



EUROPEAN GAS SERVICE RELEVANT PROJECT EXPERIENCE

The following are examples of projects undertaken using our European Gas Model

Contract Title: Development of a Strategy towards opportunities in the Downstream European Gas industry

Country: Western Europe

Client: A European Oil and Gas Company

- EML assisted the client with several aspects of Strategy related to the Downstream European Gas industry
- The European gas Model was used to identify potential opportunities to invest in transmission projects.
- The supply chain was also analysed in key countries to identify how economic rent is taken between supply at the border and end users

Contract Title: Projections of Gas Flows and Investment Opportunities

Country: Germany and Benelux

Client: A European Gas Transmission System Operator

- The client required an understanding of cross border capacity and utilisation in Germany, Netherlands and Belgium
- EGM was used to identify congested cross border points
- Projections were also made of changes in future flow patterns to identify potential investment opportunities

Contract Title: Gas Flows and Capacity Requirements at Entry and Exit Points

Country: Europe

Client: A European Gas Transmission System Operator

- The client required projections of gas flows and capacity requirements at entry exit points resulting from Third Party Access and gas transit
- EGM was adapted to include the entry exit points of the client's system.
- Three scenarios were constructed describing the factors likely to influence requirements for flows to the domestic market and for exports and transits to other European countries.

Contract Title: Development of a Market Model for NW Europe

Country: UK, Ireland, Belgium, Netherlands, Germany

Client: New entrant to the gas trading market

- Developed a gas model for the clients use. The model can be used to study how gas supply, demand, contracts, infrastructure and costs interact under different scenarios.

- The model utilises the essential algorithm and techniques of the European Gas Model but was tailored to the client's specific needs and focuses in more detail and fewer countries than the EGM.

Contract Title: Development of the UK Market

Country: UK,

Client: New entrant to the gas trading market

- Detailed market study of the UK gas market covering supply, demand and transportation and storage aspects.
- The projections were used to populate a market model which EML developed for the client

Contract Title: Gas Supplies from Russia and the FSU

Country: Europe

Client: US Energy Company

- The European Gas Model was used to study prospective flows through the gas transit routes from Russia and other FSU countries to Europe under a range of scenarios.
- The study supported the client's consideration of investment opportunities in the transit pipelines.

Contract Title: Development of the Italian Gas Market

Country: Italy

Client: Power Generation Company

- Report and presentation on the Italian Gas Market and Outlook. The report covered Gas demand, supply, imports, infrastructure, physical flows and transportation tariffs
- The review included both input and output material from runs of the European Gas Model

Contract Title: Prospects and Transportation routes for Russian Gas

Country: Europe

Client: Russian Independent Gas Supplier

- The study considered prospect for a sales of gas to Europe for an independent supplier.
- The report covered gas demand, market shares supply, imports, infrastructure, physical flows and transportation tariffs across Europe as a whole and each of 25 European countries.
- The review considered a 20 year time horizon.

Contract Title: The role of LNG in the European gas market to 2021

Country: Europe

Client: US Oil and Gas Producer

- A number of runs of the European Gas Model were undertaken on behalf the client.
- The report considered the role of LNG in the European market and how it will compete with gas delivered by pipeline in a competitive market

- The impact of commoditisation of the LNG market was considered, including arbitrage with US markets.

Contract Title: North West European Transmission Pricing

Country: UK, Belgium, Netherlands, Germany

Client: Two UK based Energy Traders

- For two separate UK gas and electricity suppliers, we analysed transmission pricing and the costs of delivered gas supply to customers in North West European markets, taking account of UK gas costs, UK-Belgium Interconnector tariffs, Belgian transit charges, and Dutch and German transportation charges. We derived the costs of delivered gas to city gate points;
- We also carried out a review of the industrial and regulatory background to gas supply in North West Europe, including the impact of the European Gas Directive, the Energy Charter Treaty, national regulations and the major markets

Contract Title: Dutch Gas Price Forecasts

Countries: Holland

Client: An Energy Company

- 15 year price forecasts were prepared for gas delivered to Dutch power plants.
- Project reviewed alternative pricing scenarios from gas-on-gas competition to continuing linkage to oil prices in gas supply contracts.

Contract Title: Opportunities in the SW Europe LNG Market

Countries: SW Europe

Client: An Energy Company

- Provide gas price forecasts for SW Europe in support of a project for a client developing an LNG project in W Africa.

Prices were based on output from the European Gas Model with sensitivities to a range oil price assumptions.

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