



Sustainability Fact Sheet

Germany

AWS is building a more sustainable business in Germany, 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 **3.3 times more efficient than on-premises** in Europe.

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

Key Sustainability Metrics

AWS Europe (Frankfurt)	2023	2024	2025
Average PUE	1.33	1.35	1.24
Average WUE (L/kWh)	--	0.01	0.17

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

Local Carbon-Free Energy Projects

- In Europe, Amazon has invested in over 260 carbon-free energy projects delivering over 10 gigawatts of capacity once operational, enough to power the equivalent of more than 8 million European households annually.
- AWS collaborates with major energy producers in Germany like RWE. A recent long-term agreement involves 110 MW of capacity from the Nordseecluster B offshore wind farm in the North Sea.

Alignment with Best Practices

- All AWS operated data centres in Germany 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.

Scale of Carbon-Free Energy

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.



Water Replenishment

Local Projects Expected to Return 370M Litres of Water Annually

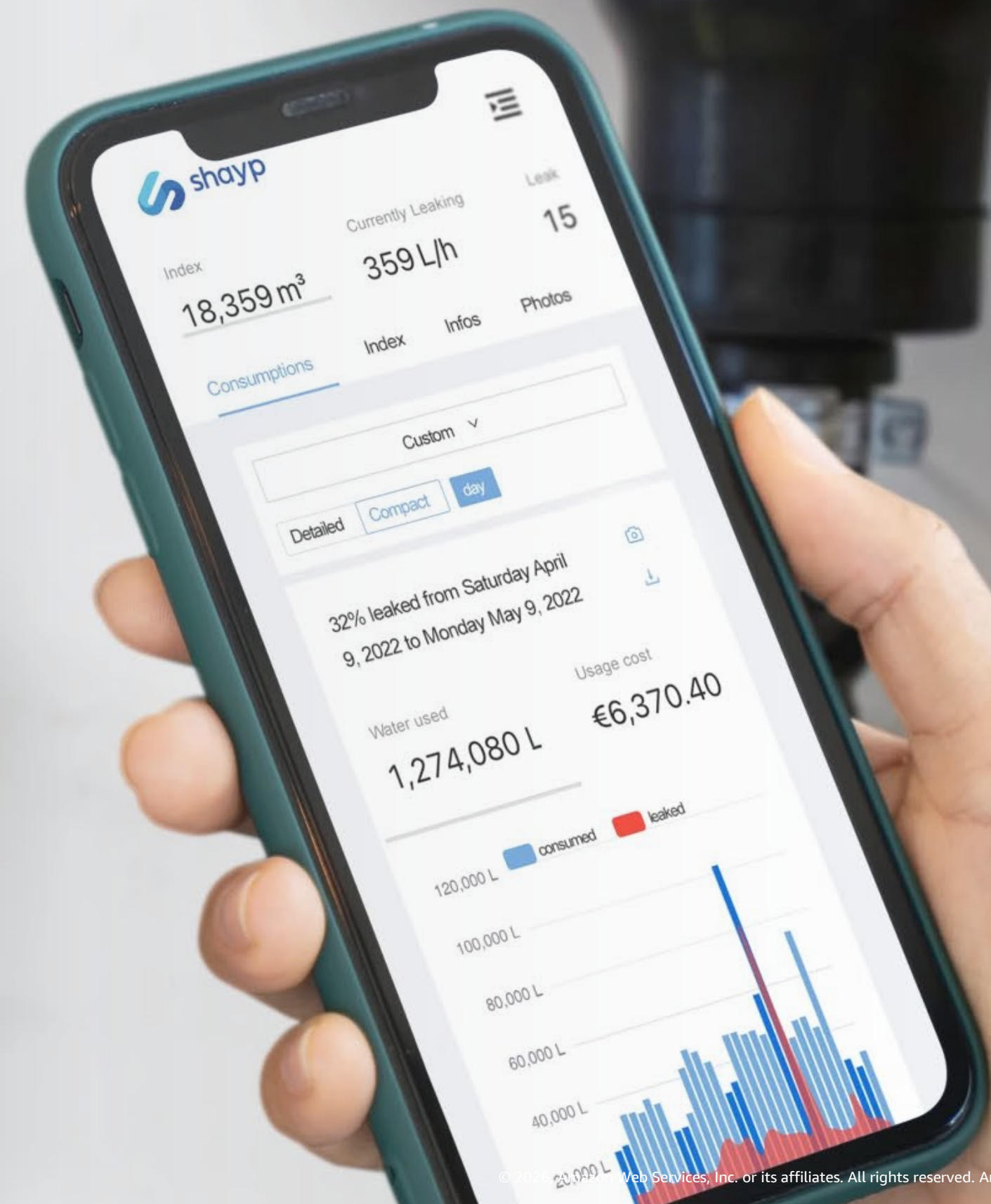
- Amazon announced two water replenishment projects in Germany: an innovative urban leak detection initiative in Frankfurt and a wetland restoration project in the Spessart Forest upstream of the city. Together, the projects are expected to return nearly 370 million litres of water annually to the community once completed.
- Through collaborations with Shayp, a water technology scaleup built on AWS cloud infrastructure, and EcoTree, a European nature project developer, the initiatives combine cutting-edge technology with nature-based solutions to further support water resilience in communities where Amazon operates its data centres.

AWS's Water Positive Commitment

In 2025, AWS withdrew 416,264,483 litres of water in Germany.

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





Supporting Local Communities

AWS data centre employees in the wider Rhine-Main region partner with various local nonprofits and community organizations to create positive impact. With TechHeroes as the local STEM partner on the ground, we are hosting coding workshops to inspire thousands of young minds and introduce them to our AWS Apprenticeship Program with a cohort of 20 starting each year. We supported EnergyCloud's launch in Germany with an initial pilot phase of surplus renewable energy being redirected to provide free heating for 15 households in Frankfurt.

Workforce Development

AWS is investing in workforce training programs to provide accessible cloud learning and upskill the next generation of tech workers in Germany. Initiatives include [an apprenticeship program in Frankfurt in collaboration with Siemens AG](#), the country's first national cloud computing certification in collaboration with the German Chamber of Commerce, [AWS re/Start](#), [AWS Educate](#), [AWS Academy](#), [AWS Skills to Jobs Tech Alliance](#), and [AWS GetIT](#).



Powering Innovation

To date, AWS's significant infrastructure includes the AWS European Sovereign Cloud Region in Brandenburg, the AWS Europe (Frankfurt) Region, 59 Cloud Front Points of Presence, one Local Zone in Hamburg, five AWS Direct Connect locations in Berlin, Frankfurt, Hamburg, Munich, and three Wavelength Zones in Berlin, Dortmund, and Munich, enabling customers to place their workloads in Vodafone's 5G network.

AWS has corporate offices in Berlin, Düsseldorf, Frankfurt, Hamburg, Munich, and Walldorf. These offices are home to experts like sales representatives, marketing teams, and business development professionals. AWS Development Centres are based in Aachen, Berlin, Dresden, and Tübingen, and these contribute to the backbone of AWS Cloud development, including Artificial Intelligence (AI) and Machine Learning services such as Amazon SageMaker and Amazon Bedrock.

According to a [2025 report with AWS and Strand](#):

- AI adoption among German businesses has risen from 36% to 53% (a 47% year-on-year growth rate)
- Over 1.8 million businesses are now using AI in Germany
- Cloud usage has grown to 79% of German businesses (up from 54%)
- AI adopters report an average 34% revenue increase

Investing in Germany

AWS Europe (Frankfurt) Region

- **€18.4 billion total investment** in the AWS Europe (Frankfurt) Region, comprising €9.6 billion invested from 2014 to 2023 and an additional €8.8 billion planned from 2024 to 2026 to meet growing customer demand for cloud services in Germany.
- **€33.8 billion estimated contribution** to Germany's Gross Domestic Product (GDP) for the AWS Europe (Frankfurt) Region, of which €18.4 billion from 2014–2023 and €15.4 billion estimated from 2024–2026.
- **More than 15,200 estimated full-time equivalent jobs** at local German businesses supported annually by the AWS Europe (Frankfurt) Region from 2024–2026,

AWS European Sovereign Cloud Region

- **€7.8 billion planned investment** in the AWS European Sovereign Cloud in Germany through 2040.
- **€17.2 billion estimated contribution** to Germany's total GDP through 2040.
- **2,800 full-time equivalent jobs** on average supported in local German businesses each year. These positions - including construction, facility maintenance, engineering, telecommunications, and other jobs within the broader local economy - are part of the AWS data centre supply chain.