

# Microsoft datacenters in Denmark

## 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

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.



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.



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 is currently building datacenter facilities in Denmark.

We estimate approximately **3.9 million work hours across 630 construction roles** will be required to complete construction.

By the end of 2026, we project **43 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 2023. 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 is investing in local priorities in Denmark

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

According to recent studies, the increasing demand for IT talent will result in a shortage of up to 22,000 IT specialists in Denmark by 2030. As part of Digital Leap Denmark, Microsoft is committing to help digitally upskill at least 200,000 Danes by 2024. The plan includes an increased investment in deep technical training and certification for our Danish customers, digital educational opportunities for children and youth, and through LinkedIn Learning free access to digital upskilling, career planning, and job search tools for jobseekers and the entire workforce.



## Technology understanding and digital education among Danish children and young people

At Microsoft, we are working to ensure that more children and young people learn to use and understand modern technology. Therefore, we collaborate with a number of partners to get children and young people engaged in STEM subjects, while at the same time learning to apply their curiosity and creativity in interaction with technology. Microsoft collaborates with **Technology Pact**, **Coding Class**, and **Coding Pirates**, which run various projects and educational programs to increase the technological learning and understanding of children and young people.

[Read more about the program](#)

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# 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. 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.



# Denmark

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

### CARBON

# 1.16

Design power usage effectiveness (PUE)

Not yet in operation

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

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

We will also use IT server heat as the primary heat source during cold winter months and, where feasible, **transfer it to the district heating grid for use in the local community.**

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

[Learn about PUE >](#)

### WATER

# 0.01 $\frac{L}{kWh}$

Design water usage effectiveness (WUE)

Not yet in operation

[Learn about WUE >](#)

### WASTE

Microsoft Circular Centers can process up to

# 3,000

servers per month for reuse.

In 2020, we successfully opened our first Microsoft Circular Center in our North Holland datacenters, which is designed to extend the life cycle of servers through reuse and support a circular economy for the Microsoft Cloud.

We will open a **Circular Center in Demark** when reusable assets are available, which is typically five to six years after the datacenter is operational.

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