

Microsoft datacenters in Virginia

As we build and operate datacenters, we aim to address local challenges and create benefits for communities.

Our commitment is reflected in three key areas: advancing community prosperity, contributing to a sustainable future, and being a good neighbor through responsible operations.

Published October 2025. 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.

About

We currently operate and are building datacenters in Mecklenburg and Loudoun Counties, and are constructing another datacenter in Prince William County.



Jobs

Our operational datacenters employ approximately 1,180 people. We anticipate it will take approximately 5,190 construction jobs and 21.2 million hours to build the new datacenters.



Investments

Last year, Microsoft community investments supported 20 community identified projects in Northern and Southern Virginia.



Water

Our existing facilities in Virginia are cooled using direct evaporative cooling. Direct evaporative cooling uses water for cooling less than 15% of the year.



Living near a datacenter

Our practices include noise and light reduction, ecological restoration, and ensuring suppliers comply with local laws and environmental regulations.



Learn more



Learn more about our datacenters by visiting aka.ms/insideadatacenter

Advancing community prosperity and well-being

Our datacenters increase local economic activity, create jobs, and boost tax revenue, benefiting residents and the community.

Watch our video to learn more about [Microsoft jobs in your community](#)

Jobs

We partner with local suppliers and create well-paid construction and datacenter operations jobs.

Microsoft operates datacenters and is building new facilities in the counties of Mecklenburg, Prince William, and Loudoun.

- As of 2025, these facilities currently employ approximately 1,180 people.
- Microsoft currently operates and is building datacenters in Mecklenburg and Loudoun Counties, and we are constructing another datacenter in Prince William County.

Datacenter operations jobs

- 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



Advancing community prosperity and well-being

Our datacenters increase local economic activity, create jobs, and boost tax revenue, benefiting residents and the community.

Taxes and economic impact

Microsoft datacenters represent a capital-intensive investment and long-term commitment to the community.

Communities around the world can typically anticipate significant economic benefits in combined local output, employment income, and public revenue contributions—from a single large-scale datacenter.

- Local economies benefit through significant investments in land, construction, and infrastructure.
- Local businesses are supported through sourcing materials and services from nearby vendors and contractors.
- Operational activities—such as purchases from local businesses and utility usage—generate economic output and tax revenue.
- A datacenter presence can serve as a catalyst for technology sector growth, attracting startups, spurring innovation, and creating new job opportunities.

Community investments

Working with local partners, we invest in programs that reflect community priorities and use our strengths as a technology company.

Last year, Microsoft's community investments supported 20 locally identified projects in Virginia, including:

- STEAM program with Mecklenburg County Public Library Foundation
- ADA accessible floating fishing pier and kayak launch with Friends of Occoneechee State Park
- Safety, security and signage upgrades to MacCallum More Museum and Gardens
- Gear and equipment support for South Hill Volunteer Fire Department
- Transportation support for The Bailey Center for Special Needs' LINC program

Datacenter Academy

Microsoft collaborated with Southern Virginia Higher Education Center and Southside Virginia Community College to open the Datacenter Academy, helping job seekers and students in Virginia gain in-demand technology skills.

- In 2024–2025, the program had 172 students.
- To date, we have employed 33 Datacenter Academy students as interns.
- Read more about [Microsoft Datacenter Academy in Virginia](#).

Learn more about [Microsoft investments in Northern Virginia](#) and [Southern Virginia](#).



Contributing to a sustainable future

Our datacenters are designed for high efficiency, using less energy and water than traditional enterprise facilities.

Resources

[Learn more about datacenter sustainability](#)

[PUE & WUE for operational datacenters](#)

[Watch this video to understand water use at Microsoft datacenters](#)



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Energy

- We've committed to achieving 100% renewable energy coverage globally by 2025. In this region, we will fulfill that commitment through power purchase agreements with AES, Constellation, Pleinmont, Virginia Electric, and Volt.
- Our datacenters in Virginia are transitioning the backup generators to use a renewable biofuel that reduces net carbon emissions.
- Facilities in Virginia are built to meet LEED Gold Certification standards, recognizing excellence in environmental sustainability and energy efficiency.

Water

- Our existing facilities are cooled using direct evaporative cooling.
- Direct evaporative cooling uses water for cooling less than 15% of the year.
- In Virginia, Microsoft purchases water from the Roanoke River Service Authority, the Town of Clarksville, the Prince William County Service Authority, and Loudoun Water. On warm days when the temperature exceeds 85°F (29.4°C), water flows into the facility and cycles through the cooling system between 2–5 times. A portion of the water evaporates, while the remainder is typically discharged back to the local wastewater treatment plant in compliance with local regulations.
- We work with local utilities to ensure the community has ample water resources. We have made financial investments in water infrastructure across the globe, replacing and extending decades-old facilities that benefit local residents. These investments also pave the way for community growth.
- To learn more, visit the [datacenter water consumption factsheet](#).

Waste

- In 2020, as part of our goal to become zero waste by 2030, we set a target of reusing or recycling 90% of our end-of-life assets globally.
- We reached a 90.9% reuse and recycling rate in 2024. The Microsoft Circular Center in Boydton—which processes decommissioned servers and cloud hardware—was a key part of that success.
- To learn more, take a [virtual tour](#) of a Microsoft Circular Center.

Operating responsibly as a good neighbor

Each datacenter has a unique design, where the environment, community, and safety are prioritized.

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Living near a datacenter



Vegetative screening and building setbacks are included where possible and in accordance with local ordinances.



Unlike distribution warehouses, datacenters do not generate constant truck traffic. Deliveries are infrequent. Each building typically supports around 50 employees working in shifts across 24 hours, resulting in minimal parking lot traffic.



The main sources of sound at datacenters include employee vehicles, occasional truck deliveries, backup generators, and HVAC equipment. Building setbacks help minimize the noise from backup generators and HVAC equipment.



Exterior lighting is strategically placed around buildings, parking lots, roadways, sidewalks, and perimeter fencing. Fixtures are designed to direct light downward, ensuring security while minimizing light pollution.



During construction Microsoft's general contractors comply with local noise ordinances and specifications outlined in the permitting process.



The community is informed of permitted work hours and other updates through the [Microsoft in your community](#) blog.

Staying connected



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Visit the local.microsoft.com/southernvirginia page →



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