



Smarter  
technology  
for all

Lenovo

# Providing a smarter way forward

Building a brighter  
future for our customers,  
colleagues, and the planet

**At Lenovo, we're focused on providing smarter technology that builds a brighter, more sustainable future for our customers, colleagues, communities, and the planet.**

We've been thinking smarter to contribute to a sustainable future, emphasized by our environmental, social, and governance (ESG) efforts.

When world-class technology solutions are created through environmentally responsible practices, deliver reliable and lasting value to users, and move toward a circular economy, everyone wins.

**"We believe innovation must serve the purpose of a better life for humanity — more inclusive, more environmentally friendly, and constantly changing for good."**

Yang Yuanqing  
*Chairman and CEO*  
Lenovo



# 5 key focus areas for a more sustainable future

## Sustainable packaging

Packaging isn't an afterthought at Lenovo. It's an opportunity to lead the industry in efficiency and sustainability.



Our lighter bio-based (bamboo and bagasse) packaging reduces the overall package size, which also results in a 6.7% efficiency improvement in transportation CO<sub>2</sub> emissions.



The ThinkPad® packaging team developed an ingeniously designed box that eliminates the need for sealing tape. This design will be phased in to more products in the future to further reduce our use of plastic tape.

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Since 2008,  
we've eliminated  
more than  
**3,100 tons**  
of packaging  
by weight.

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## Energy conservation/ carbon mitigation

We're taking a science-based approach to maximize conservation and minimize greenhouse gas emissions in measurable and meaningful ways.



We reduced greenhouse gas emissions 92% through energy efficiency projects, renewable energy installations, and renewable energy commodity purchases.



By 2025, 90% of the electricity for our global operations will come from renewable sources, and we will remove 1 million tons of greenhouse gas emissions from our supply chain.



Our partners share our commitment. Intel®, a top EPA-ranked green power user,<sup>1</sup> returns 80% of the water they use.



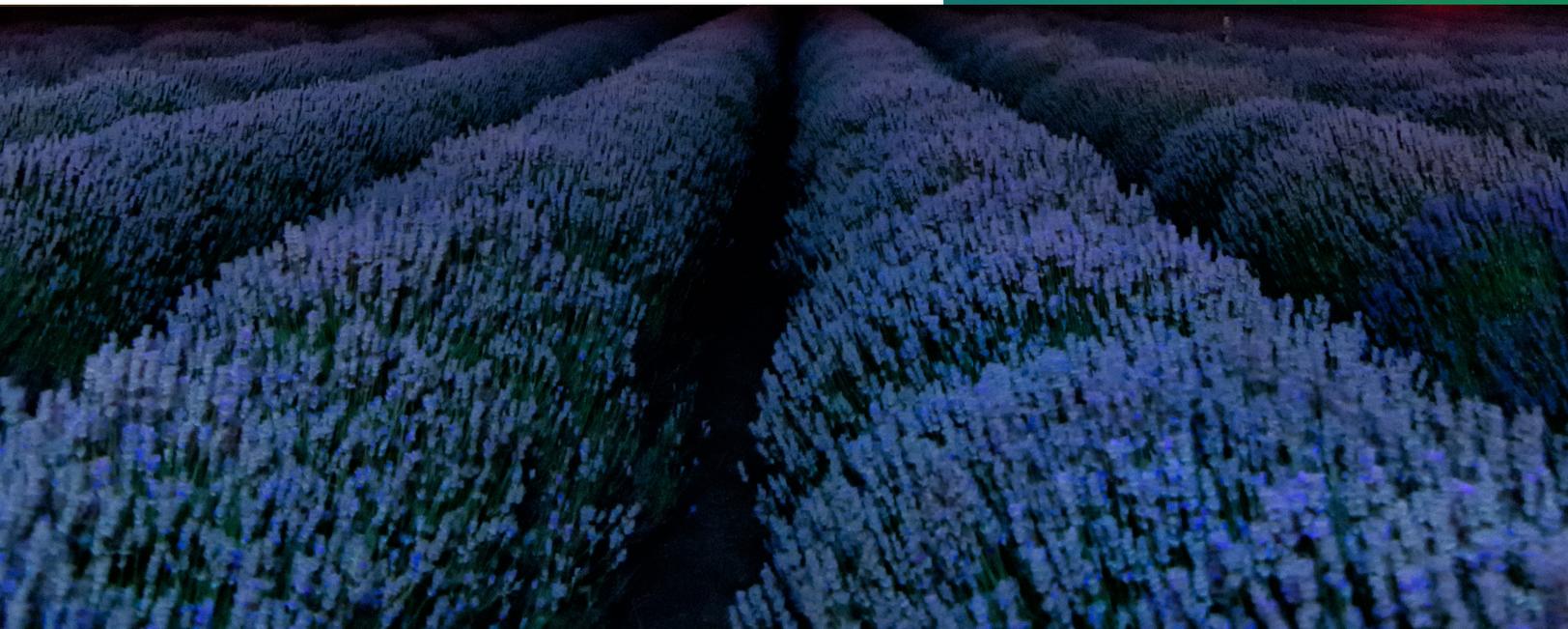
We pioneered an innovative low-temperature solder technology — and shared it with the industry for free to ensure the greatest long-term global benefit. On our ThinkPad and laptop lines alone, this technology saves the CO<sub>2</sub> emissions equivalent of 670,179 gallons of gasoline per year.



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Lenovo  
laptops will be  
**30% more**  
energy-efficient  
by 2030.<sup>1</sup>

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## Innovative use of recycled materials

Lenovo is an industry leader in using post-consumer recycled content (PCC) plastics and closed-loop PCC (PCC sourced from end-of-life IT and electronics equipment) in the manufacture of our devices and accessories.



So far, we've used more than 110 million pounds of net recycled plastic and 12 million pounds of closed-loop recycled content in our products and packaging.



66 Lenovo products are made with closed-loop PCC recycled materials.



We collaborated with Sony Semiconductor Solutions Corporation to develop a PC adapter with an industry-leading 90% PCC.

## Circular economy

We're committed to maximizing value throughout a product's lifecycle and keeping end-of-life products out of landfills.



Reverse supply chains help us reintegrate products and parts that still have life or that can be repaired or refurbished for further use.



Our product takeback programs make it really easy for many customers around the world to recycle their old devices, batteries, and other IT assets.

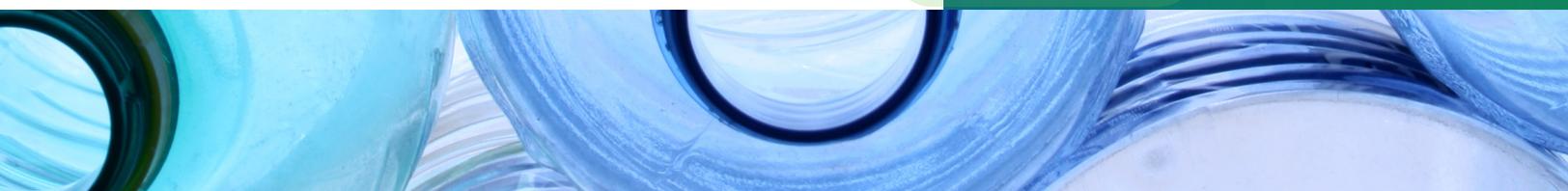


We sustain demand for recycled electronics by using closed-loop PCC in our own products.



The **X1 Carbon**  
7th Generation was the  
first Lenovo laptop  
made with closed-loop  
PCC recycled content.

Since 2005,  
Lenovo has  
processed more than  
**257,766 tons**  
of computer  
equipment for  
recycling and reuse.





## Social impact

As a provider of world-class technology solutions, we believe we have a responsibility to serve our global community.



Inclusive design experts are vetting our products to ensure they work comfortably for everyone.



The Intel® Evo™ vPro® platform powered by Intel® Core™ vPro® processors is used in Lenovo ThinkPad products. The processors are made with conflict-free minerals.



The Lenovo Foundation will have benefited 5 million individuals around the world by 2025.



By 2025, **75%** of Lenovo products will be vetted by inclusive design experts to ensure they work for everyone, regardless of physical attributes or abilities.

Learn more about our environmental, social, and governance (ESG) efforts at [www.lenovo.com/esg](http://www.lenovo.com/esg).

<sup>1</sup> <https://www.epa.gov/greenpower/green-power-partnership-top-30-tech-telecom>



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