



## Sustainability Fact Sheet

# Canada

## AWS is building a sustainable business in Canada, 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 centre. 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.](#)"

Further, AWS Canada is committed to Canada's Net Zero Challenge.

### Key Sustainability Metrics

AWS Canada (Central)	2023	2024	2025
Average PUE	1.22	1.19	1.19
Average WUE (L/kWh)	---	0.04	0.06
AWS Canada West (Calgary)	2023	2024	2025
Average PUE	---	1.17	1.13
Average WUE (L/kWh)	---	0.08	0.04

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

## Investment in Renewable Capacity

- Canada's electricity grid is among the cleanest in the world: approximately 84% of electricity generation comes from non-emitting sources (hydro, nuclear, wind, solar), with Quebec at over 99% hydro and Alberta rapidly expanding wind and solar capacity.
- AWS has enabled renewable energy projects in Canada, including wind and solar, to bring new carbon-free energy to the grid.

## Our Water Positive Commitment

In 2025, AWS withdrew 11,387,528 litres of water in the Montreal region and 5,475,963 litres of water in the Calgary region.

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

**AWS Calgary Fund:** CAD \$175,000 awarded to 25 social and environmental projects (initially committed CAD \$100K, increased based on demand) across STEM/STEAM education, environmental stewardship, Truth and Reconciliation, homelessness & food insecurity, and health & well-being.

**STEM & inclusion projects funded:** Scientists in School (hands-on STEM for vulnerable children), IndigeSTEAM Society (Indigenous-led STEM training), First LEGO League, Calgary Philharmonic (370 underserved children attending educational concerts), Women Owned Narratives ("Finding Your Voices in STEM Careers").

**Food insecurity & homelessness projects funded:** Calgary Meals on Wheels, Urban Society for Aboriginal Youth (community fridge + rooftop garden for Indigenous youth), Shelter Movers (supporting women and children fleeing gender-based violence).

**Environmental stewardship projects funded:** Highfield Regenerative Farm (pollinator habitats for 1,500+ K-12 students), Compost Club, Strathmore High School community greenhouse.

## Community Impact

### **CAD \$5M provincial & municipal cyber grant programme:**

We are investing CAD \$5 million in AWS credits to help provincial and municipal governments implement cloud-based cybersecurity solutions (September 2024).

### **Cloud Innovation Centre: University of British Columbia: AWS CIC**

at UBC (opened January 2020) — 50+ prototypes in healthcare, education, and research; 300+ AWS accounts across collaborators, staff, students, and researchers.

### **Water stewardship — DataStream:**

Canadian non-profit DataStream uses AWS to provide an online platform for sharing freshwater health information, advancing collaborative water stewardship.

### **Agriculture & Agri-Food Canada:**

AAFC collaborated with us to build cloud-based SAR satellite imagery processing for monitoring agricultural land use and tillage practices across Canada.

### **Canadian Centre for Cybersecurity:**

Assemblyline open-source malware detection tool now available on AWS Marketplace, protecting Canada's critical cyber assets.



## Investing in Canada

**AWS Canada West (Calgary) Region:** Launched 2023 with a planned investment of CAD \$4.3 billion (USD \$3.3 billion) through 2037, expected to create 1,400+ full-time equivalent jobs in the Canadian data centre supply chain and contribute approximately CAD \$5.9 billion (USD \$4.5 billion) to Canada's GDP by 2037.

**AWS Canada (Montreal) Region:** Operational since 2016 — one of the first AWS Regions in Canada. We have continued to expand Montreal infrastructure to meet growing Canadian demand for cloud services with local data residency.

## Driving Digital Transformation

**Amazon Sustainability Accelerator: BrainBox AI (Canada)** — AI-driven HVAC optimisation that reduces energy consumption and carbon emissions in commercial buildings.

