

Energy Consumption of Data Centers in Romania



AI Overview

Data centers in Romania currently account for approximately 3% of the country's total electricity consumption, reflecting rapid growth driven by digitalization and AI adoption.

Current Energy Consumption

Romanian data centers consume about 3% of the national electricity supply, up from 2.1% in 2019, out of a total national consumption of roughly 50.8 billion kWh . This increase is largely due to the expansion of cloud services, data storage, and AI processing, which require substantial computational power . For example, AI workloads can consume ten times more energy than standard search queries, significantly impacting overall data center electricity demand .

Major Facilities and Infrastructure

Some of the largest facilities, such as ClusterPower in Craiova, operate with dedicated power plants, including a 200 MW trigeneration system, to meet their high energy needs . Data centers in major cities like Bucharest and Cluj-Napoca are expanding rapidly to accommodate growing digital and AI workloads . These facilities often rely on UPS systems to ensure uninterrupted power, which also contributes to energy consumption but is essential for protecting sensitive equipment .

Energy Efficiency and Renewable Integration

Article Content

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Vodafone: The energy savings in data centers in Romania equal the ...

The fact that we have reduced energy consumption in our main data centers by 350 MWh in just seven months is an

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Romania's datacenter market following its recovery and resilience plan

Romania's recovery and resilience plan Under the support of the Recovery and Resilience Facility set out by the EU following the

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Global data centre electricity consumption, by equipment, Base Case ...

Global data centre electricity consumption, by equipment, Base Case, 2020-2030 - Chart and data by the International

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Data centers in Romania represent 3% of national electricity ...

Data centers in Romania consume about 1.5 billion kWh of electricity annually, which represents about 3% of the total

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Vodafone Romania's data centers reached monthly

Vodafone Romania reached energy savings of around 50MWh per month in its main data

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Data centre electricity use surged in 2025, even with tightening ...

Data centre electricity use surged in 2025, even with tightening bottlenecks driving a scramble for solutions - News

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Romania possesses distinct strategic advantages for data center development, including a substantial proportion of renewable

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Romania is bypassed by big players in the data center market, but has ...

The data center construction market has seen 300% growth worldwide and continues to expand, and Romania, with

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Land price, energy mix, workforce availability, IT infrastructure are ...

Land price, energy mix, workforce availability, IT infrastructure are the main advantages of Romania to attract

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Romania is the next market for investors in data centers

Vertiv has operations in Bucharest and Cluj. At the same time, the energy demand and thermal management needed

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Recalibrating global data center energy-use estimates

Here, we integrate new data from different sources that have emerged recently and suggest

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AI Data Centers Energy Consumption in 2024-2026:

In summary, the growing energy needs of AI are a phenomenon that, between 2024 and

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Data centers in Romania at 3% of national electricity consumption

Romania's data centers represent 3% of national electricity consumption out of the approximately 50,818 billion kWh

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Data centers keep energy use steady despite big growth

Data centers that support businesses, internet services and our social media lives use lots of energy. As their

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Energy Consumption in Data Centres and Broadband Communication

This study reviews and uses existing literature and public data sources to estimate the energy consumption of data centres and

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Data centre electricity consumption by region, Base Case, 2020-2030

Data centre electricity consumption by region, Base Case, 2020-2030 - Chart and data by the International Energy

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Data centers and energy consumption: An important opportunity for ...

Data centers and energy consumption: An important opportunity for Romania The global development of data centers

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Energy performance of data centres

A European database, prepared by the Commission, collects and publishes data, which is relevant for the energy performance and

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Data Centre Energy Use: Critical Review of Models and Results

Chapter 3 summarises the critical review of data centre energy estimates from a range of available sources, including government

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Data centres & networks

As the world becomes increasingly digitalised, data centres and data transmission networks are emerging as an important source of

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Romania preparing to build giant AI hub, data centers

Romania is ambitious to catch the wave both on the power production and consumption side with new technologies

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Data centers and energy consumption: An important opportunity for ...

Romanian data centers have registered a significant increase in energy consumption in recent years, reflecting the

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Mihai Manole, CEO Tema Energy: The data center market in

The Tema Energy manager adds that the data center market in Romania is in a phase of “gain momentum” and

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How data centres can avoid doubling their energy use by 2030

Data centres consume immense energy but leading facilities use around 84% less than the norm; however,

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