

Microsoft datacenters in Arizona

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 operates datacenters in greater Phoenix, Arizona. These facilities currently employ **175 people**.

Construction of these facilities has required more than **2.6 million work hours**, an estimated **350 jobs**, since 2019. We estimate it will take **approximately 4.4 million additional work hours**, the equivalent of **700 jobs**, to complete construction of the new greater Phoenix datacenters.

By the end of 2026, we project **633 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 greater Phoenix local priorities since 2019

Microsoft community investments support community-identified priorities across **60 partners** in the Phoenix West Valley.

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

Providing pathways for datacenter careers

Microsoft collaborated with local education partners **Estrella Mountain Community College** and **Glendale Community College** to open **West Valley Datacenter Academy** to help job seekers and students pursue these in-demand technology skills.

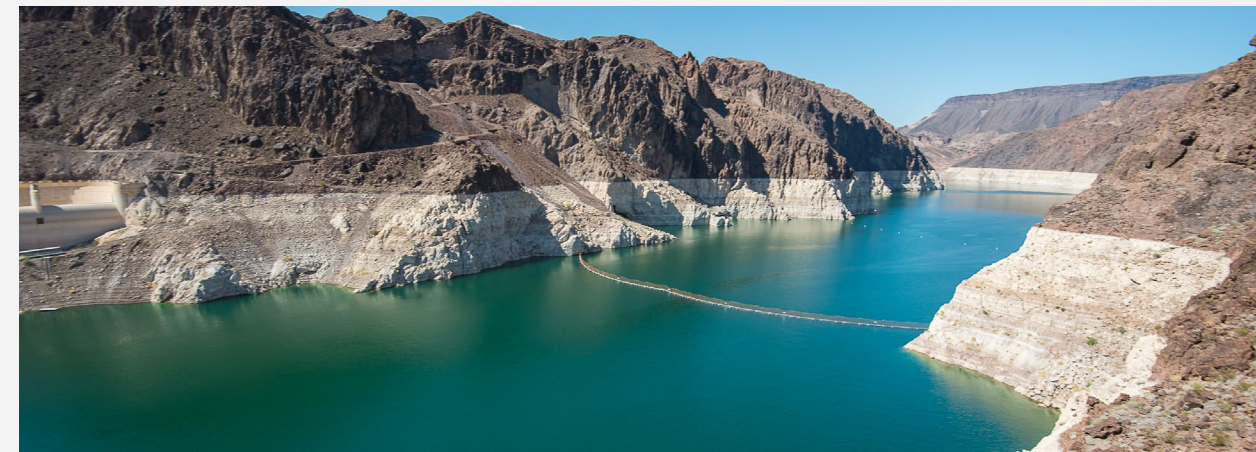
[Learn about the Phoenix Datacenter Academy >](#)



Partnering with environmental sustainability programs for local impact

Investing in water conservation

Microsoft is investing in a water conservation project that helps sustain water levels in Lake Mead and will help prevent water shortage in Arizona. The effort is intended to increase Arizona's water resiliency and help the state meet its **Drought Contingency Plan Commitments**.



[Learn more about the Microsoft Arizona datacenter community local.microsoft.com >](#)

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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.

Arizona

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

CARBON

1.223

Power usage effectiveness (PUE)

January 2022–December 2022
Forecasted PUE for new datacenters: 1.12

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

Agreements for renewable energy were made with Longroad Energy and AES.

In Arizona, we plan to use a **renewable biofuel blend that reduces net carbon emissions.**

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

[Learn about PUE >](#)

WATER

2.24 $\frac{\text{L}}{\text{kWh}}$

Water usage effectiveness (WUE)

January 2022–December 2022

Microsoft uses outdoor air with direct evaporative cooling at our Phoenix datacenters.

This method of cooling uses **outside air and zero water** when temperatures are below 29.4 degrees Celsius, **reducing cooling water use to less than 50 percent of the year.**

[Learn about WUE >](#)

WASTE

Microsoft Circular Centers can process up to

12,000

servers per month for reuse.

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