



IHS Markit™

Energy Infrastructure and Markets Database: Global Gas and Power

Comprehensive infrastructure data for strategic analysis,
investment planning, and decision support



As a leading provider of information and insight to the oil and gas industry, IHS Markit has expanded the scope of its Energy Infrastructure and Markets Database suite of products to provide a comprehensive **Global Gas and Power Database** for in-depth business planning and operations support. As well as existing facilities, projects are captured along with their current status and milestones for key events. The content is outlined in the following:

Common attributes for all facility types are plant name, operator, ownership structure, capacity by unit, online date by unit and location coordinates

Gas Pipelines:

- Type of pipeline
- Route & length
- Diameter
- Capacity:
 - Time period
 - Reported
 - Estimated
- Looping by segment
- Entry/Exit node capacity & throughput (for Europe)

Compressor Stations:

- Type
- Capacity
- Horsepower
- Input and output pressure

Gas Storage:

- Type of storage
- Storage volume:
 - Working gas
 - Cushion gas
 - Total
- Peak withdrawal capacity/injection capacity
- Installed compressor power MW
- Gas quality specifications

LNG Liquefaction & Regasification Facilities:

- Capacity & capacity holders
- Storage capacity
- Number of tanks
- Technology
- Capital cost

Gas Contract & Distribution Structures:

- Gas pipeline and LNG supply contracts:
 - Supplier & Buyer
 - Time period
 - Plateau volume

Gas customer profile:

- Customer type
- Number
- Time period
- Sales volume

Power Plants:

- Plant type
- Capacity by unit & turbine type
- Primary/alternative fuel by unit
- Fuel consumption

Methanol, Ammonia and Urea Fertilizer:

- Product output capacity
 - Industrial Facilities
 - Plant type
 - Plant capacity
- Facility Emissions
 - Type
 - Allocated
 - Verified

CO2 Emissions by facility

- Emissions
 - Type
 - Allocated
 - Surrendered
 - Verified

Gas Processing Plants:

- Gas intake capacity
- Production capacity:
 - Ethane
 - Propane
 - Normal butane
 - Iso-butane
 - Mixed butanes
 - Natural gasoline
 - C5+
 - Condensate
 - LPG
 - NGL
 - Total

Other Large Industrial Plants:

- Industrial type
- Plant production capacity
- Estimated gas consumption at full capacity

Olefin Plants:

- Ethylene production capacity
- Feedstock usage by type (percentage)

Ports:

- Capacity Berths:
 - Berth name
 - Type of service
 - Operating status
 - Depth
 - Length
 - Maximum length overall
 - Maximum draught
 - Maximum dead weight tonnage

Refineries:

- Capacity by major unit (bpd and tons/year):

Biofuels/Synfuels:

- Type
 - Biodiesel
 - Bioethanol
 - CTG
 - GTL
- Intake capacity
- Production capacity:
 - Ethanol
 - Diesel
 - Naphtha
 - LPG
 - Other products
 - Total liquid product
- Gas

Decision Support

Key information is provided to support:

Supply Planning – For key sources of natural gas by pipeline, what are the prospects for increased imports and what additional transit flexibility is needed? What is the status and expected commission date for pipeline expansions and new projects? How prominently will LNG figure into the supply outlook; which projects will advance and when will they be online?

Gas Procurement – What is the contract position of key market participants? How do the volumes and the duration match their primary market needs? Will storage be adequate to handle seasonal demand swings and accommodate volume commitments?

Market Analysis – What are the announced power plant projects, current status and online date? Will there be sufficient gas supplies to sustain the trend toward combined cycle gas fired facilities? How will renewables impact the need for gas fired power generation?

Competitor Analysis – What is the gas infrastructure and power generation market share by company on a country and pan-European basis? What is the customer profile by company? How does this compare with their gas contract position and generation kit?

The database mapping tools also allow users to create custom maps which can provide visual insight into critical questions such as:

- What are the transport options to access a potential customer and how will this change in the future?
- Where are the gas storage facilities in a specific market?
- How can regasification facilities be accessed?
- Where are system bottlenecks?
- How is a competitor positioned along the gas and power chain?
- What is the market potential in a specific region?
- Where are competitors' power generation projects located and what are the fuel types?
- Is there a large industrial base and potential gas market if supplies were available and infrastructure developed?

Modules available in the Energy Infrastructure and Markets Database suite of products include:

All infrastructure data is mappable and accessible through IHS Markit's GIS products.

E&P Essentials: Integrate reserves and production on field level, including development status for new projects along with details on hydrocarbon characteristics, for your supply planning.

Oil Midstream Database: Comprehensive unit processing and production capacity information to 2020.

About IHS Markit

IHS Markit (Nasdaq: INFO) is a world leader in critical information, analytics and solutions for the major industries and markets that drive economies worldwide. The company delivers next-generation information, analytics and solutions to customers in business, finance and government, improving their operational efficiency and providing deep insights that lead to well-informed, confident decisions. IHS Markit has more than 50,000 key business and government customers, including 85 percent of the Fortune Global 500 and the world's leading financial institutions. Headquartered in London, IHS Markit is committed to sustainable, profitable growth.

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