Wallis and Futuna long term energy storage

Novel fuel cells can help store electricity from renewables, such as wind farms, by converting it into a chemical fuel for long-term storage and then changing it back to electricity when needed. iStock /Ron_Thomas

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The Nant de Drance pumped storage hydropower plant in Switzerland can store surplus energy from wind, solar, and other clean sources by pumping water from a lower reservoir to an upper one, 425 meters higher.

In order to reduce the dependency on imported fuels for electricity, Wallis and Futuna are investing in renewable energy solutions. Solar energy has been identified as a particularly viable option, and efforts are being made to install solar panels and encourage the use of solar water heaters in homes and businesses.

Explore historical and projected climate data, climate data by sector, impacts, key vulnerabilities and what adaptation measures are being taken. Explore the overview for a general context of how climate change is affecting Wallis and Futuna.

We delve into some of the most compelling recent developments in battery energy storage that are propelling us towards a cleaner future. Next-generation lithium-ion batteries. Lithium-ion (Li-ion) batteries have long been the industry standard for portable electronics, electric vehicles (EVs) and larger BESS.

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Providing energy storage beyond ten hours can enable remote mines, data centres and other off-grid industrial operations to run on continuous, carbon-free power, according to the report.

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