



# Unlocking Innovation in Energy Exploration and Research

USE CASE

## Overview

One of the world's leading energy companies is advancing exploration, seismic processing, and renewable research with a new generation of HPC and AI workloads. Their scientists and engineers depend on a data platform that can deliver real-time insights, scale seamlessly, and remain resilient as demands evolve.

## Challenges

The company's previous environment created barriers to progress. Legacy infrastructure lacked the flexibility to handle mixed workloads, consumed excessive resources to maintain, and could not scale efficiently to meet the unpredictable demands of next-generation AI. The organization needed a modern data platform that could accelerate time-to-insight, lower operational overhead, and provide confidence in long-term durability.

## Solution

The company selected the VDURA Data Platform V5000 to serve as the foundation of its new HPC/AI cluster. With VDURA, they achieved:

- A single, unified platform for AI, seismic processing, and analytics.
- Seamless scalability that keeps pace with evolving workloads.
- The industry's strongest balance of performance, economics, and reliability.
- A support model designed to simplify operations and free teams to focus on innovation.

## Results & Benefits

- **Faster discovery:** Researchers accelerate seismic analytics and renewable studies, driving new breakthroughs in energy exploration.
- **Operational simplicity:** Unified architecture reduces management overhead, enabling teams to focus on science, not infrastructure.
- **Proven economics:** Delivered better value than incumbent solutions, aligning long-term infrastructure with budget realities.
- **Future-ready growth:** A platform that expands seamlessly as the scope and scale of energy research evolves.

## About VDURA

VDURA offers a powerful, cost-efficient, and secure data platform for AI and HPC, supporting organizations in deploying resilient infrastructure at any scale. VDURA empowers the most demanding organizations in energy, science, and industry to unlock the full potential of their data.