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PROJECT DIGEST FLOATING SOLAR POWER PLANT CILAMAYA

Presented by

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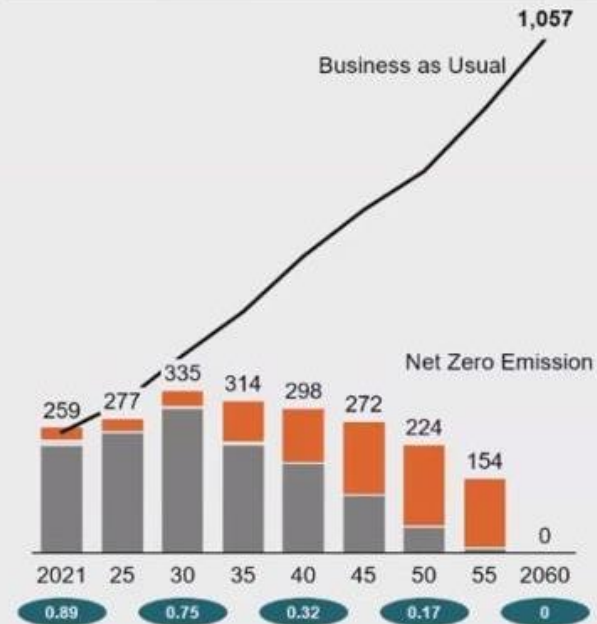
Background

- Energy transition & zero carbon emissions target by 2060
- The target for reducing carbon emissions in 2030 is 314.03 million tons of CO₂e, most of which is contributed by the energy sector
- The Renewable Energy (EBT) mix target is set from 11.20% in 2020 to 23% in 2025 and 31% in 2050
- Grand National Energy Strategy/GSEN (DEN, 2021), solar PV is targeted to represent one third (17.6 GW) of total clean electricity generation (48 GW) in 2035, of which 60/76% (10.7/13, 5 GW) is expected to come from utility scale solar power (including FPV)
- Presidential Regulation no. 112 of 2022 concerning the Acceleration of Renewable Energy Development for the Supply of Electric Power. To increase investment and accelerate renewable energy mix targets in accordance with the National Energy Policy and reduce greenhouse gas emissions.
- The planned 2000 MW Cilamaya Floating PLTS will support the Government's commitment by contributing clean green energy of 4 TWh/year and reducing carbon emissions.

At COP26, PLN has declared its roadmap to achieve net zero emission by 2060

xx Emission intensity, tCO2/MWh New energy RES Coal CCS³ + Gas CCS Gas² Coal Oil & other

Power sector CO2 projections, million tCO2e/yr



Capacity share by technology for net zero scenario¹, %



1. Disruptive scenario, after September power model re-run for 1499 TWh demand projection
 2. Gas with hydrogen cofiring up to 65% in 2060 3. Coal CCS with biomass cofiring up to 19% in 2060



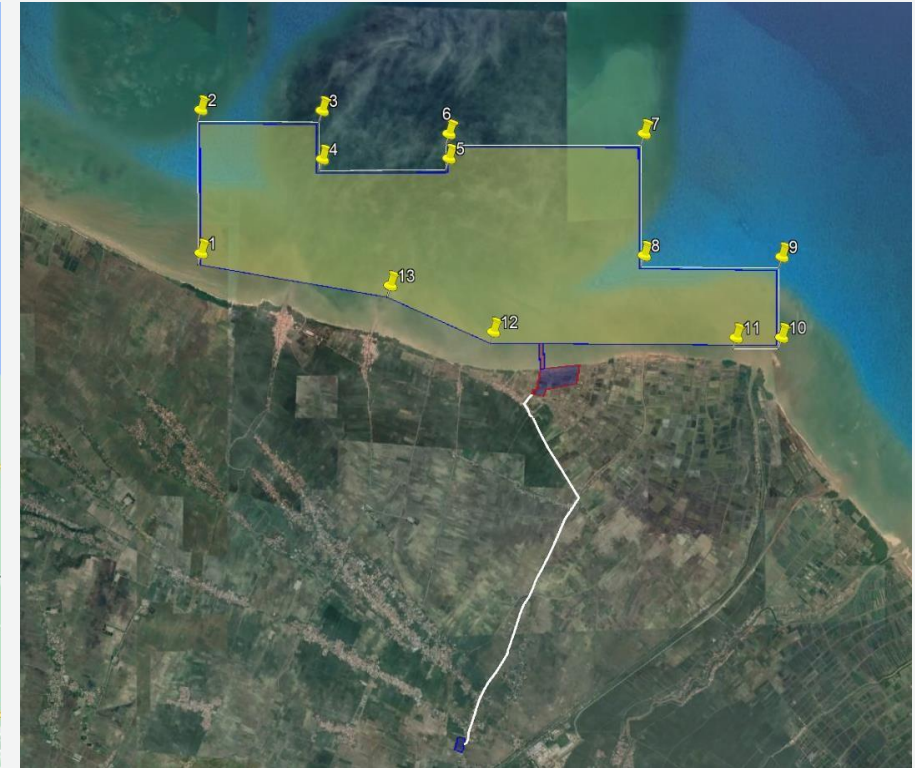
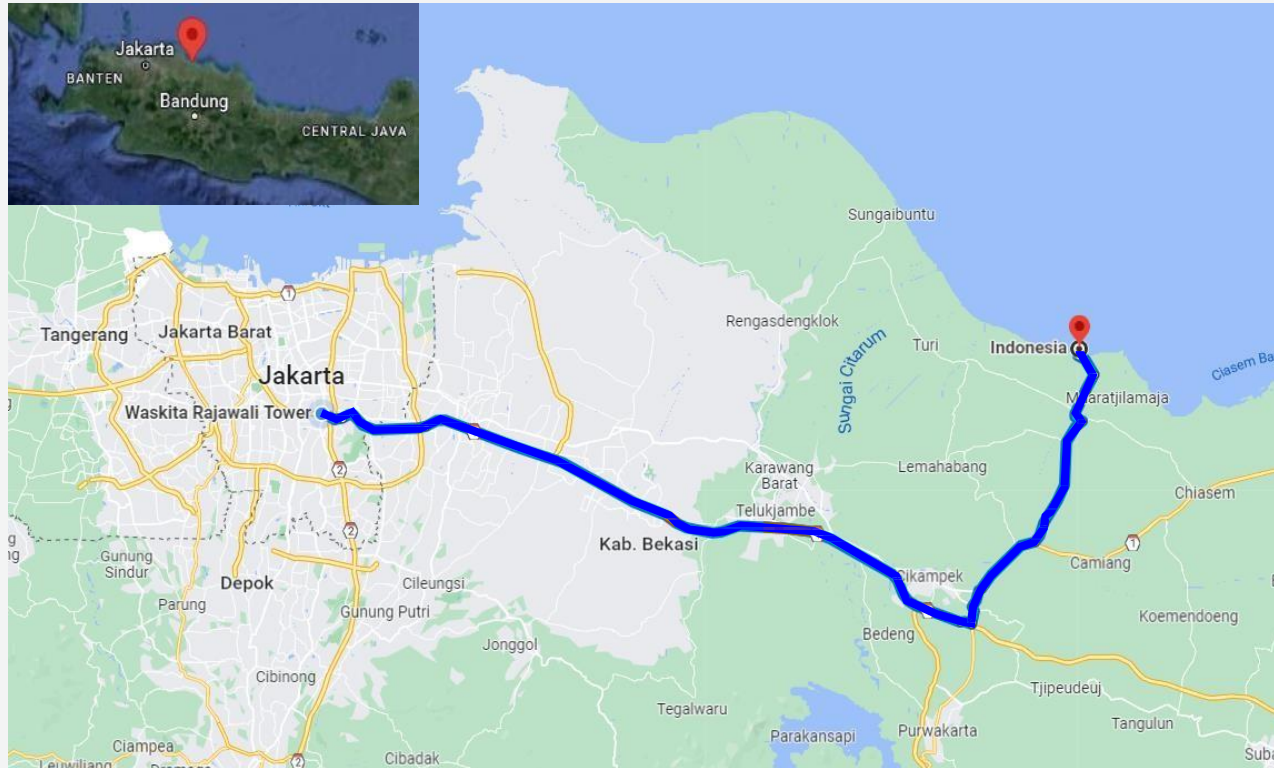
PLN is on a journey to become a clean power company

PLN will expand power capacity to support the growth of Indonesia's economy & power demand

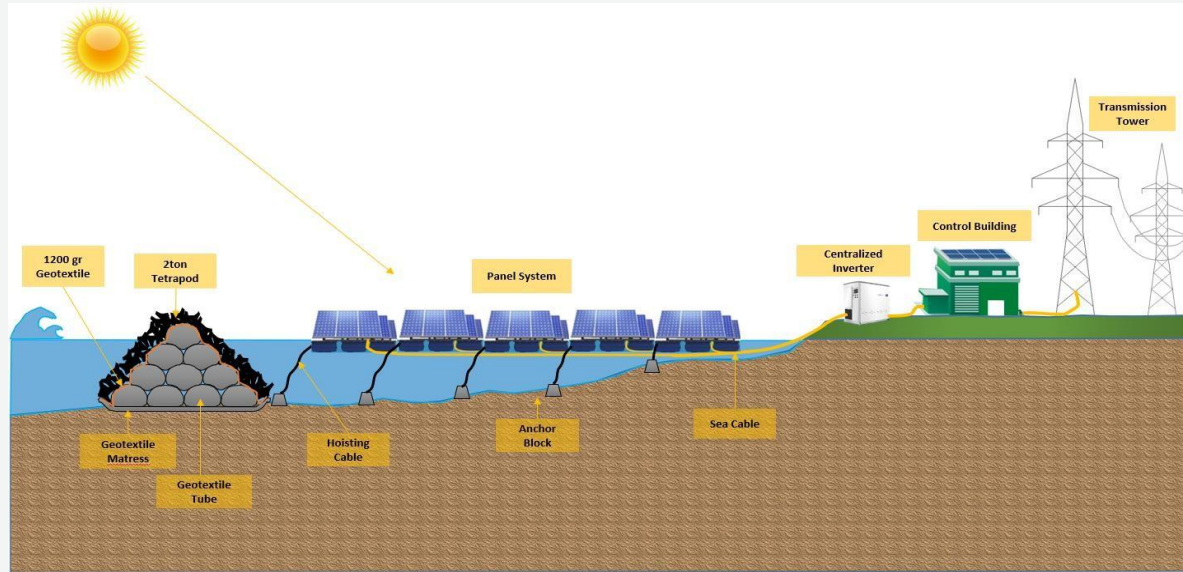
PLN to focus power capacity expansion with renewables technology

Project Location

- Rawagempol Kulon, Cilamaya Karawang, West Java, Indonesia
- Occupies a calm sea area of $\pm 2,441$ Ha



- Shallow sea waters with a depth of 0.615 m to 6.00 m
- The average sea current speed is 0 – 2 knots
- The maximum wave height that occurred was 1.57 m
- The PLTS position is optimally located from the nearest PLTGU (Java 1) as far as 6.6 km



Capacity	2.000 MW (Total Wp 2.230.000 kW)
Amount of Panel	3.003.554 unit (bifacial, capacity 670 Wp/unit)
Effective H/Day	5,6 Hour
Electricity Generated	4.088.000.000 KWh/year 11.200.000 KWh/day
Tariff	based on presidential decree no. 112 of 2022

Green Energy Commitment

- Solar PV Panels do not produce carbon emissions when producing electricity
- >USD 5 million reduction in carbon costs (min. 2,563,176 tonnes CO2/year)
- >68% domestic production components
- The float is made of more than 30% recycled materials
- no conversion of ricefield,
- no negative impact on fishermen
- 24.5 Ha preparation land can be used for fish auctions/markets or activities
- other benefits for society in the future.



THANK YOU

