Energy   North America

GLOBAL ENERGY COMPANY

Centralized Kubernetes Management Powers Efficiency for
Leading Energy Company

Business overview

This prominent U.S.-based energy company operates across multiple high-yield basins in North America, driven by a strong focus on innovation and operational efficiency. With approximately 15,000 employees and over 100 developers, the company has built a reputation for leveraging advanced technologies to improve extraction methods, increase production, and reduce costs.

Challenges

With more than 100 developers and a sprawling containerized environment spanning Docker Swarm and Kubernetes, this energy company faced increasing complexity in managing it's infrastructure. Their internally built Kubernetes management platform - designed to improve usability and control - was expensive to maintain, requiring five developers and two years of effort. Despite this investment, it still lacked the flexibility, scalability, and operational efficiency needed across teams. They needed a centralized, easy-to-use platform that could unify their environments, enforce security policies, and reduce operational overhead without sacrificing performance or control.

- Centralized management across multiple Kubernetes and Docker environments

- A user-friendly interface to support developer self-service

- Strong governance and access control capabilities

- Reduced operational burden and ongoing maintenance cost

- A scalable, production-grade solution ready for future growth

"Most devs are not comfortable on the CLI, and it's much more difficult when you scale up to 50 nodes - 5 or 10 is fine - but the command line isn't that great when it comes to managing 50 or more nodes."

RESULTS THAT MATTER

The real-world impact of smarter container management.

Increase in Developer Productivity	Developer Savings	Uptime Target
	RESULTS THAT MATTER	
15%	**$1.7M**	**99.99%**

The solution

Portainer delivered exactly what the energy company needed: a centralized, intuitive platform for managing both Kubernetes and Docker Swarm environments at scale.

By replacing their internally built solution with Portainer's off-the-shelf platform and managed services, the company was able to reduce complexity, enforce consistent security policies, and empower their developers with self-service capabilities - without relying on CLI expertise. Portainer's easy-to-use UI enabled faster onboarding, clearer governance, and streamlined operations across multiple teams and clusters. With the addition of Portainer's Managed Service, the company also eliminated the need to dedicate internal resources to platform maintenance, freeing up developers to focus on innovation rather than infrastructure.

Key benefits delivered:

- Replaced a costly in-house solution with a scalable, enterprise-grade platform

- Strengthened security and access control across multi-cluster environments

- Unified management of both Kubernetes and Docker Swarm through a single interface

- Enabled developer self-service without requiring deep Kubernetes expertise

- Reduced operational overhead through Portainer's expert-managed service

"Now we have the Sox Compliance to adhere to so we need to control what the developer is able to modify, and the other guys to be able to troubleshoot. So that really solved the big issue that we've had for such a long time."

PORTAINER.iO

Whether you're managing at scale or building at the edge, we're here to make it simple.

Get started now