

This abstract will be presented during LNG2023 conference on 10-13 July in Vancouver, Canada among many other innovative projects, ideas and outlooks. LNG2023 will provide a unique platform for the global LNG industry and key stakeholders to discuss, debate, and showcase the latest industry developments and opportunities.



## LEAD AUTHOR

**HYUK KWON**

Principal Researcher, Hanwha Ocean

## CO-AUTHORS

Du-Hyeon Cho

Principal Researcher, Hanwha Ocean

Pil-Geun Kim

Principal Researcher, Hanwha Ocean

Soonkyu Hwang

Principal Researcher, Hanwha Ocean

## FEASIBILITY STUDY ON 'LNG/NH3 FSPP (FLOATING STORAGE POWER PLANT) WITH INSTALLED NH3 GAS TURBINES' FOR SUPPLYING NATURAL GAS AND GREEN ELECTRICITY

Globally, many nations and companies hope to use carbon-neutral energy to deal with strong eco-friendly policies such as "The Paris Agreement", "ESG (Environmental, Social, Governance)" and "RE100 (Renewable Electricity 100)".

According to the recent trend, the reviewing and developing projects for carbon-neutral energy using "Green Ammonia (NH3)" are increased dramatically everywhere in the world. For example, some companies in Japan and Singapore in 2022 were announced 2 joint research projects and Memorandums of Understanding (MOU) on the possibility of supplying carbon-neutral electricity using "100% Ammonia-Fired Gas Turbines" for some area of Singapore.

Authors working for Hanwha Ocean think also green electricity based on ammonia gas turbines can be one of the potential solutions to become "CO2 Neutral Society" in the near future. In this presentation, we would like to introduce the main results of "Feasibility Study on 'LNG/NH3 FSPP (Floating Storage Power Plant) with Installed NH3 Gas Turbines' for Supplying Natural Gas and Green Electricity". Our goal for this study is to identify the competitiveness and possibility of "LNG/NH3 FSPP (w/NH3 Gas Turbine)" compared with onshore potential solutions via technical, economic and regulatory analysis.

To view the full conference agenda, visit <https://www.lng2023.org/lng-programme-overview>