

Refinery and Petrochemical Integrator and Decarbonizer (RAPID)

Maximize Profits & Minimize Emissions



How do you assess the return on investment of plant projects and strike the right balance between plant configuration, commercial profitability and carbon emissions?

Determine decarbonization technology options that increase long-term profitability through carbon cost offsets.

Companies need a consistent and streamlined approach to optimizing the configuration and operating parameters for new or retrofitted refineries and chemical plants to achieve decarbonization, operating cost, and commercial return targets.

From Data to Decisions

With RAPID, maximize profits and minimize emissions from refineries and chemical plants by accurately modelling integrated plant economics and assessing operational cost and margin improvements. RAPID helps you decarbonize by modeling the carbon footprint, cost, and tax allowances so you can evaluate different process technologies, which increase return on investment.

Why RAPID?

- Facilitate the efficient and comprehensive assessment of the optimal plant configuration for maximum financial return per unit of carbon impact.
- Consistent way to assess capital projects and produce feasibility studies more accurately, more simply, faster and with more data than on your own.
- Combine engineering analysis with commercial ROI.
- Understand scope 1 and scope 2 emissions and support decarbonization strategies by estimating carbon emissions and the equivalent in carbon taxes.



Refinery and Chemical Producer

- Optimize investment decisions by quantifying carbon impacts.
- Quantify cost improvement metrics for a better financial return on capital deployed.
- Improve profitability of asset portfolio by identifying assets likely to remain or become poor financial performers.



Engineering/Service Provider

- Optimize fees by understanding your customer's benefit from proposed services.
- Quantify climate and sustainability impacts for capital projects.
- Increase proposal efficiency with a targeted approach to an industry value chain, product or region.

RAPID Key Features

Over 500 products & processes

3,000 chemical prices and forecasts

History and forecast to 2050

Carbon emissions (Scope 1 & 2)

- Easy-to-use excel workbook accessed through S&P Global's Connect platform.
- Interact with our process economics models and input your own assumptions to update the model in real time.
- Access to a full set of consistent data related to refinery, and chemical process technologies, bio and energy feedstocks, product prices, and CO₂e variable costs.
- Quarterly updates of material balance table and a ticker of capital investment cost, financial IRR, and carbon emissions quantity as you build and configure a plant.
- Technical and economics of refineries, petrochemical, bio-based, renewable, as well as power generation processes.
- Decarbonization sustainability technologies cover four categories: carbon capture, low-carbon electricity and hydrogen generation, green technology for chemical production, and plastics recycling (mechanical and chemical).
- 100% data transparency.
- Ability to upload or type in values to override S&P Global Commodity Insights assumptions on pricing, costs, yields, and more.
- Calculates and compares scenarios based on various metrics such as IRR, NPV, emissions.
- Calculates and compares trends over time in cash flow, product pricing, feedstock availability, and more.
- Ability to compare and contrast economics of various process technologies for the manufacture of a specific product.

About S&P Global Commodity Insights

At S&P Global Commodity Insights, our complete view of global energy and commodities markets enables our customers to make decisions with conviction and create long-term, sustainable value.

We're a trusted connector that brings together thought leaders, market participants, governments and regulators, and we create solutions that lead to progress. Vital to navigating commodity markets, our coverage includes oil and gas, power, chemicals, metals, agriculture, shipping and energy transition. Platts® products and services, including the most significant benchmark price assessments in the physical commodity markets, are offered through S&P Global Commodity Insights.

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