

Technology | Iceland

Powering a new era of AI innovation

Nscale

To empower global clients to boost the responsiveness of their AI solutions, Nscale has teamed up with Lenovo and NVIDIA to help it deploy a cutting-edge AI factory in Iceland—including liquid cooling infrastructure to support almost 7,000 NVIDIA Blackwell Ultra GPUs.

Lenovo



1

Customer background

Who is Nscale?

Nscale is building the engine of superintelligence, delivering AI infrastructure that unifies data centers, platforms, and operations to remove complexity and enable predictable, scalable AI deployment.

Through its vertically integrated suite of AI solutions and data centers across Europe and North America, the company strives to deliver unparalleled performance and sustainability for AI and sovereign AI, as well as access to energy-efficient GPU capacity and HPC infrastructure at massive scale.



2

The challenge

Demand for AI solutions has never been higher. For Nscale, the aim is to equip clients with proven, high-performance infrastructure optimized for some of the world's most demanding AI workloads.

“Deploying AI infrastructure is complex and costly,” says David Power, CTO at Nscale. “Since the initial hardware investments are high and GPU technology is advancing so quickly, it’s crucial that our infrastructure starts delivering value extremely quickly.”

2

The challenge

Nscale has grown rapidly, from a small startup in 2024 to an industry titan today.

“One of our key objectives is to cut time-to-first-token [TTFT] for our clients,” continues Power. “TTFT is a crucial performance benchmark, and it symbolizes a fully functional and stable system, performing at its peak.”

Nscale has recently embarked on the design and construction of a brand-new AI factory in Iceland. The new site is hosted on the Icelandic campus of Verne, a leading data center operator in the Nordics.

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“With any new build, we want to get capacity up quickly so we can get GPUs into our customers’ hands. A standardized, modular approach to design is key to **drive down time to market**, and we always look for partners that align with our philosophy.”

David Power

CTO, Nscale

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The
solution

Partnering with Lenovo and NVIDIA

To deliver the new AI factory in Iceland, Nscale has teamed up with Lenovo and NVIDIA. The company will use a combination of liquid and air cooling across 96 NVIDIA GB300 NVL72 racks equipped with almost 7,000 NVIDIA Blackwell Ultra GPUs.

NVIDIA GB300 NVL72 is based on a rack-scale architecture, combining 72 NVIDIA Blackwell Ultra GPUs and 36 Arm-based NVIDIA Grace CPUs into a single platform.

Hardware

[Lenovo HR650N V3](#)

[Lenovo ThinkSystem SR650 V4](#)

[NVIDIA GB300 NVL72](#)

[NVIDIA Spectrum-X Ethernet](#)

[Networking Platform](#)

Services

[Lenovo Liquid Cooling](#)

[Deployment Services](#)

[Lenovo Liquid Cooling](#)

[Managed Services](#)



With more than 15 years' experience in liquid cooling for the data center, Lenovo offers Nscale expert design and implementation services.

4

The results

As Nscale moves ahead with the construction of its Iceland data center, the company is confident that it has found the ideal partners for sustainability success.

“Liquid cooling is an essential capability for today’s AI factories,” says Power. “Beyond seasonal heat reclamation use cases such as district heating, we’re now looking at how we can reuse heat for local community initiatives.”



Deep expertise in liquid cooling deployments



Close strategic partnership with NVIDIA



Reduces stand-up time for AI factories

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“If every cluster you design is a unique snowflake, then your support burden will quickly become unmanageable. With Lenovo and NVIDIA, we have a repeatable cooling architecture that we will be able to **rapidly and cost-effectively replicate in other sites around the world.**”

David Power

CTO, Nscale

Why Lenovo and NVIDIA?

The close strategic partnership between industry leaders Lenovo and NVIDIA gave Nscale the confidence that it could realize its vision for its new AI factory.

“Lenovo and NVIDIA offer ready-to-use components, expert guidance, and industrialized build processes,” comments Power. “We knew that working side by side with two expert partners would undoubtedly accelerate the deployment of our Iceland data center.”

How can hyperscalers cut time-to-value for AI factories?

Nscale works with Lenovo to deploy the cooling infrastructure for thousands of NVIDIA Blackwell Ultra GPUs at its new AI site in Iceland.

[Explore Lenovo Hybrid AI](#)

