

Engineering Enterprise



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

History — Triannual

(software updates/releases)

Licensing — Enterprise-wide access

Content package options — Software

Software

Access engineering software equipped with the latest innovative technologies and tools to enhance your daily E&P workflows for increase productivity and evaluating reserves.

You get:

- Reservoir and Production Software — solve complex reservoir management and production challenges.
- Pressure Transient Analysis Software — conduct pressure transient analysis to understand the reservoir and its potential.

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.



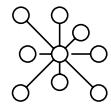
Desktop (software) & mobile



Cloud



Data feed



API solutions

Markets covered:



Global Oil & Gas Industry



Exploration & Production Sector



Oilfield Service Providers (OFS)



Financial Services (FS)

| Software | What's Included | |
|----------------------------|-----------------|----------------------------------|
| Harmony Enterprise™ | Forecast | Production Data Analysis |
| | | Reserve Evaluation |
| | | Typewell Analysis |
| | Reservoir | Estimation/Characterization |
| | | Diagnostics |
| | | Modeling/Forecasting |
| | Optimize | Deliverability (IPR/TPC curves) |
| | | Advanced Forecasting |
| WellTest™ | WellTest | Buildup and drawdown analysis |
| | | Pressure/Permeability Estimation |
| | | Deliverability Projection |

Key engineering workflows

- Generate Reserve Estimates:** Forecast the production of existing and planned wells using a combination of analysis methods such as declines, volumetrics, and material balance.
- Reservoir Characterization:** Better understand the reservoir to ensure optimal management and production.
- Reservoir deliverability optimization:** Determine the ideal production strategy for your wells.
- Advanced Reservoir Modeling and Forecasting:** Utilize fast numerical models to auto history match single and multi-wells on three phases, and to generate probabilistic forecasts for single wells in minutes.

Key software highlights

- Workflow automation allows users to forecast 1000's of wells in minutes.
- 20+ years supporting E&P engineers.
- 350+ companies use Harmony Enterprise globally.
- Supports modeling and production forecasting for conventional and unconventional reservoirs.
- Multiple users can connect and work on the same project.
- Seamless connection to S&P Global Energy Upstream Solutions world-class content, and software and analytics.

- Single platform for decline analysis, RTA, material balance, nodal analysis, and modeling; reduces the requirement for multiple vendors.
- RTA does not require wells to be shut in and allows the forecasting of wells with no discernable decline in production.
- Improved usability enables both existing and new engineers to initiate projects and generate results more quickly compared to competing engineering software solutions.
- Quick analyses provide engineers with results in half the time compared to simulators/other RTA software.

Key software:

- Forecast:** Empirical methods to analyze production, forecast, and manage reserves.
- Reservoir:** Incorporate flowing pressure data to better understand your wells, pads, and reservoirs using RTA methods.
- Optimize:** Identify the right well production strategy using nodal analysis.

How customers are using our engineering software solution

Reservoir Engineer, Exploitation Engineer, Development Engineer, Reserve Evaluator, and Asset Manager

- Evaluate and manage each well by importing the latest data, forecasting all wells, and then identifying any wells deviating from the forecast.
- Integrate diagnostic interpretations with physics-based models to characterize, forecast, and optimize production.

Production Engineer, Application Engineer, Drilling Engineer, Well Completion Engineer

- Generate nodal and gradient analysis for wells.
- Identify opportunities for production optimization.
- Detect liquid loading and erosion in wells.
- Evaluate different flow paths and use production forecasts from models to generate IPR for producing wells.
- Design and optimize artificial lift systems (i.e., Gas Lift, ESP).

Engineering Manager, Subsurface Manager

- Improve team performance and eliminate downtime.
- Improve production and increase well productivity.
- Optimize well spacing/completion design.
- Foster better communication between geoscientists and engineers.

Why choose this engineering software solution

- Gain efficiencies in your daily operations with a single platform that combines decline, rate transient analysis (RTA), and nodal analysis workflows to aid in improved decision-making.
- Collaborate with a shared database and with regularly scheduled updates, ensure your data is always current.
- Optimize production using an inflow performance relationship (IPR) curve generated from a multiphase numerical model rather than an empirical correlation.
- Produce fast yet rigorous numerical models that let you get results in a fraction of the time compared to dedicated simulators.
- Improve reserve estimation by understanding uncertainty with probabilistic methods that help you assess production potential and risk.
- Benefit from Harmony Enterprise's seamless connection to our Commodity Insights data science and ML software, Analytics Explorer, to further enhance your engineering workflows with advanced analytics.
- Access exceptional customer support and expertise to facilitate your teams' swift transition and ongoing assistance in addressing their software and workflow questions.

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.

Learn more at www.spglobal.com/energy.

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