

Sustainability and Surface



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Microsoft Surface Overview



Surface Portfolio

2-in-1

Versatile tablet + Laptop devices that provide mobile productivity for workers on the go.

Best for: Frontline Workers, Information Workers, Executives



Surface Go 3

The **smallest, lightest Surface** with LTE advanced connectivity with touch and ink capacitive PixelSense™ display



Surface Pro 7+

Get it all done with **high-speed performance, built-in security, and compatibility** with the accessories you depend on



Surface Pro 9

Get **tablet flexibility and laptop performance**, with your choice of Intel® Evo™ 5 or Microsoft SQ® 3 with 5G*

Laptops

All the power of a static desktop in a sleek, modern form factors built for hybrid and remote workers.

Best for: Information Workers, Executives, Engineers, Developers



Surface Laptop Go 2

Sleek and light for work anywhere in exceptional value. It provides portability, quality you can see and touch.



Surface Laptop 5

Lightning-fast performance, sleek portability, and built-in security that enable impactful work on your terms.



Surface Laptop Studio

Incredibly powerful, infinitely flexible, for intensive and creative workloads in a boundary-pushing form factor that's great for inking.

Large Screens & Foldables

A family of devices that revolutionized a new category of computing focused on flexibility, collaboration, and mobility.

Best for: Hybrid Meetings, Designers, Mobile Workers



Surface Duo 2

Two ultra-thin high-resolution screens **transform mobile productivity** without constant app switching



Surface Studio 2+

Find fuel for inspiration with Windows 11 and **professional-grade performance**



Surface Hub 2S

Enable teamwork anywhere with this Microsoft Teams-certified **meetings platform and modern collaborative canvas**

Thoughtfully designed



World class design labs

The Microsoft campus in Redmond, WA is home to some of the best research and testing facilities in the world – 100,000 square feet (about the area of a Manhattan city block) of world class design labs dedicated to innovation, prototyping, building, and testing Surface devices.



Hardware designed for experiences

Throughout our history as Surface, we have seen that the most meaningful experiences come from innovation at the intersection of hardware and software. This idea was the catalyst for Surface – to build hardware that would not only be a stage for Windows but push the platform and the ecosystem forward.



Premium craftsmanship

Every product we create uses premium materials, components, and testing processes with one goal in mind: Surface devices should fade into the background - so you are free to focus on what's important to you.



Making an impact on the world we live in

The potential impact we can make on the world around us fuels our design innovation, from what our customers can achieve with our devices to what we leave behind for future generations. That's why at Surface, our commitments to our sustainability and accessibility goals are heavily ingrained in our design process.





Microsoft Sustainability Commitments

Microsoft's core environmental sustainability commitments



**Carbon
negative**
by 2030



**Water
positive**
by 2030



**Zero
waste**
by 2030



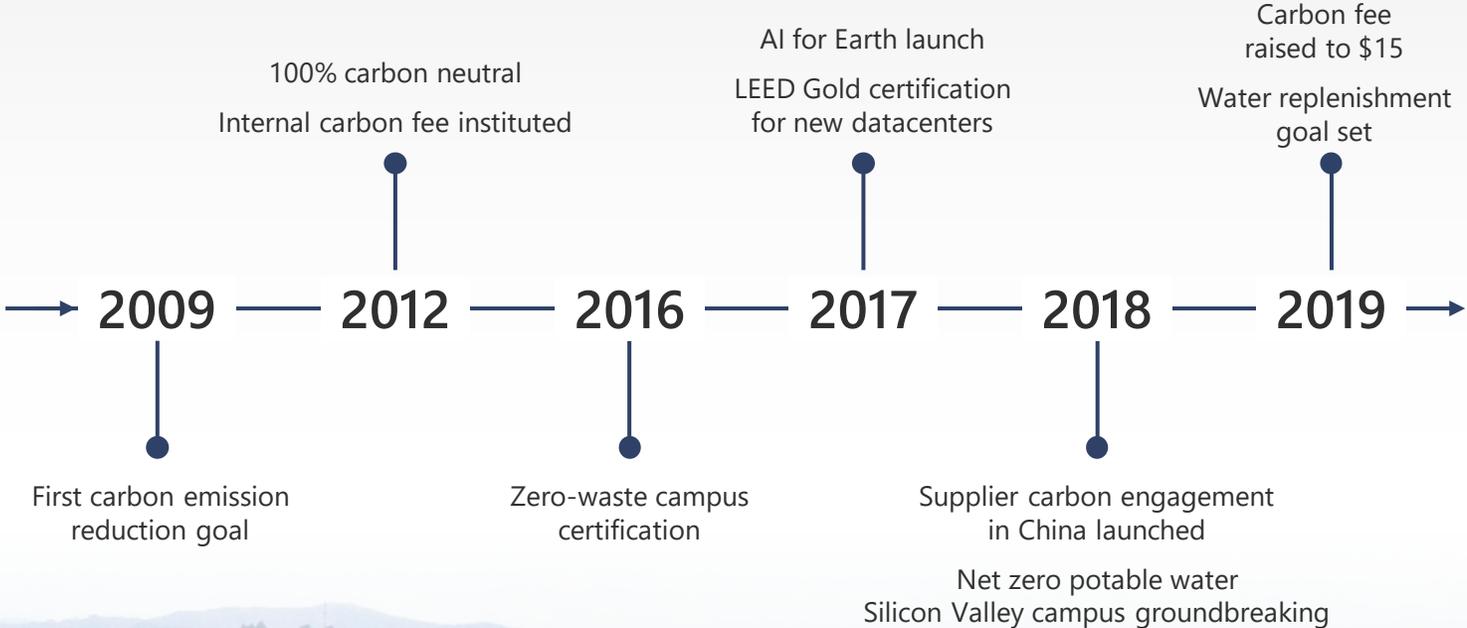
Build the
**Planetary
Computer**

Investing to build the leading platform for technology solutions to environmental challenges

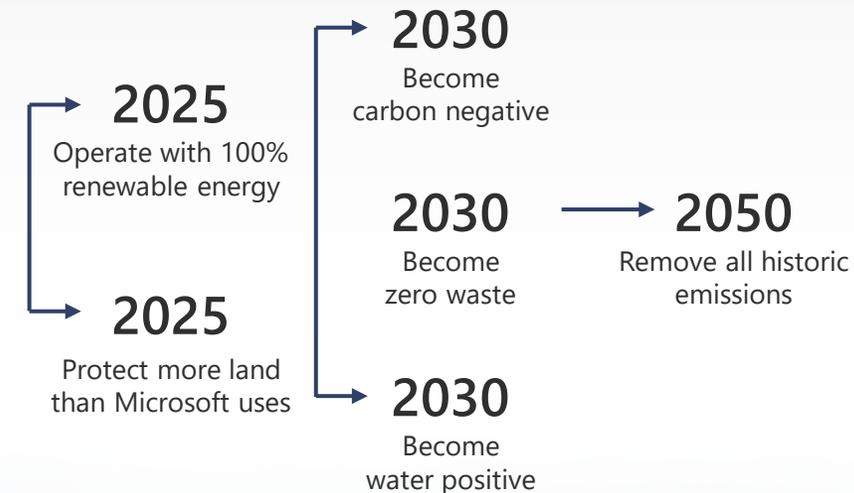


Microsoft's history of action

Our history 2009-2019



Our commitments 2020-2050



A man with short, graying hair and a light beard is shown from the chest up, wearing a light gray long-sleeved sweater. He is holding a white Microsoft Surface tablet with both hands, looking at it intently. The background is a lush, green garden with various plants and trees, suggesting an outdoor setting. The lighting is bright and natural, indicating daytime. The Microsoft logo is visible on the back of the tablet.

Surface Sustainability

Microsoft's Commitments

**Carbon negative
by 2030**

**Zero waste
by 2030**

Windows and Surface Commitments



Reducing carbon impact

Surface and Windows have defined sustainability targets on our product roadmap for future launches

To make this happen, we are improving efficiency in software, hardware, and our supply chain



Circular by design

Microsoft designs products with the circular economy in mind - we follow a 'repair, reuse, and recycle' model.

Designing for circularity minimizes waste by extending the lifespan of our devices for as long as possible.



Integrity built-in

Microsoft builds products of the highest quality with a responsible supply chain that meets higher ethical and environmental standards.

Integrity also means our commitment to transparency on the impact of our products and our supply chain.

Microsoft's Commitments

**Carbon negative
by 2030**

**Zero waste
by 2030**

Windows and Surface Commitments



Reducing carbon impact

Designing Out Carbon Emissions
Renewable Energy in Supply Chain
ENERGY STAR® Efficiency Ratings



Circular by design

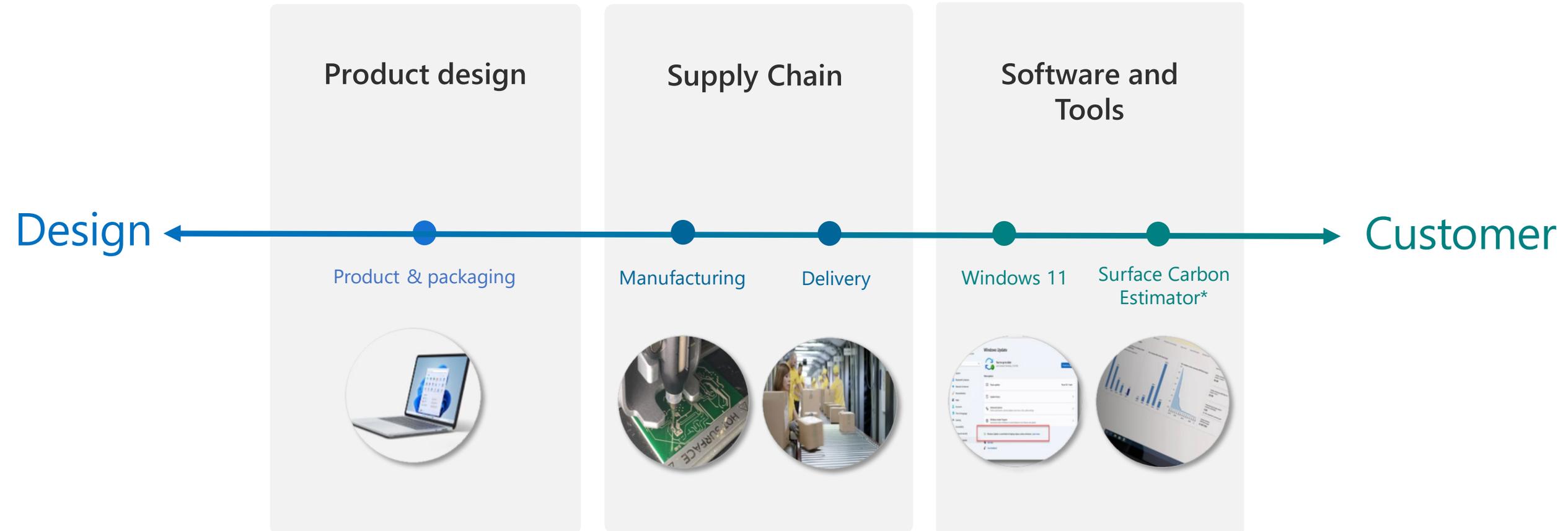
More Sustainable Packaging
Increasing Repairability
Innovating New Circular Materials



Integrity built-in

EPEAT Gold™ Registered PCs
EcoProfiles for Devices
Transparency on Impact

Reducing carbon impact across the lifecycle



**For commercial customers; expected to available later this year*

Microsoft Surface In-Field Replaceable Components Repair for Tablets

Surface Go 3



- Kickstand

Surface Pro 8



- Screen
- Kickstand
- Hard Drive
- Hard Drive Door

Surface Pro 9 5G



- rSSD
- SSD Door
- Kickstand
- Screen (TDM)
- USB-C
- Surflink
- Bucket
- Speaker/WiFi Modules
- Fingerprint Reader
- Battery
- Thermal Module
- Camera Front & Rear
- Camera Deck
- Power/Volume Button
- Motherboard

Surface Pro 9



- rSSD
- SSD Door
- Kickstand
- Screen (TDM)
- USB-C
- Surflink
- Bucket
- Speaker/WiFi Modules
- Fingerprint Reader
- Battery
- Thermal Module
- Camera Front & Rear
- Camera Deck
- Power/Volume Button
- Motherboard

Surface Studio 2+



- SSD Door
- Display/Screen (A/B-Cover)
- Thermal Module
- Power/Volume Button
- Motherboard

Available components and service options vary by product, market and over time. See Microsoft Service Guides: [Download Surface Service Guides from Official Microsoft Download Center.](#)

Microsoft Surface In-Field Replaceable Components Repair for Laptops

Surface Laptop 4



- Screen A/B Cover
- Keyboard Cover
- rSSD
- rSSD door
- Feet and screws

Surface Laptop 5



- rSSD
- Display/Screen (A/B-Cover)
- Screen (TDM)
- Keyboard C Cover
- Feet & Screws
- USB-C & Audio Jacks
- SurfLink
- Bucket
- Speaker/Wi-fi Modules
- Battery
- Thermal Module
- Motherboard

Surface Laptop Studio



- Screen
- Keyboard
- Charging Port
- USB-C & Audio Jacks
- Hard Drive
- Cosmetic Plate
- Keyboard/Trackpad
- Feet

Surface Laptop Go 2



- Screen
- Keyboard
- Hard Drive
- Feet
- Battery
- Charging Port

Surface Laptop SE



- rSSD
- Display (Sub-assembly)
- Keyboard (C-Cover)
- Bucket
- Feet & Screws
- Speaker & Wi-fi Modules

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Product Proof Points



Windows 11 Update is now carbon aware

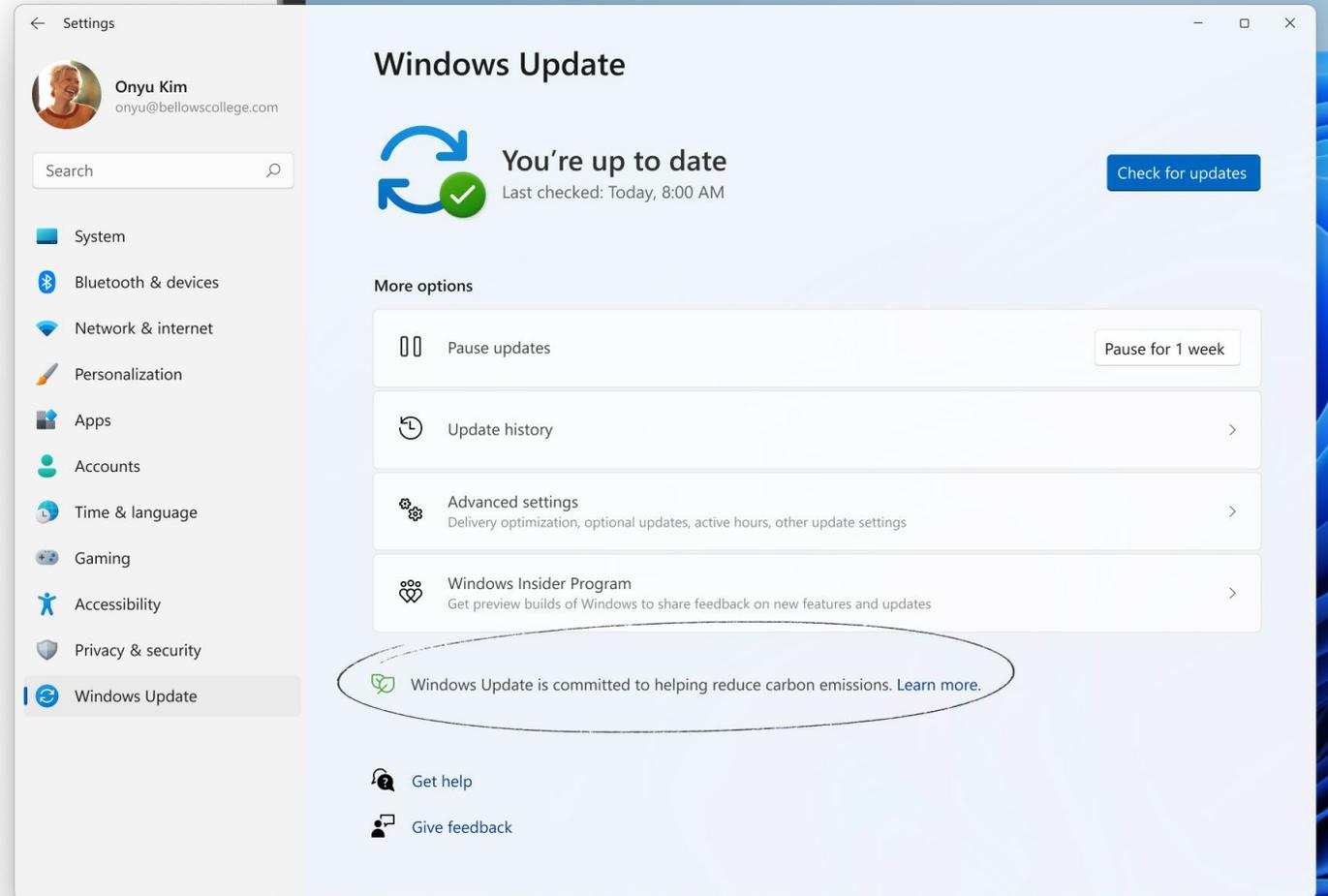
Windows update leverages more renewable energy

Starting with Windows 11, version 22H2, Windows Update is now carbon aware*, making it easier for your devices to reduce carbon emissions.

When devices are plugged in, turned on, connected to the internet and where regional carbon intensity data is available, Windows Update will schedule installations at specific times of the day (when doing so may result in lower-carbon emissions because a higher proportion of electricity is coming from lower-carbon sources on the electric grid).

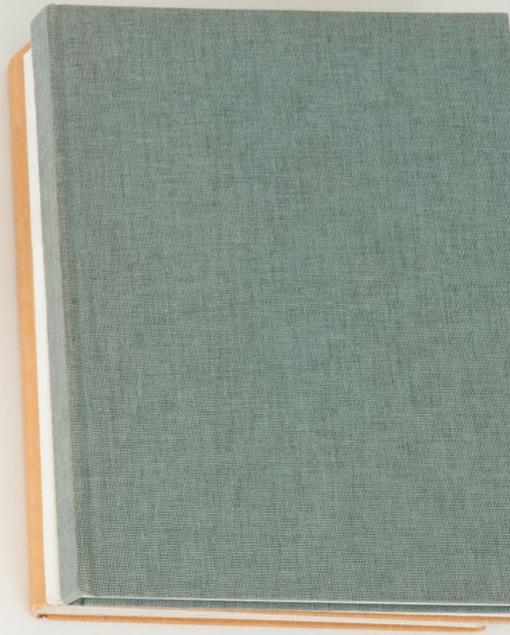
You can always bypass this function and choose to install updates immediately on the Windows Update page in Settings.

Data is from our partners [electricityMap](#) or [WattTime](#).



Meet Surface Pro 9

Laptop power, tablet flexibility





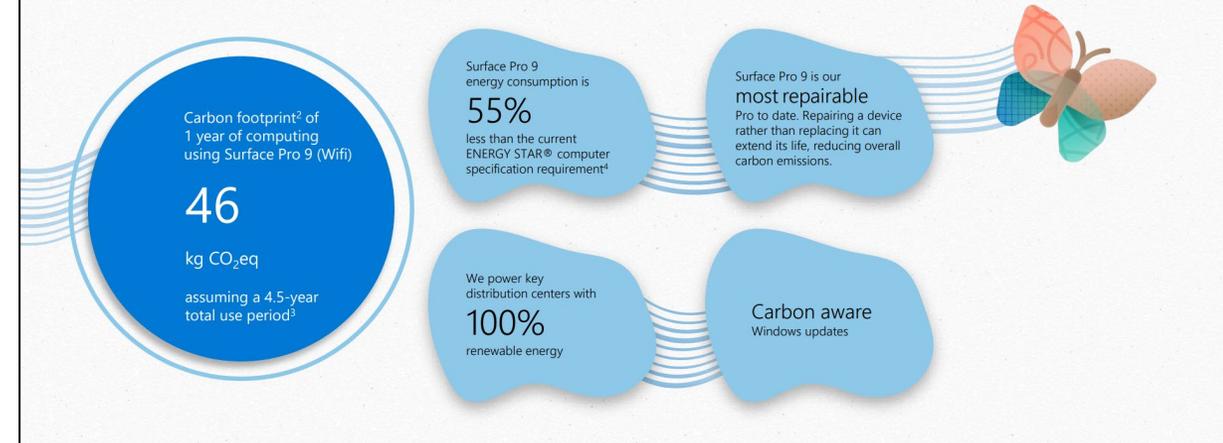
ECOPROFILE

Surface Pro 9 (Intel/Wifi)



Reducing carbon emissions

Surface is helping achieve Microsoft's commitment to become carbon negative by improving efficiency in our operations, devices, software and supply chain.



Building with integrity

Responsibly made

Our values of integrity, accountability, and respect provide the foundation for responsible sourcing. Engaging with our suppliers around issues of human rights, sustainability, and ethics helps us understand and mitigate risk, increase transparency, build capacity, and create shared value for society. Read our [Responsible Sourcing Report](#) for more information.

We take a precautionary approach to [substance management](#). We follow legislative developments and research regarding chemical impacts on health and environment and update our specifications with new product and manufacturing substance restrictions to address risks.

Labels and certifications

Surface Pro 9 is EPEAT registered in many countries at the Gold level, the highest available rating. EPEAT criteria cover topics including reduction of carbon transparency, energy efficiency, material selection, product design for repair and longevity, chemicals of concern, distribution, packaging, responsible end-of-life management, responsible manufacturing, and corporate performance and reporting. For more information, visit the [EPEAT registry](#).

Surface Pro 9 is ENERGY STAR[®] certified. Visit the [ENERGY STAR website](#) for more information.



Circular by design

The linear 'take, make, and waste' approach is no longer viable. That's why we design products with circularity in mind, meaning we follow a 'reduce, reuse, and recover' model to minimize waste and maximize the reuse of resources.

Surface Pro 9 is our most repairable

Surface Pro device to date.



More serviceable. More sustainable.



Reducing carbon impact

Surface plays a key role in Microsoft's commitment to be carbon negative, water positive, and zero waste by 2030. That's why we aim to create devices that reduce carbon impact across their lifecycles, reduce waste, and are built with integrity.⁵

Windows Update is now carbon aware, making it easier for your devices to reduce carbon emissions when offered.⁶



Designing with circularity in mind

Get more out of your device with more components that are replaceable. Major components in Surface Pro 9, including the display, thermal module, kickstand, Surface Connect port, and more, are replaceable through a network of approved service providers or on site through a skilled technician.⁷

Surface Pro 9 packaging contains 97% renewable materials that are certified sustainably forested. Commercial packaging is also 98% recyclable.⁸



Discover Surface Laptop 5

Do it all with style, speed, and performance





ECOPROFILE

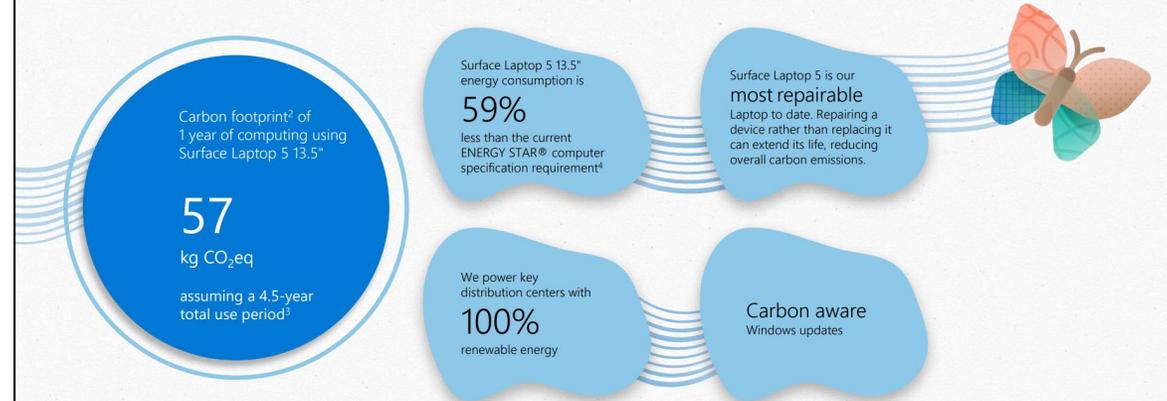
Surface Laptop 5 13.5"



Surface Laptop 5 13.5" Ecoprofile © Microsoft Corporation. All rights reserved. Last updated October 2022.

Reducing carbon emissions

Surface is helping achieve Microsoft's commitment to become carbon negative by improving efficiency in our operations, devices, software and supply chain.



Building with integrity

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We take a precautionary approach to [substance management](#). We follow legislative developments and research regarding chemical impacts on health and environment and update our specifications with new product and manufacturing substance restrictions to address risks.

Labels and certifications

Surface Laptop 5 13" is EPEAT registered in many countries at the Gold level, the highest available rating. EPEAT criteria cover topics including reduction of carbon transparency, energy efficiency, material selection, product design for repair and longevity, chemicals of concern, distribution, packaging, responsible end-of-life management, responsible manufacturing, and corporate performance and reporting. For more information, visit the [EPEAT registry](#).

Surface Laptop 5 13.5" is ENERGY STAR[®] certified. Visit the [ENERGY STAR website](#) for more information.



Circular by design

The linear 'take, make, and waste' approach is no longer viable. That's why we design products with circularity in mind, meaning we follow a 'reduce, reuse, and recover' model to minimize waste and maximize the reuse of resources.

Surface Laptop 5 is our **most repairable**

Surface Laptop device to date.





Microsoft is reducing the carbon intensity of our devices

Surface devices play a key role in Microsoft's commitment to be carbon negative, water positive, and zero waste by 2030.¹² That's why we aim to create devices that reduce carbon impact across their lifecycles, reduce waste, and are built with integrity.

Get more out of your device with more replaceable and repairable components. Major components in **Surface Laptop 5** including the display module, keyboard assembly, battery, motherboard, and storage are replaceable through various service options.⁴

Packaging is ~99% recyclable on average,¹⁵ with 96% of the packaging material is bio-renewable, post-consumer recycled, or Certified Sustainably Forested.¹⁶

Finally, Windows Update is now carbon aware, making it easier for your devices to reduce carbon emissions.¹⁷



Microsoft Ocean Plastic Mouse

Shell made with 20% recycled ocean plastic



Overview

Microsoft Ocean Plastic Mouse is both a breakthrough in materials technology and a small step forward in Microsoft's sustainability journey. Its shell is made from 20% recycled ocean plastic and it arrives in a small box that is 100% recyclable—all while still offering efficient battery life, wireless freedom, and precise navigation.

Highlights

- Shell is made with 20% plastic waste recovered from oceans and waterways that is cleaned and processed into recyclable plastic resin pellets, which are then blended in during the materials development process.
- The 100% recyclable box it comes in is a highly sustainable package design we can learn from. The small box is plastic free and made from recyclable wood and sugarcane natural fibers.
- True wireless freedom—connects to your Windows laptop via Bluetooth® 5.0 LE.
- Up to 12 months of battery life from a single AA battery.¹
- Includes an exclusive ocean-inspired theme pack to complete your Windows desktop.²

Learn more here: [Meet our New Mouse Made from Recycled Ocean Plastic | Microsoft Accessories](#)

Resources

- [Microsoft's Sustainability Report](#)
- [Microsoft Devices Responsible Sourcing Report](#)
- [Product EcoProfiles](#)
- [Devices Environmental Compliance](#)
- [Overview Video on Sustainability in Surface](#)

More questions? Visit aka.ms/susinquiry

