



# GasStorageAnalytics Optimization Tool

Maximize Storage Profitability Through AI

Presented by: Alto Commodities



# Gas Storage Operators Face Complex Challenges

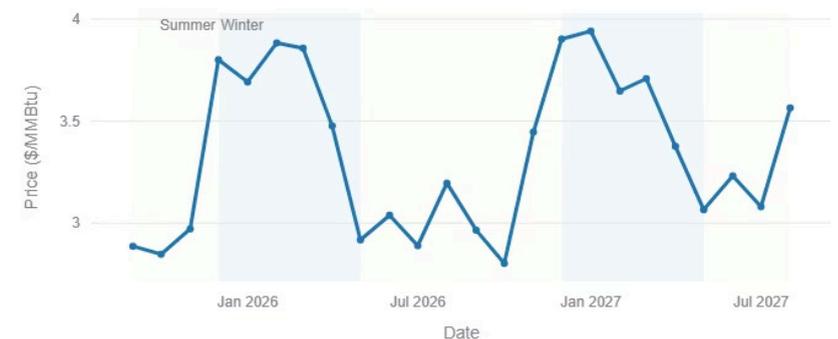
## Current Pain Points:

- **Manual optimization** leads to missed profit opportunities
- **Complex ratchet systems** difficult to model accurately
- **Market volatility** creates timing challenges
- **Regulatory constraints** add operational complexity

## The Cost:

- Suboptimal injection/withdrawal timing
- 15-25% profit left on the table
- Time-intensive manual analysis
- Limited scenario planning capabilities

Natural Gas Forward Price Curve



# AI-Powered Storage Optimization Platform



## Real-time NYMEX integration

Live market data



## 24-month optimization

Strategic planning horizon



## 5-ratchet system modeling

Realistic storage physics



## Intrinsic value optimization

Pure storage spread capture

## Key Features

- **Intrinsic Value Focus:** Optimizes pure storage spreads in this demo
- **Smart Scenarios:** Bull/bear market, high winter, low summer presets
- **Interactive Planning:** Edit prices and constraints in real-time
- **Regulatory Compliance:** Built-in safety and minimum inventory rules

Note: For extrinsic value and complex contracts, we customize solutions with multiple basins, transport optimization, and advanced derivatives modeling

# Industry's Most Accurate Storage Physics Modeling

## Revolutionary 5-Ratchet Technology

Ratchet	Fill Level	Injection Rate	Withdrawal Rate
1	0-20%	100% MDIQ	30% MDWQ
2	20-40%	90% MDIQ	50% MDWQ
3	40-60%	80% MDIQ	70% MDWQ
4	60-80%	60% MDIQ	90% MDWQ
5	80-100%	30% MDIQ	100% MDWQ

### Why This Matters:

- **Realistic constraints**  
Based on actual storage pressure
- **Dynamic rate calculations**  
For accurate planning
- **Operational guidance**  
For daily decisions

# See Your Profit Potential Instantly

## Optimization Results

### Sample Results:

- **Total 24-Month Profit:** \$2.3M optimized return
- **Best Strategy:** Inject during summer lows, withdraw during winter peaks
- **Volume Efficiency:** 85% capacity utilization
- **Risk Management:** All regulatory constraints satisfied

## Analytics That Drive Decisions

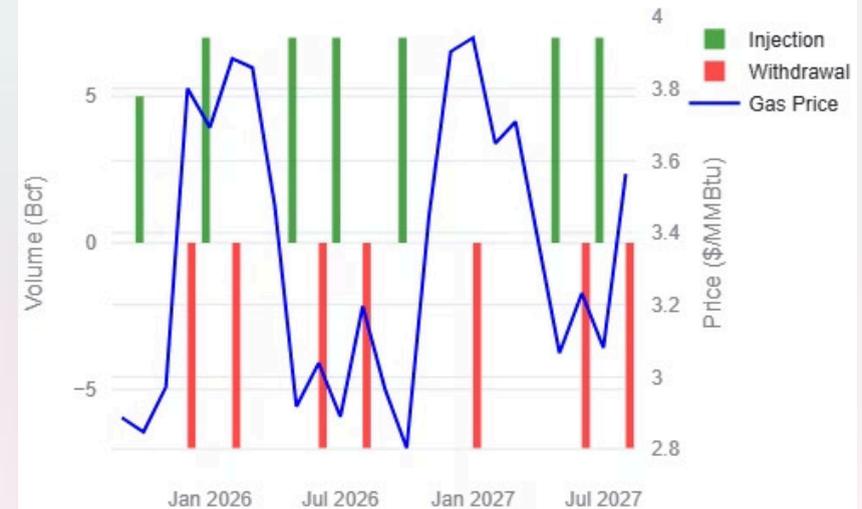
Month-by-month operational schedule

Real-time constraint monitoring

Scenario comparison tools

Detailed cost/revenue breakdown

### Optimal Injection/Withdrawal Schedule



# Proven ROI for Storage Operations

## Business Impact

### Financial Benefits:



**15-25% profit improvement**

vs. manual optimization



**Optimal timing**

for injection/withdrawal decisions

### Operational Excellence:

- Real-time market price integration
- Automated regulatory compliance

### Use Cases

- **Daily Operations:** Real-time injection/withdrawal decisions
- **Strategic Planning:** Long-term asset optimization
- **Risk Management:** Stress testing multiple price scenarios



**5-second analysis**

vs. hours of spreadsheet work



**Risk scenario planning**

for strategic decisions

- Professional-grade analytics
- Strategic 24-month planning

# What You'll See in Our Demo

## Live Demo Preview

### 1. Intrinsic Value Demo (2 minutes)

- Configure your storage facility parameters
- Choose market scenario or live NYMEX data
- Set operational constraints and costs

1

2

### 2. One-Click Optimization (30 seconds)

- Run AI-powered intrinsic value optimization
- Generate 24-month operational strategy
- Display pure storage spread profits

### 3. Results Analysis (3 minutes)

- Interactive charts and analytics
- Scenario comparison capabilities
- Export operational schedules

3

**Custom Solutions Available:** *Beyond this demo, we offer extrinsic value optimization, multi-basin analysis, transport modeling, and complex contract optimization tailored to your specific needs.*

## Questions We'll Answer:

- How much additional profit could you capture?
- What's your optimal injection/withdrawal strategy?
- How do different market scenarios affect your returns?

# Ready to Maximize Your Storage Profitability?

## Next Steps

### Immediate Actions:

- 1 Live Demo**  
See your facility optimized in real-time
- 2 30-Day Trial**  
Test with your actual operational data
- 3 Custom Proposal**  
Tailored pricing and implementation
- 4 Go Live**  
Full deployment in 30 days

### Contact Information

Email: [adam.gha@altocommodities.com](mailto:adam.gha@altocommodities.com) Website: [www.altocommodities.com](http://www.altocommodities.com)

Thank You - Let's Optimize Your Storage Operations with GasStorageAnalytics!

### Investment Options:

- Monthly subscription model
- Annual enterprise licensing
- Professional setup and training included



# About Alto Commodities

## Your Trusted Partner in Energy Analytics

Alto Commodities specializes in developing cutting-edge optimization tools for the energy sector. Our team combines decades of industry experience with advanced AI technology to deliver solutions that maximize profitability while ensuring operational excellence.

### Our Expertise:

- Natural gas storage optimization
- Energy trading analytics
- Risk management solutions
- Regulatory compliance tools



We serve clients across North America, Europe, and Asia, helping them navigate complex energy markets with confidence and precision.

**i** Our GasStorageAnalytics tool is just one example of our commitment to innovation in the energy sector. Ask us about our full suite of solutions designed for every aspect of the energy value chain.

# Frequently Asked Questions

1

## How long does implementation take?

Standard implementation takes 2-4 weeks, depending on your existing systems and data availability. Our team works closely with your IT department to ensure seamless integration with minimal disruption to operations.

2

## Can this handle multiple storage facilities?

Yes. Our enterprise version supports unlimited storage facilities across multiple basins, with consolidated reporting and optimization capabilities. Each facility can have unique parameters and constraints.

3

## What security measures are in place?

We offer both cloud and on-premises deployment options with industry-leading security protocols, including end-to-end encryption, multi-factor authentication, and regular security audits. All data remains your property.

4

## Is training included?

Comprehensive training is included with all implementations. We provide both in-person and virtual training sessions, along with detailed documentation and ongoing support to ensure your team can maximize the value of the platform.

Have more questions? Contact our team today to schedule a personalized consultation.