

Energy storage market analysis new zealand

The International Energy Agency (IEA) regularly conducts in-depth peer reviews of the energy policies of its member countries. This process supports energy policy development and encourages the exchange of international best practices and experiences.

New Zealand has set ambitious targets for reducing greenhouse gas emissions, including achieving net zero emissions by 2050. The country enjoys many natural advantages for its energy transition, including an enviable renewable resource base.

In this report, the IEA provides energy policy recommendations to help New Zealand effectively manage the transformation of its energy sector in line with its climate targets.

New Zealand's solarZero says it aims to provide fast, sustained reserves with its virtual power plant (VPP) of 10,000 household battery systems. Meridian Energy, meanwhile, has secured approval for a 100 MW battery energy storage system - the country's largest such system to date.

SolarZero, a solar and battery storage supplier in New Zealand, has started offering grid-stability services in the New Zealand electricity reserves market through its 40 MW VPP. The company's entry into the wholesale electricity market was marked by the ringing of the NZX bell.

Over the past year, NZX, Transpower, Panasonic and Auckland University have jointly developed the software. They have also integrated the solarZero platform and validated the ability of the VPP to participate in the market.

SolarZero is now starting a staged enrollment of its 10,000 household battery systems into the New Zealand electricity reserves market to provide fast, sustained reserves. The VPP will help state-owned Transpower maintain a stable electricity grid as the nation transitions to 100% renewable energy by 2030.

SolarZero shares revenue from trading in the market with its community members through a monthly eco-bonus credit. Every member can expect to be credited NZD 18,000 (\$10,722) over the next 20 years by lending their solar batteries to take part in its VPP, thus reducing their power bills. The company claims the solarZero community currently saves more than NZD 2.3 million on annual energy costs.

"In the face of the highest energy prices in the history of New Zealand, every home that has a roof can now earn extra income, safely power through blackouts, and support their community by reducing the cost of electricity for everyone," said Andrew Booth, solarZero CEO.

Earlier this year, solarZero made headlines as US investor BlackRock agreed to acquire the company as part of its push into renewable energy in the Asia-Pacific region. At the time, solarZero claimed a 40% market share of new residential rooftop solar installs in New Zealand and had approximately 8,500 systems under its belt across the residential, commercial, and community sectors.

In another momentous development for New Zealand's battery energy storage market, Meridian Energy revealed that it has secured the green light for a 100 MW battery - the island country's largest such system to date. It will provide additional reserve power and resilience to the national grid.

The battery system is the first stage of Meridian Energy's Ruakō Energy Park, north of Auckland, and will also include a 125 MW solar farm. Construction is scheduled to begin early next year on land adjacent to the former Marsden Point oil refinery. It is expected to be completed in 2024.

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Web: <https://www.hollanddutchtours.nl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

