



AWS is building a sustainable business in Malaysia, 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 utilisation 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 Asia Pacific (Average)	2023	2024	2025
Average PUE	1.28	1.27	1.25
Average WUE (L/kWh)	--	0.98	1.10

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.

Water Stewardship

OVERVIEW

ENVIRONMENT

COMMUNITY

ECONOMIC IMPACT

Water Positive

In 2025, AWS withdrew 47,989,045 litres of water in Malaysia.

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 were 75% of the way towards this goal globally. To learn more, see the [Amazon Water spotlight page](#).

Water Replenishment

AWS contracted the **largest capacity reclaimed water supply project in Malaysia** for its Kuala Lumpur sites. This initiative collectively brought together multiple government departments, creating a unique public-private collaboration model. Aligned with the PETRA Ministry's Water Transformation Roadmap 2040, the project enables water agencies to scale the approach nationwide, serving as foundational input for Malaysia's sustainable data center guidelines and future regulations.

AWS was the first data center operator to propose the reclaimed water concept to the Malaysian government and initiated the implementation of a public-private reclaimed water supply framework.



Inspiring Careers in Tech

- **AWS Community Day Malaysia** is an annual, community-led conference where event logistics and content is planned, sourced, and delivered by community leaders. We feature technical discussions, workshops, networking and much more led by expert AWS users and industry leaders from around the world. The Community Day event delivers a peer-to-peer learning experience, providing developers with a venue for them to acquire AWS knowledge in their preferred way: from one another. In many ways the event is put on "by the community, for the community."
- **AWS x JPPKK AI Workforce Partnership:** In 2024, AWS collaborated with Malaysia's Ministry of Higher Education (JPPKK) to address the national AI skills gap—where 81% of employers struggle to find AI talent—by providing 140,000 students across 36 polytechnics and 105 community colleges access to 200+ curated AWS cloud and AI courses. Initiatives include JPPKK becoming an AWS Authorized Training Partner, launching a bespoke Responsible AI course (1,000+ sign-ups since Sept 2024), and the inaugural AWS POLYCC LLM League 2024—a first-of-its-kind generative AI competition with 1,500 participants gaining hands-on skills in model fine-tuning, prompt engineering, and culturally-relevant AI solutions.

Investing in Malaysia

- **MYR 29.2 billion (US\$6.2 billion) investment in Malaysia** through 2038 via the new AWS Asia Pacific (Malaysia) Region—the largest investment by an international cloud provider in the country to date
- **\$12.1 billion (MYR 57.3 billion) estimated GDP contribution** to Malaysia's economy from the construction and operation of the new AWS Region through 2038
- **3,500+ full-time equivalent jobs supported annually** at external businesses through 2038, with additional employment opportunities created across the data center supply chain
- **32,000+ sq. ft. corporate office in Kuala Lumpur** (opened July 2023), employing developers, engineers, sales, marketing, and business development professionals supporting local customers and partners
- **Longstanding investment history since 2016**, with continuous infrastructure expansion: first AWS Edge and Direct Connect points of presence (2017), AWS Outposts (2020), and four CloudFront locations currently operational
- **Madani Economy Framework & MyDIGITAL alignment:** AWS investment directly supports the Malaysian government's strategic vision to improve living standards by 2030 and position Malaysia as an ASEAN digital innovation leader
- **100,000+ individuals trained in cloud skills in Malaysia since 2017**, with ongoing investments in workforce development through AWS Academy, AWS re/Start, and Program AKAR (with PayNet) targeting the financial services digital skills gap