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Title: Emergency use of 20kW German data center racks

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What are the new energy rules for data centers?

The Act provides for new rules on energy efficiency, energy reuse, waste heat, power supply from renewable energies and energy management systems, which are intended to make the operation of data centers more sustainable and the industry more innovative. These rules will come into force over the coming months and years.

Will new data centres become more energy efficient in Germany?

In the Energy Efficiency Act, Germany has set a PUE value of 1.2 percent as the threshold for new data centres coming online from July 2026 onwards, which will lead to a significant decline in average PUE values. But this only applies if it is assumed that new data centres continue to come online with high processing capacities.

How much electricity do data centres need in Germany?

Strong growth in data centre capacities can be expected in Germany, as can an ongoing rise in electricity needs. In 2024, data centres and smaller IT installations in Germany required 20 TWh of electricity, a figure which comprised around 4% of Germany's gross electricity consumption of 517 TWh (2023).

What is a data center energy reuse factor (ERF)?

In concrete terms, this means that data centers with an output of 1 MW or more that go into operation on or after July 1, 2026, must have an energy reuse factor (ERF) of at least 10 percent. This value will successively increase to 15 percent if operations start from July 1, 2027, and 20 percent if they start from July 1, 2028.

According to the Energy Efficiency Act, data center operators are obligated to introduce these systems by July 1, 2025. They involve continuous measurement of electrical power and energy ...

The Energy Efficiency Act, which was passed by the German government and comes into legal force on November 18, 2023, contains new specifications and requirements for the planning, ...

German Parliament passes Energy Efficiency Act (EnEfG). One of the main emphases of the law concerns data centers: inter alia waste heat requirements, energy efficiency standards, and ...

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All necessary data points are transferred in bulk to the EU data base, i. e. all relevant German DCs. Annex VII in EED and Annex 3 in EnEfG include data points. Thank you for your attention.

Depending on the function and importance of the data center, there are also legal requirements that make the use of emergency power generators de facto necessary. These ...

PRIME's Modular Data Centers are a prefabricated and efficient solution for 5G Macro Sites and Enterprise applications. The Natural Air Cooling system cuts energy costs dramatically - using 75% ...

On September 21, 2023, the German Parliament (Bundestag) passed the Energy Efficiency Act (Energieeffizienzgesetz, EnEfG), which imposes a number of energy efficiency obligations on all ...

Against this background, this blog post examines how European and German regulatory frameworks are governing the growing energy demand of data centers. It focuses on Germany's ...

In order to meet this demand, new data centres can be built, the degree of use of existing centres can be raised, and data capacity can be acquired from abroad.

In particular, the requirements on energy efficiency and the use of waste heat, which are punishable by fines, will require operators to make significant adjustments to their data centers.

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