

## Cook islands battery storage

We will announce new strategic and financial priorities on 28 November 2023 at our Capital Markets Day. We are inviting investors and stakeholders to hear our new priorities and objectives from our leadership team via a livestream.

Rolls-Royce has been awarded a contract to supply three 40-foot MTU-brand battery containers for a microgrid on the Pacific island of Rarotonga. The MTU EnergyPacks will serve as a power reserve, grid support and enable the increased use of renewable energy.

Vector Powersmart has previously chosen Rolls-Royce storage solutions for two other microgrid projects. On the Cook Island of Aitutaki, a 20-foot battery container has been controlling the microgrid there since 2019, storing energy from various sources and making it available in order to achieve the highest possible efficiency, grid stability and CO2 savings. At a vacation resort in Glenorchy, New Zealand, a 130 kVA battery container stores the excess power from the photovoltaic systems during the day and provides it at night and as emergency power.

Rolls-Royce offers its customers worldwide a comprehensive portfolio of energy systems that contribute to decarbonization - from simple storage solutions to complex microgrids that intelligently combine battery storage with renewable energies and diesel or gas gensets.

The MTU EnergyPacks, packaged in standard 40-foot shipping containers, will support the microgrid while enabling the increased use of variable renewable energy. These units will be integrated by Vector into an existing power plant run by local utility Te Aponga Uira.

It is the third such project the integration company has developed with Rolls-Royce, including one on the nearby island of Aitutaki where a 20 foot battery container has been controlling the microgrid since 2019. In New Zealand, a 130 kVA containerized battery also stores excess power from a photovoltaic system at a resort in Glenorchy for use at night time.

Rarotonga's microgrid supplies about 11,000 island inhabitants and includes photovoltaic systems, diesel gensets and batteries. The new MTU units will add a total storage capacity of 4,268 kWh and a power output of 4,800 kVA. Along with lithium ion batteries, the MTU EnergyPack houses an electronic control unit, transformers, and cooling equipment to form a complete energy storage system.

The development comes as Rolls-Royce plans to significantly expand its PowerPack production capacity at the Siemens-Technopark at Ruhstorf in Germany's Bavaria. This new production capacity will be available from early 2021.

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