

GLOBAL X INSIGHTS

The Next Big Theme: August 2026

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Date: August 13, 2026
Topic: **Thematic**

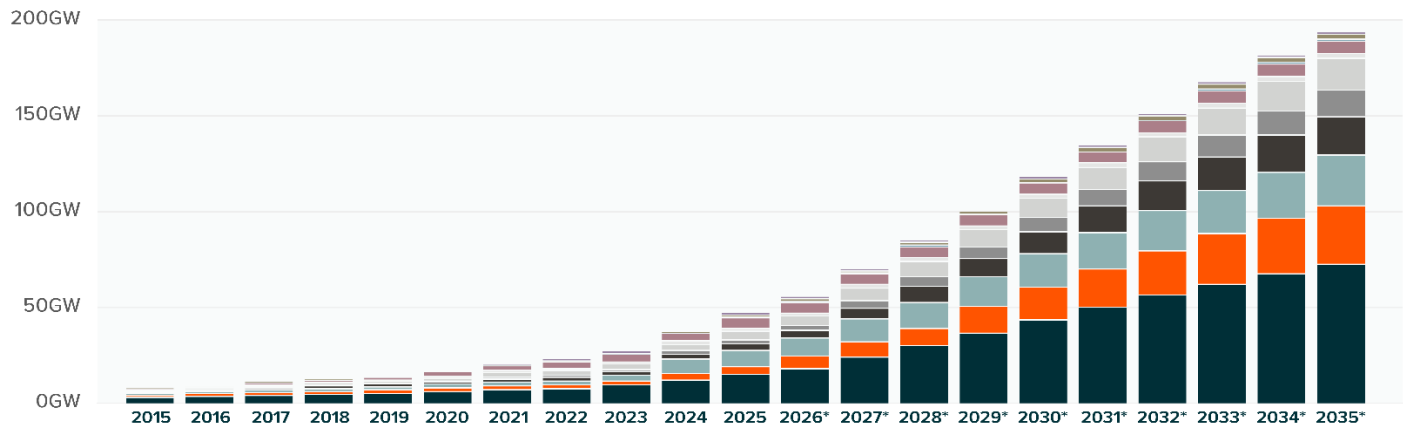


MONTHLY CHART SPOTLIGHT

U.S. DATA CENTER 2035 POWER DEMAND ESTIMATES REVISED UPWARDS BY 83% IN SEVEN MONTHS AS AI DEMAND SURGES

Installed data-center capacity forecast, by region

— PJM Interconnection (PJM) — Southeast — Electric Reliability Council of Texas (ERCOT) — Midcontinent Independent System Operator (MISO)
— Southwest Power Pool (SPP) — Southwest — California — Northwest — New England — New York — Florida



*Forecast
Source: Latitude Media. (2026, July 21). BNEF nearly doubled its forecast for US data center power demand.

U.S. Electrification

Data Center Energy Intensity Continues to Rise

Recent industry estimates suggest U.S. data center power demand is rising far faster than previously expected, with capacity projected to reach 194 gigawatts (GW) by 2035, nearly double forecasts from just seven months ago. Data centers are expected to consume 20% of U.S. electricity by 2035, up from roughly 6% today, with nearly half of that demand driven by AI training and inference workloads. Forecasts like these reaffirm that power availability is one of the biggest bottlenecks to scaling AI infrastructure, as grid interconnection delays, transformer shortages, and permitting challenges threaten to slow new data center deployments. Even under an optimistic grid expansion scenario, the U.S. could face a 19 GW power shortfall by 2035, underscoring the critical need for investment in electricity generation, transmission, grid modernization, and power equipment to support the next wave of AI-driven growth.¹ If AI adoption continues apace, data centers could account for 1,935 terawatt-hours of new electricity demand globally by 2035, roughly equivalent to India's total annual consumption.²



AI Semiconductors

Investments Pour Into Memory Production

Nvidia entered a multi-year strategic partnership with SK Group that could be worth \$500 billion. The deal secures long-term supplies of next-generation high-bandwidth memory (HBM) from SK Hynix and includes the joint development of advanced AI memory technologies, expanded HBM production, and the construction of AI factories targeted to begin operations in 2027.³ Separately, Samsung Electronics and Broadcom announced an estimated \$200 billion collaboration on memory and foundry technologies to support the next generation of AI infrastructure.⁴ These announcements underscore how HBM has become one of the most critical components in the AI semiconductor supply chain, with demand extending beyond GPUs to the memory required to feed them. As AI models grow larger and more compute-intensive, securing a reliable HBM supply is emerging as a key competitive advantage that can drive sustained investment across the AI semiconductor ecosystem.

Defense Tech

Sea Drones Enter Modern Naval Warfare as Drone Tech Adoption Intensifies

The U.S. military deployed sea drones in combat for the first time, using three Saronic Corsair one-way unmanned surface vessels to strike a submarine and ship maintenance facility near the Strait of Hormuz. This milestone operation demonstrated that commercially developed, low-cost maritime drones can execute high-value naval missions while minimizing risk to personnel. Notably, the military used the same Corsair platform in the rescue of downed U.S. pilots, highlighting how these systems can rapidly transition from support roles to frontline combat.⁵ Elsewhere, the military awarded AeroVironment a three-year, \$500 million contract to provide counter-drone capabilities. The award expands AeroVironment's role beyond its well-known Switchblade loitering munitions. Leveraging its broader portfolio of counter-drone technologies, including assets gained through its BlueHalo acquisition, AeroVironment will provide layered defenses against threats ranging from small commercial quadcopters to larger attack drones.⁶

U.S. Infrastructure

Modernization Push Spurs a New Round of Government Investment

The U.S. Department of Transportation (DOT) announced \$1.73 billion in BUILD grants to fund 127 infrastructure projects across all 50 states, Washington, D.C., and U.S. territories. Roughly 77% of the funding is for roads and bridges, with additional investments targeting freight rail, maritime infrastructure, aviation, and multimodal transportation projects designed to improve safety, reduce congestion, and strengthen supply chains. This broad-based investment reflects the need to modernize America's aging transportation network while supporting economic growth, domestic manufacturing, and long-term infrastructure resilience. The projects are expected to accelerate construction activity and increase demand for engineering services, construction equipment, aggregates, steel, cement, and other industrial materials.⁷ The funding stems from the Infrastructure Investment and Jobs Act (IIJA) of 2021, which set aside roughly \$1.2 trillion for national infrastructure. As of May 2026, the DOT had announced roughly \$510 billion in IIJA grants, with \$392 billion, or 72% of total budget authority, already obligated.⁸

Artificial Intelligence

Alibaba's Latest Model Highlights the Expansion of Open-Weight AI

Alibaba unveiled Qwen3.8-Max, its largest and most capable AI model to date. The 2.4 trillion-parameter model is designed for enterprise workloads, including coding, research, multimodal reasoning, and long-horizon task execution. Alibaba plans to make its model weights openly available, allowing developers to run, customize, and deploy them on their own infrastructure. The release builds on the growing success of the Qwen family, which has become one of the world's most widely adopted open AI model ecosystems.⁹ More broadly, the continued advancement of open-weight models is expected to expand AI deployment across industries, lowering barriers to adoption while accelerating the development of next-generation AI applications and intelligent software.

Autonomous Driving

Amazon's Zoox Hits the Road in Latest Boost to Robotaxi Adoption

Amazon-owned Zoox received federal approval to begin charging passengers for rides in its purpose-built robotaxis, becoming the first company in the U.S. authorized to operate fully autonomous vehicles without a steering wheel or pedals. The approval allows Zoox to deploy up to 2,500 robotaxis annually over the next two years, with paid service launching in Las Vegas before expanding to additional markets. Unlike competitors that retrofit existing vehicles, Zoox's bidirectional electric robotaxi was designed from the ground up for autonomous operation.¹⁰ The launch is another step toward the commercialization of autonomous transportation as regulatory approvals, advancing AI capabilities, and declining hardware costs converge to accelerate adoption. As robotaxi fleets expand, demand is expected to increase across the autonomous driving value chain, including AI chips, LiDAR sensors, cameras, software, connectivity, and high-



performance computing, reinforcing the long-term growth opportunities in next-generation mobility.

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- **Multi-Theme:** [Dorsey Wright Thematic ETF \(GXDW\)](#)

Footnotes

1. Bloomberg. (2026, July 21). Data Centers on Track to Suck Up a Fifth of US Power Use by 2035.
2. Tech Crunch. (2026, July 21). Data centers expected to use 4x more electricity by 2035.
3. CNBC. (2026, July 25). Nvidia locks down memory supply from SK Hynix as part of \$500 billion AI deal.
4. Ibid.
5. CBS News. (2026, July 14). U.S. uses sea drone in combat for first time to attack Iranian naval base, CENTCOM says.
6. Defense Scoop. (2026, July 2). Pentagon awards \$500M contract for counter-drone tech to AeroVironment.
7. U.S. Department of Transportation. (2026, July 7). Trump's Transportation Secretary Sean P. Duffy Invests \$1.73 Billion in Infrastructure Across America Supporting Jobs and Big, Beautiful Projects.
8. U.S. Department of Transportation. (2026, July 10). Infrastructure Investment and Jobs Act (IIJA) Funding Status.
9. CNBC. (2026, August 3). Alibaba shares rally after unveiling its 'most powerful' AI model as U.S.-China competition heats up.
10. CNBC. (2026, July 30). Amazon's Zoox to begin charging for rides in Las Vegas after clearing NHTSA hurdle.

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