



Sustainability Fact Sheet

Virginia

AWS is building a sustainable business in Virginia, partnering with local communities, and investing in the region's future

Our sustainability work includes enhancing energy efficiency, transitioning to carbon-free energy, reducing embodied carbon, using water responsibly, driving a circular economy, and enabling sustainability for customers.

At AWS, we focus on efficiency across all aspects of our infrastructure. We use industry-standard metrics to measure efficiency and seek the optimal balance of energy and water use.

For more information, visit the [AWS Cloud Sustainability webpage](#).

Efficiencies of Scale

Our scale allows us to achieve higher resource utilization and energy efficiency than the typical on-premises data center. A study released by Accenture and AWS estimates running optimized workloads on AWS's infrastructure is up to **4.1 times more efficient than on-premises**.

For more information, visit the full report, "[How moving to the AWS cloud reduces carbon emissions](#)."

Key Sustainability Metrics

AWS US East (Northern Virginia)	2023	2024	2025
Average PUE	1.15	1.15	1.15
Average WUE (L/kWh)	---	0.12	0.06

Power Usage Effectiveness (PUE) and Water Usage Effectiveness (WUE), in liters per kilowatt-hour, for data centers operated by AWS between January 1 and December 31 of each year

Building a Sustainable Business

Progress So Far

- Amazon has enabled multiple utility-scale solar projects in Virginia to bring new carbon-free energy to the grid, making Virginia one of the top states for Amazon renewable energy investment.
- 37 acres of undeveloped land on the IAD 100 Data Center campus in Prince William County, Virginia were enhanced with native plantings, pollinator habitat, and interpretive trails to increase biodiversity, support monarch butterflies and native bees, improve soil quality, and reduce carbon emissions from lawn maintenance.
- The project creates lasting community and ecological value: the restored 37-acre habitat supports local pollinators critical to Virginia's agricultural economy, provides interpretive walking trails with benches for employee and community engagement, and demonstrates AWS's commitment to integrating native ecosystems into data center campuses rather than maintaining resource-intensive turf grass, reducing ongoing carbon emissions from maintenance equipment.

Our Water Positive Commitment

In 2025, AWS withdrew 996,204,576 liters of water in Northern Virginia.

We are committed to being water positive by 2030, meaning we will return more water to communities than we use in our direct operations. As of the end of 2025, we were 75% of the way towards this goal.

To learn more, see the [Amazon Water spotlight page](#).



Community Impact

Northern Virginia is a key focus area given the scale of data center operations in the region.

Prince William County, Virginia: Amazon collaborated with Prince William County Parks & Recreation and nonprofit KABOOM! to build a 7,500-square-foot, kid-designed play space at Fairmont Park for families in Manassas, Virginia.

AWS Skills Center Arlington: Three years of free cloud skills training for the HQ2 community.

"I'm expecting a baby soon, and the [AWS Information Infrastructure Pre-Apprenticeship (I2PA)] program will enable me to provide for my growing family. I also wanted to challenge gender assumptions and show that women are equally interested in pursuing careers in the skilled technical trades.": **Sarah Hidalgo**, student at Germanna Community College, Locust Grove, Virginia

"The [AWS Information Infrastructure Workshop (I2W)] opened my eyes to the innovative training initiatives AWS has launched to develop talent pipelines for these in-demand roles. We're excited to join forces and create more programs that connect our students to enriching career opportunities.": **Dr. Shashuna Gray**, VP of academic affairs and workforce development at Germanna Community College, Locust Grove, Virginia

Community Impact

"We are so grateful to Amazon for their generosity in helping us brighten the holidays for our East End residents. We see every day how hard our folks work and how much effort and love they invest in their families and community.": **George Davies**, executive director at Creating Foundations for Hope, Manassas, Virginia

"We are thrilled to see Amazon Web Services expand into rural Virginia with its planned data center campuses. The economic impact of AWS in the Commonwealth is transformational, and these world-class data centers will bring historic capital investment and high-quality, 21st-century jobs.": **Jason El Koubi**, president and CEO of the Virginia Economic Development Partnership (VEDP)

"This type of opportunity to create hundreds of high-quality jobs and significant investment in Louisa is why responsible economic growth is a priority for the county. We're proud to partner with AWS to expand their operations in a world with a growing demand for cloud computing infrastructure.": **Duane Adams**, Louisa County Board chairman, Louisa, Virginia



Investing in Virginia

\$190+ billion invested in Virginia since 2010, including infrastructure, and compensation to our employees.

\$140+ billion contributed to Virginia's economy through Amazon's investments since 2010, boosting GDP.

45,000+ full- and part-time employees.

130,000+ indirect jobs supported in industries such as construction, logistics, and professional services—suppliers and partners who we rely on everyday.

\$170,000 average sales per independent seller with over 43 million items sold.

Broader economic impact

Operational since 2006, this is AWS's oldest and largest Region globally. Northern Virginia is the world's largest data center market, and AWS is one of the largest infrastructure investors in the region.

Amazon ranked **#1 Investment Hero** by the Progressive Policy Institute for the sixth consecutive year.

Our key investments in Virginia for the AWS Infrastructure Region include:

- \$119.1 billion investment in AI and cloud infrastructure
- 21 Amazon solar farms
- 5,000 Career Choice, Pathways, and Foundational Classes Participants since program inception
- 15 Career Choice partner institutions