



World Gas Model

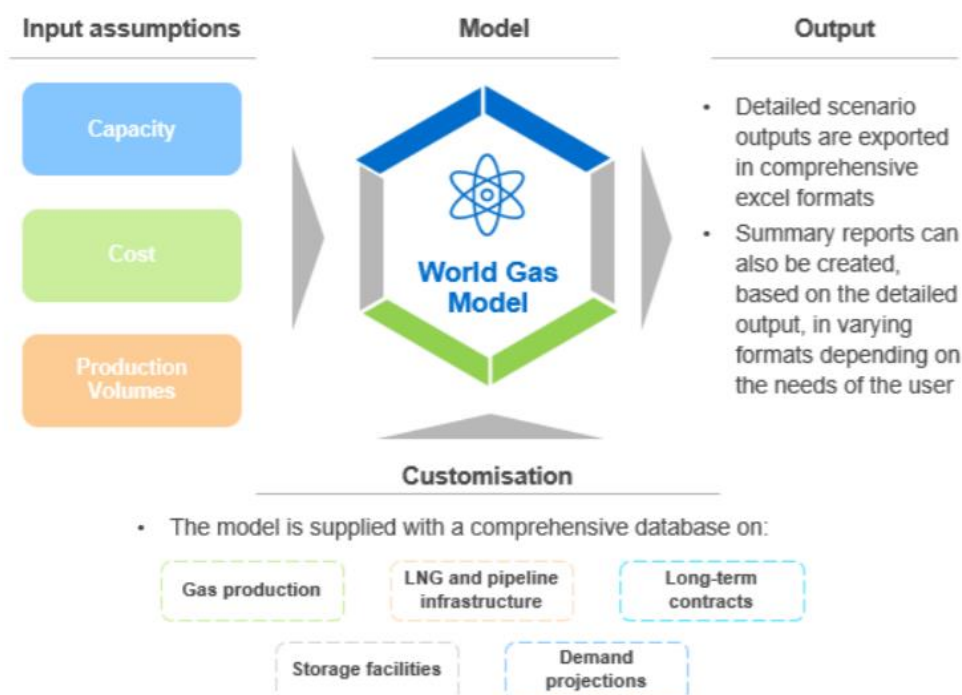
The World Gas Model projects global, regional and national gas supply and demand balances, international gas trade by pipeline and LNG and both contracted and spot gas prices. Contract prices are estimated based on projected prices for a basket of escalators including gas hub prices as well as more traditional oil and coal prices. Spot prices are a unique feature of the model and are estimated with reference to the cost of supply, competing prices and the “tightness” of the market.

NexantECA, the Energy and Chemical Advisory company’s World Gas Model considers every country in the world which either consumes or produces natural gas. Large countries including Canada, USA, Russia, China, Australia, Indonesia and Malaysia are further segmented into sub-regions. The focus is on the growing international trade of natural gas by cross-border pipeline and LNG.

The World Gas Model has a comprehensive database on gas production, LNG and pipeline infrastructure, trade routes as well as long term contracts, storage facilities and demand projection. All data needed to run the model is supplied by NexantECA and users are free to add or overwrite the supplied assumptions to construct scenarios of interest to their organisations.

The model currently has an outlook period to 2050 and is balanced on a quarterly basis.

Data flow within the World Gas Model



Bespoke Scenarios

Clients can consult with NexantCA to create bespoke scenarios starting with our base case, and then changing key assumptions to generate alternative scenarios and sensitivities.

We have worked with LNG developers, upstream companies, pipeline companies, utilities, government departments, regulatory bodies and policy institutes for such scenarios.

**For more information contact us at Markets@NexantECA.com
or visit www.NexantECA.com**



World Gas Model

Accessing the World Gas Model

Licensing

The World Gas Model is available to the clients to use under license on their own systems. The clients benefit from the database containing detailed Information about production, infrastructure and contracts, continuous support and global coverage in the World Gas Model.

NexantECA provides full training and support for the model including quarterly data updates, technical support and frequent model development and enhancements.

System Requirement and runtime

The World Gas Model is based on Excel and with the system configuration below:

- Win 7 (8 GB RAM)/ Win 10 (16 GB RAM) [64 bit systems]
- Office 2010 / Office 13 [64 bit versions]
- Linear Programming solver – What's Best (64 bit)

Run time: We have optimised run time to under 10 min for a full scenario run.

Outputs

The key outputs of the model include spot and contract prices, production and consumption, trade flows and infrastructure utilisation.

Support

The World Gas Model runs on a stand- alone computer or laptop. The Excel interface allows users to modify inputs easily and incorporate outputs into other internal programs and systems.

NexantECA provides comprehensive support services including initial installation and training, regular updates of data and technical support. All users benefit from a continuous programme of model development and enhancements.

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NexantECA Subscriptions and Reports provide clients with comprehensive analytics, forecasts and insights for the chemicals, polymers, energy and cleantech industries. Using a combination of business and technical expertise, with deep and broad understanding of markets, technologies and economics, NexantECA provides solutions that our clients have relied upon for over 50 years.

The **Markets and Profitability** program tracks over 60 feedstocks, petrochemicals, polymers, chemical intermediates and fertilizers on an ongoing basis and provides regularly updated reports covering all commercial aspects of these global industries. The accompanying database provides global analysis and forecasts in two major inter-related areas: **Markets and Profitability**.

NexantECA serves its clients from offices located throughout the Americas, Europe, the Middle East and Asia.

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