# Average hybrid renewable storage price per 10MW in Indonesia

Are renewables a good source of energy in Indonesia?
As shown in Fig. 2 Despite an overall boost in energy generation, renewables only slightly improved their contribution to the energy mix, from 11.24 % to 13 %, with hydro and geothermal sources registering modest increases (Ministry of Energy and Mineral Resources Indonesia, 2023). Fig. 2.

Does Indonesia have a Wind-Hydrogen Hybrid power system?
The wind-hydrogen hybrid The fourth scheme result delivers an in-depth evaluation of a hybrid power system featuring a wind-hydrogen hybrid configuration developed explicitly for use in underdeveloped regions in Indonesia.

Which energy schemes are most cost-effective in Indonesia?
The Wind-Hydrogen (Fourth) and Hydrogen Only (Fifth)schemes are the most cost-effective. These schemes have the lowest Total Net Present Cost (NPC) at $48,969.27. They also have the lowest Levelized Cost of Energy (LCOE) at $0.218,which is below the local energy price for underdeveloped regions in Indonesia at $0.22.

Why is Indonesia accelerating geothermal power development?
The Ministry of Finance (MOF) is particularly interested in accelerating geothermal power development as it is a predominant source of renewable energyin Indonesia,representing 44% of the nation's actual renewable power production in 2018 and 42% of PLN's 2028 renewable power generation forecast. It is the focus of this report.

When will a battery storage facility be built in Indonesia?
In the BAU scenario,the construction of battery storage facilities commences in 2030for 2-hour (2H) duration batteries in provinces such as East Java,Jakarta,Lampung,and Riau,followed by other provinces except Aceh,North Sumatra and West Java starting in 2035.

Does Indonesia overpay for renewable subsidies?
To ensure that the Government of Indonesia does not overpay for renewable subsidies,the cost of renewable supply would be capped at its economic value,which is calculated as the economic avoided cost plus the social benefits of externalities.

HDF Energy is developing a green hydrogen project for power storage in Sumba. It combines the use of solar PV for power generation, batteries for short-term storage, and hydrogen system (electrolysis and fuel-cell) for overnight storage. ...

1) Total battery energy storage project costs average £580k/MW 68% of battery project costs range

between £400k/MW and £700k/MW. When exclusively considering two-hour sites the median of battery project costs are £650k/MW.

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