Finland energy storage regulations

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This document contains the Grid Code Specifications for Grid Energy Storage Systems (hereinafter referred to as "Specifications") required by Fingrid Oyj (hereinafter referred to as "Fingrid"), by virtue of the system responsibility imposed on Fingrid, of converter-connected grid energy storage systems which are to be connected to the ...

This document defines Specific Study Requirements for type D battery energy storage systems (BESS) connected to specific locations in Fingrid"s network where use of grid forming controls (GFM) is seen as necessary. These requirements are also applicable for other networks connected to Fingrid"s network.

The Grid Code Specifications describe the technical and operational requirements of the equipment to be connected and the process by which the exchange of information in projects must be carried out.

"The grid code requirements are set according to the size of the facility from class A to class D. Almost all of the grid energy storage currently in use in Finland belongs to class A, meaning that the capacity is less than one megawatt.

Energy and climate policies that support sustainable development are generating a need for new energy storage solutions. Key drivers in this field include the electrification of transport, the integration of renewable energy production such as wind and solar power, an increased need for grid resiliency and security of energy supply as well as new,

Grid code specifications for power generating facilities. Power generating ...

Fingrid on julkaissut 21.6.2023 erityistarkasteluvaatimukset (SJV2019 / ...

Imbalance power between Finland and Sweden Imbalance price from 1.11.2021 ...

By virtue of the system responsibility on Finland, Fingrid has set the requirements for electrical systems and power plants connected to the Finnish power system. Whereas general principles and terms for connections are defined in Fingrid"s General Connection Terms (YLE) and the of the Main Grid Contract (KVS), more detailed requirements are given in Grid Code Specifications which are presented separately for power plants, demand connections (consumption), grid energy storage systems and HVDC connections. The Terms and Specifications also apply to electrical systems and power plants connected to the customer"s electricity network.

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complying with the requirements, we ensure that the connected equipment can withstand the voltage and frequency fluctuations caused by the power system, they do not cause interference in the power system and that they operate reliably in different operating situations and also during disturbances. The requirements also help network operators to gain access to the necessary information about the equipment.

Compliance with and verification of Grid Code Specifications is the responsibility of the Connecting Party connecting to the grid. It is important to take this into account in the agreements with suppliers. Similarly, it is advisable to start planning and exchange of information well in advance between the supplier, the related customer and the grid company, and possibly also with the distribution network company.

The current Grid Code Specifications are presented on their own pages, which also contain instructions and other background documents that complement the actual Grid Code Specification documents. The requirements are divided as follows: