



August 26, 2025

Launch of “Green Liquid Nitrogen,” Japan’s First Third-Party Certified CO₂-Free Gas

Taiyo Nippon Sanso Corporation (President: Kenji Nagata; hereinafter, “TNSC”), a Japanese industrial gas business company in the Nippon Sanso Holdings Group, has concluded an off-site corporate PPA (Power Purchase Agreement) with Mitsubishi Corporation Clean Energy Ltd. (President & CEO: Takao Fujii) to procure renewable-energy-derived electricity on a long-term basis. Using this electricity, TNSC will launch sales of “Green Liquid Nitrogen,” the first CO₂-free gas in Japan to obtain third-party certification.

TNSC will continue to contribute to realizing a carbon-neutral society by introducing renewable energy and supplying products that help reduce environmental impact.

1. About Green Liquid Nitrogen

Green Liquid Nitrogen achieves net-zero CO₂ emissions by offsetting the CO₂ generated during the production and transport of liquid oxygen, liquid nitrogen, and liquid argon through the use of electricity derived from renewable energy. To ensure the validity of CO₂ reduction calculation rules and operating procedures, certification has been obtained from a third-party certification body that references international standards.

Name: Green Liquid Nitrogen*

Applicable products: Liquid oxygen, liquid nitrogen, liquid argon (delivered by tank truck)

Sales launch: August 2025

Supply area: All regions of Japan except Hokkaido and Okinawa

Note: Although the applicable products are liquid oxygen, liquid nitrogen, and liquid argon, which are produced simultaneously through air separation, the product group is collectively referred to as “Green Liquid Nitrogen,” as nitrogen is the most abundant component in air (about 78%) and accounts for the majority of demand.

2. About the Off-site Corporate PPA (Power Purchase Agreement)

Under this agreement, TNSC will procure electricity on a long-term basis from a newly constructed onshore wind power plant, securing renewable energy with additionality.

Contract Overview

Contracting party	Mitsubishi Corporation Clean Energy Ltd.
Estimated annual power generation:	Approx. 14 GWh
Environmental value transaction:	Non-FIT non-fossil certificates
Additionality:	Yes



A newly constructed onshore wind power plant

Taiyo Nippon Sanso Corporation

Tnsc.Info@tn-sanso.co.jp