

**NEWS RELEASE****Teijin to Collaborate with JRCCN on Experiments Using Hydrogen Fuel Cell Generators for Emergency Power**

Tokyo, Japan, February 15, 2024 --- [Teijin Limited](#) announced today that it has entered into a collaboration agreement with the [Japanese Red Cross College of Nursing](#) (JRCCN) to perform experiments demonstrating the effectiveness of hydrogen fuel cell generators as an emergency power source during disasters.

Teijin plans to conduct the demonstration experiment in fiscal 2024 with the [Disaster Management Research Institute \(DMRI\)](#), an affiliated organization of the JRCCN that specializes in research on disaster relief activities.

The goal is to validate the effectiveness of hydrogen fuel cell generators as an emergency power source in enclosed spaces where it would be dangerous to operate gasoline or diesel generators. The experiments will consider optimal installation locations and ventilation methods in enclosed spaces such as homes and shelters. Teijin and the DMRI will also study the feasibility of using hydrogen fuel cell generators for charging backup power supplies dedicated to medical equipment, and identify any issues.

During natural disasters such as heavy rain or earthquakes that cause extended power outages, it is important to secure an emergency power source. Among the variety of generators used as emergency power sources, gasoline and diesel generators present the risk of poisoning from carbon monoxide gas emitted during operation, and also have issues with noise and odor.

Therefore, JRCCN has focused on hydrogen fuel cell generators, which do not emit harmful gases or odors and are quiet. To leverage this new technology for disaster relief efforts, JRCCN was looking into the practical use of hydrogen fuel cell generators.

Meanwhile, Teijin developed a fuel cell unit that functions as a portable hydrogen fuel cell generator, and a pressure vessel unit that supplies hydrogen to the fuel cell unit. These components are expected to be useful at a variety of sites, including construction sites and event venues. Teijin was looking for a partner to assist in conducting demonstration experiments for its fuel cell and pressure vessel units.

Through this collaboration with the JRCCN, Teijin expects to advance research and development on hydrogen fuel cell generators with the aim of improving the quality of life of disaster victims.

**About the Teijin Group**

Teijin (TSE: 3401) is a technology-driven global group with two core businesses: high-performance materials and healthcare solutions. Established in 1918 as Japan's first rayon manufacturer, Teijin today comprises some 170 companies employing 20,000

people in 20 countries. Through “Human Chemistry, Human Solutions,” Teijin relentlessly strives to aims to be a company that supports the society of the future by protecting the global environment and addressing the needs of people and communities. Teijin posted consolidated sales of JPY 1,018.8 billion (USD 7.6 billion) and total assets of JPY 1,242.4 billion (USD 9.2 billion) in the fiscal year ending March 31, 2023.

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