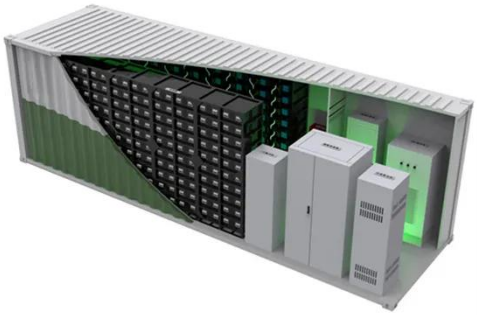
Distributed energy source using 1MWh data center racks in five Central Asian countries

Overview

Google says its Project Deschutes CDU can unlock 1 MW data centre racks with liquid cooling, and it will share the full design with the OCP later this year. At the 2025 OCP EMEA Summit yesterday, Google unveiled its fifth-generation liquid-cooling CDU for next-gen AI data centres. We also shared that we'll contribute our fifth-generation cooling distribution unit. Google has joined Meta and Microsoft's collaboration project on a power rack the companies hope will help them reach rack densities of 1MW. The message was clear: as AI workloads scale, so too must the capabilities of power, cooling, and mechanical systems. AI's insatiable appetite for power is no longer. TAIPEI, /PRNewswire/ — The Open Compute Project Foundation (OCP) is redesigning data center power architecture to support AI's growing demands, introducing “1 Megawatt racks” that could slash energy losses from 40% to just 7%, according to Chief Innovation Officer Cliff Grossner. With. Energy-efficient AI, battery storage systems, and renewed interest in nuclear have reshaped how data centers generate, consume, and manage energy. In 2025, data centers evolved from passive utility customers to active energy planners, investing in on-site generation, battery storage, and flexible.

Distributed energy source using 1MWh data center racks in five Cer



Power Distribution in Data Centers

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DIGITIMES ASIA: OCP Targets 1MW Racks to Cut Data Center Energy ...

OCP's proposed "1 Megawatt racks" would move power supplies out of server racks into separate units. Eventually, power generation could move entirely outside computing floors, with facilities re ...

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Enabling 1 MW IT racks and liquid cooling at OCP EMEA Summit

Longer term, we are exploring directly distributing higher-voltage DC power within the data center and to the rack, for even greater power density and efficiency.

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Google unveils CDU to unlock 1MW data centre racks

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OCP targets 1MW racks to cut data center energy losses to 7%

The OCP community funded by hyperscale data center operators is investigating alternative concrete formulations that use less cement, making them less carbon-intensive.

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Hyperscalers prepare for 1MW racks at OCP EMEA; Google

announces ...

At the OCP event in Dublin this week, all three companies reiterated that racks with AI-focused IT hardware could reach more than 500kW each before 2030, and 1MW not long after. In such a scenario, ...

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How Data Centers Redefined Energy and Power in 2025

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.

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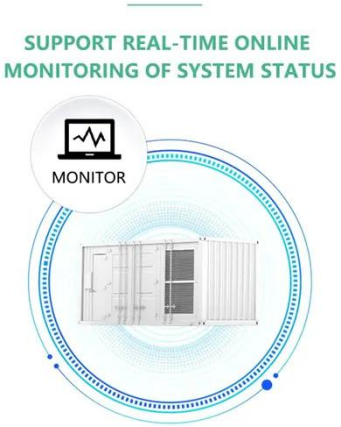

Inside Google's Plan to Deliver 1MW Racks and Cool ...

Google outlines new AI data center infrastructure with +/-400 VDC power and liquid cooling to handle 1MW racks and rising thermal loads.

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OCP's Innovative 1MW Racks: A Game-Changer for Data Centers' Energy

As data centers increasingly consume hundreds of megawatts of electricity, the

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