

Indonesia's Solar Energy Overview and Prospects

Medco Power Indonesia
May 2021

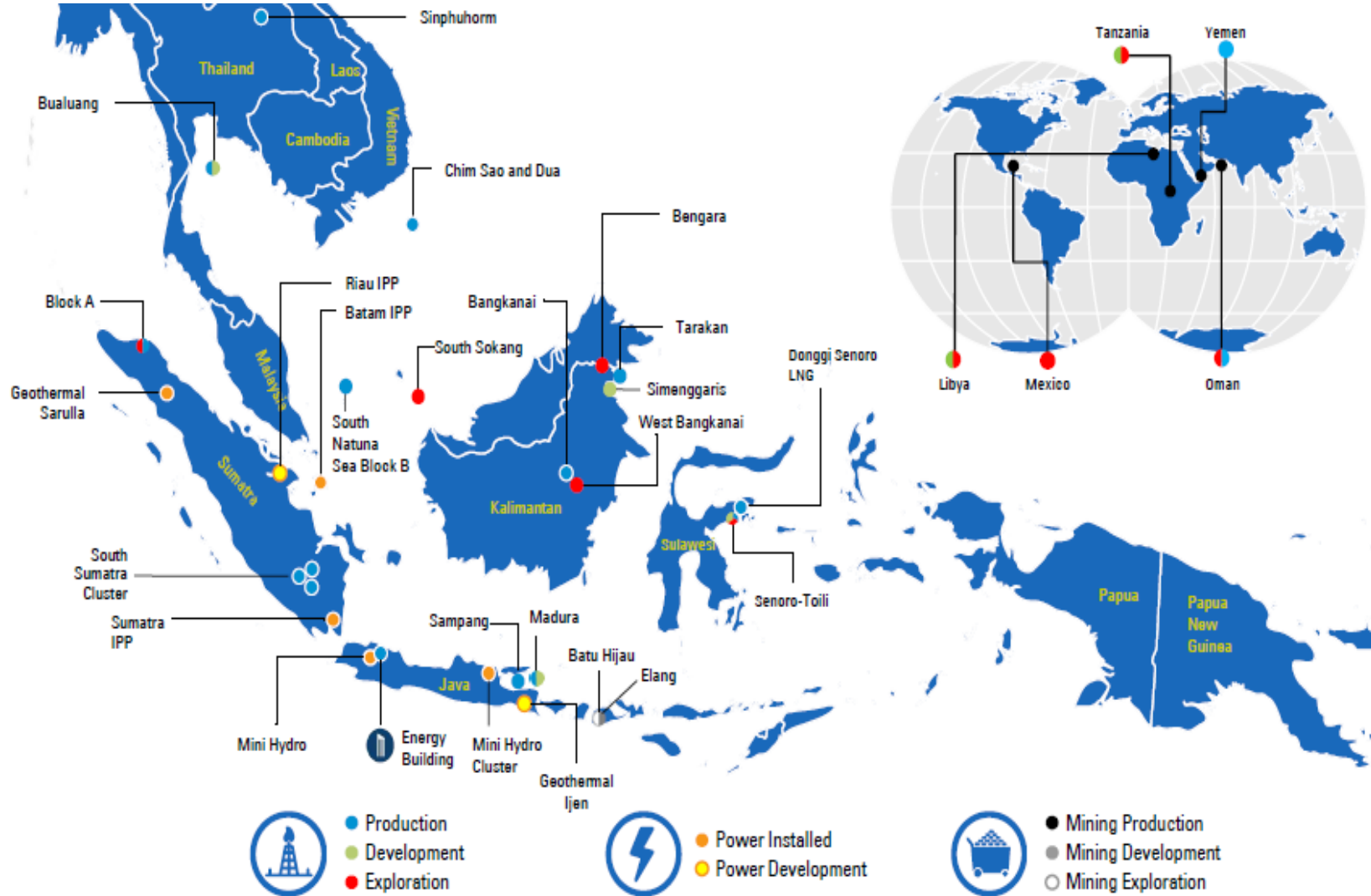


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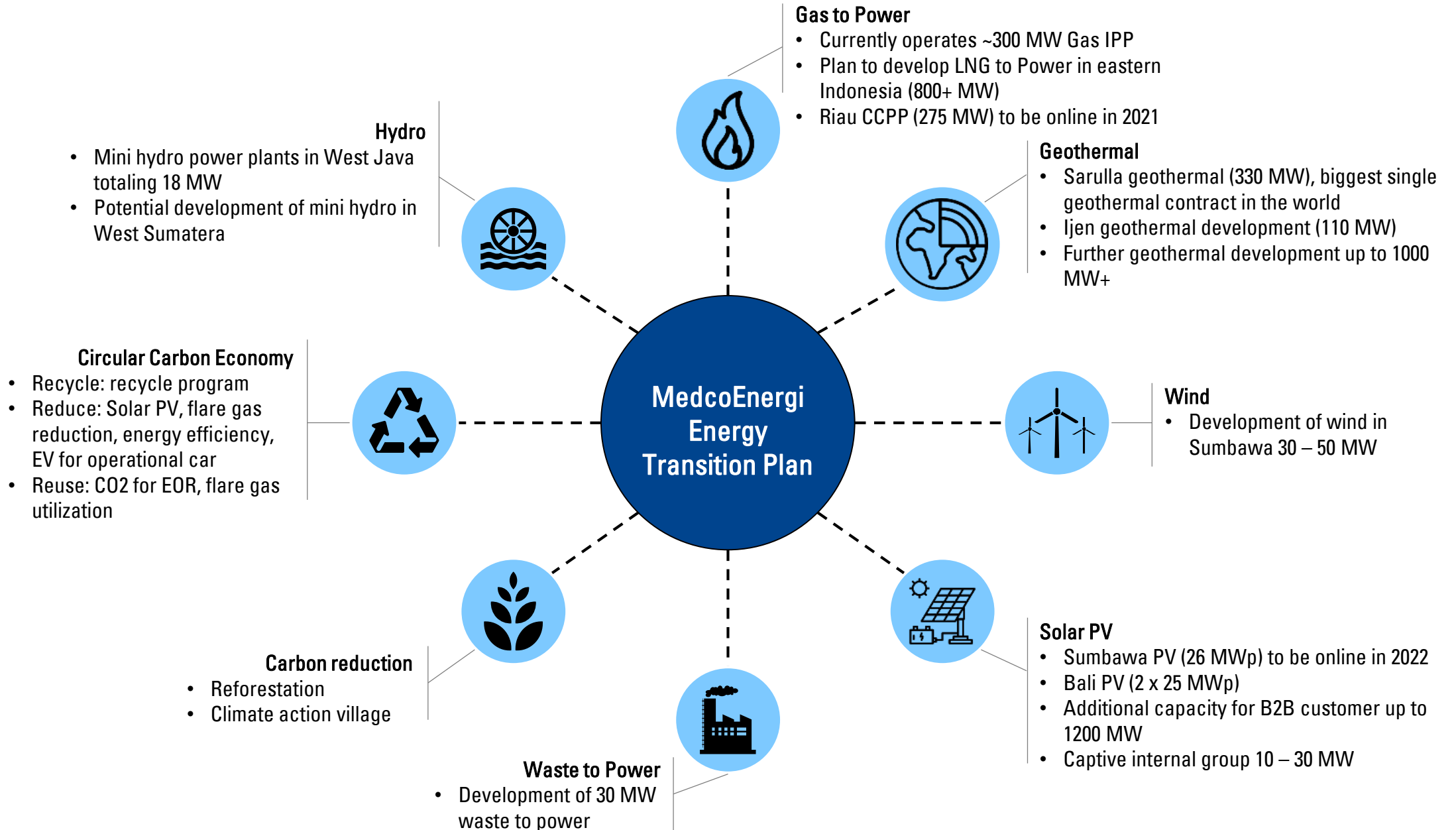
MedcoEnergi is an integrated energy & natural resources company



MedcoEnergi 2020's Production: Oil and Gas of 100 mboepd, gross power of 3.6 GW, and mining stockpile of 96 Mlbs copper, 42 Koz gold



Medco Power focuses on corporate energy transition agenda





Bali Solar PV 2x25 MWp and Sumbawa Solar PV 2x26 MWp

Bali Solar PV



Sumbawa Solar PV



- Bali Solar PV is located in East and West Bali. Expect to be COD by end 2023.
- First utility scale project that provides competitive tariff in Indonesia.
- Project has secured tariff approval from Govt and is in the final PPA discussion with PLN as the offtaker.
- Utilizing advanced solar pv technology.

- Indonesia’s largest ground-mounted utility scale Solar PV Power Plant (26MWp) for captive Amman Mineral Nusa Tenggara (AMNT) mining operation.
- Diesel replacement is expected to reduce operational cost of electricity of ~USD 1 million/annum and CO2 reduction nearly 40,000 tpa
- Under construction, expected COD Q4 2021. Fast implementation using local resources with competitive tariff.

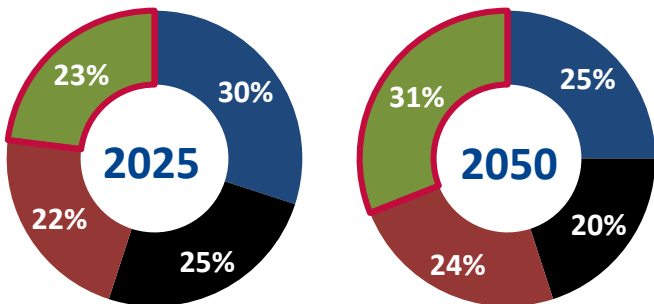
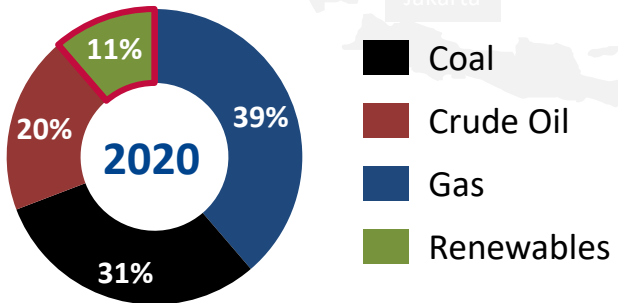


Fundamentally, Indonesia is well positioned to cultivate its renewable energy sector

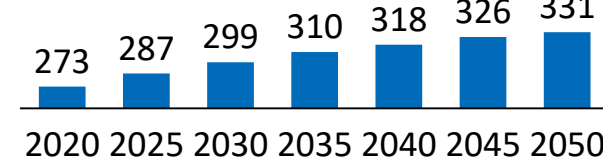
1 Renewable Energy Potential in Indonesia

Energy Source	Potential (GW)
Geothermal	23.9
Hydro	94.5
Solar	207.9
Wind	60.6
Biomass	32.6
Ocean	17.9

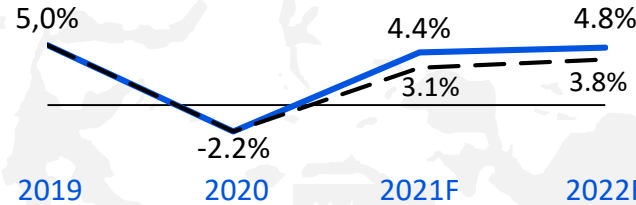
3 Indonesia Energy Mix, Mtoe



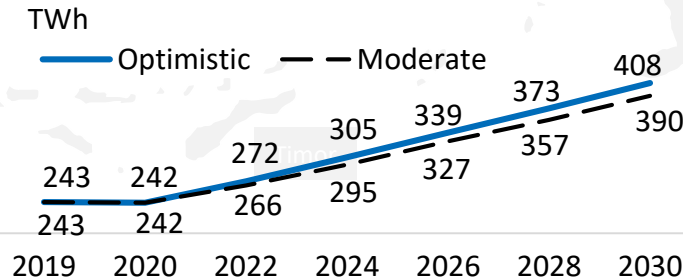
2 Indonesia's Population 2020 – 2050F



Indonesia's GDP Growth (2019 – 2022F)



Indonesia's Electricity Demand (2019 – 2030F)



4 Sup't Regulation for Renewable, e.g.:

- a MEMR Reg. No 4/2020: Replacement of BOOT scheme with BOO scheme
- b Presidential Decree on Renewable (Draft): Renewable tariffs



Available resources for renewables



Growing population and economy



Government's target for renewables capacity



Government's policy on renewable



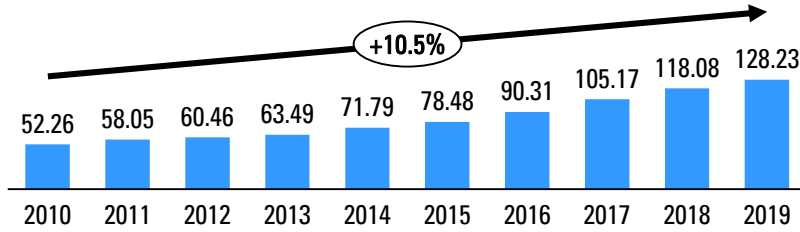
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Power

Compared to our neighbors, we are lagging in solar energy

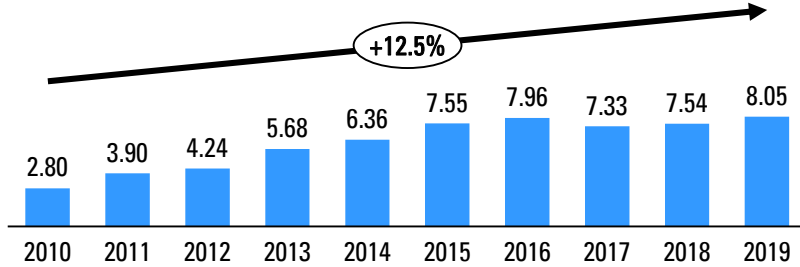
Total renewable energy capacity, 2010-2019 GW



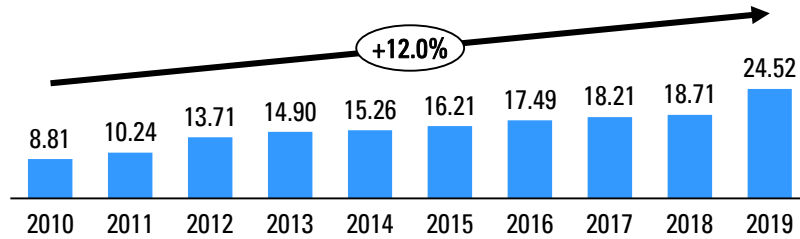
India



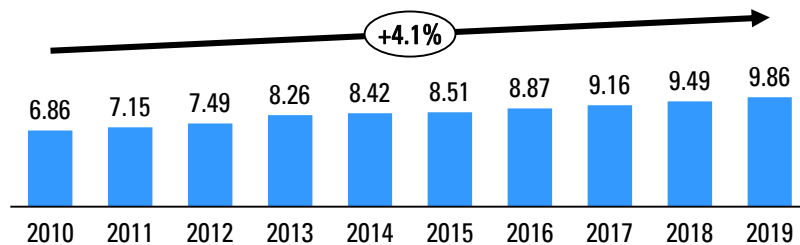
Malaysia



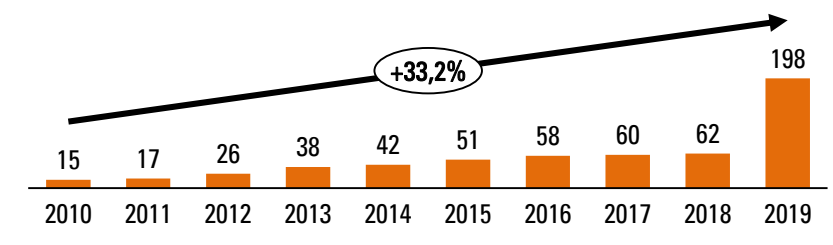
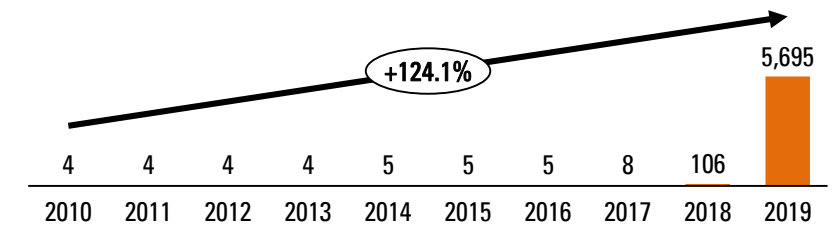
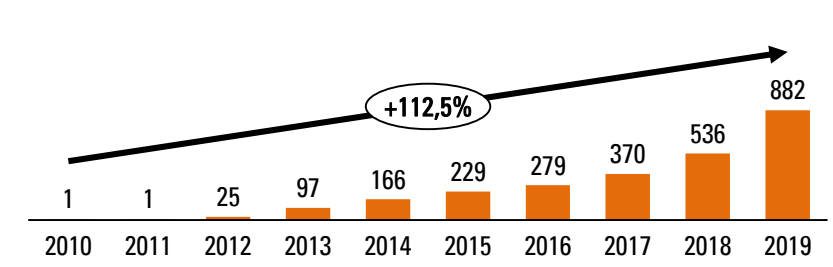
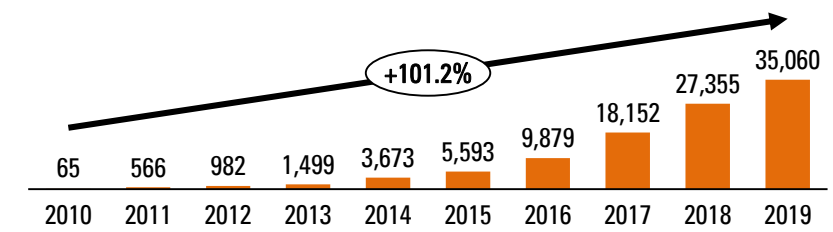
Vietnam



Indonesia

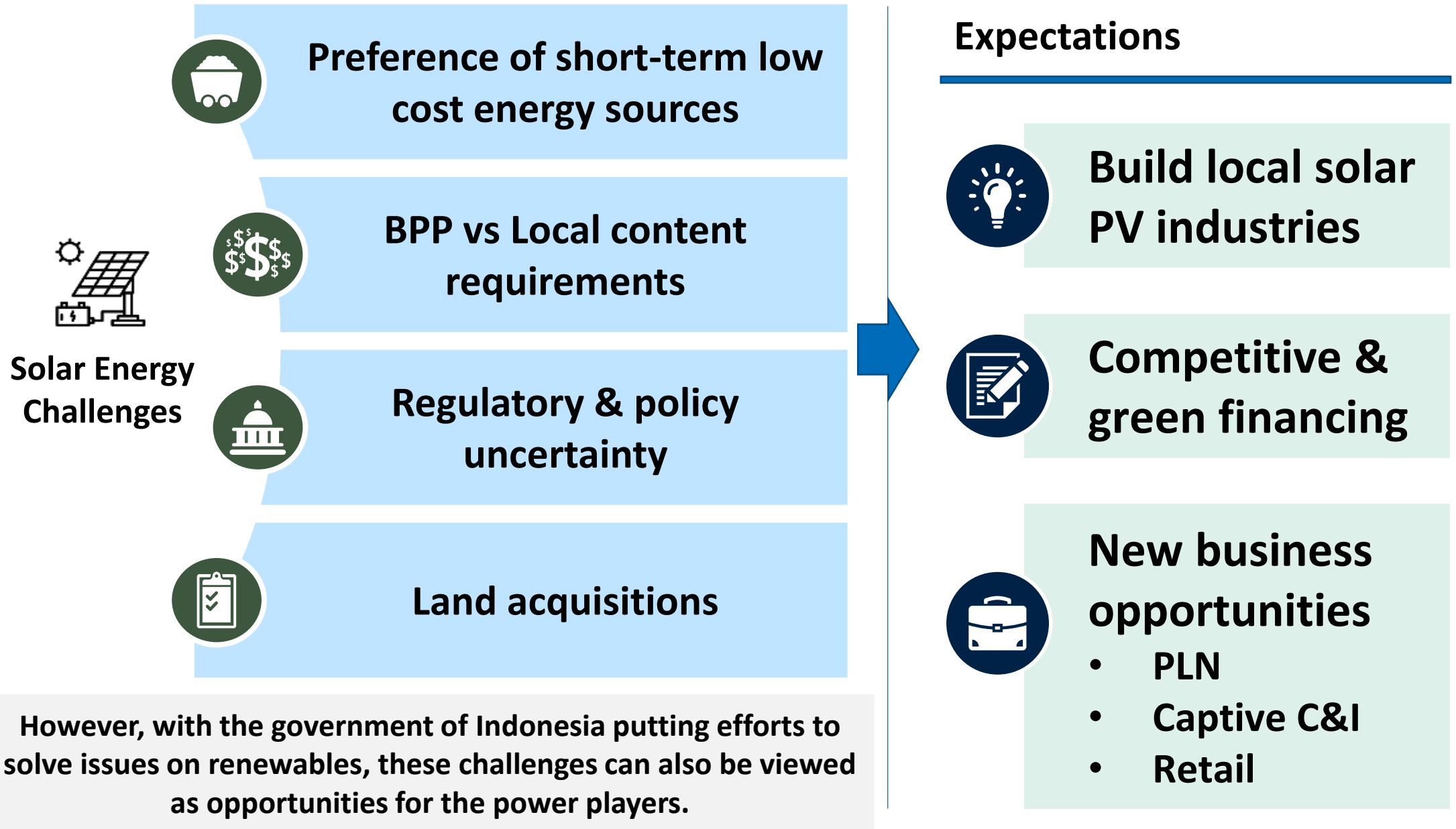


Solar energy installed capacity, 2010-2019 MW





Solar energy challenges in Indonesia and expectations





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