

SolarInnovate Energy Solutions

Wholesale bess storage system in Finland



Overview

How does Bess work in Finland?

BESS operators can also participate in cross-border markets to provide storage capacity for ancillary services, such as frequency regulation, which helps maintain grid stability and reliability. Ancillary services are currently the primary revenue source for BESS in Finland.

Is this Finland's largest battery energy storage system?

Swedish flexible assets developer and optimizer Ingrid Capacity has joined hands with SEB Nordic Energy's portfolio company Locus Energy to develop what is claimed to be Finland's largest and one of the Nordics' largest battery energy storage systems (BESS). The 70 MW/140 MWh BESS project will be located in Nivala, northern Finland.

Is Finland a good market for storage as a service business?

The Finnish market has some specific characteristics that make it an interesting target as a case study regarding storage as a service business. Finland is the first country in the world to have adopted smart electricity metering (hourly metering and remote reading) on a full scale.

What is Finland's energy storage capacity?

The total operational energy storage capacity is currently about 200 MWh, with an additional 400 MWh in various stages of development. The early projects are well-positioned to enhance flexibility in Finland's volatile power market.

Who owns Bess?

Ownership: BESS as a service provided to users by a third party, or delivery of the technology where the customer owns the BESS. This simplified framework is used as a methodology in the subsequent analysis of storage projects in Finland.

Why does Finland need Bess?

The need for BESS is exceptionally high in Finland because the country has set one of the world's most aggressive climate targets. The government has a legal obligation to reach carbon neutrality by 2035. Renewable energy sources account for over 50% of electricity production, and several renewable projects are being planned or developed.

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