Distributed Energy for Data Centers

Surging electricity demand from hyperscale data centers is reshaping U.S. power markets. From behind-the-meter generation to long interconnection delays, explore how AI, ...

This article explores how utilities, data center (or any new large load) developers, and distributed energy companies could deliver such a solution -- in other words, DERs-for-DCs.

While many LLMs are trained at a single data center, some large models are now being trained across geographically distributed data centers. This regional distribution, while largely static, can alleviate ...

To reduce carbon emissions, improve the performance of data centers, and alleviate environmental pressure by using clean energy distributed systems for power supply, this study uses ...

Distributed Energy Resources, or DERs, are stepping up as the game-changer critical facilities have been waiting for. These local, flexible energy solutions are transforming how data centers maintain ...

In 2025, AI demand drove data centers toward on-site power, BESS, and nuclear options, while grid delays increased. Here are the top trends that mattered.

Microgrids powered by Distributed Energy Resources (DERs) provide a viable solution, enhancing energy security, reliability, and power quality while reducing reliance on centralized grids. However, ...

With over 10,000 data centers worldwide--more than 5,000 of them located in the United States--and new facilities being built every day, the energy demand from data centers is growing rapidly. Much of ...

Microgrids, powered by Distributed Energy Resources (DERs), offer a promising solution by reducing dependency on centralized grids, integrating generation from multiple fuels and storage, and ...

Executive Summary One year ago, Bloom Energy"s inaugural Data Center Power Report documented an emerging reality: AI-driven compute demand was beginning to outpace the grid"s ability to deliver ...

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