Lecture Note of Design Theories of Ship and Offshore Plant

Design Theories of Ship and Offshore Plant Part I. Ship Design

Ch. 2 Introduction to Offshore Plant Design

Fall 2015

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Natural Gas (NG)

☑ Natural Gas

- Hydrocarbon gas mixture consisting primarily of methane (CH₄)
- Clean energy for preventing environmental pollution ⇒ Used for all fields of home, commerce, transportation, industry, etc.
- Providing about ¼ of energy consumption of the world ⇒ It will be continuously increased.

☑ Special Features

- Liquefied at -162°C under atmospheric pressure → Liquefied Natural Gas (LNG)
- When liquefied, the volume becomes 1/600. → Reason why we carry NG as LNG

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