

Microsoft datacenters in Ireland

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 datacenters in Ireland currently employ **308 people**.

Since 2016, more than **8.6 million hours** have been worked on construction projects, with an average of **528 construction jobs** per year. We anticipate it will take **4.4 million hours** across an estimated **700 annual construction jobs** to complete the new datacenter facilities.

By the end of 2026, we project **441 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 has invested in the greater Dublin area since 2018

Microsoft community investments support community-identified priorities across **29 partners** in the greater Dublin area.

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

Getting kids and parents excited about technology

The Balgaddy Child and Family Centre coding clubs spark kids’ interest in technology through video game design. The two clubs—Coding Club for kids 9-12 and We Can Code, an inclusive club for kids with additional needs—introduce children to “arcade coding,” challenging them to build their own gaming adventures. Each 10-week session kicks off with a trip to Microsoft Dream Space, the company’s innovation and education hub.



[Learn more about this partnership](#) >

Partnering with local education partners to create skill building opportunities

Providing pathways for datacenter careers

Microsoft collaborated with local education partner Collinstown Park Community College to help job seekers and students pursue in-demand technology skills. The Datacenter Academy program helps build digital skills and provide career pathways in the growing information technology sector for residents of communities where Microsoft operates.



[Learn more about the Microsoft Datacenter Academy](#) >

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 global commitments

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.

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.

Ireland

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

CARBON

1.197

Power usage effectiveness (PUE)

January 2021–December 2021
Design PUE for new datacenters: 1.12

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

In Ireland, we have transitioned from petroleum-based diesel to power our backup generators **to lithium batteries to power our backup generators which reduces net carbon emissions.**

Microsoft's datacenters in Ireland are **ISO50001** and **LEED Gold certified.**

[Learn about PUE](#) >

WATER

0.03 $\frac{\text{L}}{\text{kWh}}$

Water usage effectiveness (WUE)

January 2021–December 2021

Microsoft uses outdoor air with direct evaporative cooling at most of our Ireland datacenters.

This method of cooling uses **outside air and zero water** for cooling when temperatures are below 29.4 degrees Celsius, **reducing water for cooling to less than 2 percent of the year.**

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

[Learn about WUE](#) >

WASTE

Microsoft Circular Centers can process up to

3,000

servers per month for reuse.

In January 2022, we **opened a Microsoft Circular Center at the Dublin datacenter facilities.**

In 2020, Microsoft's datacenter in Ireland and other locations achieved **zero-waste through the UL's Zero Waste Certification.**



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.