



Vanuatu pumped hydro storage

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Nikolaos, P.C.; Marios, F.; Dimitris, K. A Review of Pumped Hydro Storage Systems. Energies 2023, 16, 4516. https://doi /10.3390/en16114516

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Hydroelectric energy is founded on the conversion of the kinetic energy of water into electricity. It is the most



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common and mature grid-scale energy storage technology (Walker and Duquette 2022). In the case of a reservoir, the term "exploitation" refers to the available volume of water that is stored. The potential energy of the water due to the height of the upper reservoir is changed into kinetic energy and then into electricity using a hydro turbine (Blakers et al. 2021). In 2020, hydropower plants produced around 20% of the electricity consumed globally (Tzoraki 2020). The best size of pumped storage hydropower stations coupled with grid-connected solar and wind energy to minimize the levelized cost of energy (LCOE) is proposed by Bhimaraju et al. (2022).

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