

Kementerian Koordinator Bidang Kemaritiman dan Investasi Republik Indonesia

Road To ISF 2024: The Future of Energy Value Chains in The Regional Low-Carbon Economy Development

Act. Assistant Deputy Coordinating Minister of Supporting Industry for Infrastructure

21 August 2024



Indonesia's Rich Natural Resource Deposits Enable Industrialization To Complement The World's Energy Transition Needs



Major energy transition trends





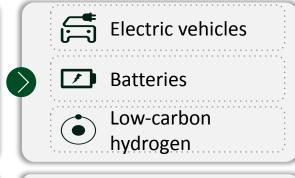


Low-carbon electricity generation

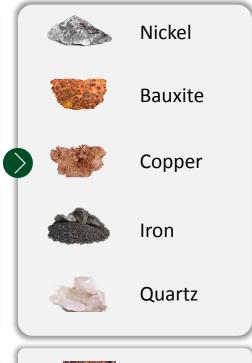
Growth in

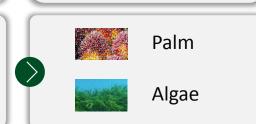
electrification











Abundant resources for low carbon economy







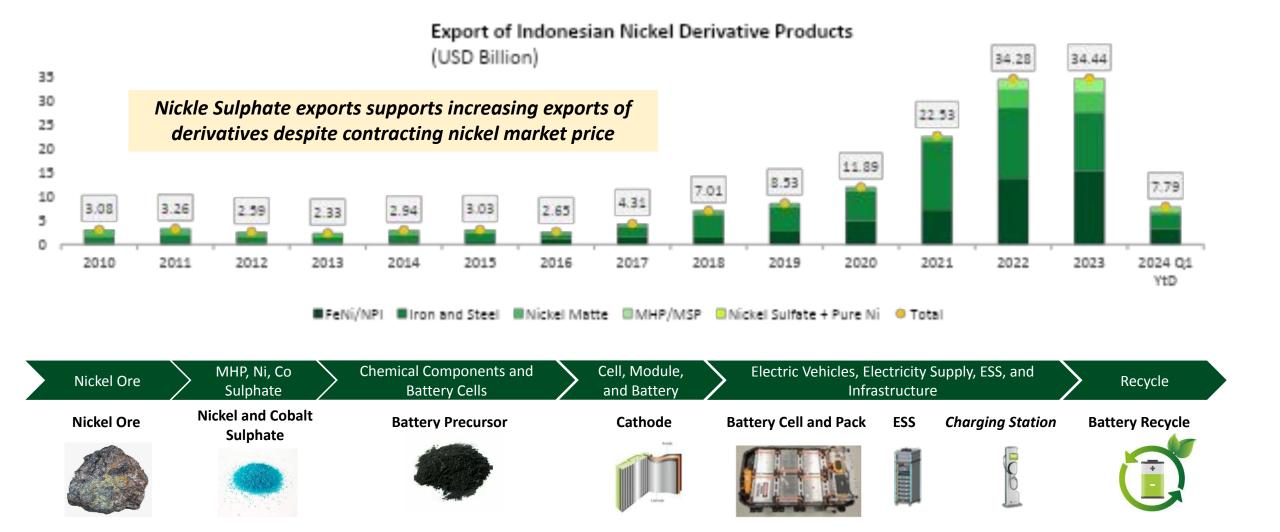




1. KESDM – RUKN

Through Downstreaming, Indonesia Is Industrializing, Transforming Its **Economy from Raw Commodities to High Value Industries**



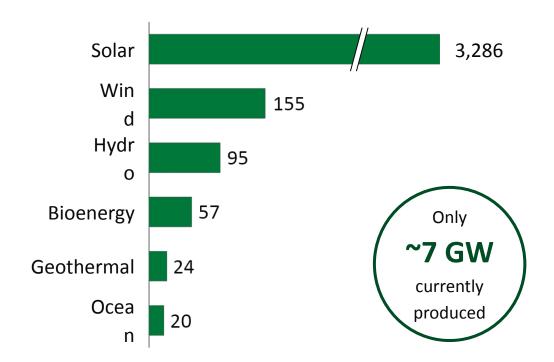


With 3,6k GW Worth of Renewable Energy, Indonesia Can Be The Green Energy Export Hub of ASEAN



Indonesia has a huge potentials of renewable energy generation

RE Potential (GW)



Indonesia as actively forming energy partnership for cross border electricity trade, especially RE





Indonesia will support the ASEAN Power Grid Vision



Singapore: ~2 GW_{ac} cross-border **green power exports** from Batam, powered by solar energy (Singapore-Indonesia RE Partnership)



Malaysia (Sarawak-Sabah): Cross-border electricity trade from West Kalimantan

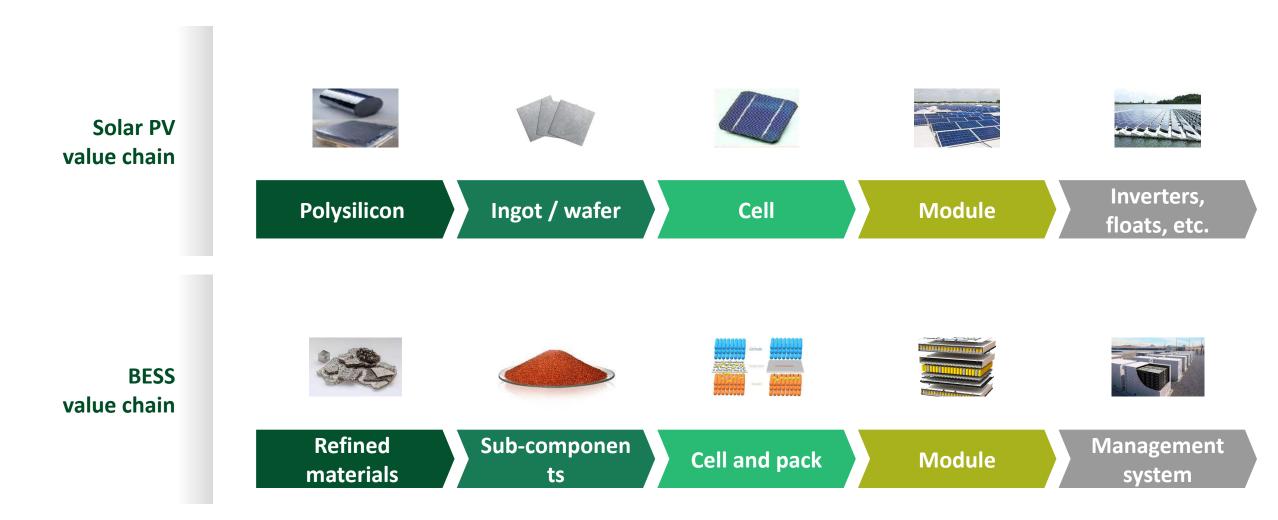


Papua New Guinea: Cross-border power exports from Skouw Papua, starting 5 MW

Source: <u>CMMAI</u>; <u>ACE</u>

Indonesia Plans to Expand the Domestic Value Chain for Solar PV and BESS

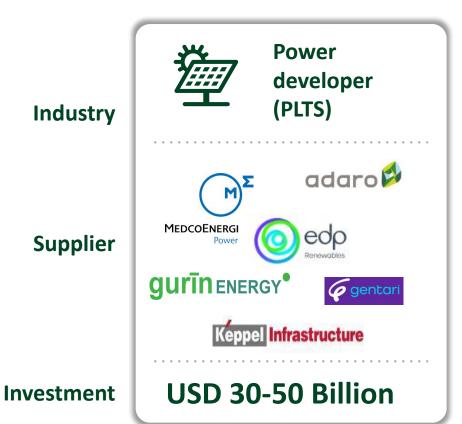




Through Collaboration with Singapore, Indonesia Has Attracted Investments in Green Power Exports and Solar Farm and BESS Supply Chain



Preliminary







The capacity that will be built by 2035: 2 GWac = 11 GWp panel + 21 GWh battery

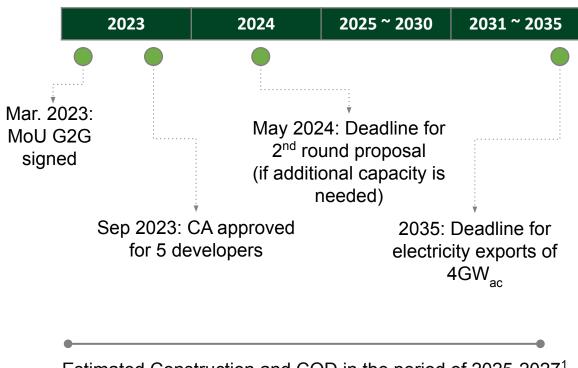


Green jobs as the substitute of job lost from fossil industry transition

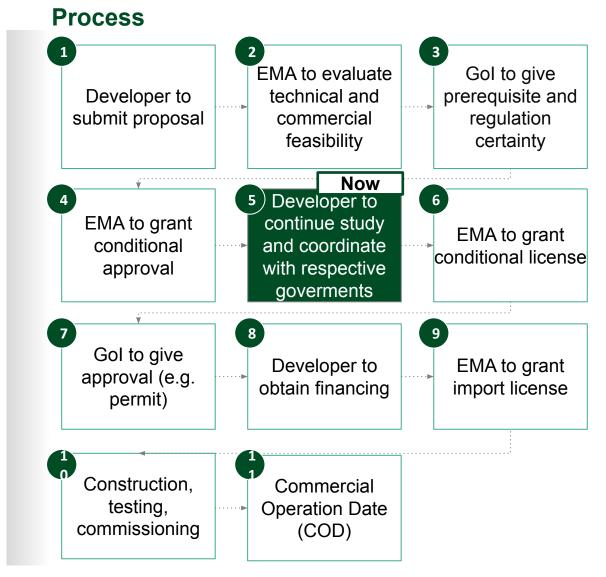
Electricity Exports is Projected to Commence in 2027



Timeline

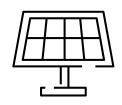


Estimated Construction and COD in the period of 2025-2027¹

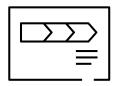


The GoI Is Working on Several Fronts to Accelerate Solar PV Supply Chain Developments and Green Electricity Exports









Supply chain developments

Developing Solar PV and BESS value chain that can meet LCR target and supporting policy

Transmission/infrastructure

Subsea cable corridor for electricity exports

Electricity exports regulation

Permit and license for electricity exports

Indonesia Will Host Indonesia Sustainability Forum 2024, A Forum for Nations and Business to Collaborate in Accelerating Global Energy Transition



Gol seeks to elevate ISF 2024 to be an Indonesia 'International' Sustainability Forum Snapshot from ISF 2023





ISF 2024 will be held on 5th-6th Sept, with side events starting on 4th Sept

- 2 weeks before UNGA 79th in New York
- 9 weeks before COP 29 in Azerbaijan



250+ speakers & 5000+ participants from government, business, academia, to philanthropy



20+ topics in sustainability, decarbonization and climate actions

ISF main & side events



Plenary Session



Thematic Session



Round-table Session



Workshop Session



Philanthropy forum



MoU Signing

Indonesia welcomes partnership to improve understanding and collaboration in key decarbonization solutions through ISF events



The Indonesia International Sustainability Forum 2024 is now open for participant registration!



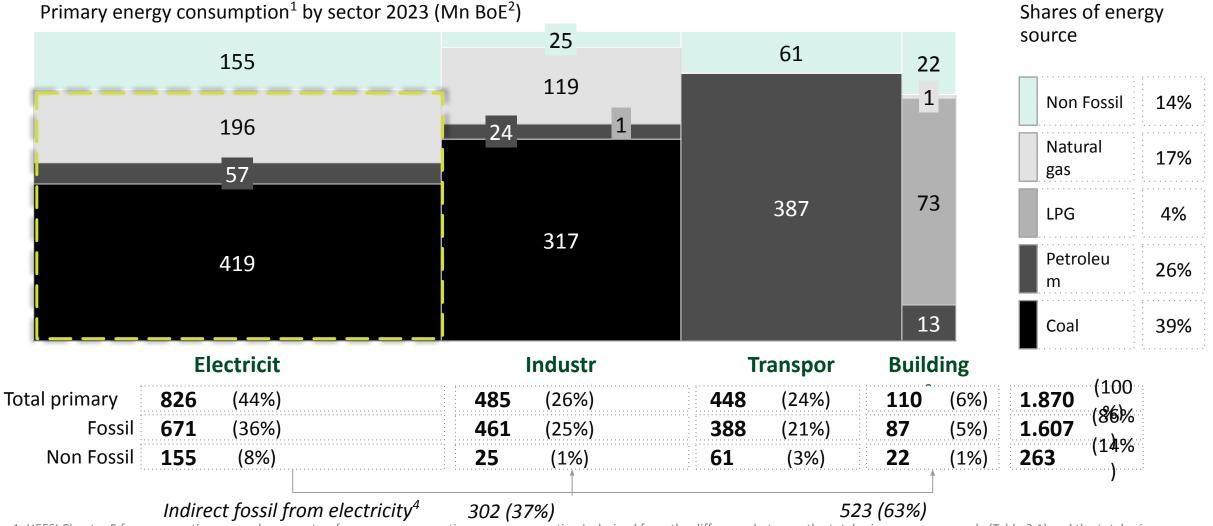




Thank You

Fossil Make Up 86% of Energy Consumption, with ~3/4 Consisting of Coal for Electricity, Petrol for Transport, and Coal for Industry





^{1.} HEESI Chapter 5 for consumption per end-user sector; for energy consumption, power generation is derived from the difference between the total primary energy supply (Table 3.1) and the total primary energy consumption of the end-user sector; Biogasoil is assumed to comprise 70% fossil volume and 30% non-fossil volume; 2. Barrel Oil Equivalent; 3. Residential, Commercial, and other sector; 4. Reallocation of fossil energy consumption from electricity generation to end-sector; Electricity consumption in Mn BoE for end sector: industry 70, transportation 0.2, buildings 114 Source: HEESI ESDM 2023