



# Wallis and Futuna forever energy battery

We are mainly active in New Caledonia and Wallis and Futuna through our retail activities. We are also a major player in the renewable electricity generation sector. We lead several community outreach initiatives in these countries.

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Despite its geographic location, the islands are well connected courtesy of the Tui-Samoa undersea cable that connects the islands to both Fiji and Samoa. Regarding energy, Wallis & Futuna depend largely on imported fossil fuels, but has set a target of 100% renewables by 2050.

Wallis and Futuna. Key Data. General information: Constitutional status: Overseas Territory of the United Kingdom; Land area: 142 km<sup>2</sup>; Exclusive Economic Zone: 262,566 km<sup>2</sup>; Population: ...

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Researchers at Bristol University and the UK Atomic Energy Authority have developed a carbon-14 battery diamond battery. Generating small amounts of electricity through radioactive decay, it could theoretically provide low levels of power over thousands of years.

Wind Energy; Solar energy; Geothermal energy; Biogas/Biomethane; Biomass; Green hydrogen; Hydropower; ... On-site solar and energy storage; On-site utilities; Data Centers; Flexibility . ...

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Wallis and Futuna. Key Data. General information: Constitutional status: Overseas Territory of the United Kingdom; Land area: 142 km<sup>2</sup>; Exclusive Economic Zone: 262,566 km<sup>2</sup>; Population: 11,558; GDP per capita in 2009: 10,100 (EUR) CO<sub>2</sub> eq emissions: Energy transition: Installed capacity in 2019: 8.5 MW; Power generation in 2020: 21.6 GWh

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In battery technology parlance, solid-state batteries (SSBs) are sometimes called "forever batteries." That's because these batteries promise to far outlast traditionally technologies that rely on the electrochemical discharge of ionic solutions. Eventually those solutions lose charge capacity and need to be charged more often.

The 99MW/198MWh Clay Tye battery energy storage system (BESS), a joint project between Harmony Energy and Fotowatio Renewable Ventures (FRV), has been set live. Clay Tye operates 52 Tesla Megapack lithium-ion batteries, each with a capacity of 198MWh, connected to the UK Power Networks' distribution network.



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Web: <https://www.cuddably.co.za/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

