

Digitalization and Sustainability in the Cloud

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Regional Head of Energy and Environmental Policy, APAC Amazon Web Services (AWS)



THE Paris...
CLIMATE 10 years
PLEDGE Early

Commitment to a sustainable future

On September 19, 2019, Amazon and Global Optimism co-founded
The Climate Pledge, a commitment to meet the Paris Agreement 10 years early

Net-zero carbon by 2040

Path to 100% renewable energy by 2025

Investing billions to accelerate low carbon innovation

\$2B Climate Pledge Fund | \$100M Right Now Climate Fund | AWS Clean Energy Accelerator, etc.



Amazon is the largest corporate buyer of renewable energy globally

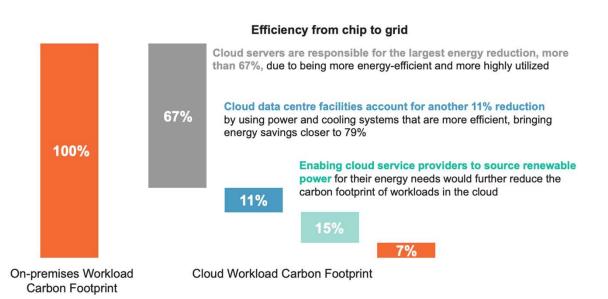
With over 400 projects around the world (including Australia, China, India, Indonesia, Japan, New Zealand and Singapore in APAC), we are on a path to power our global operations with 100% renewable energy by 2025

Over 20 GW total renewable capacity, and 57 TWh renewable energy (annually) enabled thus far

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Asia-Pacific carbon reduction opportunity

AWS is 5x more energy efficient than average on-premises data centers across the Asia-Pacific region



Carbon reduction potential of Cloud Infrastructure compared with surveyed APAC Enterprises and Public Sector Organizations

Source: 451 Research/S&P Global Market Intelligence after The Carbon Reduction Opportunity of Moving to the Cloud for APAC, 2021





As an early-stage startup, we had to be very conscientious about where to spend our resources and how to efficiently scale. The AWS Activate program provided technical support and credits that have been instrumental in helping ENRES develop our proof-of-concept platform in the cloud. We believe that IoT, AI, and other innovative technologies can drive better energy optimization for companies and reduce their energy spend while benefitting the planet.

Paisit Jarunnamsiri
Chief Technology Officer,
ENRES

aws

ENRES is a startup using IoT and artificial intelligence (AI) to optimize energy usage for buildings and factories across Asia, helping customers move from traditional solutions using SCADA, CPMS, EMS, etc. towards AI-enabled real-time analytics supporting production performance, facility safety, and energy management.





AWS Water Positive Commitment

By 2030, AWS will return more water to communities than we use in our direct operations

Source: Use recycled water for cooling wherever possible

Use: Maximize water efficiency onsite through innovative technologies and approaches

Discharge: Send cooling water discharge for beneficial reuse (e.g. in irrigation / industrial use) wherever possible

Replenish: Support projects that improve community water availability through increased access and conservation

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With AWS, we've been able to build a data lake to manage all types of data ingestion points and provision new cloud resources dynamically as our sensor footprint increased. And with AWS Credits and cost optimization services, we've reduced our costs by 20-25 % while our business grew exponentially. We're pleased to work with AWS as they focus on even more ways to build sustainable and responsible business models that reduce the environmental impact on our natural resources."

Abilash Haridass
Co-Founder and Chief of Growth &
Strategy, WEGoT Utility Solutions
aws

India's first IoT based water management platform, mobile app and smart water meters

Saved 3 billion litres of water to date for India

Provides the ability to monitor water usage at a granular level, detect leaks remotely, and generate usage analytics and detailed reports to determine the optimum water consumption patterns in residential apartments and commercial buildings in India

WeGOT now processes over 12 million data ingestion points across more than 50,000 managed sensors on AWS

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