



# Oil and Gas Services

ICF International's oil and gas practice supports both public and private sector clients by providing economic and technical services and policy analyses that enhance their ability to make informed strategic and resource development decisions. Our analyses and technical services cover all aspects of the domestic and international oil and gas industry.

Our multidisciplinary teams of accomplished professionals include engineers, economists, geologists, and policy analysts from industry and government. Thirty years of experience and commitment to our proprietary models enable ICF to help clients evaluate the complex dynamics of oil and gas markets and the impact of environmental policies on these markets and on business.

## Clients

### Private Sector

- Shell
- ExxonMobil
- BP
- Anadarko Petroleum Corp
- Citibank
- Petro-Canada
- Sempra Energy Resources
- Southern California Gas
- Westcoast Energy
- Carolina Power & Light
- TransCanada Pipeline

### Industry Associations and Nonprofit Organizations

- American Petroleum Institute
- Independent Petroleum Association of America
- Interstate Oil and Gas Compact Commission
- National Petroleum Council
- Petroleum Technology Transfer Council
- Gas Research Institute

### Public Sector

- U.S. Department of Energy
- U.S. Environmental Protection Agency
- U.S. Bureau of Land Management
- U.S. Minerals Management Service
- U.S. Department of Defense
- California Energy Commission
- New York State Energy and Research and Development Authority

## Services

- Strategy Development and Implementation
- Asset Valuation and Due Diligence
- Market Assessments and Forecasting
- Regulatory and Litigation Support
- Supply Assessments and Project Evaluation
- Emissions Protocol Development
- Emissions Auditing
- Government Services
- Environmental Services

## Sectors

**Upstream** - Develop and apply technology, economics, and reservoir models to analyze the impact of exploration and production technology, policy, and economics. Analyze crude oil availability in the future.

**Oil and Gas Pipelines and Storage** - Analyze the relative economics of seasonal storage, high deliverability storage, and expanded pipeline capacity. Perform due diligence on pipeline and storage projects. Assess vulnerabilities and bottlenecks.

**Downstream** - Forecast the impact of new environmental rules on refinery operations, industry costs, product supply, price, market impact, imports, and exports. Assess changes in market structures.

## Featured Solutions

- Assessed current and future markets for gas well stimulation services in the United States for an equipment supplier to the upstream industry.
- Completed a study of remaining coalbed methane resources and how the economics of production could be affected by possible water management rules in Montana and Wyoming.
- Provided report and testimony to Canadian utility regarding Western Canadian gas supply trends and other matters in support of its gas acquisition decisions and regulatory review.
- Completed a resource assessment and production forecast for the Green River and Powder River basins in support of a corporate decision to make additional investments in those areas.
- Provided testimony on southwest U.S. gas production trends and pipeline flows for a Midwest utility's rate case.
- Provided data processing of historical data and resource estimates to develop oil and gas supply assumptions for National Petroleum Council's 2003 gas study.
- Investigated transportation options for natural gas that could be produced from the Canadian Grand Banks.
- Assessed "future gas" sources, including the potential for new drilling and completion methods such as horizontal and multilateral "pinnate drilling" to increase domestic natural gas supplies. The study also included an analysis of the economics of making synthetic natural gas from underground gasification of minable and unminable coals.
- Developed an operating cost model of existing onshore and offshore oil and gas wells. The model characterizes all existing wells by depth and production volume and is used to develop operating cost curves by type of property and region.
- Technical and analytical support for oil and gas environmental issues for the American Petroleum Institute.
- Greenhouse gas emissions reduction assessment and environmental compliance database for BP.
- Greenhouse gas emissions protocol and inventory tool for TNK/BP.
- Greenhouse gas emissions inventory for Gaz de France.
- Greenhouse gas emissions audits for Petrobras.
- Review of oil and gas exploration and production waste practices in the United States for the American Petroleum Institute.
- Gas supply scenario analysis for U.S. and Canadian producers and transporters.
- Market assessment for high deliverability gas storage in the U.S. Northeast for a developer and service company.
- Forecast of CO<sub>2</sub> recovery potential in the Permian Basin under various cost/price scenarios for Mobil, Shell, and others.
- Feasibility studies for converting northeastern and southeastern gas production fields into gas storage facilities for regional gas storage and producing companies.
- Assessment of liquefied natural gas storage options for an east coast local distribution company.
- Analysis of gas supply options for a major Midwestern combination utility.
- Monitored cogenerator's gas purchase agreements for an international consortium of major commercial banks.
- Market assessment for the Kern River pipeline for the Kern River Transmission and Rockies producer.
- Due diligence review of gas supply, transport, and storage arrangements of the West Windsor Power Project for Citibank and Banque Nationale de Paris.
- Due diligence review of the Maritimes and Northeast Pipeline Project for an international consortium of commercial lenders.

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## About EEA and ICF International

Founded in 1974, EEA has exhibited leadership and innovation in analyzing energy and environmental issues for a wide range of industry, government, and nongovernmental organization clients. Like ICF, EEA brings strong analytics and proprietary models to its engagements. Together, EEA and ICF provide expanded capabilities to serve commercial and government energy market participants with unparalleled analyses of natural gas supply, transportation, and market issues; automotive and transportation technology; environmental regulations and policy; and distributed generation/combined heat and power markets and technologies. Experienced professionals from both firms also provide superior strategic planning and regulatory support to all segments of the natural gas industry, which augments ICF's traditional strengths in energy modeling, electric power, transmission, emissions markets, energy efficiency, and water markets.

ICF International (NASDAQ: ICFI) partners with government and commercial clients to deliver consulting services and technology solutions in the energy, environment, transportation, social programs, defense, and homeland security markets. The firm combines passion for its work with industry expertise and innovative analytics to produce compelling results throughout the entire program life cycle, from analysis and design through implementation and improvement. Since 1969, ICF has been serving government at all levels, major corporations, and multilateral institutions. More than 2,000 employees serve these clients worldwide. ICF's Web site is [www.icfi.com](http://www.icfi.com).

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