

Geoscience Enterprise



S&P Global
Energy

Upstream CSM+ | Seize success with streamlined solution offerings — flourish in an ever-changing world

Thrive in today's dynamic world with S&P Global Energy Upstream Solutions. We've harnessed our market-leading wealth of content, insights, and cutting-edge software and analytics solutions and combined them into streamlined enterprise-wide packages.

By integrating our solutions, you gain the actionable insights crucial for navigating global market changes. Anticipate risks, evaluate opportunities, and optimize investments with confidence.

Our approach is designed to be simple and transparent. We offer clear and easy-to-understand service packages, enterprise-wide contracts, and delivery platform-agnostic pricing. Our value-based pricing models ensure that you get the most out of our services, enabling your organization to drive efficiency, and collaboration across technical and commercial workflows while making swift decisions and mitigating risks.

As your trusted partner, our solutions delivery team will continuously collaborate with you to grasp your strategic goals, challenges, and workflows. This collaboration enables us to identify areas where we can provide added value, ensuring your organization is equipped to thrive in an ever-changing world.



Overview

Geographic coverage — Global

Licensing — Enterprise-wide access

History — Annual with a hotfix and service pack releases

Content package options — Software



Software

Access geoscience software solutions equipped with the latest innovative technologies, and data science and machine learning (ML) capabilities to enhance your daily E&P workflows.

You get:

- Geoscience software — assess the potential of regional geologic trends or discover where your assets are underperforming.
- Analytics software — utilize data science and ML for deeper analyses and interpretation of subsurface data to enhance your geoscience workflows.

Data, software, and distribution

Get the edge in today's global markets with our Essential Intelligence® delivered through the providers and platforms which suit you.



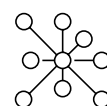
Desktop (software), & mobile



Cloud



Data feed



API solutions

Markets covered:



Global Oil &
Gas Industry



Exploration &
Production
Sector



Oilfield Service
Providers
(OFS)



Global
Energy Transition

	Software	What's Included
Kingdom™ Geoscience Software	Kingdom Geophysics	Seismic Interpretation
		Attribute Analysis
		Synthetic Modeling
		Microseismic
		Dynamic Depth Conversion/ Velocity Modeling
	Kingdom Geology	Cross Sections
		Mapping
		Petrophysics
		Well Planning
		Geosteering
		Volumetrics
		Dynamic Depth Conversion and Dynamic Map Update
		Data management
	Kingdom Data Management	Suite of tools to manage multiple Kingdom projects
	Kingdom Gateway (plug-in for the Petrel Platform)	Direct data connection between Kingdom and Petrel
	GeoSyn 1D	Synthetics tool
	GeoSyn 2D	Cross section model seismic response tool
Analytics Explorer	AVO Analysis	Visualization and interpretation of pre-stack data
	VuPAK	3D visualization and interpretation tools
	Rock Solid Attributes	50+ advanced 2D and 3D post- stack seismic attributes
		Prebuilt templates: <ul style="list-style-type: none"> • Data Mining and Quality Control • Deviation Survey Analysis • Log Analysis Template • Log Coverage • Production Analysis • Seismic Analysis • Well Path Analysis • Percentage Zone
Petra® Geology Software	Petra (for North America only)	Geology

Key geoscience workflows

- **Prospecting:** Efficiently tie well and seismic information for a truly integrated and accurate interpretation.
- **Acreage capture and evaluation:** Plan wells efficiently for a better return on investment.
- **Geophysical Interpretation:** Understand subsurface complexities with tools for advanced interpretations of seismic data.
- **Geological interpretation:** Generate integrated maps quickly for better collaboration.
- **Structural mapping:** Dynamically update your maps with the most recent well information and make better decisions.
- **Reservoir characterization:** Accurately characterize the reservoir and generate maps you can trust.
- **Geosteering:** Make decisions in real-time for a higher probability of hitting the “sweet spot.”
- **Completions optimization:** Design and develop wells more accurately and efficiently.
- **AI for enhanced geologic workflows:** Apply AI to geoscience workflows to more accurately predict the subsurface and strategically optimize well plans.
- **Offshore Wind Farms:** Perform shallow hazard and seafloor anomaly analysis with ease for ideal offshore wind farm and turbine placement.
- **Carbon Capture, Utilization, and Storage (CCUS):** Identify reservoirs with storage capacity, seal, and minimal leak potential.
- **Geothermal:** Identify prospects and do site evaluation for geothermal potential.

Key software highlights

- Companies in more than 80 countries use Kingdom.
- 4,000+ North American companies use Kingdom.
- 1,500+ International Oil Companies use Kingdom.
- Kingdom supports 85% of daily geoscience workflows.
- 100+ people can collaborate instantaneously on a single project with a single data source.
- Seamlessly connects to S&P Global Energy data and upstream products/solutions.

- 1 million+ well projects supported with no decrease in software performance.
- Hundreds of seismic volumes and lines load in hours not weeks.
- Data science and AI platform, Analytics Explorer developed with renowned Commodity Insights extensive data library plus a network of data scientists and partners for robust and sound machine learning algorithms rigorously tested and fine-tuned to address E&P challenges.
- Well property estimations and log imputation ML algorithms in Analytics Explorer calibrated using 10 million wells and 350 thousand digital logs from multiple basins.

Key Software:

- **Kingdom Geophysics:** the most widely trusted geophysical interpretation solution in the world, from basic 2D/3D interpretation and prospect generation to advanced interpretation and seismic petrophysics. This geophysics toolkit provides visualization and interpretation capabilities for 2D and 3D seismic data, pre-stack gathers conditioning, microseismic data analysis, and modeling the effects of different porosity, lithology, or fluids on 1D, 2D, and pre-stack seismic models.
- **Kingdom Geology:** leading geological interpretation software in the industry for subsurface exploration. The platform offers a user-friendly interface for well log correlation, geological mapping, cross-sectional analysis, production data assessment, and volumetrics analysis. Seamless integration with Kingdom Geophysics ensures a smooth and efficient merging of geophysical data into subsurface interpretation, enabling geologists to effectively identify valuable oil and gas reservoirs and make well-informed drilling decisions.
- **Kingdom Data Management:** a fully integrated data platform and toolset for proper management of subsurface data within organizations operating in the Kingdom environment.
- **Analytics Explorer:** a data science and AI platform designed for E&P companies to help them get more value from their subsurface data. The platform is ideal for organizations managing a large portfolio of wells, assets, and reservoirs. With guided and automated workflows, users can rapidly integrate, visualize, validate, and optimize vast amounts of subsurface data to improve geoscience interpretations, operational efficiency, production performance, completion design, and well spacing.

How customers are using our geoscience software solutions

Geoscientist, Geophysicist, Geologist

- Conduct regional exploration studies and evaluations of basins' petroleum systems.
- Integrate petrophysical, geological, and geophysical data to create regional reservoir models and maps.
- Undertake reservoir and field analysis.

Data Manager, IT Manager, Geotechnician

- Load and manage all projects across the enterprise.
- Reduce project duplication across the enterprise/asset teams.
- Do project cleanup and information consolidation.
- Incorporate subscription S&P Global Energy Upstream Content, generate reports, QC data loads and correct erroneous data entries.

Geoscience Manager, Exploration Manager, Subsurface Manager

- Ensure identification of drilling targets.
- Optimize well placement in the most productive zones (sweet spots).
- Foster team collaboration and efficient data management for numerous drilling wells.
- Deal with large volumes of rapidly updating information.
- Continuously improving asset team efficiency to meet project deadlines.

Why choose this software solution

Advanced Data Management Kingdom can help you manage and maintain subsurface data more efficiently than with any other similar software, saving you time and money. You'll be able to:

- Enable collaboration with a true multi-user environment; 100 users can collaborate instantaneously on a single project with a single data source.
- Ensure the entire asset team is working on the latest data and interpretation.
- Scale to fit any business need, small or large organizations.
- Implement your database easily — even without a database administrator.
- Track performance and reliability with large well and seismic datasets for exploration and production operations.

AI and Automation: Save time and automate your processes with Kingdom's AI and deep learning capabilities.

- Analytics: connects to Kingdom.
- AI well log generator and raster log digitization.
- Assisted/automated tops picker in cross section and facies classification.
- Dynamic property modeling.

Integrate: Enrich your data by using Kingdom to connect to Commodity Insights Upstream Solutions:

- Connect directly to S&P Global Energy Content.
- Create shared maps between geoscience and engineering software.
- Connect to and apply data science and advanced analytics to geoscience and engineering data.

Third-Party Connections: Kingdom can connect to other third-party platforms to make your job easier:

- Integrated data science with Analytics Explorer connection to Spotfire.
- GIS layer-based mapping tool with ArcGIS.
- Connect and share data between Kingdom and the Petrel Platform via the Kingdom Gateway plug-in.
- Leverage Kingdom SDK to connect 3rd party applications or workflows.

About S&P Global Energy

At S&P Global Energy, our comprehensive view of global energy and commodities markets enables our customers to make superior decisions and create long-term, sustainable value.

Our four core capabilities are: Platts for pricing and news; CERA for research and advisory; Horizons for energy expansion and sustainability solutions; and Events for industry collaboration.

S&P Global Energy is a division of S&P Global (NYSE: SPGI). S&P Global enables businesses, governments, and individuals with trusted data, expertise, and technology to make decisions with conviction. We are Advancing Essential Intelligence through world-leading benchmarks, data, and insights that customers need in order to plan confidently, act decisively, and thrive economically in a rapidly changing global landscape.

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