



Sustainability Fact Sheet

Ireland

AWS is building a more sustainable business in Ireland, 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](#)."

Key Sustainability Metrics

AWS Europe (Ireland)	2023	2024	2025
Average PUE	1.10	1.11	1.10
Average WUE (L/kWh)	--	0.03	0.02

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

Building a Sustainable Business

Scaling Energy Projects across Ireland

- First company to deliver unsubsidised corporate power purchase agreements (CPPAs) for renewable energy in Ireland.
- Enabled a total of six wind farms across the island of Ireland, which when completed will provide 373 MW of carbon-free energy — enough to power the equivalent of more than 298,000 homes.
- We don't use any water for cooling more than 95% of the year in our Ireland data centres.
- Our newest data centre designs use as little as 1,000 m³ of water annually per data centre, equivalent to the yearly usage of just eight average Irish households

Alignment with Best Practices

All AWS operated data centres in Ireland are currently ISO 50001 - Energy Management System and ISO 14001 - Environmental Management System certified and conform with the 2025 Best Practice Guidelines for the European Code of Conduct on Data Centre Energy Efficiency.

Scaling our Carbon-Free Energy Investments

In 2025, BloombergNEF again recognized Amazon as one of the world's leading corporate purchasers of carbon-free energy, in addition to building the largest carbon-free energy portfolio of any corporation globally. We have invested in over 700 carbon-free energy projects in 28 countries, with the capacity to generate 40+ gigawatts of electricity.

Recycling Data Centre Heat to Power Local Communities

Ireland's First Custom-Built Sustainable District Heating Solution

AWS data centres in South Dublin provide recycled heat through Ireland's first custom-built sustainable district heating scheme in Tallaght. This project is in partnership with South Dublin County Council and district heating company Heatworks.

- **Key Metrics:**

- 55,000 m² of public sector buildings heated — an area four times the size of Croke Park's stadium pitch
- 3,000 m² of commercial space heated
- 133 affordable rental apartments connected
- 1,500 tonnes of CO₂ saved per annum — equivalent to a 60% reduction in carbon emissions

- **How it Works:**

- AWS provides recycled heat free of charge to the scheme. Combined with additional heat pump technology, heat is sold to end users at low cost by Heatworks
- Waste heat from servers that would otherwise be released is captured and redirected to community buildings

Peatland Restoration in Ireland

Supporting Ireland's Natural Resources

The Challenge:

- Ireland has 700,000 hectares of degraded peatlands currently releasing over 2 million tons of greenhouse gases every year.
- Most Irish bogs are degraded due to human activities — when restored, they actively sequester carbon, regulate water flow, quality, and reduce flood risks.

Amazon's Investment:

- Amazon's Right Now Climate Fund committed €495,000 to develop the Peatland Standard for Ireland.
- Part of Amazon's €20 million committed to nature projects across Europe, the fund also provided €2.5 million to support Nature Trust's 500-hectare blanket bog restoration in Ireland.

What the Standard Does:

- Creates a science-based certification to quantify improvements across: emission reductions, water storage & quality, biodiversity, ecosystem functions, community benefits, and wildfire prevention.

Our Water Positive Commitment

In 2025, AWS withdrew 108,902,681 litres of water in Ireland.

AWS is 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 are 75% of the way towards this goal. To learn more, see the [Amazon Water Stewardship webpage](#).



Supporting Local Communities

AWS data centre employees in Ireland partner with local schools, nonprofits, and community organisations to create lasting positive impact. AWS runs Data Centre Technician programmes and bursary initiatives annually with Technological University Dublin (TU Dublin) and Drogheda Institute of Further Education (DIFE). Both courses are delivered over two semesters of evening classes plus a 14-week work placement with AWS, with almost all graduates securing full-time employment in the tech industry.

Our flagship education initiative, the Amazon Think Big Space in Tallaght, launched in 2022 as the first of its kind in Europe. Since then, over 31,000 students and 900 teachers, educators, and youth group leaders have engaged with the programme, with 70% of participating schools in the Delivering Equality of Opportunity in Schools (DEIS) programme. In September 2024, the Mobile Think Big Space launched bringing new technologies directly to primary schools across Amazon Data Centre Communities. In collaboration with AWS, EnergyCloud Ireland provides free hot water to over 1000 homes nationally using surplus renewable energy.



Investing in Ireland

Research conducted by Indecon International Economic Consultants (Indecon) found that:

- AWS has increased economic output in Ireland by over **€11.4 billion** since 2012, contributing nearly **€2.4 billion** in additional economic output in 2022 alone.
- AWS supports an average of more than **10,000 jobs** per year in the local communities across the country. Much of this economic impact relates to the construction, connection, maintenance, and operation of data centres.
- AWS employs over **4,200 employees** directly in Ireland, with more than 3,000 working for AWS suppliers and sub-contractors.
- There are over **2,900 other roles** in the workforce, indirectly attributable to AWS investment.

Fostering a world-leading cloud infrastructure ecosystem and creating valuable export opportunities for domestic contractors



AWS investment has enabled over

500

domestic suppliers

to expand and grow.

Irish contractors, who work with AWS, now export services to

28 different countries

across the globe.

