

Helping natural gas players monetize their physical trading operations given real-world constraints



Natural Gas Network Optimization

Natural gas trading and marketing companies face unique challenges around physical trading, scheduling, transport, storage, and seasonal planning. Our Network Optimization for Natural Gas platform helps organizations keep track of ongoing supply and demand, and react quickly to fast-moving market changes by helping them to locate and exploit arbitrage opportunities. Optimization for natural-gas networks hinges on fast reaction and systematic consideration of all possible trading and scheduling options.

Marketing and Supply Planning



capSpire's solution enables natural gas players to model their network over multiple planning horizons—bid week, cash month, seasonal forecast—and develop a trading and scheduling plan focused on maximizing bottom-line revenue.

- Make informed buy and sell decisions
- Understand and identify location spreads
- Identify time spreads and contango opportunities
- Easily identify the most profitable supply and demand options

Transport and Scheduling Optimization



The platform optimizes scheduling across your pipeline network. It produces daily, weekly, and monthly play-by-play operation schedules that satisfy contractual constraints and maximize profitability.

- Evaluate all pipeline paths
- Create suggested schedules that optimize nomination, transport, and capacity decisions
- Visually analyze how firm and interruptible transport changes, as well as planned and unplanned outages, impact a pipeline

Inventory Optimization



You invest strategically in your storage assets and storage contracts. Whether you want to better capitalize on your storage or analyze the impact of changing your storage mix, the platform shows you the P&L impact so that you can make the most profitable decisions.

- Intelligently manage inventory based on supply and demand
- Trade around your physical inventory
- Easily understand inventory rundown
- Evaluate new storage location optionality, and quickly rank new storage capacity by margin uplift

Simulation and What-if Analysis



capSpire's Network Optimization platform enables you to run scenarios through the simulation and optimization engine. The result is a real-world, profit-optimized plan for your strategic, annual, and daily operational decisions.

- Simulate supply, demand, and pricing changes to anticipate market movements
- Analyze historical impacts of new assets or contractual changes
- Deliver what-if analysis for new contracts, park and loans, and storage
- Evaluate the economic impact of various scenarios using easy-to-understand dashboards

Integration Tools

The Network Optimization for Natural Gas platform easily integrates with your business applications, including CTRM and logistics systems. In addition, the platform can be customized to connect to in-house systems.

- Integrate existing data from other source systems to avoid keying in data again
- Augment data in an easy-to-use Excel or cloud-based interface that is integrated with our core model, and tag data so that it can be seamlessly integrated with other sources
- Quickly identify and correct gaps in data using extensive validation routines
- Easily handle growing data volumes and integration points

Business Benefits

- Boost profitability by 10% or more
- Take your trading and scheduling capabilities to the next level
- Maximize usage of your storage, park and loans, and pipeline transport
- Identify the best options with higher accuracy before making investment decisions
- Rely on the system to uncover opportunities that would be difficult to find manually
- Improve visibility into operating costs of your physical natural-gas trading
- Enhance team collaboration
- Increase the accuracy of scheduling data
- Use look-back capabilities to identify opportunities for improvement and better inform future plans



capSpire provides the unique combination of industry knowledge and business expertise required to deliver impactful business solutions. Trusted by some of the world's leading companies, capSpire's team of industry experts and senior advisors empowers its clients with the business strategies and solutions required to effectively streamline business processes and attain maximum value from their supporting IT infrastructure. For more information, please visit www.capspire.com.