

Press Information

September 24, 2024

Nikkiso Clean Energy & Industrial Gases Group and GTT Announce Partnership to the System for LNG-Fueled Ships

Nikkiso Clean Energy & Industrial Gases Group ("CE&IG Group"), part of Nikkiso Co. Ltd.'s Industrial division, and GTT announced they have entered into a partnership on the Re-liquefaction system for LNG-fueled ships. By integrating GTT's patented Recycool™ into CE&IG Group's fuel gas supply systems, it can help improve fuel efficiency and reduce greenhouse gas (GHG) emissions. First of all, they received the order for 10 LNG-fueled container ships.



GTT is a tank engineering company that has strength in membrane-type LNG carriers. Recycool™ is the system which cools and re-liquefies boil-off gas (BOG) generated by the vaporization of LNG in fuel tanks. Re-liquefaction of BOG reduces GHG emissions by minimizing unwanted emissions of LNG.

CE&IG Group designs, manufactures, and sells high-pressure fuel gas supply systems that combine pumps and other equipment to supply LNG from fuel tanks to engines. The cold energy from this system is used in the cooling of Recycool™ to make the operation of the re-liquefaction system more efficient.

“Our partnership with GTT and complementary expertise advances the growth of both companies in the LNG-fuelled shipping market,” said **Nikkiso Clean Energy & Industrial Gases CEO Adrian Ridge**. “This strength is evidenced by the first large order for 10 container ships, and we expect more awards in the future.”

Jean-Baptiste Choimet, Chief Executive Officer of GTT, stated: "I'd like to thank the Nikkiso team for their support and collaboration. With GTT's expertise in reducing boil-off rates through our membrane technology, the Recycool™ system now provides LNG-fueled vessels with effective solutions for managing boil-off and lowering their carbon footprint. The adoption of Recycool™ by leading Chinese and Korean shipyards reflects the industry's trust in this solution."

In addition, Recycool™ has received the world's first Approval in Principle (AiP) for this type of system from ClassNK in March 2023.

About Nikkiso Clean Energy & Industrial Gases Group

The Nikkiso Clean Energy & Industrial Gases Group is a leading provider of cryogenic equipment, technologies and applications for clean energy and industrial gas market segments. The Group employs more than 1,700 people in 22 countries and is headed by Cryogenic Industries, Inc. in Southern California, U.S., which is a wholly owned subsidiary of Nikkiso Co., Ltd. (TSE: 6376).

About Nikkiso

Since its establishment in 1953, Nikkiso has contributed to solving social issues by anticipating the changing times with world-first and Japan-first technologies and products. In the industrial business, Nikkiso has created new markets by developing products in the energy field, hemodialysis-related products in the medical business, and CFRP (carbon fiber reinforced plastic) aerostructures in the aerospace business.

Company Name:	NIKKISO CO., LTD.
Head Office:	YebisuGardenPlaceTower22nd Floor,4-20-3,Ebisu,Shibuya-ku,Tokyo 150-6022, Japan
Date of Establishment:	December 26, 1953
President & CEO:	Toshihiko Kai
Business Overview:	Nikkiso provides specialized pumps and systems in the Industrial Business, CFRP (carbon fiber reinforced plastic) aircraft parts in the Aerospace Business and hemodialysis related products in the Medical Business.
URL:	https://www.nikkiso.com/

For inquiries, please contact:

PR Section, Corporate Planning Department,
Corporate Planning Division, NIKKISO CO., LTD.
E-mail: nikkiso-pr@nikkiso.co.jp