

Brazil

Sustainability fact sheet

As more people and businesses rely upon technology to stay connected, informed, and productive, digital needs in Campinas and around the globe are growing and that means the need for datacenters is growing too.

The Microsoft Cloud offers customers an energy efficient and carbon neutral alternative to running their own private datacenters. [Research](#) shows that Microsoft Cloud services can be up to 93 percent more energy efficient than traditional enterprise datacenters.

We're committed to providing a sustainable Microsoft Cloud, so we wanted to share information about how we take responsibility for our datacenter operations.

For Microsoft's datacenters in the Brazil South region, located in Campinas, Brazil, we have included local sustainability investments and datapoints in support of meeting and exceeding our commitments around carbon, water, waste, and ecosystems.

CO₂ Carbon

Design power usage effectiveness (PUE) for new datacenters

1.12

New Microsoft datacenters are not yet in operation

Microsoft's commitment

Microsoft pledged to become carbon negative by

2030

And by 2050, removing historical carbon since its founding in 1975

6% renewable energy coverage

approximate energy procured through June 2021

Microsoft operations in Brazil will comply with applicable air quality requirements.



Microsoft will reduce Scope 1 and 2 emissions to near zero through energy efficiency work and by reaching

100% renewable energy supply by 2025.

In Brazil, we plan to use a [renewable biofuel blend to power our backup generators that reduces net carbon emissions.](#)

New Microsoft datacenters are designed to earn [LEED Gold certification.](#)

Microsoft has also committed by **2030** to be:

Diesel free

100% of electricity consumption, 100% of the time, matched by zero carbon energy purchases

Reducing our Scope 3 emissions by more than half

[Learn about PUE and WUE](#)

Water

Design water usage effectiveness (WUE)

0.039 $\frac{L}{kWh}$

New Microsoft datacenters are not yet in operation



In 2020, Microsoft pledged to be **water positive** for our direct operations by 2030.

Through this commitment, we will replenish the water consumed by datacenter operations in water-stressed regions. We have also committed to reduce water waste in our datacenter operations by 95% by 2024.

Achieving your sustainability goals

Microsoft Azure enables operational agility, performance, efficiency, and sustainability so you can reduce your company's water usage, waste output, and carbon footprint—all while improving productivity and cost efficiency.

[Microsoft Emissions Impact Dashboard](#)

The *Microsoft Emissions Impact Dashboard* helps to quantify the impact of Microsoft Cloud services on your environmental footprint factoring in Microsoft's Scope 1, 2, and 3 emissions as well as the efficiency of your on-premises environments.

[Microsoft Cloud for Sustainability](#)

The *Microsoft Cloud for Sustainability* allows you to more easily and effectively record, report, and reduce your emissions on a path to net zero. It integrates previously disparate solutions into a new system of record that delivers all the data you need to manage your business today while you transform.

Whatever your sustainability goals, Microsoft can help you plan, implement, and attain measurable environmental and cost benefits.

Learn more about improving your sustainability with Microsoft:

Microsoft.com/Sustainability

Azure.Microsoft.com/Sustainability



Microsoft will use **adiabatic cooling** at our Campinas datacenter.

These datacenters use **outside air and zero water** when temperatures are below 29.4 degrees Celsius, **reducing cooling water use to less than 10 percent of the year.**



Waste

Globally, Microsoft datacenters **reuse 78 percent** of our end-of-life assets and components; the **remaining 22 percent of materials are recycled.**

Additionally, Microsoft is conducting research and development to improve waste diversion by determining new recycling solutions for used air filters and fiber optic cables.



Community

Since 2021, Microsoft has helped over 450,000 Brazilians with investments in economic and digital inclusion training.

Supporting job and livelihood skills through Virtual School

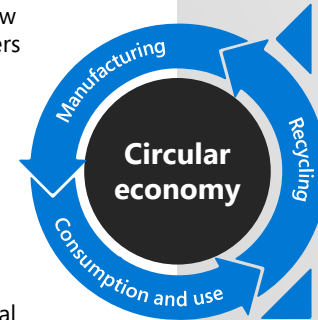
Microsoft is partnering with Bradesco, a pioneer in online education, to offer four learning pathways with 20 total courses. Excel training is the most sought-after course on the platform. Since 2021, over 300,000 people have been trained through this program.

[Learn more](#)

In 2020, Microsoft announced enhanced goals for **waste reduction, circular supply chains, and zero-waste certification.** We are working towards our goal of **90% reuse of servers and components by 2025** through our first-of-its-kind **Microsoft Circular Centers.**

By 2030,

all Microsoft-owned datacenters will be zero-waste.



Resources

Microsoft is using **circular economy** principles in our datacenters by implementing reuse and comprehensive recycling programs.

Waste

Microsoft has committed to **protecting more land than we use for direct operations by:**

2025

Microsoft is committed to **community investment, pollution remediation, and fair economic inclusion initiatives,** as well as investment in clean energy, broadband access, and water replenishment initiatives.