PLEXOS North American Gas Dataset

Underpinning your every decision is the trust that your data is accurate and well sourced. But collecting data, and ensuring its precision, to accurately model the energy ecosystem takes precious time and resources.

Our Simulation Ready Datasets are extensively researched and meticulously sourced by our global team of experts, so that you can start modelling with confidence on PLEXOS and PLEXOS Cloud. Our datasets are designed to be easily customized, updated with the latest industry data, and incorporate information from public, regional, and government sources.

Energy Exemplar's latest PLEXOS dataset for the North American gas market gives you an unprecedented resolution for the entire region.

Designed for:

- **North American fundamental gas model** to analyze the economics and gas supply, transport, storage and demand dynamics accounting for value change over time, infrastructure adequacy and economic expansion strategies.
- **Power generation and distribution companies** in need of analytics for gas, electricity and other fuels in an integrated manner
- **Gas producers and processing companies** to assess the value of gas in the marketplace and look at revenue streams over short- and long-term periods Industries needing security and adequacy of gas supplies to support industry over long-term periods
- **Pipeline companies** to assess the value of pipeline capacity, expansion strategies and utilization patterns over time to account for seasonality in gas demand and adequate supply to meet demand in various regions

North American Gas Dataset includes:

- Natural gas reserves and resources consisting of proved reserves, possible reserves, probable reserves and speculative resources
- Natural gas transportation pipelines include interstate and many intrastate pipelines. Pipelines are divided into segments based on receipt/delivery points. Aggregated pipelines represent gas transport at production facilities and pipeline interconnections across the gas grid
- Gas Hub Price Forecasts including the traded market hubs, intermediate interconnection hubs, gathering and producing region hubs and LNG interconnection hubs. Accurately model beyond published futures and examine the impacts of extreme weather events or unplanned outages to key assets
- Storage facilities representing both underground gas storage facilities and above ground LNG Peaking facilities are included in the model
- Demand for natural gas by use sector including residential, commercial, industrial, power generation

Energy Exemplar

Featured highlights of the North American Gas Dataset for PLEXOS include:

1	**Security of supply analysis –** detailed case study of security of supply issues to Summer 2024
2	**View to 2050 –** future scenario included for each country, modeling market fundamentals to 2050 including production, demand by sector, imports, flows, storage and gas market price
3	**Backcast –** monthly calibration against actual demand, production, LNG and pipeline imports, storage working volumes and price
4	**Detailed representation of North American gas infrastructure, including:** • 165 supply objects, 111 processing plants, 1706 pipeline segments, 528 pricing nodes, 467 storage (UGS & LNG), 800 demand objects, 29 basins, 76 zones, 54 data files, 42 scenarios, and 108 weather stations • Supply nodes, each representing an LNG import terminal, domestic gas field or international pipeline entry point • Demand split by sector • Storage facilities

Leverage this comprehensive dataset to gain insights on the entire gas ecosystem: LNG exports and imports, all supply scenarios, changing demand patterns, fundamental gas price analysis, and more - all updated in this timely dataset release to help you stay ahead of the trends.

Sources Include:

Sources used include various EIA publications, CER, SENER, State Governments, NGI, RYSTAD, ICE, CME Group (NYMEX).

With our Simulation Ready Datasets you get faster start-up and decision making, accuracy and reliability, drastically lower internal costs when compared to developing your own – giving you quicker time to insight.

Energy Exemplar datasets are always:

- Publicly sourced
- Thoroughly documented with extensive release notes provided
- Extensively tested and calibrated
- Up-to-date

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Take the Next Step

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www.energyexemplar.com