

# Powering AI: How Tech Giants And Innovative Cooling Solutions Are Shaping The Future Of Data Centers



The rapid advancement of artificial intelligence (AI) is significantly increasing the energy demands of data centers, prompting major technology companies to explore innovative solutions to power these facilities sustainably. The International Energy Agency predicts that [data center investments will surge](#) in the coming years, fueled largely by increasing digitalization and the rise of generative AI. Undoubtedly, this has led to growing concerns about the environmental impact of AI. Electricity usage is on the rise, with [data centers projected to consume up to 9% of electricity](#) in the United States by the end of the decade.

To address the rising demand for AI, [tech giants Microsoft, Google and Amazon have entered into multi-billion dollar nuclear energy agreements](#). These deals aim to ramp up their energy supply to fuel the immense computing demands of generative AI. Additionally, efforts are being made to develop smarter techniques for cooling in data centers. Among the frontrunners is liquid cooling, where water is used to keep servers and other equipment from overheating.

[Schneider Electric](#), a French multinational corporation that manufactures power equipment, has taken a major step to expand its data center capabilities with an \$850 million acquisition of a controlling stake in American-based Motivair Corp – a leader in liquid cooling technology for high-performance computing. The company's CEO acknowledged the deal was a significant investment, but emphasized that the move complements Schneider's strategy to enhance its data center solutions.

As AI continues to drive the expansion of data centers, it is imperative for technology companies to adopt sustainable practices and engage with communities to mitigate environmental and societal impacts. Balancing innovation with responsibility will be key to ensuring that the growth of AI benefits all stakeholders.

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