

# TAIWAN

## Microsoft commitments

### CARBON

**Microsoft pledged to become carbon negative by 2030 and remove historical carbon since its 1975 founding by 2050.** Microsoft will reduce Scope 1 and 2 emissions to near zero through energy efficiency work and by reaching **100 percent renewable energy supply by 2025.**

Microsoft has also committed by 2030 to:

- Be free of diesel
- Match 100 percent of electricity consumption, 100 percent of the time, with zero-carbon energy purchases
- Reduce our Scope 3 emissions by more than half

### WATER

**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 by 95 percent in our datacenter operations by 2024.**

### WASTE

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

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

**By 2030, Microsoft datacenters will be zero waste**



### ECOSYSTEMS

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.



# Taiwan

As more people and businesses rely upon technology to stay connected, informed, and productive, digital needs in Taiwan 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 datacenters located in Taipei, Taiwan, in the Taiwan North region, we have included local sustainability investments and datapoints in support of meeting and exceeding our commitments around carbon, water, waste, and ecosystems.

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## Local sustainability investments

### CARBON

 **1.20**

Design power usage effectiveness (PUE)

Not yet in operation

Renewable energy will be sourced from wind, solar, and hydro power.

In Taiwan, we are transitioning from petroleum-based diesel to power our backup generators to a **renewable biofuel blend that reduces net carbon emissions.**

New Microsoft datacenters are designed to earn **LEED Gold certification.**

[Learn about PUE](#)

### WATER

 **1.00**  $\frac{\text{L}}{\text{kWh}}$

Design water usage effectiveness (WUE)

Not yet in operation

Microsoft will use **outdoor air with indirect mechanical cooling** at new datacenters in Taiwan.

These datacenters use **outside air and zero water** when temperatures are below 29.4 degrees Celsius, **reducing cooling water use to less than 30 percent of the year.**

[Learn about WUE](#)

### WASTE

Globally, Microsoft datacenters reuse

 **78%**

of our end-of-life assets and components. **The remaining 22 percent of materials are recycled.**

### COMMUNITY

Since 2020, Microsoft has been investing in digital skills training to increase employability in underserved Taiwan communities.

**We support Build School Taiwan.**

Through a joint project with Build School, Microsoft Taiwan is supporting free admission to a five-month professional training course in Microsoft Azure front-end and back-end development platform technology. The program targets students with autism to support a diverse workforce in Taiwan's technology industry.

**We're providing training through the Skills for Jobs program.**

In 2022, Microsoft worked with nonprofit partners to train over

 **1,500**

individuals through the Skills for Jobs program. More than 350 of the participants are now connected to new employment opportunities.

[Learn more](#)



# 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.

[Learn more](#)

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](https://Microsoft.com/Sustainability)**