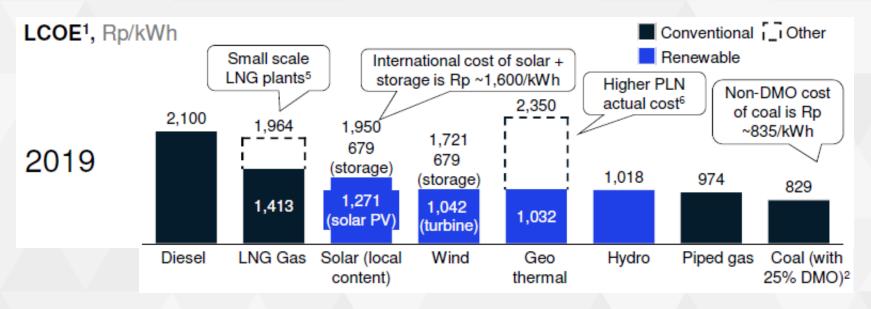


C Digitization

Source: McKinsey, PLN

Power Plant Cost Mapping



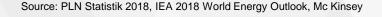


What is the best power plant for base load in medium/small island?

- a. Risk for reliability of small coal power plant or small LNG power plant vs cost diesel plant.
- b. Risk for availability of sun/wind vs cost of diesel plant.
- c. Risk for reliability of small coal power plant vs small LNG power plant vs availability of sun/wind.

What is the best power plant to replace medium and peak load in medium/small island?

- a. Risk for reliability of small LNG power plant vs cost diesel plant.
- b. Risk for reliability of battery vs cost of diesel plant.





Thank You

