



ECONOMIC AND FINANCIAL CONSULTANCY FOR ENERGY PROJECTS

WWW.RAMBOLL-OILGAS.COM

RAMBOLL

ECONOMIC AND FINANCIAL CONSULTANCY FOR ENERGY & INFRASTRUCTURE PROJECTS

RAMBOLL ENSURES HIGH END CUSTOMER VALUE THROUGH STRONG COMPETENCES AND WORLD CLASS RESULTS

The global energy market currently experiences major changes driven by factors such as opening of free markets, supply-security concern, and the deployment of renewable energy.

Ramboll Oil & Gas plays a key role in helping a long list of prominent clients worldwide to make better choices by bridging between the various project stakeholders.

The combination of economic and technical know-how enables Ramboll to evaluate a wide range of energy and infrastructure related projects over the entire value chain to actual implementation.

The projects are being executed in close collaboration between our economists and financial specialists and the client, which fosters tailor-made solutions for specific conditions.

From ideas to tangible projects

At the early stages Ramboll transforms ideas into tangible projects through conducting detailed market analyses; cost/benefit analyses and regulatory analyses. This gives the client the opportunity to prioritise the

alternatives and gain a thorough insight into the key challenges of the project.

Ramboll's analysis of the development and trends of the energy sector in the specific country or region is the key issue to establish relevant scenarios and evaluate possible outcomes. The analysis sets boundaries and identifies the key parameters for the technical development, project concept and for economic and financial analysis.

The economic analysis identifies the cost effectiveness of the project and potential economic returns. Ramboll conducts cost benefit analyses to demonstrate that a project contributes positively to the society as a whole.

Preparing for investment decision

As the Final Investment Decision (FID) approaches, Ramboll's economists take the analysis one step further, encompassing more details and supported by a number of analytical tools. The objective is to ensure that the investor is able to achieve a satisfactory return compared to the risk taken.

Ramboll conducts quantitative research via complete financial modeling of the asset and its surrounding structure as well as the other computational techniques that provide two main evaluation criteria: costs required and value to be obtained.

The development of the business plan reflects the full range of organisational, technical, commercial and financial aspects associated with the project. It is usually a result of a detailed feasibility study in combination with thorough risk assessment, and analysis of tariff structure, price forecasts and funding analysis.

Commercial deployment

As the project materialises into a real asset, the investor needs to take a number of decisions in order to harvest the value from the investment as estimated.

Ramboll provides advisory service in connection with project/asset organisational and ownership structure for development of strategic infrastructure investments.

These services include assessment of the relative advantages of

various ownership forms including establishment of dedicated Special Purpose Vehicles (SPVs) and related implications for project financing and procurement.

Ramboll provides expert consultancy in connection with the full range of procurement and financing options, from traditional procurement/balance sheet financing to various Public Private Partnership (PPP), joint venture arrangements and related project finance solutions.

Project management

At Ramboll, we take a holistic and tailored approach towards project management. Our goal is to organise human resources so that every project is completed within the quality, time and budgetary constraints agreed upon with our clients.

At any stage corresponding decision gates are included in order to ensure that project owners can base their timely decisions on sufficient information.

Selected references

- Socio-economic analysis of the potential cost and benefits of the

natural gas connection to the Norwegian up-stream system for the Danish gas TSO

- Gas market analysis, portfolio strategy and peer group review for Swedish utility

- Security of supply analysis for the Danish and Swedish natural gas system

- Gas sector analyses for the Baltic Energy Market Interconnector Plan to ensure security of gas supply in the region

- Development of market regulations to improve operation and competitiveness of the market

- Study of issues related to energy security including geopolitics, economic/regulatory and technical design of energy markets in- and outside EU

- Financial Due Diligence for private sector investors and financing institutions in connection with strategic energy and utility infrastructure projects

About Ramboll

Ramboll Oil & Gas is a business unit of the Ramboll Group, a leading European engineering consultancy employing close to 10,000 highly qualified experts with a strong presence in Northern Europe, Russia, India and the Middle East. As a knowledge based company, our most important asset is human resources and our know-how. With 200 offices in 23 countries, we emphasise local experience combined with a global knowledge base.

Ramboll's experienced economists and financial specialists have broad experience in financial modeling, business planning, feasibility studies, tariff structure advisory, price forecasts, funding analysis and technical and financial due diligence.

Contact

Jack M. Kristensen
Department Director, Studies and Planning
Ramboll Oil & Gas
Tel. +45 5161 5670
Email: jckk@ramboll.com

ECONOMIC & FINANCIAL SERVICES

EARLY STAGE

- Market analysis
- Cost/benefit analysis
- Policy studies
- Portfolio strategy

INVESTMENT DECISIONS

- Due diligence support
- Financial modeling
- Commercial feasibility study

- Tariff structure
- Funding analysis
- Financial/commercial risk assessment
- Project ownership/organizational arrangements
- Procurement support/advisory

DEPLOYMENT

- Business plans/models
- Portfolio model/tools
- Sourcing assistance
- Project management



Strong competences and a drive to deliver world class results ensure high end customer value