



Residential energy storage new zealand

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Ara Ake and solarZero collaborate on innovative winter 2023 peak solution for electricity system - enabling 30MW* of additional network capacity on-demand.

Ara Ake has announced a major, collaborative electricity pilot with solarZero in which Kiwis with solar and battery systems will contribute to the reliability of electricity supply for New Zealand, unlocking residential demand flexibility at an unprecedented scale.

The world-leading pilot integrates "distributed energy resources" of approximately 11,000*individual homes with state-of-the-art Virtual Power Plant ("VPP") technology* to help manage winter peak demand.

The solar batteries located throughout New Zealand will provide their capacity to the electricity market system operated by Transpower and can be called on in the rare situations when there are potential electricity shortages.

The result adds up to 30MW (roughly the same amount of power consumed by 30,000 homes) back into the grid. solarZero's batteries take just two hours to fully charge.

"It's great to see this kind of collaboration take place," the Minister of Energy and Resources, Hon Dr Megan Woods said. "These kinds of initiatives help to create a more sustainable and resilient energy system, which is crucial as we decarbonise and future-proof our economy."

The pilot will be the first to utilise real-time pricing changes introduced by the Electricity Authority in April this year that enable sector participants to bid and offer their demand flexibility and "distributed energy resources" into the wholesale market with more certainty.

"This is one of the most innovative, and globally significant, projects seen in the electricity industry in recent times. We're entering a new era of energy in which households are active enablers of a smarter, greener and cheaper power system," says Matt Ward, Chief Executive of solarZero.



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