

Energy & Utilities

Powering more flexible and **sustainable** operations

Siemens Energy (China)

How Siemens Energy cut cost and complexity while preparing for a more efficient future with Lenovo xCloud and Lenovo TruScale Infrastructure as a Service.

Lenovo
TruScale

Infrastructure as a Service



Lenovo

1

Who is Siemens Energy (China)?

Siemens Energy is one of the world's leading energy technology companies, active in the domains of conventional and renewable energy technologies such as gas turbines, steam turbines, hydrogen-powered hybrid power plants, generators, and transformers. Siemens Energy employs approximately 91,000 employees in more than 90 countries and regions around the world.

While the company seeks to grow revenue and profit, Siemens Energy's operations in China are also committed to significant reductions in carbon footprint, supported by productivity and efficiency gains.

SIEMENS
ENERGY

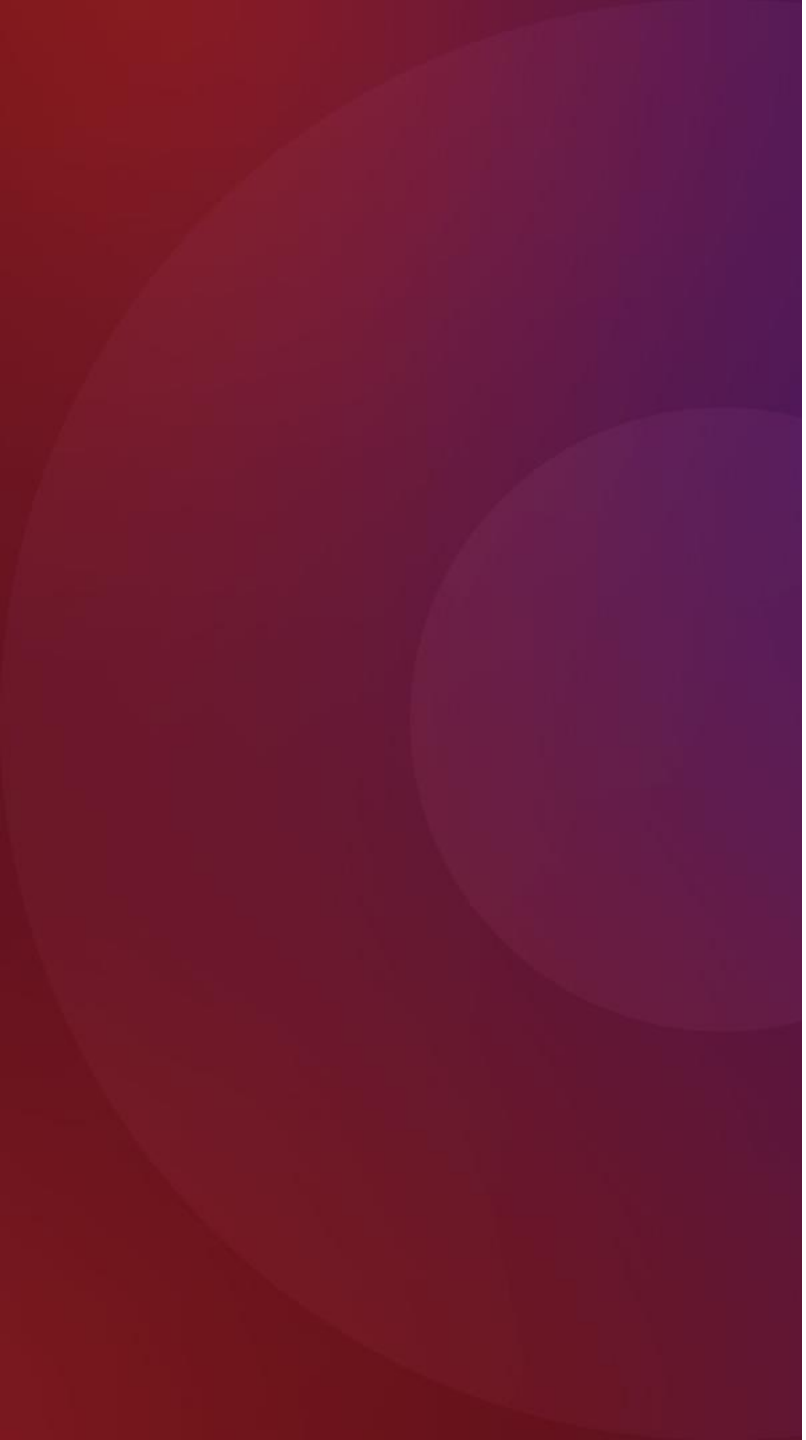
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The Challenge

Siemens Energy (China) addresses the unique features, challenges, and opportunities of the Chinese market. Both within China and internationally, the company seeks to grow revenue and profit, and is committed to a zero-carbon strategy, which steers actions across the company for people, processes, and technology.

In the early years, the Chinese operations relied on the parent group to provide core business infrastructure services, including financial applications, business management solutions, information technology, and more. However, those systems were governed by a total of 970 Termination of Services Agreements (TSA), which specified that support would cease at agreed deadlines.

In total, the company operated more than 7,500 business applications on hundreds of on-premises computer systems. The existing IT infrastructure was costly to operate, and did not provide the business flexibility that would support new, efficient, and more sustainable operations. More than 50 factory-management systems were running on on-premises servers, including SAP HANA, E-Bank, SPLM, Power BI server, Fileserver, and other key systems.



In the data center, Siemens Energy (China) was operating multiple vendor platforms, leading to a complex system architecture that was costly and labor intensive to maintain, and with significant stability and security risks.

“We aimed to consolidate and standardize to 800 core applications, and introduce new, innovative solutions throughout the company,” says Cheng Yang, Technical Manager, Siemens Energy (China). “This degree of change would incur significant cost, and with the TSA deadlines approaching we looked to find new ways to support our business units with flexible, scalable, and sustainable technology infrastructure.”

Consolidating data centers to cloud operations

Siemens Energy (China) engaged Lenovo TruScale to deploy Lenovo xCloud for VMware Cloud Provider Platform (VCP) and Veeam backup solutions. Hosted and managed by Lenovo, the xCloud solution integrates services across data center, network, hardware, Lenovo VMware OEM Cloud, and cloud operation and maintenance.

In essence, Lenovo xCloud enables Siemens Energy (China) to consolidate hundreds of physical systems to a target of just 55 servers running VMware virtual machines, with a further seven servers for virtualized databases. These solutions are capable of supporting the company's standardized business-critical applications, and retain critical data within Chinese territory for compliance.

Services

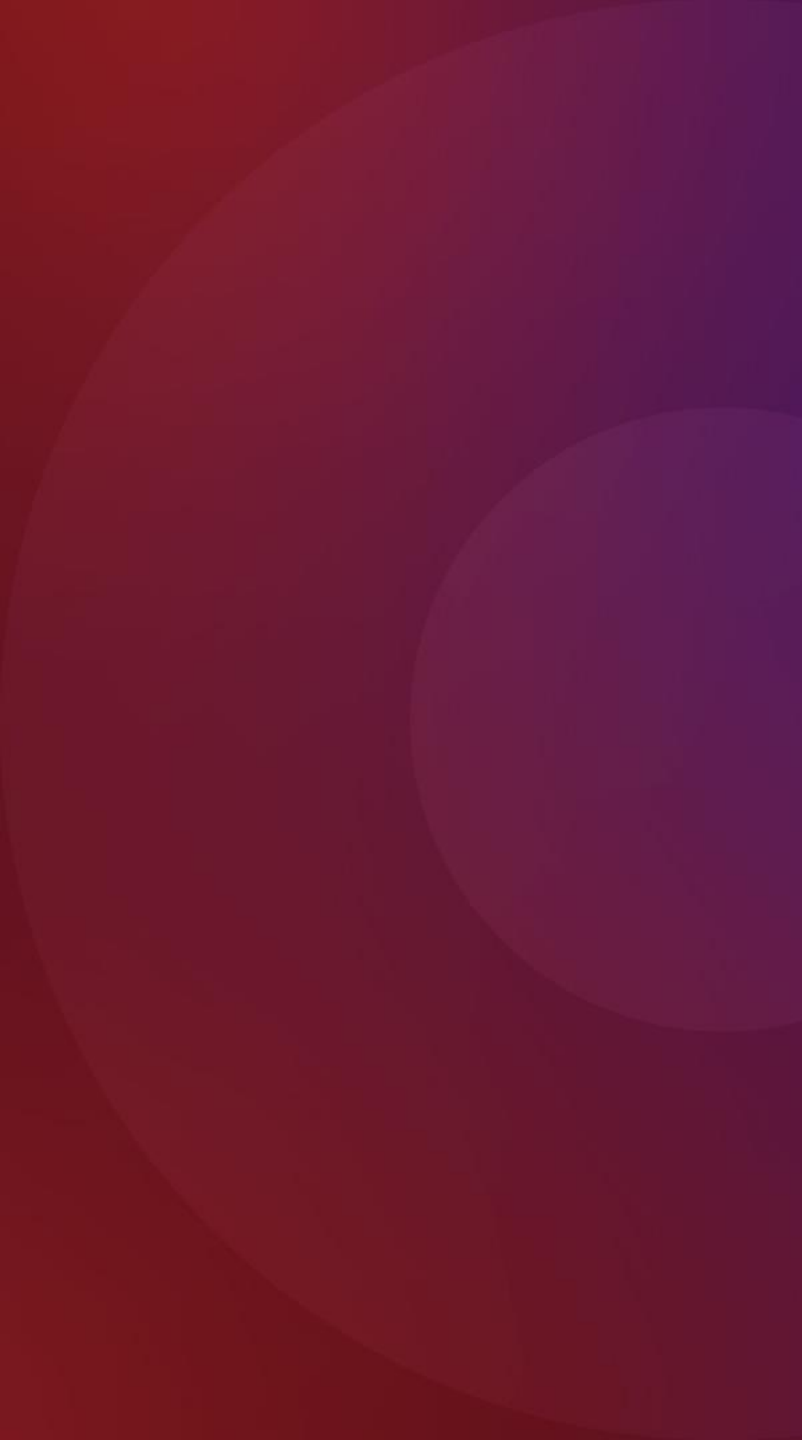
Lenovo TruScale Infrastructure Services:
Advisory, Design, and Implementation
Managed Services
Dedicated Customer Success Manager
Continuous Monitoring, Health Checks, and Updates

Hardware

Lenovo xCloud for VMware Cloud Provider Platform (VCP)

Software

Veeam Backup & Replication
VMware vCloud Suite



Lenovo TruScale Infrastructure as a Service gives Siemens Energy (China) access to the latest data center hardware through a flexible pay-as-you-go commercial model, offering a public cloud-like experience on a dedicated infrastructure.

“We run what we call our ‘hub’ applications and file servers, human resources, timesheets for scheduling of work and orders, SAP applications, and others,” says Cheng Yang. “We are using the Lenovo xCloud to provide a hybrid environment that gives us both performance and scalability, and reduces our cloud costs.”

3

Results

Migrating applications to the Lenovo xCloud and Lenovo TruScale solution gives Siemens Energy (China) opportunities to consolidate, standardize, and streamline its IT environment.

“Previously, it might take us more than six months to go live with a new application, given the time taken to order and implement on-premises equipment. With Lenovo xCloud and Lenovo TruScale the time to market is very short, with new services and capacity ready within two weeks,” says Cheng Yang.

He adds: “Lenovo xCloud and Lenovo TruScale enable us to deliver new capabilities to our users as fast as possible, and at lower cost. The elastic resource allocation mechanism of Lenovo xCloud offers us relatively more space to grow without complex re-configuration, which means that our business response is much faster than before.”



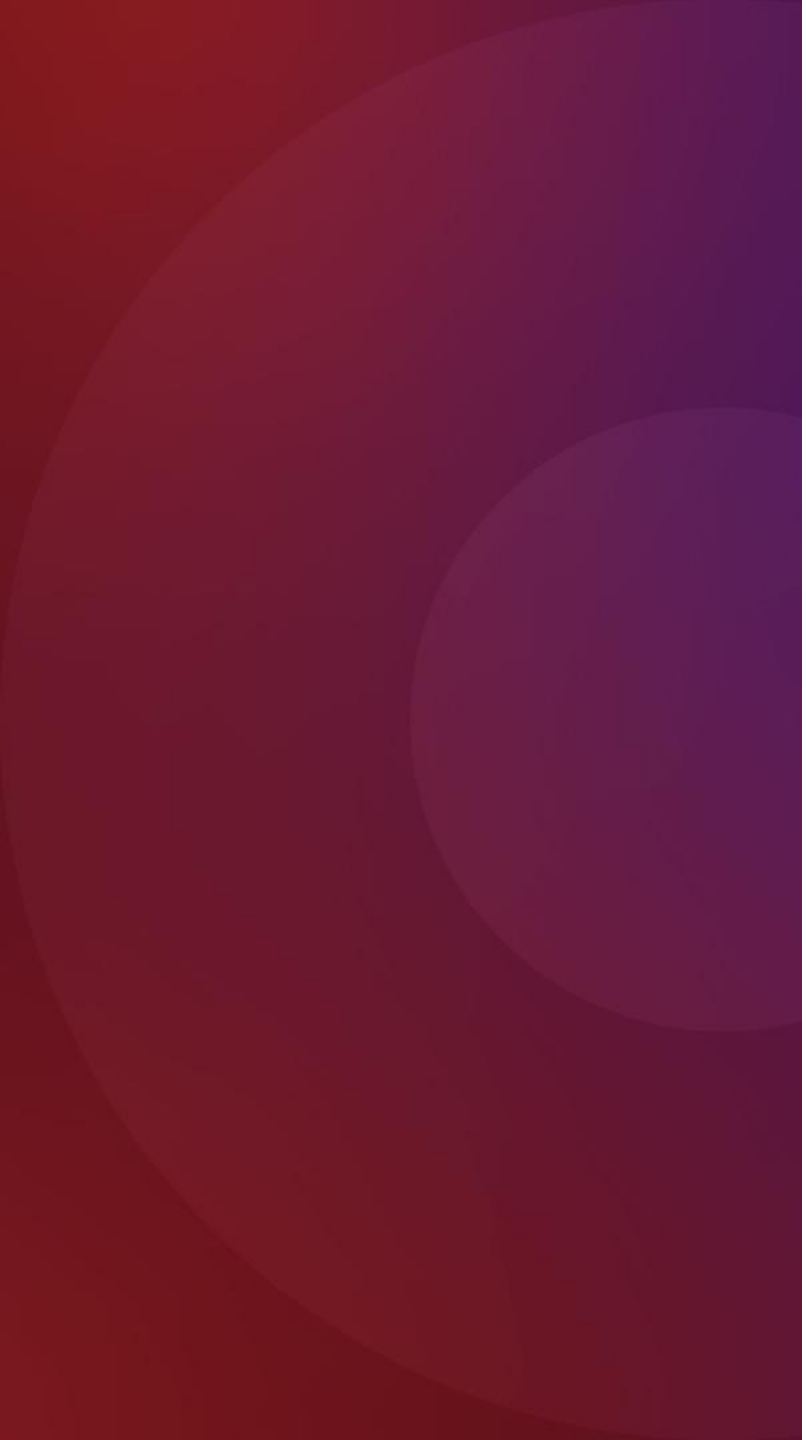
Reduced 7,500 applications to 800 core solutions



Transformed two data centers to all-cloud operations



Consolidated to just 55 physical servers



Supported by Lenovo xCloud, the VMware and Veeam solutions are key elements of application and IT modernization at Siemens, and support the all-cloud business strategy. As the company completes the journey, users will experience greater performance, and the ability to innovate with new services more rapidly than before.

“Siemens and Lenovo collaborate closely to develop cost-efficient solutions, and at the technical level to provide the widest possible choice for our production and office application environments,” says Cheng Yang.

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“The flexibility and scalability of Lenovo xCloud and Lenovo TruScale enables Siemens to match capacity more accurately to workload. This directly contributes to cost reduction and the company’s commitments to sustainable operations, and we look forward to continuing our cloud journey with Lenovo.”

Cheng Yang

Technical Manager, Siemens Energy (China)

Why **Lenovo**?

Accessing the Lenovo xCloud solution through the TruScale consumption model gives Siemens Energy (China) public cloud-like agility with on-premises security and control.

“As a Chinese brand, Lenovo can provide direct assistance with our CloudEdge technical architecture that will help us to save energy and meet our zero-carbon goals,” says Cheng Yang.

Lenovo assigned a dedicated project team to Siemens, assisting with cloud configuration. The first phase included the migration of around 40% of applications, immediately reducing the company’s dependence on the TSAs.

Cheng Yang comments: “The Lenovo team collaborated with external infrastructure partners and with VMware and Veeam, helping Siemens to ensure the smoothest possible transition to the new cloud environment.”



How do you cut costs and complexity?

By moving from on-premises data centers to Lenovo xCloud solutions, hosted and managed by Lenovo TruScale

[Explore Lenovo TruScale](#)

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