

# US Data Center Daily Briefing

January 27, 2026

## KEY THEMES

- Large-scale capital commitments to AI data centre platforms
- Grid capacity constraints driving emergency measures and fossil capacity extensions
- Hyperscale AI pipeline scale (GW) and compressed interconnection timelines
- Next-gen inference silicon deployment inside hyperscale regions
- Powered-land and time-to-power solutions in high-solar US regions
- Supply chain tightness: CPUs improving later in 2026; memory/storage inflation and delays
- Concrete embodied carbon becoming a measurable constraint and procurement theme
- US regulatory shifts (PM2.5) could affect permitting and industrial inputs
- Policy focus on reducing fibre deployment costs via “dig once” laws
- Asia policy packages linking data centre growth to sustainability metrics (PUE/WUE)

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## Data centres daily briefing – Global (2026-01-27 UTC)

Audience: Institutional asset managers and infrastructure fund managers focused on data centres, power, and grid infrastructure.

### Top news (what matters today)

1. **Capital is still rushing into AI data centre platforms.** [Nvidia invests \\$2B in CoreWeave to build AI data centers](#), buying Class A shares at **\$87.20** to support a joint buildout of **5 GW of AI data centres by 2030**. The story also references CoreWeave’s large customer contracts, including **Meta (\$14.2bn)** and an expanded **OpenAI contract (~\$22.4bn)**.
2. **Grid constraints are increasingly driving power policy—sometimes back toward fossil capacity.** [Data center energy surge pressures grids and fuels fossil comeback](#) says the **U.S. DOE and utilities** are delaying **coal** retirements and using **emergency declarations** to preserve capacity amid surging data centre load. The piece cites projections that U.S. data centre demand could reach **130 GW** and up to **12% (~580 TWh/year)** of U.S. electricity by **2028**, alongside **100+ GW of announced gas-fired capacity** (mostly expected before **2030**).
3. **AI silicon is being productised directly for hyperscale inference fleets.** [Microsoft unveils Maia 200 AI inference accelerator chip](#) details Maia 200 (TSMC **3nm**) at **>10 PFLOPS (FP4)**

/ >5 PFLOPS (FP8), with 217 GB HBM3e and 272 MB SRAM (~140bn transistors). It is already deployed in Microsoft's **US Central (Des Moines)** region, with **US West 3 (Phoenix)** next.

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## Key deals, funding, and capital markets

### US / Global capital flows

- [DayOne plans U.S. IPO at \\$20B valuation after Series C](#): Singapore-headquartered DayOne (reported spinoff from **GDS Holdings**) is reportedly planning a **U.S. IPO** targeting a **\$20bn valuation**. The company recently raised **\$2bn Series C** funding (reported Jan 2026) at a **100% premium**, with investors including **GDS Holdings, Boyu Capital, Hillhouse, SoftBank Vision Fund, Ken Griffin (Citadel), Coatue, and INA**.
- [Neurophos raises \\$110M to scale photonic AI chips](#): Neurophos raised **\$110m** (investors include **Gates Frontier** and **M12**) to accelerate manufacturing of its photonic optical processing units and move toward **datacenter-ready OPU modules**.

### Hardware availability and pricing (near-term delivery risk)

- [Intel expects CPU supply to improve after first quarter](#): Intel expects CPU supply to begin improving in **Q2 2026**, citing factory network improvements and rising **18A** yields. Reported **Q4 revenue \$13.7bn** (down **4% YoY**) and **Data Center and AI segment +9% YoY to \$4.7bn**.
  - [Enterprises face storage shortages and soaring memory prices in 2026](#): AI demand is driving shortages and lead times; TrendForce forecasts **DRAM +55–60% YoY** and **NAND +33–38%**. The story cites examples of component pricing moving materially higher versus early 2025 and **SSD delivery delays potentially exceeding a year**.
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## Power, grid, and interconnection highlights

### United States: scale and timelines are compressing

- [Hyperscale AI drives massive, rapid US data center buildout](#): Industrial Info Resources (at PowerGen International) estimates roughly **\$2.4 trillion** of U.S. AI data centre development (within a global **~\$3.2 trillion** pipeline). It cites **~296 GW** of U.S. planned capacity tied to AI data centre growth, including **70+ projects ≥1 GW**. Electricity demand tied to these projects is described as rising from **~23 GW (2023)** to **~42 GW today**, targeting **>90 GW by 2030**, with developers compressing generation and interconnection delivery into **12–24 month** windows.

## Time-to-power business models and “powered land”

- [Exowatt launches ExoRise delivering powered land for hyperscale data centres](#): Exowatt launched **ExoRise** to deliver **powered land** plus Exowatt’s **P3 solar** technology in high-solar regions of the **US Southwest**. A **pilot** is planned to be operational by **end-2026**. The company (founded 2023, Miami-based) previously raised **\$50m (Nov 2025)** to fund deployment of its “round-the-clock renewable energy” technology.

## Sustainability pinch point: embodied carbon in construction

- [U.S. data center buildout fuels concrete embodied carbon challenge](#): Bloomberg-reported estimates suggest rapid U.S. data centre construction could produce nearly **2 million metric tons of CO2** in **concrete** through **2030**. The story notes **Microsoft, Amazon, and Meta** have signed **offtake agreements** and joined coalitions aimed at pulling through **low-carbon concrete**, while policy shifts and funding cuts are slowing momentum.

## Policy and regulation (watchpoints for permitting, cost, and build speed)

### United States

- [EPA moves to revisit PM2.5 annual standard amid legal challenges](#): The U.S. EPA (under the Trump administration) filed to revisit and asked the D.C. Circuit to vacate the Biden-era annual **PM2.5** limit of **9 µg/m<sup>3</sup>**, signalling a broader effort to rework related rules in early 2026. The story flags concerns from industry groups about permitting/investment impacts and cites an American Cement Association estimate that the U.S. will need **1 million metric tons of cement for AI data centers by 2028**.
- [Vanderbilt urges strong ‘dig once’ laws to cut fiber costs](#): Vanderbilt Policy Accelerator argues for stronger “**dig once**” requirements (install conduit during roadway work). It cites studies suggesting **75%–90%** of fibre deployment cost is road excavation/repair. The report calls for “dig once” requirements in **2026** surface transportation reauthorization and notes **June 2026 BEAD changes**.

### Asia

- [India Budget 2026 pushes sustainable growth for data centres](#): Ahead of Union Budget 2026, industry groups urged incentives (e.g., **subsidised land, tax holidays, tariff rebates**) and sustainability-linked benefits. The story cites projections of **14 GW capacity by 2035** and **\$70bn** investments by FY35, and requests reforms including **critical infrastructure status, ISTS waivers**, and **BESS approvals**, with grant support tied to audited **PUE/WUE**.

- [Malaysia advances sustainable digital agenda at WEF Davos 2026](#): Malaysia's Ministry of Digital reaffirmed "AI Nation" ambitions (under **RMK13**) and proposed a **Data Commission**, while collaborating with WEF on a **digital embassy framework** planned for publication in **April**. It also announced the first **Transitioning Industrial Cluster (TIC)** will launch in **Sarawak** in **June**.

## Africa

- [Parliament committee to oversee MDDA, USAASA, USAF, BBI in Gauteng](#): South Africa's Portfolio Committee on Communications and Digital Technologies will conduct a **27–29 Jan 2026** oversight visit in **Gauteng**, reviewing governance, financial management, and operational performance across MDDA, USAASA, USAF, and **Broadband Infraco**, including a walkabout at BBI's **Network Operations Centre**.

## Cross-cutting: financial stability and operational resilience

- [BIS outlines financial stability risks from AI and digital finance](#): BIS (Tao Zhang) highlighted that AI and digital finance can improve efficiency but may amplify risks to **liquidity**, **operational resilience**, and **contagion**, calling for stronger governance and coordination (including via BIS Innovation Hub, FSB, IMF).

## Operations and technology notes (what to watch inside the fence)

- [Salute showcases AI cooling and veteran hiring at PTC26](#): Salute reported strong PTC 2026 engagement (~**10,000 attendees**) and highlighted **AI direct-to-chip liquid cooling**, integration with **Northshore/Seastack**, and veteran hiring activity via **iMasons/Oplign**. Priorities over the next **12–24 months** include expanding lifecycle services and AI infrastructure support.
- [Sequential Simulation of Solid-State Transformer-Driven 800 VDC Data Centers](#): arXiv preprint models an **SST-driven 800 VDC** architecture converting **10 kV MVAC** to an **800V LVDC** bus, evaluated on RTDS with real-world profiles; authors report tight voltage regulation and reduced input-side energy consumption versus a UPS baseline.
- [GOXN: Energy Modeling and Experimentation for Cloud-Native Microservices](#): arXiv artifact paper presents a method to quantify compute/network/storage energy for Kubernetes microservices; excluding network and storage can under-estimate auxiliary-service energy by up to **63%**.

## Two-line wrap

Execution risk is increasingly shifting from capital access to delivery constraints (power, materials, and hardware lead times).

Investors should expect more policy-driven outcomes that directly affect permitting speed, network rollout costs, and decarbonisation pathways.

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