



Driving Indonesia's Energy Transition through Green Investment

Primanitya Swastyastu | VP of Business Development – Gas Power September 2022



Indonesia has developed a robust strategy to embrace energy transition and sustain energy security

National Grand Energy Strategy – Current mix (2019) & Targets (2050)



Energy Consumption: 0.8 TOEcap. Electricity Consumption: 1084 Kwhcap. **Energy Consumption**: 3.2 TOEcap. **Electricity Consumption**: 7000 Kwhcap.

Global & National Commitment – Current mix (2019) & Targets (2050)



United Nations Climate Change

COP 26 UNFCCC

↓ 32-43%

National Carbon Emission Reduction Target by 2030



Million Ton CO₂e Reduction Target

₽446

Million Ton Energy Sector CO₂e Reduction Target



"Membangun lingkungan hidup, meningkatkan ketahanan bencana dan perubhan iklim"

Main Agenda of RPJMN



Indeks Kualitas Lingkungan Hidup IKLH Achievement Target by 2024

₽27%

National Carbon Emission Reduction Target by 2024



PNRE leads the energy transition and decarbonization of Pertamina – while driving green investment through strategic cooperation



Building up a broad portfolio of Clean Energy businesses

is a key focus for PNRE moving forward, in order to support the energy transition goals of Pertamina, Indonesia and beyond

Strengthening decarbonization and presence of renewable and future energy

PNRE plays a key role in decarbonizing hard-to-abate sectors through electrification, batteries, hydrogen and carbon reduction projects



To support Net-Zero aspirations and decarbonization agenda, Pertamina has developed a holistic energy transition pillar and investment strategy







Building Nation's Carbon Economy

PNRE optimize 2nd largest tropical forest in the world for low cost NBS through strategic cooperation; accelerating climate investment for decarbonization and creating tangible impact for biodiversity and community development...



NBS can be the backbone of Indonesia's carbon economy with our 2nd largest global low cost NBS potential





>95 Mn Ha of forest area

#2 largest mangrove cover with 4mn Ha >500 Forest concessions

17%

largest tropical rainforest and peatland cover

~300

Bn tons CO₂ carbon stored in Indonesian land, up to 40x annual GHG emission from fossil fuels **15%** Contribute to supply of global NBS potential

3X

Growth rate compared to trees planted in non-tropical area, will increase effectivity of CO_2 storage.

Represented on the map:

Lower-cost¹ potential (high- medium feasibility NBS) Countries with a share of NBS potential that is 1% or greater

1. Low cost refers to the "practical potential of NBS (see "About the research" box). "Practical" potential is apportion of the total NBS abatement potential in recognition of the fact that it becomes progressively more difficult to secure carbon credits as the total potential of each source is approached. It uses an economic filer (agricultural rent) to identify and remove "low-feasibility" lands. We refer to it primarily as "practical" instead of "low cost" to reflect that it is just one of a number of barriers to mobilizing NBS (e.g., social, political, etc.). However, it is most appropriate in the context of a map to highlight that is also a reflection of the low costs that help to explain the bulk of volume in the global South as represented here



PNRE has started to drive green investment through NBS cooperation with one of the largest forestry concession holder in Indonesia







Unlock National Clean Hydrogen Potential

Develop at-scale green hydrogen production for national industries; drive decarbonization of the hard-to-abate sectors (e.g. power, steel, chemical, transportation, etc) and bridge renewable energy supply in remote areas.....



www.pertamina.com

Pertamina aims to be a leading H2 exporter and champion of Indonesia H2 economy











"towards cleaner and more sustainable energy for Indonesia"

