

# **The Technical–Economic Investigation of LNG Projects and Natural Gas in the South Pars Gas Complex Based on Cost–Benefit Model**

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## **Abstract**

Natural gas is one the most important resources of consumption in the world and it is expected that the process of consuming this fuel increases in a way that with the entry into the year of 2020 AD, its consumption rate increases by 50%. Over the course of time, different technologies have been tested on the use of natural gas which have resulted in focusing on natural gas as a superior fuel in this century. With regard to the forward planning for rising the extraction of natural gas from the South Pars reservoir, two main methods for producing valuable products from natural gas has been at the core of the executive programs of the ministry of petroleum of IRAN. Production of natural gas and production of liquefied natural gas. Evaluating the success of an LNG liquefaction project is a difficult task. Historically, LNG projects have proven to be reliable, profitable, safe, and challenging. However, projects are inevitably compared by their overall cost and LNG capacity. For this purpose, two criteria has been used: Net Present Value and Benefit Cost Ratio. As this study reveals, not all countries could be potential markets for LNG.

## **Keywords**

Natural Gas, LNG, Cost – Benefit model, South Pars

## **Biography**

**Mohammadreza Joulaie** is a Head of Production Control in the National Iranian Gas Company. He Earned B.S. in Chemical Engineering from Azad University of Engineering and Technology, IRAN, Masters in Chemical Engineering (Biotechnology) from Sharif Technological University and Azad University of science & Research University, IRAN. He Has Published Journal and Conference Papers. He Has Done Research Projects with Sulphur, LNG and Industrial Biotechnology. He is Member of AOTS (Association for Overseas Technical Scholarship of JAPAN), ACHE (Association of Chemical Engineering of IRAN).