Air Liquide leverages AIMMS for profit optimization at a global level

About Air Liquide

Air Liquide Group is the world leader in gases for industry, health and the environment. The Group provides competitive gas solutions for customers in industries such as automotive, manufacturing, pharmaceuticals, materials and energy. Air Liquide is active in 80 different countries and has nearly 50,000 employees, boasting a pipeline network that spans 6,000 km in Northern Europe and the U.S. combined.
Problem

Air Liquide operates in a highly dynamic market. Their challenge is two-fold. On the one hand, demand is constantly fluctuating and evolving. On the other hand, their distribution network is very complex. The company was using spreadsheets to plan its supply chain and tackle problems, but had encountered several limitations due to the amount and complexity of their data and operations. They were looking for a decision support system that would make their data and process easy to model, access and visualize. Better understanding inter-dependencies in their supply chain and seeing the future impact of changes was also a key objective.

Solution

Air Liquide has adopted AIMMS across its global operations. Many AIMMS-based optimization models have been applied within the Group’s units to improve production output, while minimizing production, distribution and inventory costs and maintaining profitable pipeline operations. Models are easily shared, supporting collaboration across the enterprise. AIMMS-based tools are now used daily at Air Liquide, enabling the company to adapt to changes in customer demand or energy prices nearly in real time. Recently, an internal award was given to Air Liquide’s planning team for making the company more efficient through the use of AIMMS.

“AIMMS offers a great opportunity to extract additional value in our portfolio of optimization solutions at the local level where it enables our engineers and process experts to further push our optimization boundaries and obvious links to the supply chain, making it a profit optimization solution rather than a process optimization solution. Having many experts able to think about and simulate our process using the AIMMS technologies and tool sets, is a real innovation that will improve the way we operate and understand our processes.”

- Charles Neely Harper, Director of Smart Manufacturing at Air Liquide.

Results

- Increased transparency and visibility
- Improved collaboration at a global level
- Significant cost savings

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About AIMMS

The AIMMS Prescriptive Analytics Platform helps you evaluate and identify the best options to tackle your most pressing challenges with sophisticated analytics that leverage mathematical modeling and scenarios while pulling from multiple data sources. You can immediately gauge, not just what is likely to happen, but what you should do about it for the best possible outcome. Whether you seek to improve your strategy, planning, operations or transform your entire supply chain, AIMMS software is the ideal combination of being tailored to your unique situation paired with speed to value (ROI). That’s why teams at Shell, Johnson & Johnson, GE and Heineken and many more fire up AIMMS every day.

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