

Technology

Building a **more sustainable** infrastructure from the ground up

Hongyun Data

Hongyun Data is ready to make its mark on China's data center hosting market with a powerful, energy-efficient, more sustainable data center built on Lenovo TruScale Infrastructure as a Service (IaaS).

Lenovo
TruScale



Lenovo

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Who is Hongyun Data?

Guizhou Hongyun Data Technology is a rising star in China's data center industry, supporting clients with both physical data center infrastructure and cloud hosting offerings. Since its establishment in 2021, Hongyun Data has gathered elite management teams from leading companies in the domestic IDC industry. With the strong strength of shareholders in the capital market, and the rich experience and resources of the management team deeply rooted in the IDC field for many years, Hongyun Data has ambitions to become the most professional and large-scale neutral third-party data center and cloud computing service provider in China.



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The Challenge

A new player on the market, Hongyun Data was eager to make a strong first impression. As the company welcomes more clients, it's been scaling its infrastructure to ensure it's ready to meet any demand.

Recently, Hongyun Data broke ground on a brand-new data center, which will become its first regional hub. It needed to rapidly refurbish the location—a former warehouse—and outfit it with state-of-the-art hardware.

Here, Hongyun Data faced challenges on multiple fronts. The physical constraints of the existing building required a customized solution, which needed to be delivered on the young company's tight budget. Moreover, Hongyun Data had to be mindful of strict energy conservation and environmental protection policies. These made it vital to design, deploy, and run IT systems with high energy efficiency.

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“Our new data center needed to deliver strong performance while maximizing cost efficiency and sustainability. We knew that our choice of technology partner would be critical to finding the right balance.”

Yang Wenqing

General Manager, Hongyun Data

Enlisting the experts

Hongyun Data enlisted Lenovo to deliver a complete package of construction, infrastructure, and leasing services for the first phase of its data center build project. The Lenovo team started by providing optimization suggestions for the design and outfitting of the new data center.

With Hongyun Data up against a tight delivery timeline, Lenovo recommended a full-process construction approach, meticulously planning the project schedule and providing end-to-end solutions for the entire construction process to ensure rapid delivery and minimize delays.

Services

- Lenovo Consulting Services
- Lenovo Design and Planning Services
- Lenovo Implementation Services
- Lenovo TruScale Infrastructure as a Service

A full-service solution

When it came to acquiring hardware for the new data center, Hongyun Data chose Lenovo TruScale Infrastructure as a Service (IaaS), helping avoid large up-front capital expenditure. It worked with Lenovo to design and configure a computing core across two buildings and 3,000 standard racks.

Not only does the new data center infrastructure meet Class A national standards in China, it has also been designed with energy efficiency and sustainability at front of mind. Taking advantage of the lower local temperature conditions, the data center uses natural cooling technology to reduce the need for refrigeration.

What's more, the entire hardware architecture has excellent scalability and flexibility, giving Hongyun Data room to grow and adapt to future iterations of computing facilities.



“Hongyun Data and Lenovo complement each other’s strengths. We collaborate closely to support development, strengthen our strategic cooperation, and establish a close partnership.”

Wei Jinchao

Chairman, Hongyun Data

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Results

By leveraging Lenovo's expertise at every stage of the project, Hongyun Data has successfully shaped a data center that delivers exceptional performance at a lower cost.

A highly efficient design maximizes resource utilization and energy efficiency, with an expected power usage effectiveness (PUE) of less than 1.2. This keeps costs low and helps to improve sustainability.

Furthermore, with its flexible subscription model, Hongyun Data can keep tight control over costs and easily scale without large capital investments—ideal for a growing business.



1.2 expected PUE, supporting energy-efficient operations



Low resource utilization helps manage overall footprint



As-a-service model keeps capital expenditure low and costs predictable

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“This project would not have been possible without Lenovo’s outstanding guidance and support. Together, we have built a truly world-class data center, which will deliver leading performance for our customers in a more efficient and sustainable way.”

Yang Wenqing

General Manager, Hongyun Data

Why **Lenovo**?

Lenovo was already a trusted name to Hongyun Data, whose team had positive experience working with Lenovo hardware. The two companies teamed up early on in this project. Lenovo has been deeply involved in key aspects such as site selection, planning, and construction of the new data center, demonstrating strong cooperation strength and deep mutual trust.

Yang Wenqing, General Manager at Hongyun Data, comments: “Lenovo has played an important role in the development of Hongyun Data, and we have always regarded Lenovo as a competent and trustworthy partner.”



How do you build a more sustainable data center?

Lenovo helped Hongyun Data design and deliver a data center infrastructure that's both energy and cost efficient.

[Explore Lenovo Services](#)

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