

Microsoft datacenters in Texas

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 Texas currently employ **353 people**.

Building the existing facilities required more than **8 million work hours** across more than **400 annual construction roles**. We estimate it will require approximately **6.6 million work hours** across **1,051 roles** to complete construction of the new datacenters.

By the end of 2026, we project **595 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.

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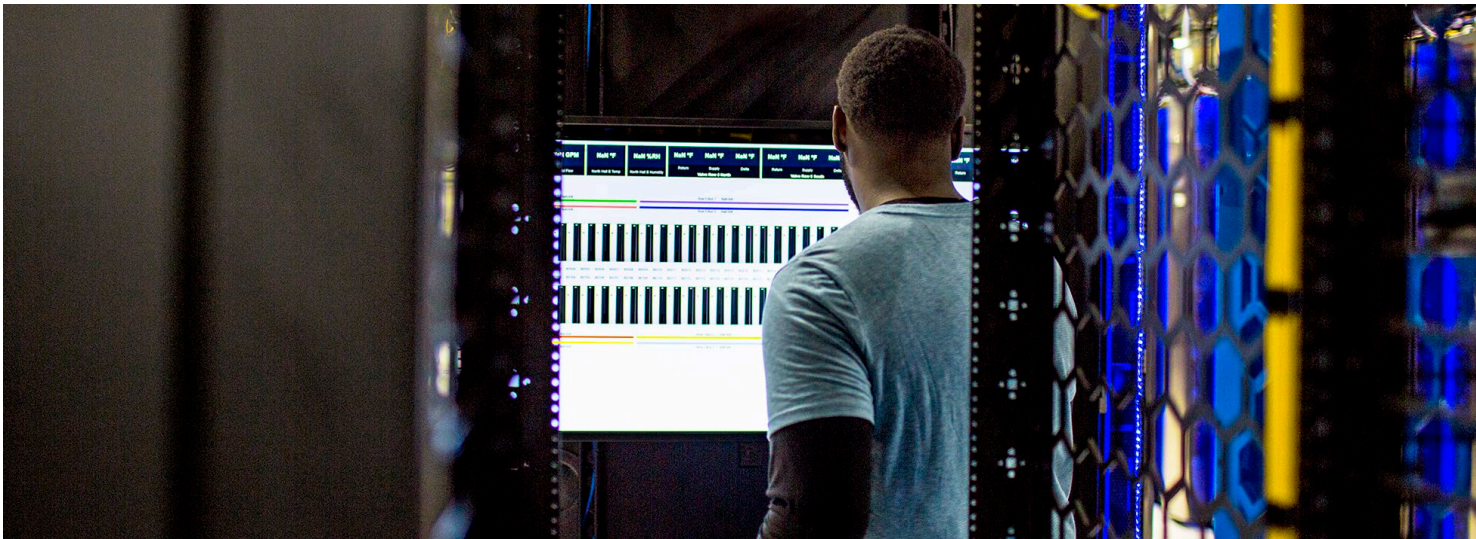
Microsoft has invested in local priorities in Texas since 2018

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

Providing pathways for datacenter careers

Microsoft collaborated with local education partner Northwest Vista College to open the **Datacenter Academy** to help job seekers and students pursue in-demand technology skills. The inaugural cohort of students will start in 2023.

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



Learning valuable skills for the digital economy

Making its San Antonio debut, the gener8tor Skills Accelerator teaches students the necessary skills for an entry-level role in project management. The six-week virtual training is available for free through a partnership with the City of San Antonio, the Alamo Colleges District, and Microsoft.

[Learn more about the gener8tor Skills Accelerator](#)

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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.

Texas

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

CARBON

1.307

Power usage effectiveness (PUE)

January 2022 – December 2022
Design PUE for new datacenters 1.25

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

Agreements for renewable energy were made with Orsted, Engie North America, and Enbridge Energy.

In San Antonio, we are transitioning from petroleum-based diesel to power our backup generators to a **renewable biofuel blend that reduces net carbon emissions**.

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

WATER

1.82 $\frac{\text{L}}{\text{kWh}}$

Water usage effectiveness (WUE)

January 2022 – December 2022

Microsoft uses various cooling solutions in San Antonio, from water-cooled chillers in our legacy datacenters to **air-cooled chillers with air economizers** in our more recent datacenters. **The newer generation datacenters use zero water all year.**

[Learn about WUE >](#)

[Learn about PUE >](#)

WASTE

Microsoft datacenters in Texas are **zero waste certified**.

Globally, Microsoft datacenters reuse

 **78%**

of our end-of-life assets and components; **the remaining 22 percent of materials are recycled**.

Additionally, Microsoft is conducting research and development to **improve waste diversion by determining new recycling solutions for used air filters and fiber optic cables**.