

Analysis of the U.S. Liquefied Natural Gas Exports in Natural Gas Global Markets

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Natural gas is expanding its worldwide market share and the shale gas availability in the U.S. indicates the potential for gas exports. In fact some contracts are already in place for gas exports from the country.

But what are the favorable market conditions and how geopolitical or environmental regulations and preferences affect the potential for exports? How shale gas production in China impacts the natural gas global markets?

To answer these questions a World Gas Model (WGM) developed in the University of Maryland was used. WGM a large-scale game theoretic model was extended and modified to capture the effects of the U.S. and the Chinese shale gas availability and the impact of carbon cost policies on natural gas global markets. Several case studies were conducted and the results were supplied to local and international clients.

The presentation will illustrate non-confidential results from case studies pointing on some interesting findings obtained from WGM. It will also discuss the potential of future work and benefits of World Gas Model compared to other existing decision-support models.

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