

AspenTech Operational Insights™

Emissions Management and Decision Support

Decision-makers in complex and dynamic operational environments require a comprehensive and real-time understanding of the status of their business operations from a high-level corporate view to a low-level equipment view.

AspenTech Operational Insights provides users with a proven approach to correlate, analyze and visualize massive amounts of disparate data, integrating this data from across the enterprise. By giving users the context needed to make fast, confident decisions, they can quickly identify those most critical items demanding priority attention and action.

Key Benefits

Reduce Emissions Up to 25%

Real-time tracking and trending combined with 'what-if' analyses can improve energy and CO₂ performance, up to 25% auditable carbon emission reduction. Identify operational changes needed to achieve incremental CO₂ abatement, manage bad actors and optimize underperforming processes through granular data and process visualization to help users take quick action and achieve related business goals.

Optimize CO₂, Profit and Yield Using Single-View Operational Metrics

In a world with increasing data sources and data volume, it's more important than ever to turn data into actionable insights. Operational Insights consolidates emissions information in a single, accurate view with real-time visibility across functions. It then sorts and filters the data accordingly, publishing the data in an easy-to-consume user interface. The software is designed to interoperate with existing applications and systems, and has interfacing capabilities to pull data from any or multiple sources.

Use Shared Emissions and Operating Data Across Teams, Levels

Establish a shared basis of existing, enterprise-wide data to ensure consistent analysis at all levels of the organization—from the corporate to the plant level. Enable visibility across all functions to illuminate business tradeoffs and opportunities for improvement with shared models and information.

Perform Easy-to-Audit Calculations for Transparency to Financial Markets, Regulators, NGOs

Asset operators require that the greenhouse gas (GHG) emissions calculation and management solution be accurate and fully transparent for governmental and financial auditing in compliance with emerging ESG standards.

Key Capabilities

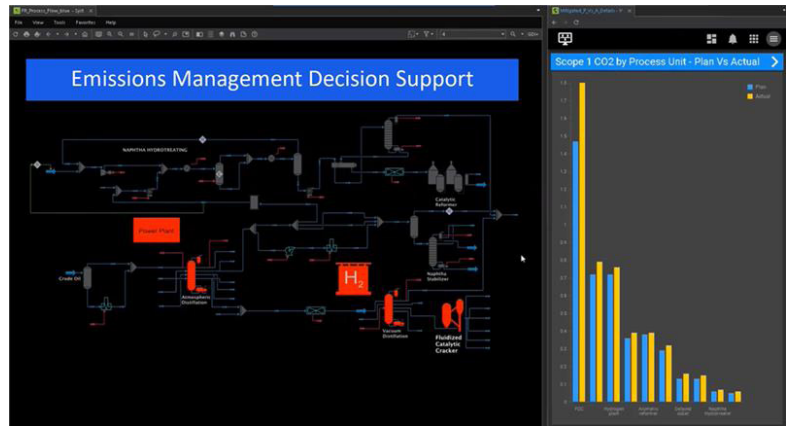
- Track CO₂ and renewables with emissions, tax and offset KPIs
- Guide enterprise actions to reduce energy and emissions while improving margins
- View performance, trends and benchmark compared to potential and actions (plant or unit level)
- Understand CAPEX and OPEX cost tradeoffs
- Connect seamlessly with other AspenTech products, third-party applications and data sources
- Reach net zero goals with decision support to confidently action while balancing sustainability with profitability
- Improve operational excellence with enhanced decision support
- Make decisions with full visibility of the supply chain including drill-down to plant and shipment information

Use Case: European Carbon Abatement Targets

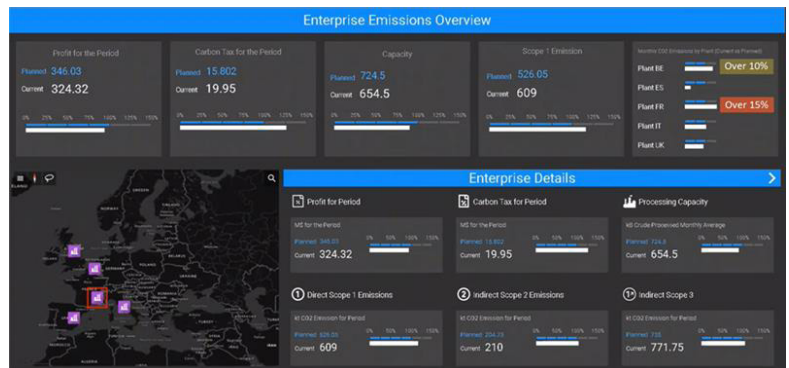
CHALLENGE: A European refinery needed to meet CO₂ reduction targets while maintaining profitability. With the refiner’s existing manual, spreadsheet-based CO₂ emissions reporting system, users were unable to drill down for guidance on priority action items. The current technology also took too long to assemble and failed to provide consistent data and views from executives to plant workers.

SOLUTION: AspenTech Operational Insights provided the refiner a shared, transparent site-wide CO₂ emissions decision support platform. Using the integrated solution, the team was able to compare planned vs actual emissions, automate Scope 1 and 2 EU methodology for CO₂ accounting and auditing, and quickly adjust for new emissions allowances, bio-feedstock credits and economics.

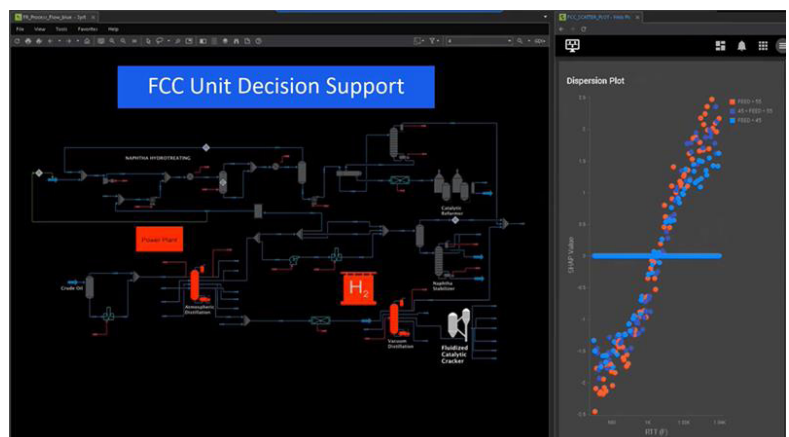
RESULT: For the first time ever, the team had real-time visibility into its CO₂ emissions and a consistent view across all levels, from executives to plant workers. This shared view was crucial in providing actionable insight to address CO₂ bad actors to meet targets, together with auditable reporting information.



This module provides enhanced decision support and benchmarking to enable emissions reduction.



Real-time system tracking with enterprise-wide visualization and insights on system-level decision impact.



This module provides concise data visualization to validate decisions on balancing sustainability and profitability goals.

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