Finland Telecommunication Base Station Energy Storage Project

Overview

Elisa is transforming the backup batteries in its mobile network base stations into a smartly controlled, distributed virtual power plant with a capacity of 150 MWh, which serves as part of the grid balancing reserve for the Finnish electricity grid. This new power plant can be used for. Finland's telecom sector is embracing innovative energy storage batteries to ensure uninterrupted connectivity across its vast forests and remote communities. This article explores how cutting-edge battery technologies address unique Arctic challenges while supporting sustainable growth in one of. Telecoms specialist Elisa is deploying battery and PV systems at base towers in Finland, which will “implement virtual power plant (VPP) optimisation of locally produced solar energy. This innovative initiative leverages AI to generate optimize when to charge and discharge the base station batteries. 9 million in funding from the government to create a Virtual Power Plant (VPP) using batteries.

Article Content

Finland invests in 150MWh VPP | Enlit World

The VPP operates via smart management of backup power from batteries to provide flexibility in electricity supply across thousands of base stations in the radio access network ...

Spotlight on Finland: Energy storage sector set to double

In terms of BESS capacity, approximately 250 MW of BESS capacity is operational across Finland as of mid-2025. The country added the 5 MW/10 ...

Case Elisa: Virtual Power Plant in the Telecom Industry

Elisa, a leading Finnish telecom operator, partnered with Gridle to transform the batteries in the mobile base stations into a Virtual Power Plant (VPP). This innovative initiative leverages AI to generate ...

150MWh battery storage virtual power plant to roll out ...

This VPP, which is expected to be the largest of its kind in Europe, will be formed by deploying its Distributed Energy Storage (DES) solution across its network, ...

Finland Telecommunications Energy Storage Battery Solutions: ...

From Helsinki''s tech hubs to Lapland''s wilderness, reliable energy storage forms the backbone of Finland''s digital infrastructure. By adopting advanced battery solutions tailored to Arctic conditions, ...

Virtual power plant

Elisa is transforming the backup batteries in its mobile network base stations into a smartly controlled, distributed virtual power plant with a capacity of 150 MWh, which serves as part of the grid balancing ...

Elisa granted €3.9m by Finnish gov''t to roll out virtual ...

The Finnish government has granted Elisa €3.9 million ($4.2m) in funding for the rollout of its Distributed Energy Storage (DES) solution across its ...

Elisa Oyj: DNA Tower becomes world''s first tower company to offer ...

DNA Tower Finland, a Telenor Towers company, has successfully connected base station batteries to the Finnish electricity reserve market using Elisa Industriq''s AI-based Distributed Energy ...

DNA Tower becomes world''s first tower company to ...

HELSINKI, June 5, 2025 /PRNewswire/ -- DNA Tower Finland, a Telenor Towers company, has successfully connected base station batteries to the Finnish ...

Finland: PV-plus-storage enables telecom networks to …

Telecoms specialist Elisa is deploying battery and PV systems at base towers in Finland, which will “implement virtual power plant (VPP) …

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