

The AWS logo, consisting of the letters 'aws' in a bold, lowercase, orange sans-serif font.

Sustainability:

Powering a Greener Earth

Building a sustainable future through cloud innovation

Reduce · Optimize · Sustain



The Climate Challenge

The urgency is clear. Global temperatures have risen 1.1°C since the pre-industrial era, and the ICT sector accounts for 2-4% of global carbon emissions.

Data centers consume ~1-1.5% of global electricity. Sustainable infrastructure is no longer optional — it is essential.

AWS is turning data centers from part of the problem into a key part of the solution.

1.1°C

Temperature Rise

2-4%

Carbon Emissions from ICT

1.5%

Global Electricity

200+

AWS Actions

Sustainability matters to AWS and our customers



Increasing efficiency



Reducing carbon emissions



Climate risk management



Industry regulations



Nature and biodiversity



Business growth opportunity

Amazon's Climate Pledge

400+

Companies
Joined

2019



Pledge Founded

Amazon co-founded The Climate Pledge in 2019, committing to net-zero carbon by 2040 — a full decade ahead of the Paris Agreement. As the largest corporate buyer of renewable energy globally, Amazon is on track to power all operations with 100% renewable energy.

2025



100% Renewable

2040



Net-Zero Carbon

A more sustainable infrastructure at scale



117

Availability zones



245

Countries and Territories



37

geographic regions



up to **4.1x**

more efficient than
on premises

AWS Infrastructure Efficiency



3.6x

More energy efficient than median enterprise data centers



Graviton

Custom silicon — up to 60% less energy per workload



Advanced Cooling

Purpose-built cooling & power distribution systems



High Utilization

Maximized server usage eliminates idle waste

Moving to AWS can reduce associated carbon footprint by up to 80%

Renewable Energy & Water Stewardship

World's Largest Renewable Buyer

Amazon is the world's largest corporate purchaser of renewable energy with over 600 solar and wind projects globally, generating enough clean energy to power millions of homes.

Water Positive by 2030

AWS is committed to returning more water to communities than it uses. Innovations include rainwater harvesting, recycled water cooling, and watershed restoration.

600+

Solar & Wind Projects

#1

Corporate Renewable Buyer

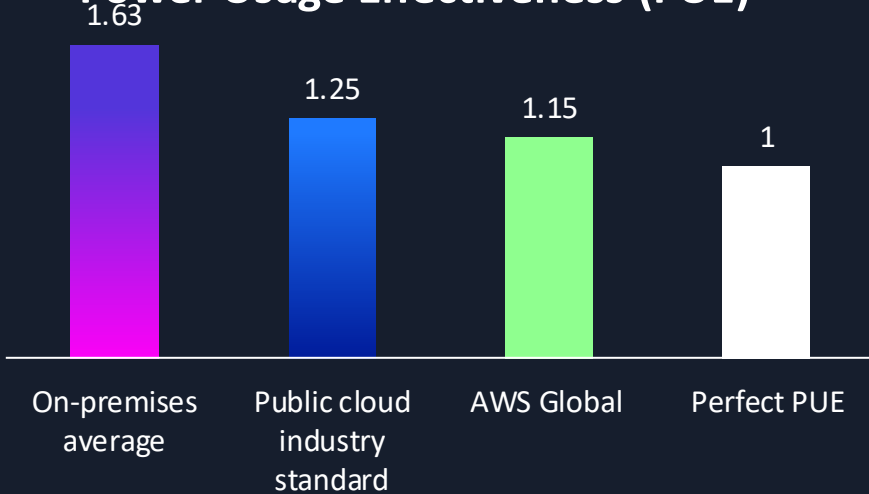
2030

Water Positive Target

New AWS data center design

ENHANCED EFFICIENCY FOR TOMORROW'S AI WORKLOADS

Power Usage Effectiveness (PUE)



PUE is one way we measure the efficiency of our data center operations. A lower PUE indicates a more efficient data center and a PUE score of 1.0 is perfect.



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Optimizing data center design

46% reduced
mechanical energy

35% less
embodied carbon in
concrete used

Source: About Amazon: [AWS Announces New Data Center Components to Support AI Innovation and Further Improve Energy Efficiency](#)

Customer Sustainability Tools



Carbon Footprint Tool

Visualize and track emissions from your AWS usage in real-time



Sustainability Pillar

Well-Architected best practices for efficient cloud architectures



Right-Sizing

Eliminate waste with instance optimization and Spot Instances



Carbon-Aware Scheduling

Place workloads in regions with cleaner energy grids

Customer Sustainability Tools

The screenshot shows the AWS Sustainability Carbon emissions dashboard. A red box highlights the 'Carbon emissions' link in the left sidebar. A red arrow points from this link to the 'Date range' dropdown in the 'Parameters' panel, which is also highlighted with a red box. The dropdown menu is open, showing options for relative and absolute date ranges. The 'Last 12 months' option is selected. A red arrow points from the 'Apply' button in the modal to the 'Apply' button at the bottom of the parameters panel, which is also highlighted with a red box.

AWS Sustainability

- Carbon emissions
- Reports
- Learn more
 - User guide
 - Release notes
- Settings

Carbon emissions

This page provides estimated emissions for the full range of AWS services and the carbon estimates are provided in metric tons of carbon dioxide-equivalent (MTCO₂e). You can read more about our methodology in the AWS Carbon Footprint Report.

Carbon emissions summary

Provides your total AWS carbon emissions calculated using both the market-based (MBM) and location-based (LBM) methods and the estimated savings from AWS's carbon-free energy purchases. The savings represent the estimated carbon emission reduction due to AWS's carbon-free energy purchases.

Method	Estimated emissions
Estimated MBM emissions	0.003 MTCO ₂ e
Estimated LBM emissions	0.003 MTCO ₂ e
Estimated emissions savings	0.000482 MTCO ₂ e

Emissions by scope (MBM)

Scope	Percentage	Estimated emissions (MTCO ₂ e)
Scope 1	0.6%	0.000016
Scope 2	67.6%	0.002
Scope 3	31.8%	0.001
Total		0.003

Emissions by scope (LBM)

Scope	Percentage	Estimated emissions (MTCO ₂ e)
Scope 1	0.5%	0.000016
Scope 2	69.9%	0.002
Scope 3	29.6%	0.001
Total		0.003

Parameters

Date range

Relative mode | **Absolute mode**

Choose a range
Each option represents the full month, counting from its first day to its last.

- ☐ Last 1 month
- ☐ Last 3 months
- ☐ Last 6 months
- ☒ Last 12 months
- ☐ Year to date
- ☐ Custom range
Set a custom range in the past

Apply

Choose regions

Usage account

Choose usage accounts

Emissions scope

All scopes

Apply

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Building a Greener Future Together



Migrate

Reduce your carbon footprint by up to 80% with AWS



Measure

Track and optimize with sustainability tools



Commit

Join 400+ Climate Pledge organizations

Let's act now — the planet can't wait.

Explore AWS Sustainability

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Thank you!