The economics of solar energy storage investment in Surabaya Indonesia

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Should Indonesia invest in solar energy?
Indonesia is positioned to be a regional leader in renewable energy, with solar PV at the core of its decarbonization strategy. The combination of vast solar potential, improving policies, and growing investor interest makes now the right time to focus on Indonesia green energy investment.

Can solar energy be a strategy to meet Indonesia's energy goals?
Solar energy can be a strategyto meet this target," said Deon Arinaldo,Program Manager of Energy System Transformation,at the launch of the Indonesia Solar Energy Outlook 2025 study report - Breaking the Walls: The Future of Indonesia's Solar Energy and Energy Storage Innovations (15/10/2024).

What is Indonesia's potential for solar energy?
Indonesia's technical potential for solar ranges from 3,300 GW to 20,000 GW,according to IESR estimates,while the country's long-term energy policy targets up to 108.7 GW of solar by 2060. If implemented effectively,the program could redefine Indonesia's energy landscape and serve as a global benchmark for large-scale distributed renewables.

What are the LCR targets for solar energy projects in Indonesia?
oduction and encourage the development of the local industry. Renewable energy projects in Indonesia are also subject to the LCRs with targets set for 2024 for solar power (40%),bioenergy (40%),and geothermal (35%).44 Even though the LCRs target for solar projects is 40% in 2024,there is a requirement of 41% for centralized on- rid solar

Indonesia seeks nearly US$200B to hit 42.6 GW renewable goal by 2034, with solar, hydro, WTE, and battery storage as key investment drivers.

The Co-Investment Agreement between RGE and TotalEnergies was officially signed on 28 May 2025 at the Presidential Palace and announced in the presence of Indonesian President ...

By increasing the attractiveness of renewable energy investment and development in the country, Indonesia

can accelerate its transition to clean energy and meet its climate targets.

Declining battery costs and improved energy density are making storage solutions more economically viable. As renewable penetration rises, solar energy storage will become a ...

This comprehensive analysis examines the market dynamics, policy frameworks, economic considerations, and implementation strategies supporting successful solar deployment during ...

IESR has issued a report for the first time assessing the development of energy storage in Indonesia in Powering the Future: An Assessment of Energy Storage Solutions and ...

Surabaya city officials expressed enthusiasm about being selected for the pioneering project. City Secretary Ikhsan highlighted ongoing sustainable initiatives, such as ...

Operated by the village cooperative Merah Putih, these solar-plus-storage mini grids aim to provide affordable, reliable power while reducing dependence on costly diesel ...

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While the economics work over time, the upfront capital for a solar-plus-storage system, even with Chinese battery prices falling to new lows, remains a significant barrier.

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