

Energy Infrastructure and Market Database: European Gas and Power Module

Comprehensive infrastructure data for strategic analysis, investment planning, and decision support – Developed by IHS and CERA experts



The Source
for Critical Information and Insight™



In an increasingly liberalized European energy market timely access to continent-wide information is essential for success to both incumbent players and new entrants. Developed by IHS in conjunction with CERA, the Energy Infrastructure Database: European Gas and Power Module meets this business imperative.

The fast pace of integration in European energy markets creates a set of challenges and opportunities in an environment where the thorough understanding of the system-wide dynamics is essential to decision-making. However, despite increasing liberalisation and transparency mandates, comprehensive infrastructure information remains a challenge – ready access to this information is a distinct competitive advantage.

In this context, players and new entrants are faced with a number of questions that must be answered with increasingly rigorous knowledge of key market issues and related facts:

- When will new pipeline projects from Africa and the Caspian provide increased supply diversity for Europe?
- Who will have access to new LNG regasification capacity?
- Will planned gas storage investment moderate the market impact of seasonal demand fluctuations?
- How will infrastructure access affect fuel selection for power generation at a specific site?
- Where will renewables-based projects have the greatest impact on gas usage in power generation?
- What is a competitor's infrastructure ownership position in a target market?

CERA's European Advisory Services continuously help clients answer these questions – drawing on its own proprietary datasets and the IHS comprehensive E&P and Energy Infrastructure databases. Now, this critical information has been assembled by IHS data experts under CERA's guidance into a new tool that will assist clients by providing unmatched understanding of the impact of infrastructure developments in the European marketplace.

The IHS European Gas and Power Module's unmatched content provides:

European Natural Gas Pipelines:

- Type of pipeline
- Operating company
- Route
- Length
- Diameter
- Looping by segment
- Online date
- Entry/Exit Node capacity
- Import capacity
- Export capacity
- Throughput

European Natural Gas Storage:

- Type of storage
- Operating company
- Maximum working gas volume
- Total cushion gas volume
- Total gas volume
- Peak withdrawal capacity
- Injection capacity
- Number of storage wells
- Installed compressor power MW
- Maximum and minimum line pressure

European LNG Regasification Facilities:

- Ownership structure and operating company
- Capacity holders and capacity shares
- Gas send-out capacity
 - Average daily
 - Maximum daily
- Number of tanks
- Storage capacity
- Technology
- Vaporizers number
- Capital and operating costs
- Regasification tariffs
- Ship size limits
 - Berth
 - Draft
- LNG supplier

European Natural Gas Contracts:

- Supplier
- Customer
- Contract status
- Contract start & end dates
- Actual gas purchased
- Minimum contract level
- Maximum contract level
- Contract price terms

Gas Distribution Structures:

- Ownership structure
- Gas pipeline and LNG supply profile:
 - Time period
 - Purchase volume
 - Maximum (contract volume if applicable)
 - Minimum (contract volume if applicable)
 - Offtake
- Gas customer profile:
 - Customer type
 - Number
 - Time period
 - Sales volume

European Power Plants:

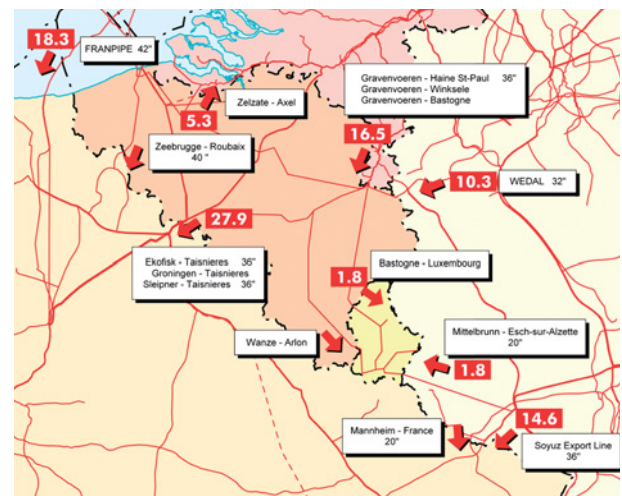
- Plant type
- Ownership structure
- Capacity by unit
- Type of turbine by unit
- Primary/alternative fuel by unit
- On-line year by unit
- Status
 - Regulatory
 - Operational
 - Fuel supply contracts

Industrial Facilities

- Plant type
- Plant capacity

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

- How far are fuel sources from a planned power plant site?
- What are the different pipelines linking a potential customer?
- Where are new competitive projects located?
- Where are system bottlenecks?
- What is the market potential in a specified region?



Belgium cross-border pipeline capacities



Northeast Spain gas market infrastructure

Decision Support

Key areas of decision support provided include:

- Supply Planning – For key sources of natural gas piped into Europe from the CIS and North Africa, what are the prospects for increased imports and what additional transit flexibility is needed within Europe? 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? What are the prospects for electricity exports by country based on capacity kit?
- 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 IHS Infrastructure Database is global in scope.

Additional regional modules which can be made available upon request include:

- CIS
- North Africa
- Sub-Saharan Africa
- Middle East
- Latin America
- Asia-Pacific

CERA's Advisory Services

CERA's flagship advisory services, European Gas and European Power, offer decision makers clear and comprehensive analysis on the future energy landscape and the challenges posed by the emerging competitive environment in Europe. The focus is on market fundamentals, the impact of EU and national policies, the changing industry structure, and strategic responses by key players in the market. The European analysis covers Western Europe, Central Europe, the Mediterranean Basin, and Turkey.

Access to the European Gas and Power Module can also be coupled with membership in CERA's European Advisory Services.



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