

PLEXOS Gas for North America

Plan faster with PLEXOS® Gas

North America's gas markets face mounting pressure from electrification, policy uncertainty, and LNG expansion. Traditional models struggle to keep pace with weather shocks, emissions mandates, and cross-commodity risk.

PLEXOS® Gas helps teams navigate complexity with simulation ready datasets, integrated power-gas logic, and audit-grade outputs, without building models from scratch.



That's why energy teams choose PLEXOS® Gas.

Built on the trusted PLEXOS® platform, this solution suite enables teams to:



Simulate gas infrastructure, contracts, and gas market behavior



Co-optimize gas and electricity markets in one model



Test scenarios across 76+ hubs with weather, policy, and demand variables



Skip manual model builds and enable faster, more transparent planning

From daily decisions to 30-year investment planning, PLEXOS® Gas helps you move faster, with clarity you can defend.

Explore the solutions

PLEXOS® platform

The core simulation engine for gas and power integration.

- Optimize gas portfolios across supply contracts, pipeline entitlements, and storage
- Model linepack, pressure, tariffs, ratchets, and LNG logistics
- Co-optimize gas-fired generation and electricity dispatch

Evaluate carbon pricing, hydrogen blending, and decarbonization pathways

Outcomes: Reduce risk, improve planning credibility, accelerate decisions.

North American Fundamental Gas Model

The simulation ready dataset behind every scenario.

- Covers 172 pipelines, 96 storage sites, 30 LNG terminals, and 1,000+ demand classes
- Includes detailed constraints: pressure limits, entitlements, and tariff zones
- Editable and versioned inputs for consistent simulation logic
- Shared across all PLEXOS® Gas solutions

Used by planners, regulators, consultants, and market operators

Outcomes: Skip model build time, gain validated insights, and enable fast scenario creation.

PLEXOS® Insights for North America – Gas

Zero-setup weekly forecasts for faster planning and risk management.

- Weekly refreshed forecasts for prices, flows, production, and storage across 76+ hubs
- Scenario testing for policy changes, weather shocks, and outages
- Transparent assumptions – no black-box logic or generic price curves
- Delivered via dashboards, CSVs, and APIs for workflow integration

Supports regulatory, commercial, and operational reporting

Outcomes: Forecast with confidence, validate risk, act faster.

PLEXOS® Playbook for North America – Gas

Editable simulation sandbox for IRPs, strategy, and stress testing.

- Built on the **North American Fundamental Gas Model** – no model building required
- Modify assumptions in Excel or dashboards – run scenarios instantly
- Supports procurement, infrastructure, emissions, and fuel-switching planning

Run in PLEXOS® Cloud with audit logs, version control, and scenario tracking

Designed for planners, analysts, and cross-functional teams

Outcomes: Move from idea to scenario in hours, not weeks.

Why energy teams choose PLEXOS® Gas for market analysis

Capability	Description	Outcome
Fully prebuilt	Skip model building	Plan faster
Scenario engine	Run what-if tests in hours, not weeks	Better stakeholder alignment
Transparent results	No black-box logic	Gain regulatory confidence

Use cases

- **IRP and regulatory filings:** Use as input to Electric Utility Integrated Resource Plans
- **LNG export and storage strategy:** Evaluate infrastructure feasibility and exposure
- **Risk and procurement:** Simulate outages, weather, policy shifts, and price volatility
- **Capital investment:** Stress-test long-term investments such as gas fired generators, LNG terminals, and hydrogen projects
- **Cross-commodity planning:** Model gas and electricity together under market rules

Take the next step

Schedule a demo of
[PLEXOS® Gas for North America today](#)

