

Название публикации:

Selecting efficient option for marine transportation of natural gas

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Аннотация:

The article considers natural gas transportation options (offshore pipelines, LNG tankers (LNG – Liquefied Natural Gas) and CNG carrier ships (CNG – Compressed Natural Gas)) as well as presents comparative production and economic data characterizing the usage pattern of LNG and CNG carriers. The authors reveal advantages of marine transportation of compressed gas using special CNG ships. The article describes also economic and mathematical model to appraise capabilities of marine transportation of natural gas for various distances at various consumption volumes. The model is based on estimating the minimum cost of natural gas transportation with due account for discounting. The authors recommend conducting calculation of the minimum cost using the method of statistical testing according to the developed algorithm for solving this problem. Practical results are analyzed in tabular and graphical form.

Ключевые слова:

Liquefied Gas, Method Of Statistical Testing, Minimum Price, Triangular Distribution, Zone Of Effective Use