

# Microsoft datacenters in Singapore

## Datacenters provide the physical infrastructure for the technology we depend on at work and in our personal lives

A datacenter building houses thousands of computer servers and data storage devices connected to the internet



These buildings are similar in size and appearance to a distribution warehouse.



Microsoft aims to build datacenters that are best in class in performance, reliability, safety, aesthetics, and sustainability.



Compared to many other industrial facilities, datacenters do not create significant noise pollution or have a significant impact on traffic flow or congestion.



Microsoft operates more than 300 datacenters in over 34 countries.

Datacenters are part of everyday life

Whenever you open an app on your phone, join a virtual classroom or meeting, snap and save photos, or play a game with your friends online, you are using a datacenter.



Email



Online shopping



Mobile apps



Online banking



File storage



Streaming videos

[Take a virtual tour of a datacenter](#) >

# Microsoft datacenters create local operations and construction jobs

Microsoft facilities in Singapore currently employ **103 people**.

We estimate it will take approximately **700,000 work hours** and more than **172 jobs** during peak construction to complete construction of the new datacenters.

By the end of 2026, we project **108 full-time employees and contractors** will work across all operational facilities.

## Datacenter operations

- Campus management
- People management
- Learning and development
- IT operations
- Mechanical engineers
- Electrical engineers
- Security contractors
- Building maintenance
- Critical environments

## Construction jobs

- Electricians
- Plumbers and pipefitters
- Carpenters
- Structural iron and steel workers
- Concrete workers
- Earth movers

[Find Microsoft jobs in your community](#)



## Taxes from Microsoft datacenter operations represent important revenue for national, regional, and local governments

Microsoft datacenters represent a capital-intensive investment and long-term commitment to the community. This investment grows the commercial property tax base, increasing revenue for municipal services that benefit local citizens.

Examples of country, provincial, and local taxes that support cities, municipal services, schools, and colleges include:



### Property taxes

Collected annually once land is purchased.



### Indirect taxes

From construction and operation expenses. Examples include VAT, GST, and sales tax.



### Income taxes

From construction and operations workers.

Published April 2024. This document shares information we have as of the publication date, and it includes estimated information and projections. The information is provided as is and may change without notice.



# Microsoft has invested in local Singapore priorities since 2020

Microsoft community investments support community-identified priorities across **13 projects** in Singapore.

## Investing in Singapore through local skill-building programs

### Generation Singapore prepares workers for the switch to technology careers

Together with Generation Singapore, Microsoft launched the first-ever Microsoft Career Transition Scholarship Programme cohort in 2023 to help deserving individuals from disadvantaged backgrounds access the programme. The curriculum comprises a three-month career bootcamp that is crafted for those without a technical education or prior work experience in the technology industry. Graduates have the option to obtain Microsoft certification upon successful course completion.



[Learn more about Generation Singapore](#)



## Partnering with environmental sustainability programs for local impact

### Growing trees for a greener tomorrow

Microsoft partnered with the Singapore National Parks Board through the Garden City Fund on several municipal tree-planting and horticulture initiatives, with the goal of planting 1,700 trees and shrubs together in 2023. This project helps meet Singapore's goal of climate change resilience by planting 1 million more trees across Singapore in the coming decade.



[Learn more about restoring Singapore by planting 1 million more trees](#)



Published April 2024. This document shares information we have as of the publication date, and it includes estimated information and projections. The information is provided as is and may change without notice.



# Microsoft global commitments

## CARBON

**Microsoft pledged to become carbon negative by 2030 and to 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 coverage 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.

## 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 and recycle 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.



# Singapore

## Datacenter operations sustainability investments

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 Singapore we have included local sustainability investments and datapoints in support of meeting and exceeding our commitments around carbon, water, waste, and ecosystems.

Published April 2024. This document shares information we have as of the publication date, and it includes estimated information and projections. The information is provided as is and may change without notice.

[Get to know datacenters](#)

[Community benefits](#)

[Community investments](#)

[Sustainability](#)

### CARBON

We've committed to have **100% renewable energy coverage globally by 2025.**

In Singapore datacenters, Microsoft plans to use a **renewable biofuel that reduces net carbon emissions** compared to traditional petroleum-based diesel, when the product becomes regionally available.

The datacenter in Singapore is **LEED Gold certified.**

### WATER

Our facilities use **water-cooled chillers using reuse/reclaimed water.** Water-cooled chillers use **reuse water 100% of the year.** Small amounts of potable water are used for maintenance activities.

Datacenter cooling water is typically **not treated with any chemicals or additives.**

When quality of the available water is not adequate for use in cooling systems, water treatment is pursued in the same way municipal drinking water is treated to remove excessive hardness or to prevent harmful bacterial growth.

Water from our cooling systems is discharged back to the local wastewater utility treatment plant, following local regulations.

This system is highly efficient, using **less electricity and a fraction of water used** by other water-based cooling systems, such as cooling towers.

### WASTE

In June 2022, we opened a **Microsoft Circular Center** at the Singapore datacenter facilities that can process up to **3,000 servers per month.**

Globally, Microsoft **reuses or recycles 90%+** of end-of-life assets.

[Learn more about datacenter efficiency metrics including PUE and WUE](#)

