

Pioneering green energy technology with an ultra-reliable IT platform.

Shandong Shida Shenghua Chemical Group is at the forefront of the green technology revolution, playing a key role in both the production of organic chemical products and research into new energy sources.

To safeguard its vital business and research data, the company migrated its mission-critical systems to a new infrastructure powered by Lenovo ThinkSystem SR860 servers, with data protection and disaster recovery from NetApp ONTAP Select.

**Lenovo Infrastructure Solutions
for The Data-Centered**

Lenovo

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Background

Shandong Shida Shenghua Chemical Group Co. Ltd. is run by the China University of Petroleum (UPC) and employs 1,500 people across the country. The company researches, manufactures and distributes organic chemical products, with a strong focus on new energy sources. With exports to Europe, North America, Japan, and Southeast Asia, Shandong Shida Shenghua Chemical Group is committed to developing greener, more environmentally friendly energy technology.

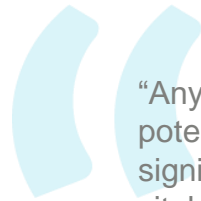
As one of China's leading high-tech enterprises, Shandong Shida Shenghua Chemical Group is driving cutting-edge research into the future of energy, including renewables and green technologies.

To support its business and research goals, Shandong Shida Shenghua Chemical Group relies heavily on its IT systems. The company uses a specialist ERP solution to manage the production and sale of organic chemical products.

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Challenge

With the IT platform for these mission-critical solutions approaching end of life, Shandong Shida Shenghua Chemical Group recognized that unplanned downtime was becoming an increasing risk. Crucially, its non-redundant storage architecture meant that the failure of a single disk threatened the loss of valuable data.



“Any unplanned downtime in our information systems has the potential to bring our business to a halt—driving our costs significantly. In a worst-case scenario, there was even a chance that vital research data could be lost. To solve these challenges, we looked for a highly available and reliable infrastructure platform.”

Su Feng, Director of Information,
Corporate Management Department,
Shandong Shida Shenghua Chemical Group

A person with long dark hair, wearing a white lab coat, is seen from behind, working at a desk in a laboratory or server room. The desk is cluttered with various pieces of equipment, including a computer monitor, a printer, and several bottles. The background is filled with a complex network of cables and server racks, suggesting a high-tech environment. The overall scene is dimly lit, with a blueish tint.

Why Lenovo? Ultra-high performance and reliability

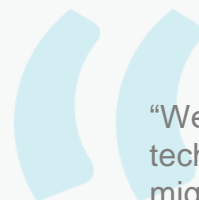
After a thorough review of several market-leading vendors, Shandong Shida Shenghua Chemical Group selected a virtual cluster based on three Lenovo ThinkSystem SR860 servers, connected to a Lenovo ThinkSystem DM5000H Unified Hybrid Storage Array.

To ensure its vital data is protected 24/7, the company plans to configure NetApp ONTAP Select to deliver asynchronous data replication to a second Lenovo ThinkSystem DM5000H Unified Hybrid Storage Array. Using the SnapCenter capability in NetApp ONTAP, Shandong Shida Shenghua Chemical Group will be able to restore data in minutes in the event of unplanned downtime in its production environment.

Smooth deployment from an expert partner

Working together with consultants and system integration specialists from Lenovo, Shandong Shida Shenghua Chemical Group moved its ERP and research applications to the new platform with no impact on its end users.

“The migration went very smoothly, and we were extremely impressed with Lenovo’s professionalism and attention to detail throughout the process,” adds Su Feng.



“We were looking for an expert partner with the tools, technology and experience to carry out a zero-disruption migration to a highly reliable infrastructure platform, and that’s exactly what Lenovo delivered.

After Lenovo demonstrated its proof of concept environment, the choice was clear. We were very confident that Lenovo had the deep expertise and proven solutions to make our IT infrastructure refresh a success.”

Su Feng, Director of Information,
Corporate Management Department,
Shandong Shida Shenghua Chemical Group

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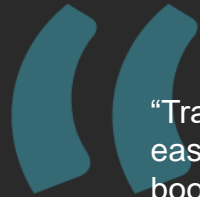
Results

In addition to the high performance their Lenovo ThinkSystem SR860 servers offer, Shandong Shida Shenghua Chemical Group gained the peace of mind that its business systems and intellectual property are now protected around the clock.

Su Feng comments: “Our Lenovo solutions are so performant and reliable that the threat of unplanned downtime is no longer something that keeps us awake at night. However, even if something did happen to our production environment, we now have the ability to use snapshot backups to restore the data in minutes—something that simply wasn’t possible with the previous platform.”

Shandong Shida Shenghua Chemical Group’s researchers and employees are all working toward a common objective: to bring the next generation of energy technologies to the market as quickly as possible. With Lenovo solutions at the heart of the organization, the company has accelerated its application development and launch cycle.

- ✓ **Cut total cost of ownership by 85%**
- ✓ **Estimated 25% boost to IT team operational efficiency**
- ✓ **Business systems and intellectual property protected 24/7**
- ✓ **High performance in a dense footprint**



“Transitioning to a modern, virtualized infrastructure is also making it far faster and easier to deliver new data-driven services to our users. In fact, we estimate that we’ve boosted the operational efficiency of the IT team by around 25%.”

Su Feng, Director of Information,
Corporate Management Department,
Shandong Shida Shenghua Chemical Group

What will you do with Lenovo Infrastructure solutions?

Learn more about how Lenovo can enable digital transformation in your industry.

[Explore Data-centered Solutions](#)

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