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LNG LIQUEFACTION PROCESS SELECTION: ALTERNATIVE REFRIGERANTS TO REDUCE FOOTPRINT AND COST .  
Russell H. Oelfke . Robert D. Denton. Michael R. Miller . ExxonMobil Upstream Research Company . 1 ABSTRACT This paper describes recent work at ExxonMobil Upstream Research Company to identify novel refrigerants

LNG LIQUEFACTION PROCESS SELECTION: ALTERNATIVE ...

LNG Liquefaction Process Selection: Alternative Refrigerants to Reduce Footprint and Costs Russell H. Oelfke, Robert D. Denton, and Michael R. Miller, ExxonMobil Upstream Research Company; LNG Regasification — Technology Evaluation and Cold Energy Utilisation Randeep Agarwal and Meisam Babaie, Queensland University of

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- Process related accidental hydrocarbon releases (both of refrigerants and partially processed natural gas or LNG) are also considered to be key safety risks.
- Control of process related hazards (for instance, mechanical integrity of process equipment, ignition source control systems, and explosion overpressure) require more robust designs and operating systems.

Liquefaction technology selection for offshore FLNG projects

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### Process Equipment Handbook For Lng

Liquefaction process selection is a key activity that starts at an early stage of an LNG project. It should be addressed at the conceptual, feasibility and pre-FEED stages of development, since it has such a large impact on the overall profitability of the project.

### Liquefaction technology selection for baseload LNG plants

Compared with the liquefaction process, the pyrolysis of biomass usually yields more gases. Hence, low biomass to solvent ratios will enhance the conversion of biomass and produce a high yield of bio-oil. However, too-low biomass to solvent ratios will lower the yield of bio-oil, which may be due to the formation of light fractions being enhanced at high solvent to biomass ratios [49,53]. Water is the important media in the process of biomass liquefaction.

### Liquefaction Process - an overview | ScienceDirect Topics

A knowledge-based decision-making method for the selection of mixed refrigerant systems for LNG processes developed by Khan et al (2013) will be applied as an alternative approach in selecting refrigerant compositions. The effect of variations in refrigerant compositions on the process will be investigated.

### Natural Gas Liquefaction Processes: Design and ...

Fig. 2 – C3-MR process scheme AP-X method, which is an evolution of C3-MR process to be applied for large liquefaction plants. The process is based on the integration of LNG sub-coolers with nitrogen coolant used according to the C3-MR method, without increasing the size of the main heat exchanger.

### LNG R&D for the Liquefaction and Regasification Processes ...

Large scale liquefied natural gas (LNG) plants are often too complex and costly, tying up capital and requiring several years of development before they 're operational. And they 're often located far from the point of use, adding transport time and cost. Small scale LNG plants are a powerful alternative for this growing market.

### Liquefaction Plants – Scandinavian Engineering Group

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Liquefied natural gas (LNG) is natural gas (predominantly methane, CH<sub>4</sub>, with some mixture of ethane, C<sub>2</sub>H<sub>6</sub>) that has been

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cooled down to liquid form for ease and safety of non-pressurized storage or transport. It takes up about 1/600th the volume of natural gas in the gaseous state (at standard conditions for temperature and pressure). It is odorless, colorless, non-toxic and non-corrosive.

Liquefied natural gas - Wikipedia

The selection of liquefaction technology and refrigerants plays a key role in optimizing process efficiency while minimizing costs in LNG plants. Large baseload LNG export facilities incorporate a precooling refrigeration cycle as a proven means to increase both overall liquefaction energy and cost efficiencies.

LNG plant optimization with ammonia precooling

Feedstock gas then enters the liquefaction unit where it is cooled to between  $-145^{\circ}\text{C}$  and  $-163^{\circ}\text{C}$ . Although the type or number of heating cycles and/or refrigerants used may vary based on the technology, the basic process involves passing the gas through aluminium heat exchangers (cold box) and exposure to a compressed refrigerant.

Basic Liquefaction Process - FLNG RUS

brief review of the results and a few pictures of the process are also included. LNG Liquefaction Plant. 2 All of these LNG facilities were designed and built in the mid 1970 ' s to liquefy pipeline quality natural gas, with a CO<sub>2</sub> content of less than 1%. The Liquefied Natural Gas, LNG is then stored for use during the

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