

Microsoft datacenters in Finland

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

Once the first datacenter is operational, we plan to hire **80 full-time employees**. From there, additional teams will be hired as the remaining buildings are completed.

The total area of datacenters in Espoo will require approximately **8,000 man-years** for construction locally and the total area of the Kirkkonummi datacenters will require approximately **11,000 man-years**.

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.

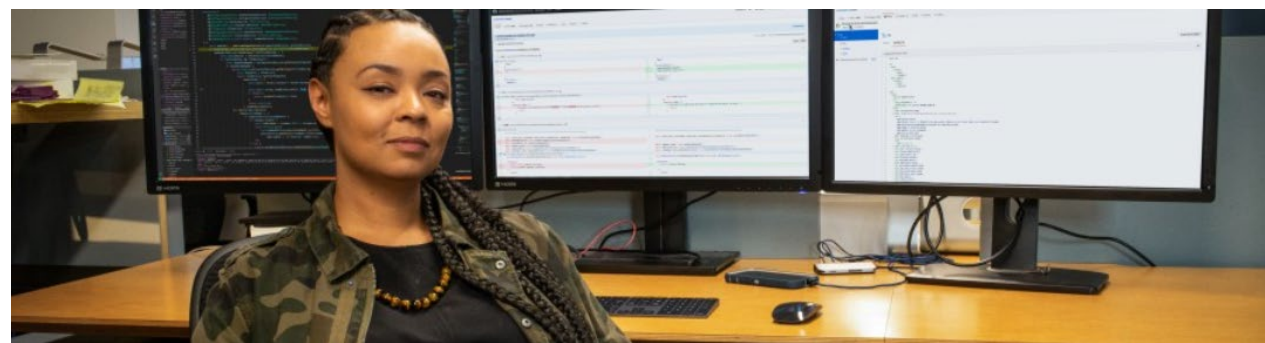
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Microsoft is investing in local priorities in Finland

Investing in people of all ages through local skill-building programs

Providing pathways for datacenter careers

More than 30 million people have strengthened their digital skills as part of a global digital skills and education project launched by Microsoft last June. In Finland, too, more than 100,000 people participated in the free courses offered in the project. Microsoft recently announced a new online service called the Career Connector. It offers 50,000 jobseekers the opportunity to access technology jobs.



[Learn more about the Career Connector](#) >

Creating a Minecraft Empathy Challenge in Kokkolt

Investing in empathy building

As part of the Empathy Kit initiative, Microsoft organized a Minecraft challenge for Finnish schools, seeking the best World of Empathy implementation in the Minecraft Education Edition environment. The starting point for the challenge was to eradicate cyberbullying by strengthening empathy skills. Schoolchildren were tasked with designing a game or information pack that guides them to work online with others in mind, thereby building empathy.



[Learn more about the Microsoft challenge for Finnish schools](#) >

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Microsoft global commitments

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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. 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 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.

Finland

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

CARBON

1.12

Design power usage effectiveness (PUE)

Not yet in operation

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

The heat produced in the Finnish datacenters will be transferred to pertinent district heating systems serving Finland's second largest city Espoo and neighboring Kauniainen as well as the municipality of Kirkkonummi.

In Finland, we plan to power our backup generators with a renewable biofuel blend that reduces net carbon emissions.

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

[Learn about PUE](#) >

WATER

0.01 $\frac{L}{kWh}$

Forecasted water usage effectiveness (WUE)

Not yet in operation

The Finland datacenter will be cooled using **outside air and zero water**.

The datacenter will use minimal water for **winter humidification and will use rainwater harvest when available**.

[Learn about WUE](#) >

WASTE

Microsoft Circular Centers can process up to

3,000

servers per month for reuse.

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

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