Superior business outcomes driven by a smarter approach to sustainability

IT leaders understand the importance of mapping out a clear journey that links sustainability commitments with business success. In fact, more than two-thirds of IT decision-makers expect their company's tech to meet the highest industry environmental standards.

But believing isn't achieving. That's why Lenovo helps IT organizations of all shapes and sizes develop strategies that are not only good for realizing Environmental, Social and Governance (ESG) targets, but also for delivering better business results.

Take the Lenovo ThinkPad X1 Yoga, powered with Intel vPro®, An Intel® Evo™ Design—a world-class business desktop with better performance, connectivity and AI acceleration. It also processes background tasks with minimal power consumption.

Lenovo solutions deliver a better employee experience and increased productivity at a lower cost—which drives better business outcomes for you.

Technology's impact

Companies that use advanced technologies to enable profitable solutions that have a positive impact on net-zero and other ESG goals can reduce emissions by 45-70%.[1]

Everyone contributes

ENERGY STAR-labeled computers use 30-65% less energy. 100% of our commercial notebooks and desktops come with Windows 11 features that heighten users' awareness of their energy consumption.[2]

Reduce, reuse, recycle

89% of organizations recycle less than 10% of their IT hardware.[3] Extending device lifespans can represent a 20-40% reduction in cost, greenhouse gas emissions and e-waste.[4]

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Smarter technology for all

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Choose sustainable technology for a positive impact on your organization and the planet.

Here are three ways to do it.

1

Build a sustainable workplace for employees

Employees now expect their companies to support more meaningful and visible commitments to building a sustainable future.
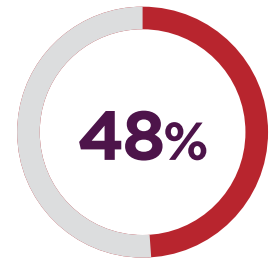
Less energy use, longer device life

Currently, nearly half of large companies are actively seeking products that use less energy. 100% of Lenovo laptops and desktops are ENERGY STAR-certified.

Offsetting the carbon emissions of technology purchases is essential, too. Through Lenovo's CO_2 Offset Services, customers can designate credits toward CO_2 offset projects including renewable energy and solar power. This makes offsetting carbon emissions simple and within the organization's control.
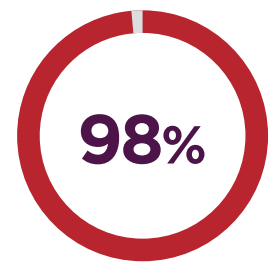
Lenovo's streamlined packaging approach eliminates 54 tons of plastic tape every year. We're also shifting to more packaging made from biomaterials.

Our comprehensive approach to sustainability

- By FY 2025/26, 100% of Lenovo PC products—including ThinkPad® and ThinkBook®—will contain post-consumer recycled content.
- Since 2018, we've manufactured 50 million laptops using the low-temperature solder technique, which reduces greenhouse gas emissions equivalent to more than 4.25M liters of gasoline per year.
- Lenovo is committed to reaching net-zero greenhouse gas emissions by 2050.

48%

of large companies support sustainability initiatives to enhance employee recruiting and retention.[5]

98%

of our procurement is with fewer than 130 large suppliers who typically have robust sustainability programs.[6]

93%

of Intel's global electricity use is renewable, including 100% in US, Europe, Israel and Malaysia operations in 2022, with a goal of 100% of global operations by 2030.

2

Create a sustainable infrastructure

Nearly half of large companies are targeting sustainable IT infrastructure, seeking out end-to-end technology solutions that prioritize energy and material efficiency.[7] Partnering with Lenovo, companies benefit from best-practice sustainability across the full technology life cycle:

- Low-CO_2 manufacturing techniques
- Product packaging made from discarded marine litter
- Energy-efficient operation
- Best-in-class recovery and disposal

We're also expanding our use of recycled metals[8] in the Think Portfolio. Lenovo is focused on utilizing designs and materials that reduce environmental impact. For instance, packaging for the ThinkPad® X1 Carbon, powered by Intel vPro®, An Intel® Evo™ Design, is 100% rapid renewable and made from bamboo and sugarcane fiber. A key objective from Lenovo's ESG report is to have all products across all business units containing recycled materials.

Lower carbon footprint in the cloud

Cloud computing technologies like Lenovo hyperconverged infrastructure (HCI) appliances (such as the ThinkAgile HX series) provide a scalable space- and power-efficient hybrid cloud platform.

Even in the data center, where energy-efficient cooling is a significant challenge, performance need not be compromised. Lenovo Neptune makes this possible by balancing sustainability with performance by using recycled loops of warm water to capture systems' heat and keep them cool. This cuts energy consumption up to 40%, with no reduction in a data center's existing footprint and performance.

1 million metric tons of CO_2

Lenovo has helped commercial companies offset more than 1 million metric tons of CO_2 associated with the purchase of their IT equipment. That's the equivalent of the amount of greenhouse gas emitted from over 215,000 passenger vehicles driven over the course of one year.[9]

From the cloud to cleaner skies

An Accenture analysis estimates that cloud migration worldwide can eliminate 59 million tons of CO_2 emissions per year—the equivalent of taking 22 million cars off the road.[10]

3

Optimize with as-a-service technology

As-a-service technology procurement models are the epitome of right-sized sustainability, ensuring companies are always equipped with the optimal technology to eliminate duplication, inefficiency and excess.

With Lenovo TruScale, IT decision-makers can leverage scalability to meet evolving business needs. They never have to worry about accumulating excess stock or managing security risks associated with outdated devices. TruScale Device as a Service (DaaS) is the smarter approach to adopting and managing IT, providing an alternative to refresh cycles that results in minimal environmental impact—from acquisition to disposal.

Upgrade without e-waste

Lenovo's Asset Recovery Services (ARS) is a comprehensive program that helps customers minimize e-waste through secure life cycle management, recycling for reuse and responsible, secure disposal.

Lenovo's Asset Recovery program not only facilitates end-of-life recovery, but it's also committed to extending the life of enterprise hardware through state-of-the-art refurbishment.

As-a-service solutions also make it easy to swap technology and provide employees with the latest, most efficient models. By picking up and securely transporting customers' devices, and testing and preparing equipment for resale (or recycling it), we return value to customers by offsetting some of the costs related to a technology refresh.

One organization that used Lenovo ARS to offset costs of its technology refresh—which included 8,000 laptops, 2,000 desktops and hundreds of other pieces of equipment—was able to generate

$2,346,600 of value.[11]

SUCCESS STORY
Debeka Group

Sustainability was part of the package when Debeka Group partnered with Lenovo to equip its mobile field sales staff.

- **Sustainable shipping.** Delivering laptops by train rather than airfreight reduced CO_2 emissions by 94%.
- **Streamlined bulk packaging.** By using a single cardboard box for eight devices, Lenovo helped Debeka Group cut the environmental impact of its packaging by 87%.
- **Paperless processing.** With its hinged touch display and integrated ThinkPad Pen Pro, the Lenovo ThinkPad® X1 Yoga enabled digital signatures to close deals out in the field.

"We are very proud that we have implemented a customized and sustainable technology solution that reduces waste and helps to reduce our environmental impact."

Marcel Wirth, Team Lead Lifecycle Management for Client Devices, Debeka Group

Read the whole story >>>

Sustainability that begins at boot-up

Lenovo devices running Windows 11 help manage your environmental impact at the software level.

- **Carbon-aware OS features** optimize processes such as updates based on real-time power grid information.
- **Proactive recommendations** suggest settings to help users reduce power consumption.
- **Microsoft Cloud for Sustainability** helps organizations track, measure and manage their carbon footprints.

Learn more about our partnership >>>

Nearly 40% of midsize organizations say end-of-life device management presents a significant financial burden.

Shared responsibility

From the supply chain to software, Lenovo works with partners that are serious about sustainability. We and our partners work diligently to meet sustainability targets with products like the ThinkPad X1 Carbon, powered with Intel vPro®, An Intel® Evo™ Design, built for what IT needs and users want.

Intel was ranked #1 in 2022[12] and #2 in 2023[13] in Barron's "America's 100 Most Sustainable Companies" report.

107% (by volume) of the water Intel uses is returned to communities and the environment, with the goal to be water positive by 2030.[14]

Only 6.4% of Intel waste went to landfills in 2022, with the goal of zero waste to landfills by 2030.[15]

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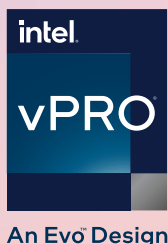Lenovo recommends Windows 11 Pro for Business.

Technology innovations to boost your company's environmental goals

From the ground to the cloud, these are just a few of our sustainability innovations in action—with more coming every day.

☐ **Direct-water cooling.** Lenovo Neptune™ Direct-Water Cooling for CPUs and GPUs saves customers up to 40% in power usage costs.

☐ **Recycled materials.** Lenovo recycles ocean-bound plastic and uses it to replace traditional polyethylene bags for server packaging. Business laptops leverage post-consumer plastics, which minimizes raw materials consumption.

☐ **Asset recovery programs.** Comprehensive end-of-life recovery and refurbishment mitigates both the environmental impact and data security risks associated with asset disposal.

☐ **Migrate to the cloud.** Worldwide, cloud migration is estimated to eliminate 59 million tons of CO_2 emissions per year—the equivalent of taking 22 million cars off the road. Get scale, space and performance with Lenovo hybrid cloud solutions.

☐ **Offset carbon emissions.** Through Lenovo CO_2 Offset Services, customers can compensate for technology-associated CO_2 emissions by designating credits to go toward CO_2 offset projects including renewable energy and solar power. Learn more here.

☐ **Responsible packaging.** Lenovo's streamlined packaging has eliminated 4,137 metric tons of packaging consumption since 2008[16] and has helped the Debeka Group cut the impact of its packaging by 87%.

☐ **As-a-service solutions.** Right-size your entire technology fleet—from the desk to the edge to the cloud. With Lenovo TruScale, you get scalable solutions without accumulating excess stock or managing outdated equipment.

☐ **Responsible computing.** Intel is leading the industry today by using 100% renewable energy in the US and Europe for semiconductor production, with the goal to use 100% renewable energy worldwide by 2030.

Contact your Lenovo representative today to see how you can unlock opportunities with a better technology experience. Learn more about Sustainability Solutions at **lenovo.com/sustainability-solutions.**

1   BCG, "How Tech Offers a Faster Path to Sustainability," October 2021

2   Energy.gov, "Energy Efficient Computers, Home Office Equipment and Electronics."

3   Capgemini Research Institute, "Sustainable IT," January 2023

4   Independent third-party analyst company commissioned by Lenovo

5   Lenovo Group Limited 2021/22 Environment, Social and Governance Report, 2022

6   ESG Sustainability Supply Chain, Lenovo

7   Reach3 Insights and Lenovo, "Human-centered insights to fuel IT's vision," July 2022

8   Lenovo ESG Report 2022

9   Lenovo CO_2 Offset Services Surpasses 1 Million Metric Tonnes of Carbon Offsets Milestone

10   Accenture, "The Green Behind the Cloud" report, September 2020

11   Lenovo, "Minimize waste and Maximize circularity with Asset Recovery," 2023.

12   Barron's 100 Most Sustainable Companies, February 2022

13   Barron's 100 Most Sustainable Companies, February 2023

14-15   Intel, "Corporate Responsibility Report," 2022–23

16   Lenovo, "Debeka Group Customer Story," 2021.

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