

Could '1 megawatt racks' transform data center power architecture?

The OCP community is exploring radical redesigns of data center power architecture, including the concept of '1 Megawatt racks' that would move power supplies out of server racks into separate rack units. Eventually, power generation capabilities could move entirely outside the computing floor to become integrated with the data center facility.

Will Google's Project Deschutes CDU unlock 1 MW data centre racks?

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. It looks like what a mad scientist would come up with.

Will Google & Microsoft collaborate on a 1MW power rack?

Google has joined Meta and Microsoft's collaboration project on a power rack the companies hope will help them reach rack densities of 1MW.

Could '1 megawatt racks' reduce energy losses?

The Open Compute Project Foundation (OCP) is spearheading a radical redesign of data center power architecture to support AI's explosive growth, including the concept of '1 Megawatt racks' that could reduce energy losses from 40% to just 7%.

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At Schneider Electric, we actively collaborate with NVIDIA, and the 800 VDC sidecar is the first solution on the way to 1 MW IT racks.

Rittal's latest modular cooling distribution unit uses direct liquid cooling based on water. The manufacturer used Open Rack V3 OCP principles in its development.

Google is planning for datacenter racks supporting 1 MW of IT hardware loads, plus the cooling infrastructure to cope, as AI processing continues to grow ever more energy intensive. At the ...

For context, there are 1,000 kilowatt (kW) in a MW. That means 1MW is a wild leap from the 15 kW less racks that permeate data centers today. It's even a giant jump from the high ...

At the OCP 2025 EMEA Summit, Google unveiled major infrastructure innovations to power the next wave of AI workloads, including a shift to +/-400 VDC power delivery capable of ...

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

Two weeks ago we kicked off one of the most ambitious projects: the development and demonstration of a 1MW high-density rack PoC in Luleå, in the north of Sweden.

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