

ContainerPower Energy Solutions

France Energy Storage Emergency Power Supply



Overview

How does France manage security of electricity supply?

France has several mechanisms to manage security of electricity supply. A capacity mechanism commits capacity providers to make their generation or demand reduction available during consumption peaks; it includes 2.9 GW of demand side response.

What is France doing about battery storage?

France is working on reducing the barriers to the rollout of storage including the introduction of a legal framework, the simplification of the network connection rules, and the clarification of tax rules, with ambition to have a significant grid stabilising role of battery-storage in a horizon by 2030.

What is emergency power supply & why is it important?

From hospitals to data centers, the need for a dependable emergency power supply is paramount in ensuring continuity, safety, and mitigating critical risks during unforeseen power outages.

How can France ensure energy adequacy in 2025?

Additional efforts are especially needed by 2025 to assure system adequacy, following the 2020 closing of the Fessenheim nuclear plant and reduction of coal generation. France has a legal requirement to limit electricity supply losses in line with a 3-hour loss of load expectation (LOLE) standard, which is part of the Energy code.

How many GW of energy storage will Europe have in 2024?

EU-wide storage capacity rose from 4.6 GW in 2021 to 34 GW in 2024. In France, capacity increased tenfold in four years, from 100 MW in 2020 to 1.1 GW in 2024. According to the European Energy Storage Association, 200 GW of storage will be required across the EU by 2030, implying annual deployment of at least 14 GW.

What is the legislative framework for electricity security?

The main legislative framework for electricity security is based on the French Energy Code and the provisions of EU Regulation 2019/941. RTE, the transmission system operator, is responsible for assuring real-time power system adequacy as well as security, safety and efficiency of the power network.

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