



FTMRS SOLAR

Main transformer energy storage device





Overview

How does a medium voltage transformer work?

With the help of medium-voltage transformers, these storage systems can be connected directly to the medium-voltage grid and thus efficiently store renewable energy temporarily. In addition to the pure feed-in or feed-back of electrical energy, medium-voltage power electronics can also assume other grid-supporting tasks.

What is a medium-voltage transformer?

Medium-voltage transformers enable an efficient connection to the medium-voltage grid and grid management is optimized by power electronics. One of the main tasks of electrical storage systems is to keep the electricity grid stable and fail-safe in the face of fluctuating feed-in from photovoltaics and wind.

How has the energy storage device impacted the fusion power supply?

The introduction of the energy storage device has effectively reduced the grid's power impact from the fusion power supply from 260 MW to below 90 MW.

What is a multielement energy storage system?

Multielement means that the topology contains multiple types of energy storage elements. In this topology, the lithium-ion batteries are deployed centrally on the bus on the secondary side of the main transformer and the supercapacitors are deployed dispersedly on the secondary side of the rectifier transformer.



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Energy storage main transformer system

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