



January 26, 2023

Supporting Toyota Motor Corporation's Carbon Neutral Initiatives in Thailand with Hydrogen Supply

Taiyo Nippon Sanso Corporation (President: Kenji Nagata; hereinafter "TNSC"), a Japanese industrial gas business company in the Nippon Sanso Holdings Group, supports hydrogen utilization promoted by Toyota Motor Corporation (Head Office: Toyota City, Aichi Prefecture; President, Member of the Board of Directors (Representative Director): Koji Sato; hereinafter "Toyota") in Thailand to achieve a carbon neutral (hereinafter "CN") society. TNSC will continue to engage in activities to build a CN society.

[Overview of support in Thailand]

Our support for Toyota in Thailand includes the following:

1) Hydrogen supply to FC trucks in demonstrative experiments in logistics

As part of its commitment to CN in Thailand, Toyota is conducting demonstrative experiments to improve logistics efficiency under the three themes of "data," "mobility," and "energy." Toyota has been experimenting with various forms of mobility under its "multi-pathway" concept; TNSC provides hydrogen for FC trucks and supports the experiments in collaboration with Nippon Sanso (Thailand) Co., Ltd., a member of the Nippon Sanso Holdings Group.

We supply hydrogen directly to FC trucks through our self-developed "Hydro Shuttle," a package-type hydrogen refueling station that can fill and supply hydrogen. The Hydro Shuttle is a mobile hydrogen station. By integrating the four main components of a hydrogen station (dispenser, pre-cool heat exchanger, hydrogen gas booster, and C-FRP vessel) into a single unit, we simplified the structure of each component.



Hydrogen supply by Hydro Shuttle (left)

2) Hydrogen supply to a hydrogen-powered vehicle in a 10-hour endurance race

The IDEMITSU SUPER ENDURANCE SOUTHEAST ASIA TROPHY 2023 (a 10-hour endurance race) was held in Buriram, Thailand, on December 22-23, 2023, in which a Toyota's hydrogen-powered Corolla "ORC ROOKIE GR Corolla H2 concept" running on hydrogen gas was entered. With the cooperation of Nippon Sanso (Thailand) Co., Ltd, we supplied hydrogen to the vehicle and supported it until it completed the race.



TNSC supplied hydrogen to the hydrogen-powered Corolla in a 10-hour endurance race

【Company Overview】

Taiyo Nippon Sanso Corporation

Business description: Manufacture and sale of various industrial gases such as oxygen, nitrogen, argon, LP gas, gas for medical uses, and specialty gases, manufacture and sale of welding equipment and materials, gas-related devices, and, air separation equipment, assembly, processing, inspection of electrical components, and equipment maintenance

Established: October 30, 1910

Incorporated: February 4, 2020

Capital: 1.5 billion yen

Shareholder: Nippon Sanso Holdings Corporation (Investment ratio: 100%)

Revenue: 420.4 billion yen*

*Note: This figure shows the revenue of Japan for Nippon Sanso Holdings Corporation in FYE2023

Taiyo Nippon Sanso Corporation

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