

Refining Scenario Manager

Optimize the Refinery. Refine the Trade.



S&P Global
Energy

The complexities of market dynamics, need to quick insights and lack of clear validation for strategic decisions can leave refiners vulnerable to inefficiencies and missed opportunities.

Maximize Efficiency and Profits in a Dynamic Market

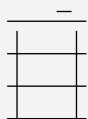
Refining Scenario Manager (RSM) delivers near real-time insights and scenario modeling to optimize trading and refinery operations. With RSM, you can simulate everything from crude and refined product pricing to unit-level capacity assumptions, uncovering opportunities to enhance efficiency and gain a competitive edge.

Enabled by AspenTech Unified PIMS (Linear Programming) software and integrated with S&P Global Energy's high-quality refinery data, RSM is a robust scenario management capability, adaptable to any refinery configuration. Its cloud-based platform, accessible via S&P Global Energy's Core platform, ensures scenarios are executed in near real-time.

Refining Scenario Manager modeling capabilities are suitable for every refinery in the world, enabling users to;

- Identify estimated quarterly crude blends used by refineries worldwide.
- Modify capacity assumptions and operational modes for refineries across the globe.
- Conduct turnaround and outage analysis by deactivating specific process units.
- Evaluate capital projects by analyzing margin impacts across various capacity, crude, and refined product scenarios.
- Assess changes in refined product yields under different modeled capacity scenarios.
- Select from a library of 200+ crude slates.
- Input user-defined crude prices, product prices, and transportation costs.

Who Can Benefit?



Large Integrated Oil and Gas Companies

Arm trading desks with detailed marginal crude values to support profitable trading decisions. Maintain operational efficiency amidst market fluctuations. Obtain validation for medium and long-term refining strategies.



Independent Refiners

Adapt swiftly to competitor, market, and macroeconomic factors. Obtain validation for medium and long-term refining strategies.

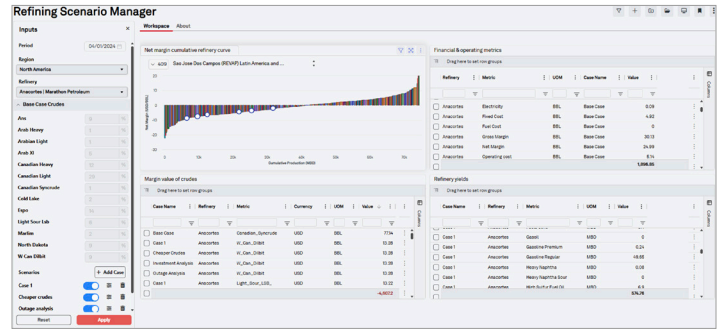


Financial Services and Trading Houses

Identify top-performing refiners and make profitable trading and investment decisions.

Key Features

- Dynamically manage refining scenarios with the ability to create and execute up to 15 user-configured scenarios for any selected refinery and time period.
- Utilize an intuitive Core interface showcasing S&P Energy's base data for selected refineries, with options to input or override key parameters:
 - Refinery capacity and utilization data at the unit level, covering 50+ downstream units (including catalytic crackers, hydrocrackers, cokers, reformers, alkylation units, hydrotreaters, lube units, asphalt units, and more).
 - Crude selection from a library of 200+ crude slates.
 - Crude blends, pricing, and transportation costs.
 - Product pricing.
- Generate scenario results using Core's advanced refinery models and databases, seamlessly integrated with AspenTech's Unified PIMS engine, and delivered in near real-time.
- Access coverage of over 90% of global refinery capacity.
- Scenario outputs offer actionable clarity, including:
 - Up to 15 key refinery-level profitability metrics, such as cash cost to produce light products (CCLP) and net/gross margin estimates.
 - Refinery throughput analysis.
 - Up to 43 refinery-level operating metrics for refined products.
 - Marginal crude value assessment.

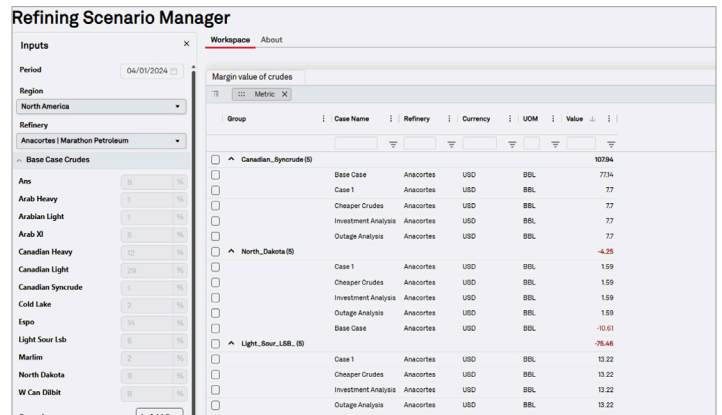


- Scenario data spans 5 years of historical and 10 years of forecasted information, selectable on a quarterly basis.
- All scenario data is fully configurable, savable, and downloadable on Core.



Key Benefits

- **Flexible Scenario Modeling:** Customize scenarios beyond base case data to explore various assumptions and outcomes.
- **Support Investments:** Stress-test assumptions and evaluate investments with robust economic analysis for informed strategic planning.
- **Near Real-Time Analytics:** Access near real-time margin insights to make better trading decisions and optimize market positions.



How Scenario Manager Helps:

Benchmarking

Understand how peers/competitors/comparable refineries perform under varying conditions and assumptions.

Strategy definition

Make informed medium- and long-term crudes and refined product strategic decisions. Define unit-level capacity and investment decisions.

Validate results

Give weight to strategic and investment decisions. Use the model outputs to validate the results of internal LP models.

Effective crude allocation

Plan effective allocation of crudes to owned refineries to maximize profits.

Price floors and ceilings

Set crude price floors and ceilings for trading desks using marginal value of crudes data.

Screen M&A/investment targets and due diligence

Model the yields and financials of an existing or prospective refinery to create accurate valuations of assets and make the right investment/financing decisions.

Informed trading decisions

Understand the marginal value of specific crudes for certain refineries supports effective crude trading decisions on the spot market.

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