

# AWS Solutions for the Energy Industry

## Reinvent Your Energy Business

The energy sector is under pressure from many sides. Global energy consumption is on the rise. ESG standards are becoming stricter, and consumers are growing increasingly aware of how their actions impact the environment. The best way forward for energy companies is to evolve, which means adopting modern technologies and launching flexible business models on the cloud.

Fortunately, AWS offers a suite of cloud-native solutions that energy companies can use to transform their businesses for the future. And with ClearScale's help, taking full advantage of everything the AWS cloud offers is both easy and exciting.

## Here are three reasons to choose AWS and ClearScale



### Improve Efficiency

Migrate legacy infrastructure and applications to the cloud to boost IT performance while reducing costs. Replace legacy technology with automated workflows and next-gen capabilities that can scale with your energy services ambitions.



### Enhance Business Agility

Incorporate big data from countless sources to improve decision-making, address carbon emissions, and integrate renewables-focused practices into your business.



### Increase Intelligence

Harness the power of AI/ML, IoT, and big data to transform your organization. Conduct advanced analytics and make better decisions in today's fast-moving energy sector.

#### Customer Highlight: Axiom Cloud

**CHALLENGES:** Axiom Cloud, which provides IoT for refrigeration systems, needed a more efficient way to manage IoT-based services and data across many customer sites. The company was still relying on a homegrown, on-premises solution that didn't scale well.

**SOLUTION:** ClearScale built a robust cloud ecosystem that included automated container orchestration via Amazon EKS, a new data pipeline, and serverless infrastructure.

**BENEFITS:** Axiom Cloud is now well-positioned for growth and has the cloud architecture it needs to innovate, deliver better services, and get more value from IoT data. The company no longer relies on on-premises infrastructure and is more confident in its ability to deliver exceptional services.

#### Customer Highlight: SunRun

**CHALLENGES:** SunRun, the largest residential solar company in the United States, needed expert cloud support to accomplish three goals: address existing IT infrastructure gaps, execute a migration to Docker and Amazon EC2, and bolster data security.

**SOLUTION:** ClearScale worked with SunRun to design an Elastic Beanstalk-based deployment infrastructure that simplified the process of standing up custom and redundant environments. ClearScale also implemented Vault and Confidant to improve security for data, APIs, private keys, and encryption information.

**BENEFITS:** SunRun gained a production-ready solution that can scale and evolve with the business over time. SunRun's IT infrastructure is much more efficient, enabling the company to respond quickly to market changes with compelling offerings.

#### Customer Highlight: Romet

**CHALLENGES:** Romet, which provides measurement services for natural gas utilities, wanted to upgrade its data management infrastructure to leverage IoT technology, which meant centralizing device management, device configuration, data storage, and analysis.

**SOLUTION:** ClearScale delivered an IoT device management MVP, a data pipeline MVP, and a data portal MVP using a combination of purpose-built AWS IoT solutions. Together, these features gave Romet a smart data-gathering system that would create immense value for years to come.

**BENEFITS:** Romet's IoT platform is scalable, secure, and efficient. The company can also configure new IoT devices remotely and automatically, which means faster growth overall.

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## About ClearScale

Founded in 2011, ClearScale provides cloud-native consulting solutions designed exclusively for AWS. We've earned 11 AWS competencies and have demonstrated technical expertise for all types of businesses, including energy companies, on the AWS cloud.