

Advance sustainability with energy efficient infrastructure

Lenovo

Lenovo is committed to helping our customers operate sustainably and reduce energy use.

It's not just the innovations in our ThinkSystem V3 and ThinkAgile V3 solutions that can help meet your goals – Lenovo's sustainability model also spans our production, packaging, and services. Learn how you can be optimized for efficiency and sustainability with Lenovo.

The drive for cleaner, more efficient IT

As the digital world expands, so does our reliance on what used to be energy-hungry data centers. Technology innovators are focused on developing new ways to mitigate the impact.

- **Cooling systems** – Efficient technologies such as liquid cooling help reduce the amount of energy needed to cool infrastructure.
- **Energy-efficient hardware** – Manufacturers are producing more efficient servers, storage, and networking equipment.
- **Energy management software** – Real-time power monitoring and control is helping to reduce energy consumption.
- **Modular data centers** – Easy to deploy in remote areas and to scale up or down, modular data centers reduce energy costs.
- **Waste reduction** – Organizations are more focused on recycling, repurposing equipment, and properly managing electronic waste.

Sustainable technologies can also help organizations reduce costs, comply with regulations, and meet consumer demand for greener solutions.

Learn more

Lenovo has an unwavering commitment to the health of the planet. We continually strive to reduce the environmental impact of our operations and solutions. If you'd like help to meet your sustainability goals, arrange a call with a solutions expert today.

Contact Lenovo

Build in sustainability with Lenovo

Lenovo V3 infrastructure solutions, including ThinkSystem servers and ThinkAgile, provide built-in innovations and options that improve sustainability throughout the solution lifecycle.

95% efficiency

with Lenovo Titanium power supply.

Maximized airflow per watt

with optimized cooling fans.

47% more RAM performance per watt with DDR5 memory, compared to DDR4.

Efficient power modes with UEFI (Unified Extensible Firmware Interface) presets.

Optimized components

Components are selected to maximize overall efficiency.

Up to 50 watts power savings per server with optimized PCB design and voltage regulator tuning.

Waste reduction services

including Lenovo CO2 Offset Service, which funds UN energy projects, and Lenovo Asset Recovery Services.

Sustainable packaging

with 100% recyclable materials and factory-integrated racks that have saved over 800,000 kg of plastic over five years.

Energy management with XClarity

Energy Aware Runtime (EAR) and XClarity Energy Manager provide advanced data center power notification, analysis, and policy-based management to help achieve lower heat output and reduced cooling needs.

Liquid cooling with Lenovo Neptune™

Lenovo has been a liquid cooling leader for more than a decade. With Lenovo Neptune™ customers can realize:

40%

up to 40% reduction in power consumption

3.5x

3.5x better thermal efficiency compared to air cooling

95%

95% or better heat removal efficiency

Reduce energy use with workload consolidation

Modern Lenovo servers deliver energy efficiencies that help our customers operate more sustainably. Consolidating your workloads on high performance, low power infrastructure is a great way to make power savings.

53% better performance per watt
35% less total system power

When you consolidate 3 x SR650 V1 servers in 1 x SR650 V3 server.

18% better performance per watt
15% less total system power

When you consolidate 1.55 x SR650 V2 servers in 1 x SR650 V3 server.

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