



Sustainability Fact Sheet

Bahrain

AWS’s Commitment to Sustainability

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.

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

Efficiencies of Scale

Our scale allows us to achieve higher resource utilisation and energy efficiency than the typical on-premises data center. A study released by Accenture and AWS estimates running optimised 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 Middle East (Bahrain)	2023	2024	2025
Average PUE	1.32	1.33	1.33

Power Usage Effectiveness (PUE) for data centres operated by AWS between January 1 and December 31 of each year.

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.

The Bahrain Government has benefitted from the AWS's investments in carbon-free energy. Bahrain's cloud-first approach by embracing AWS has helped the country to achieve a carbon emission saving of 81.903 million tons of carbon dioxide equivalent (MTCO₂e) compared to running data centers locally between February 2022 and December 2024.



Community Impact

STEM Education & Digital Skills

- 2 AWS Cloud Innovation Centers (CICs) at University of Bahrain and Bahrain Polytechnic, supported by Tamkeen.
- Initiatives such as AWS training partnerships and university cloud innovation centers have helped more than 2,500 IT professionals upskilled.
- EduNet e-learning platform serves 140,000+ students (Ministry of Education, powered by cloud).

First AWS AI Hackathon in Bahrain: 26 students in 8 teams from University of Bahrain, to work towards Bahrain's national focus on developing digital skills for its citizens. They received 15 days of technical training, design thinking, ideation, culture of innovation training, prototyping, and visual presentations.

AWS Summit Bahrain: 1,600+ executives and technologists at the third annual summit where University of Bahrain announced the first cloud computing degree program in the Middle East, preparing the next generation of cloud professionals.



Community Impact

Supporting Women & Underrepresented Communities

- **AWS & Halcyon Bahrain Women's Intensive:** incubator for early-stage women-founded social enterprise tech startups
- **We Power Tech** panel hosted at AWS Summit Bahrain, promoting diversity in technology

Education & Remote Learning

- **University of Bahrain:** the Kingdom's largest university with over 28,000 students migrated its core applications entirely to AWS
- **American University of Bahrain:** Amazon WorkSpaces for flexible DaaS learning environment

Cloud-Powered Healthcare

- **King Hamad University Hospital (600-bed) & Bahrain Oncology Center:** long-term medical image storage on AWS, solving exponential PACS growth; reduced medical image storage costs by 40% by migrating to AWS

Next-Gen AI Capabilities: In collaboration with the Information & eGovernment Authority (iGA), AWS launched [Amazon Bedrock in Bahrain](#). This allows local developers and public innovation labs to securely deploy localized generative artificial intelligence applications.

Workforce Upskilling: Organizations like [Tamkeen](#) support localized AWS Cloud Innovation Centers (CICs) at the University of Bahrain and Bahrain Polytechnic. These specialized academies have upskilled thousands of young citizens to ensure 70% of tech sector employees remain local talent.



Driving Digital Transformation

Bahrain's Cloud-First approach: [Bahrain's partnership with AWS](#) has been central to its cloud-first digital transformation strategy. By adopting cloud computing early, Bahrain moved over 85% of government workloads to the cloud, significantly reducing IT and operational costs (up to 80%) while speeding up project deployment from months to days. This shift also cut reliance on physical infrastructure and led to major environmental benefits, including substantial reductions in carbon emissions. The launch of the AWS Bahrain Region in 2019 was a turning point, allowing data to be stored and processed locally with high security and scalability. This strengthened government services, improved disaster recovery, and enabled faster rollout of new digital applications. It also made Bahrain more attractive to foreign investors, startups, and enterprises seeking a reliable digital environment. Overall, the partnership has enhanced efficiency, innovation, and transparency-evidenced by initiatives like the national open data portal-while positioning Bahrain as a leading example of successful cloud-driven modernization.

Key highlights from the [IDC AWS Cloud Economic Impact Study for Bahrain](#):

- AWS cloud spending projected to contribute over \$1.2 billion to Bahrain's GDP by 2026 (~2.3% of total GDP)
- Every \$1 invested in cloud generates a USD 6.7 return
- Cloud adoption driving 9,300+ jobs by 2026
- Rapid acceleration of cloud services driven by AWS infrastructure provides a massive multiplier effect for the national digital economy