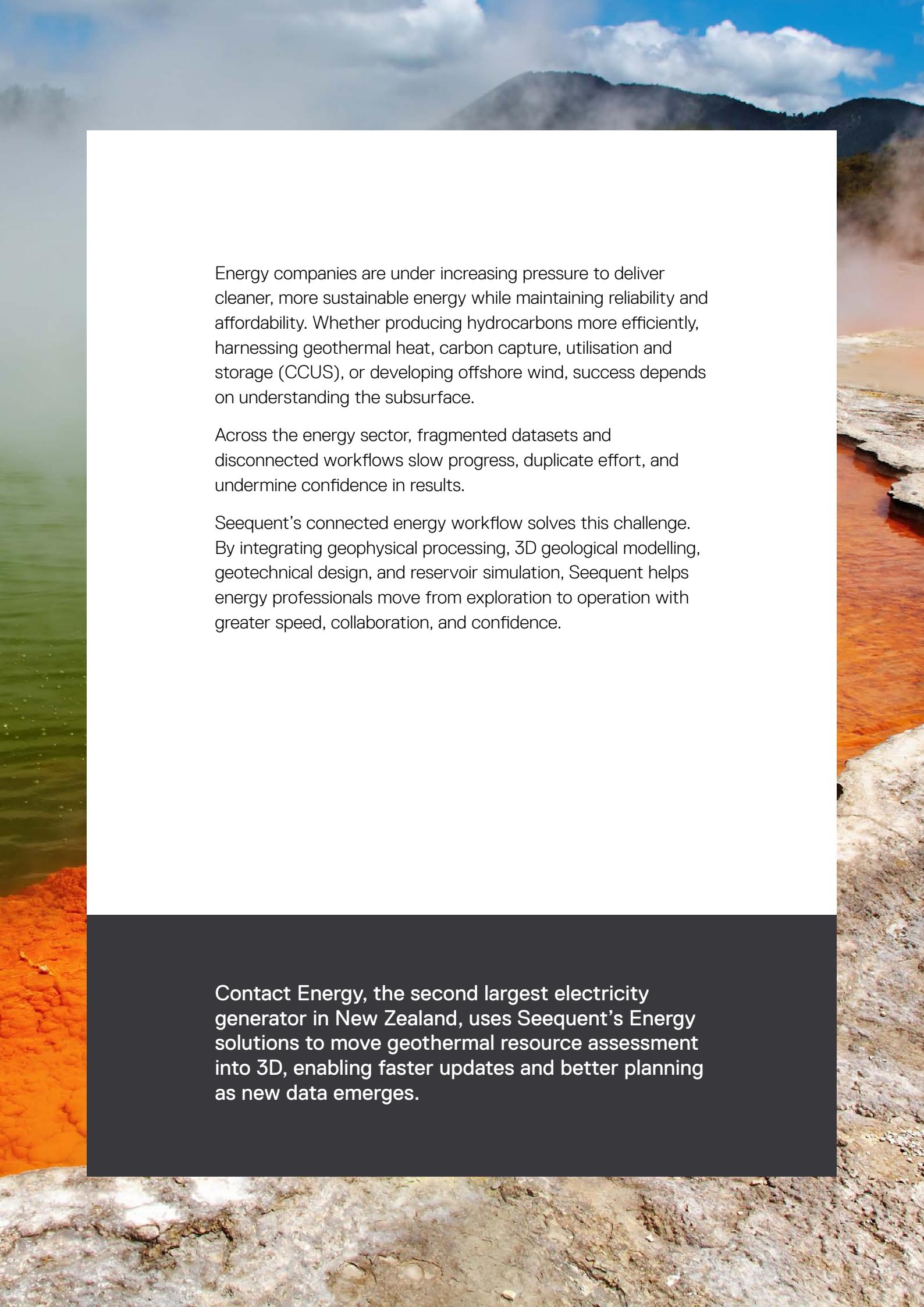




SOLUTION BRIEF

FROM EXPLORATION TO ENERGY OPERATION WITH GREATER SPEED, COLLABORATION, AND CONFIDENCE



Energy companies are under increasing pressure to deliver cleaner, more sustainable energy while maintaining reliability and affordability. Whether producing hydrocarbons more efficiently, harnessing geothermal heat, carbon capture, utilisation and storage (CCUS), or developing offshore wind, success depends on understanding the subsurface.

Across the energy sector, fragmented datasets and disconnected workflows slow progress, duplicate effort, and undermine confidence in results.

Sequent's connected energy workflow solves this challenge. By integrating geophysical processing, 3D geological modelling, geotechnical design, and reservoir simulation, Sequent helps energy professionals move from exploration to operation with greater speed, collaboration, and confidence.

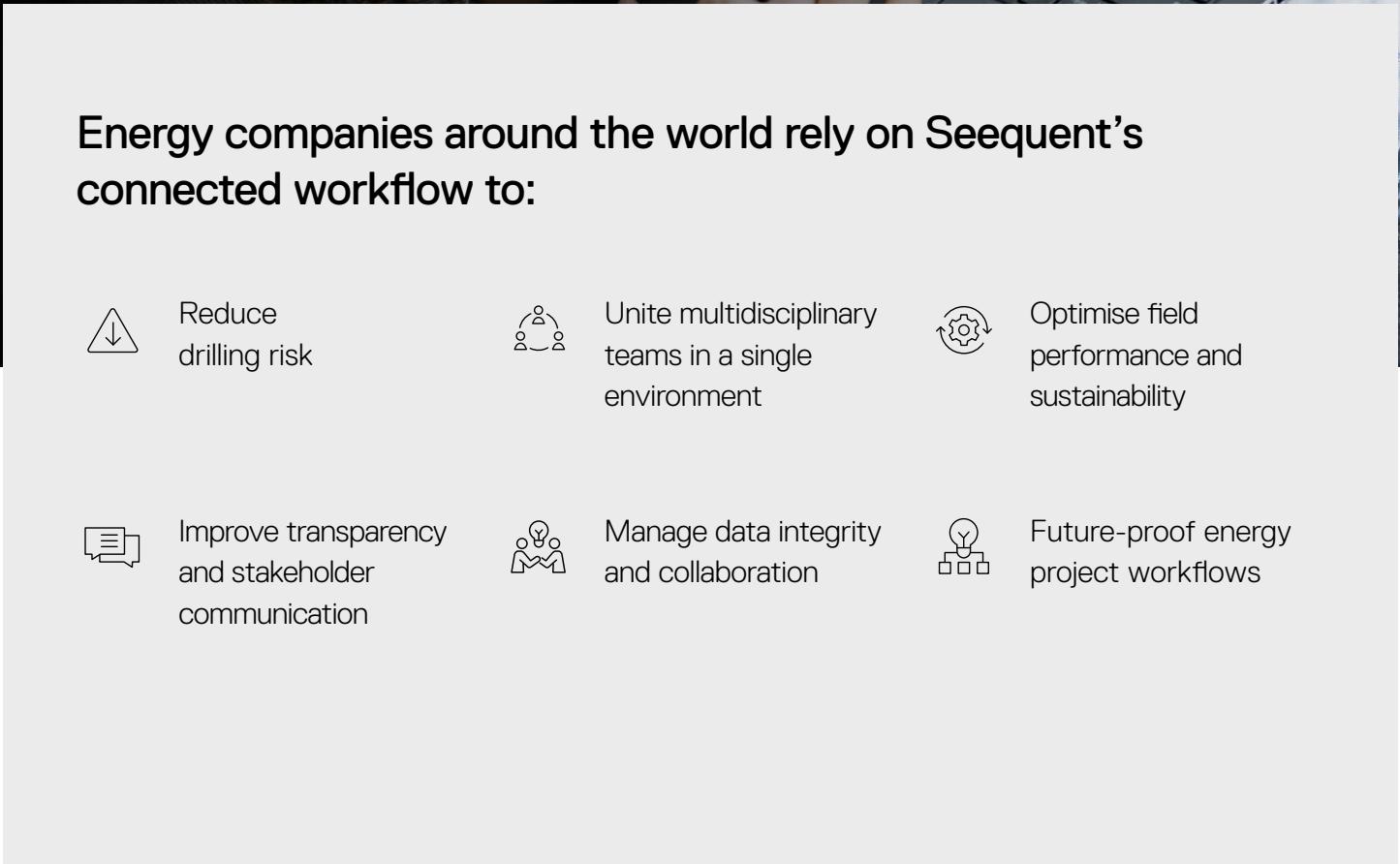
Contact Energy, the second largest electricity generator in New Zealand, uses Sequent's Energy solutions to move geothermal resource assessment into 3D, enabling faster updates and better planning as new data emerges.

“

Sequent technology supports all our subsurface activity, from monitoring to drilling, and brings multiple datasets together into one clear picture.”

Mike Dunstall

General Manager of Geothermal Resources
Contact Energy



Energy companies around the world rely on Sequent's connected workflow to:



Reduce drilling risk



Unite multidisciplinary teams in a single environment



Optimise field performance and sustainability



Improve transparency and stakeholder communication



Manage data integrity and collaboration



Future-proof energy project workflows



Successful energy projects are powered by Sequent

From early exploration to long-term operation, success depends on understanding the resource. Sequent's connected approach unites data, disciplines, and decisions, helping energy teams reduce risk, improve efficiency, and deliver cleaner, more sustainable outcomes.



Reduce drilling risk

Drilling costs millions, and misplaced wells can quickly erode project economics. Sequent helps operators integrate geological, geophysical, and simulation data to create a dynamic, data-driven picture of the subsurface. By identifying optimal targets, anticipating challenges, and refining models as drilling progresses, teams can reduce costly rework, minimise surprises, and make confident decisions.



Unite multidisciplinary teams in a single environment

Energy projects rely on diverse expertise, from geoscientists and reservoir engineers to geotechnical specialists. Sequent connects these disciplines in one collaborative environment that links tools across the full energy lifecycle from early exploration through construction, operation, and optimisation. Shared models and standardised data eliminate silos and keep every team aligned.



Optimise field performance and sustainability

Understanding how the subsurface behaves over time is critical for reliable, long-term energy production. Sequent's simulation and analysis tools enable teams to model fluid flow, pressure, and temperature to improve well performance, manage reinjection, and extend asset life. These insights support more sustainable resource use and operational efficiency across geothermal and CCUS.



Improve transparency and stakeholder communication

Complex subsurface data can be difficult to convey beyond technical teams. Sequent's intuitive 3D models and visualisations translate that complexity into clear, defensible insights that support stakeholder engagement and regulatory confidence. Whether presenting to investors, local communities, or government agencies, teams can demonstrate project progress and subsurface understanding with clarity.



Manage data integrity and collaboration

With so many moving parts, data control in energy projects is essential. Sequent Central provides a single, secure source of truth for models, files, and interpretations, complete with version control, role-based permissions, and audit trails. Teams can review changes, share updates in real time, and ensure regulatory compliance without losing track of what's current or who changed what.

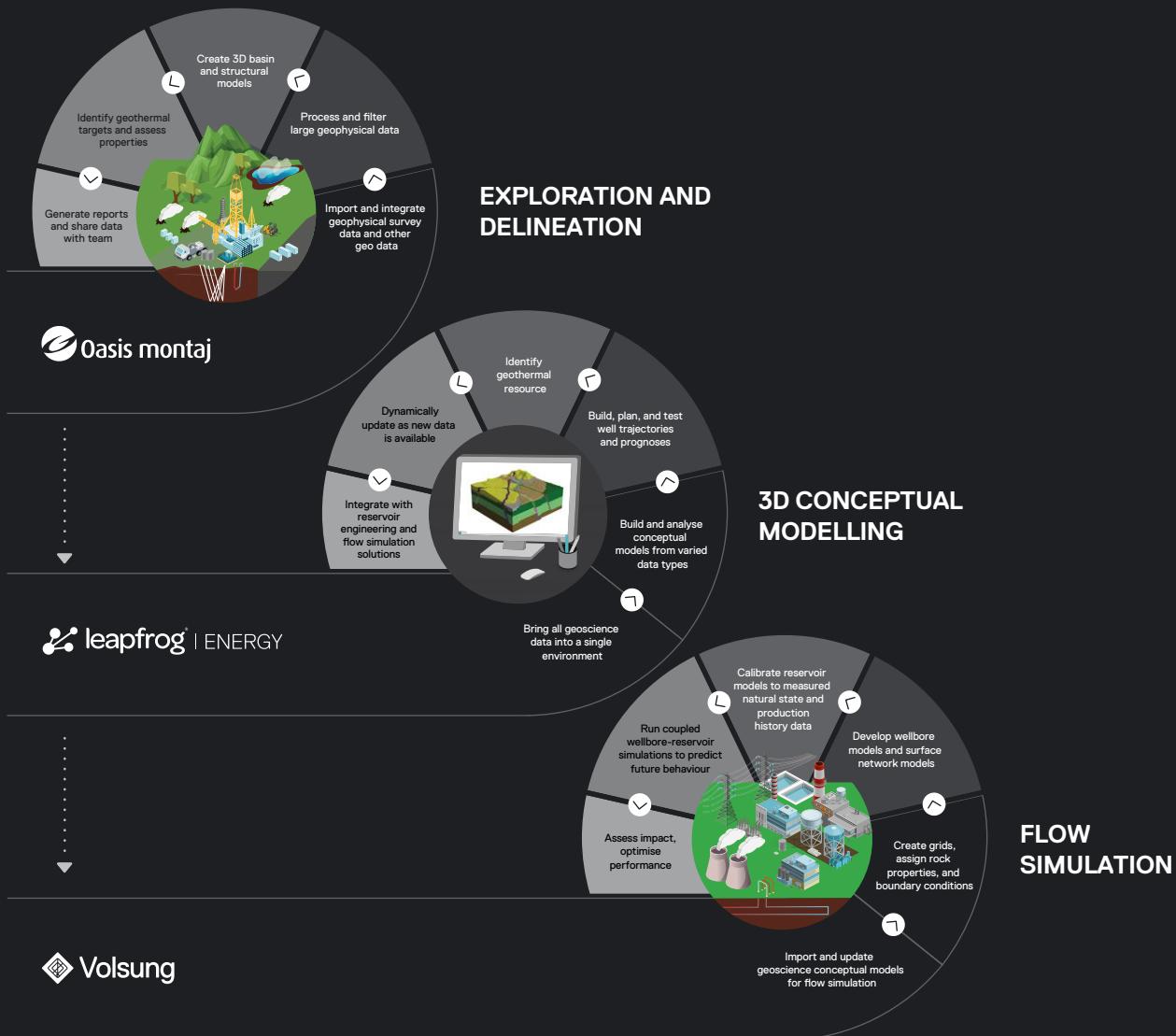


Future-proof energy project workflows

The energy landscape is evolving fast, and Sequent evolves with it. Built on an open, cloud-enabled foundation, Sequent's solutions connect seamlessly across tools to streamline workflows today and adapt to the technologies and challenges of tomorrow.

Sequent's connected energy workflow

Sequent's connected energy workflow brings together geophysical processing, geological modelling, reservoir simulation, and geotechnical design in one collaborative ecosystem. It supports the full energy landscape, from geothermal and CCUS to oil and gas and offshore wind, helping teams accelerate exploration, reduce drilling risk, and deliver cleaner energy faster.



Geothermal: A proven example of connected workflows in action

Geothermal projects showcase the complete Sequent workflow in practice. From processing geophysical data in Oasis montaj and modelling structures in Leapfrog Energy to simulating reservoirs in Volsung and managing collaboration through Central, Sequent enables continuous insight from exploration to operation.

Oasis montaj

Oasis montaj provides a powerful environment for processing, filtering, and visualising large geophysical and remote sensing datasets, including gravity, magnetic, electromagnetic (EM), hyperspectral, and Induced Polarisation (IP) resistivity surveys, to reveal viable reservoirs, storage sites, and subsurface structures that guide exploration and drilling decisions.

Leapfrog Energy

Leapfrog Energy is the core of Sequent's connected workflow, enabling geoscientists and engineers to rapidly integrate geological, geophysical, and well data into dynamic 3D models. Purpose-built for geothermal, CCUS, and offshore energy projects, it helps geoscientists visualise complex subsurface conditions, plan wells with precision, and continuously refine models as new data arrives.

Volsung

Volsung simulates coupled reservoir-wellbore systems to optimise geothermal field development and performance. Seamlessly consuming outputs from Leapfrog Energy, it models pressure, temperature, and flow behaviour, runs history matches and Monte Carlo forecasts, and links reservoir outputs to surface facilities, all within a unified ecosystem.

PLAXIS

PLAXIS delivers advanced finite element analysis for soil and rock deformation, stability, and soil–structure interaction. Used across the design and construction of energy infrastructure, including offshore wind foundations, power plants, and CCUS facilities, it helps engineers analyse ground response to seismic, dynamic, and thermal loads to ensure safe, stable designs.

Imago

Imago captures, catalogues, and connects high-quality core and downhole imagery to Leapfrog Energy models, providing geoscientists with the visual context needed to validate interpretations, identify key features, and enhance confidence in subsurface understanding across geothermal and other energy projects.

Sequent Central

Sequent Central is the collaborative backbone of the energy workflow. It connects teams across exploration, modelling, and simulation by hosting live Leapfrog Energy models in the cloud, managing versions, controlling access, and maintaining a complete audit trail, keeping every stakeholder aligned and informed.

A world of support at your fingertips

Beyond the powerful features of a connected energy workflow, Sequent offers comprehensive support and learning resources to help you get the most out of your investment.

Learning Centre

Maximise the value of Sequent's solutions with a range of flexible learning opportunities through the Sequent Learning Centre. Whether you prefer online learning paths, on-demand videos, or instructor-led courses, there are resources tailored to your needs.

[Explore learning opportunities →](#)

4.9/5

rating for Sequent e-learning from 16,000+ reviews

Community

Connect with a global network of geoscientists and professionals through the Sequent Community. Whether you're looking for peer support, insights from industry experts, or practical tips to get the most from Sequent's solutions, the Community offers a space for shared learning and collaboration.

[Join the Community →](#)

7,400+

customers in 145+ countries

Support

Get the most from your Sequent solutions, anytime, anywhere. Access our knowledge base, connect with technical experts, or explore specific support options for all Sequent products, keeping your projects running smoothly and efficiently.

[Get support →](#)

95%

satisfaction with our front-line help and support



Discover the power of Sequent's connected workflow

Visit www.seequent.com to explore product videos, customer success stories, or request a live demo.



Understand the underground to build a better world.

Sequent is evolving the way organisations work through better subsurface understanding.

As the world leader in subsurface earth-modelling, analysis and data management, and collaboration software, Sequent is at the forefront of building a collective understanding of the Earth.

We hire amazing people who collaborate with our customers to find technology solutions to their challenges that deliver more positive outcomes for a better world.

As The Bentley Subsurface Company, Sequent connects our natural environment with the built world so organisations can manage the impact of their projects at every stage.

Sequent: Understand the underground.

sequent.com