Geminus

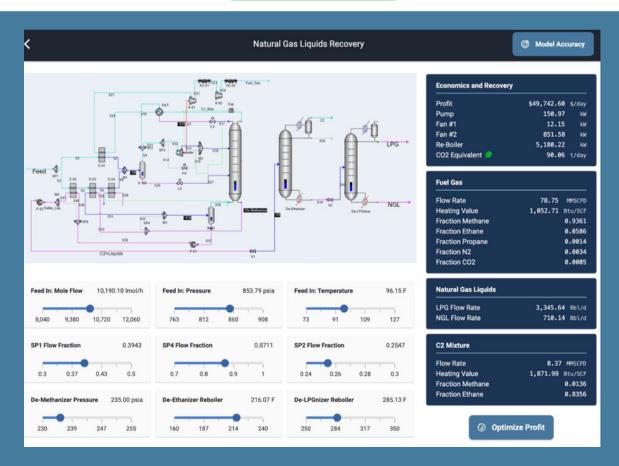**Application**

Natural Gas Liquids Recovery Optimization

Leaving optimization opportunities on the table

Natural Gas Liquids (NGL) plants lack the predictive insight needed to determine the optimal setpoints to maximize profitability and minimize carbon emissions. Today, most plants run on operator experience and rely on simulations, leaving massive opportunities to improve productivity and efficiency on the table. While accurate, neither solution enables real time decision-making.

Simulation-quality insight with the speed and flexibility of AI

Geminus takes a different approach, fusing data and simulation to develop production-grade AI models in just hours. In this case, we leveraged data from Symmetry, which provided a comprehensive simulation of the NGL plant, to create a model that can access rigorous insights in real time. This model powers an intelligent advisor app, which optimizes plant profitability with changing inputs and market prices balanced with the carbon footprint. Users can explore the impact of feedstock and process settings on carbon footprint and plant yield with simple slider bars that update immediately.

▶ **Watch the demo**

Enabling a new era of intelligent systems

The app that Geminus built recommends plant settings based on the price of the incoming gas, the sales price of gas constituents, and carbon emissions. It operates within plant safety and product specification constraints. In under 0.1 seconds, Geminus can evaluate 20 thousand scenarios, balancing optimized profitability with carbon footprint.

Geminus AI Model vs. Process Simulation		
	Simulator	**Geminus**
Model Query Time	10s - 30s	0.001s
Optimization Times	1hr - 4 hrs	10s - 1min
Error Percentage	0%	<1%
Projected Plant Revenue Gains	-	$Millions/year

Geminus

Geminus is an industrial AI optimization platform challenging the AI status quo. Our next-generation predictive intelligence solution fuses measurement data and physics to power resilient and efficient digital twins. This approach enables model creation in hours, rather than months. It's industrial AI, made easy.

Get in Touch

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