



3 Ways AWS Cloud Optimizes IT and Sustainability for the Public Sector

In today's rapidly changing world, the public sector must consider the human, economic, and environmental resources required to maintain aging data centers. Fed and SLED organizations that migrate to the AWS cloud reduce their carbon footprint and spend less time managing old data centers. That gives IT teams more time and budget for more strategic operations. Plus, it's good for environmental policy and sustainability initiatives.

The AWS cloud helps organizations optimize IT and sustainability through:

1

BETTER DATA CENTER EFFICIENCY

With the AWS cloud, your data center will be:

3.6x
more energy efficient than the median of U.S. enterprise data centers¹

Up to **5x**
more energy efficient than the average data center in Europe¹



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of the efficiency gains from AWS cloud come from more energy efficient servers and much higher server utilization than most data centers can achieve.¹

2

REDUCED WORKLOAD CARBON FOOTPRINTS

AWS cloud offers **80%** lower carbon footprints for customer workloads.²

Carbon benefits are expected to grow, and AWS should be able to improve efficiency faster than organizations using on-premises infrastructure. And when you factor in:

carbon intensity of consumed electricity and renewable energy purchases (which reduce associated carbon emissions)

...then AWS has an **88% lower carbon footprint** than an on-premises data center.³

Even compared with the **top 10% most efficient organizations, moving to AWS cloud delivers, on average, a 72% reduction in carbon footprint!**

3

CLEANER ENERGY USE

Because AWS data centers offer environmental economies of scale, organizations that leverage the AWS cloud instead of operating their own data centers use:

AWS is also leading in water stewardship, reducing the amount of water used to cool its data centers and committing to being water positive by 2030—returning more water to communities and the environment than it uses in its operations.⁴



DID YOU KNOW THAT AWS...



created **The Climate Pledge Fund**, a \$2 billion investment to support the development of technologies and services that reduce carbon emissions, with more than 200 organizations signing on, representing 26 industries and 21 countries.²

2 BILLION INVESTMENT

¹ <https://sustainability.aboutamazon.com/carbon-reduction-aws.pdf>
² <https://aws.amazon.com/compliance/data-center/environmental-layer/>

³ <https://sustainability.aboutamazon.com/environment/the-cloud>
⁴ <https://sustainability.aboutamazon.com/environment/the-cloud/water-stewardship>

To discuss moving your workloads to the cloud—reducing data center needs and addressing environmental policy and sustainability initiatives, contact us today.

