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Macro Roundup Artcile

Headline: AI Datacenter Energy Dilemma - Race for AI Datacenter Space

Article Link: https://www.semianalysis.com/p/ai-datacenter-energy-dilemma-race

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Publication	Semi Analysis
Publication Date	March 15, 2024

Tweet: Datacenters currently consume approximately 1.5% of global electrical generation. @dylan522p @dnishball forecast they will consume 4.5% by 2030 and "there is a real power crunch coming soon."

Summary: The AI boom will indeed rapidly accelerate datacenter power consumption growth. We believe AI will propel datacenters to use 4.5% of global energy generation by 2030. Datacenter power capacity growth will accelerate from a 12-15% CAGR to a 25% CAGR over the next few years. Global Datacenter Critical IT power demand will surge from 49 Gigawatts (GW) in 2023 to 96 GW by 2026, of which AI will consume ~40 GW. In reality, the buildout is not this smooth and there is a real power crunch coming soon. Related: Electricity 2024 and Data Centres Curbed as Pressure Grows On Electricity Grids and Microsoft Infrastructure - AI & CPU Custom Silicon Maia 100, Athena, Cobalt 100

Primary Topic: Energy

Topics: Energy, Investment, Op-Ed/Blog Post, Productivity

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