MIURA CO., LTD.

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MIURA Is Commencing a Survey on the Construction of a Hydrogen Supply Chain and the Creation of Added Value through Regional Industries and Tourism in Imabari City, Ehime Prefecture
[Project Selected by the Ministry of the Environment]

Industrial boiler manufacturer Miura Co., Ltd. (Tokyo Head Office: Minato-ku, Tokyo; President and CEO: Tsuyoshi Yoneda) will participate as a co-implementer in a project with Japan Environment Systems as the demonstration representative, together with Imabari City, the Ehime Prefecture Textile Dyeing Industry Association, Shikoku-Gas Co., Ltd., Takuma Co., Ltd., and Meiji Electric Industries Co., Ltd. Furthermore, Ehime Prefecture will act as an observer, while Imabari. Yume Sports Inc., Toyota Boshoku Corporation, Niterra Co., Ltd., and Mirait One Corporation will collaborate as supporting entities to jointly initiate a "Survey on the Construction of a Hydrogen Supply Chain and the Creation of Added Value through Regional Industries and Tourism in Imabari City, Ehime Prefecture" (below, "this project"). This project has been selected for the "Construction and FS[*1] of a Hydrogen Supply Chain Model Based on Renewable Energy Sources: 2025 Initiative for Strengthening Cost Competitiveness," solicited by the Ministry of the Environment.

The objective of this project is to construct a new hydrogen supply chain based on regional industries and tourism, using Imabari City in Ehime Prefecture as the examined target area. In addition to increased competitiveness through reducing manufacturing and supply costs, by absorbing decarbonization costs through added value creation and branding efforts, this aims to survey and examine models for achieving the social implementation of a hydrogen supply chain in regional areas.

*1 Abbreviation for "Feasibility Study," a preliminary investigation and examination into the feasibility of a project.

1. Overview of this project

(1) Purpose

- ○ To construct a regional hydrogen supply hub specializing in low-carbon hydrogen production and business/industrial applications around the Imabari City Clean Center, as well as to create hydrogen demand by leveraging large thermal needs from regional industrial factories, the tourism industry's mobility sector, and the public sector. For hydrogen distribution to the region, pursuing cost reductions through highly efficient supply using new-type containers and the adoption of innovative pipeline construction techniques, with the aim of realizing a model for social implementation of a low-carbon hydrogen supply chain originating in regional areas.
- ○ To evaluate both the possibilities for enhancing cost competitiveness by utilizing unused energy, new technologies, and overseas ammonia, as well as the potential for absorbing decarbonization costs through added value creation and branding based on regional specialties and tourism, and the feasibility of these measures.
- ○ Based on the above, to clarify requirements for the establishment of the project, and to construct a model that can be disseminated not only within Ehime Prefecture but also in other regional cities.

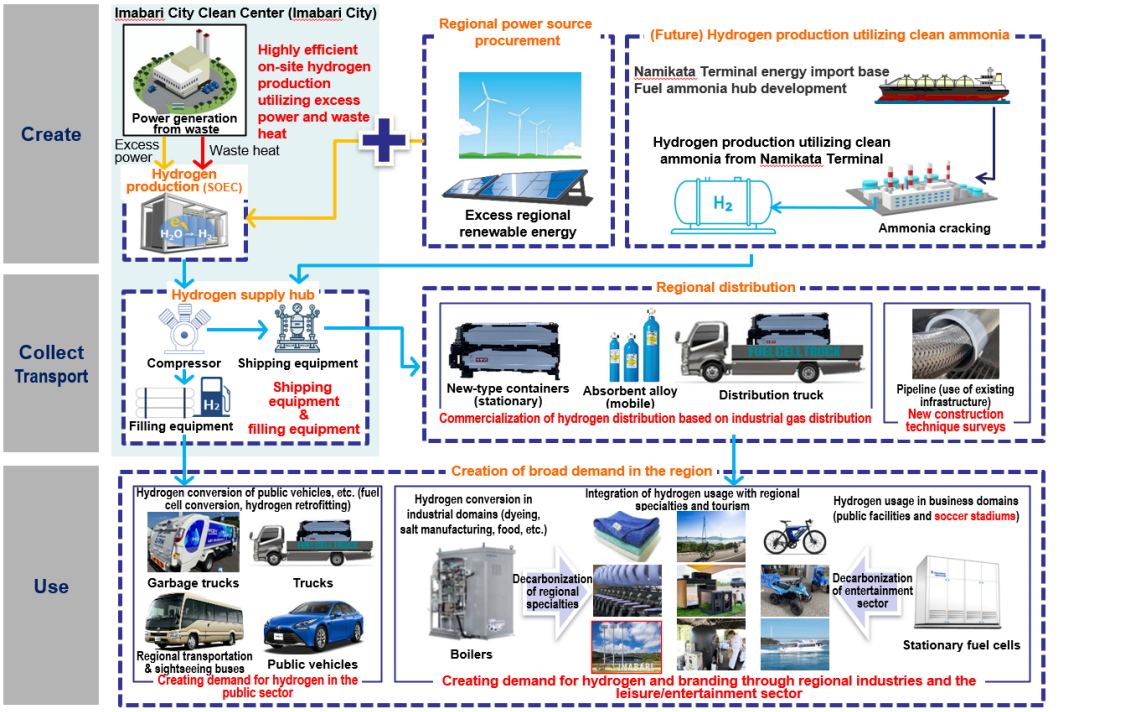
(2) Survey and examination details

Item	Overview
Create hydrogen	Survey the feasibility of producing highly efficient, low-carbon hydrogen using SOEC-type water electrolysis equipment*2 that utilizes unused energy (excess power and waste heat) at the Imabari City Clean Center, as well as possibilities for hydrogen production utilizing clean ammonia from Namikata Terminal. Study into SOEC will be with a view toward horizontal expansion to waste disposal sites nationwide.
Transport and collect hydrogen	Evaluate the feasibility of establishing a regional hydrogen supply hub focused on business and industrial applications using dedicated shipping and filling equipment in areas where fuel cell vehicle (FCV) use is not widespread, as well as the potential for cost reductions in hydrogen supply through the adoption of new-type containers and existing infrastructure (such as communication ducts) to facilitate hydrogen pipeline transportation.
Use hydrogen	Assess the potential for creating and expanding hydrogen demand through the introduction of hydrogen boilers in regional industries (such as dyeing, salt manufacturing, and food factories), and introducing small-scale hydrogen mobility solutions in the tourism sector and hydrogen mobility solutions in the public sector. Furthermore, by collaborating with regional "brands" such as Imabari towels and the Shimanami Kaido, verify how hydrogen utilization can further enhance brand value and verify a business model that shifts hydrogen costs onto prices. Additionally, aim to utilize hydrogen for power supply and mobility solutions in local soccer stadiums, and through PR activities, use these stadiums as platforms for decarbonization and information dissemination.

*2 Solid Oxide Electrolysis Cell: Equipment that uses ceramic membranes as electrolytes, electrolyzing steam at high temperatures (700°C) to produce hydrogen. The properties of water make it so that less energy is required for electrolysis at higher temperatures compared to lower temperatures, making it possible to reduce power consumption.

(3) Business graphic

*Areas within the dotted lines



(4) Implementation framework

*Order not indicative of priority

Representative	Japan Environment Systems	Overall project coordination, feasibility study for the entire supply chain
Co-implementers*3	Imabari City	Collaboration with local business partners, consideration of areas for expansion
	Ehime Prefecture Textile Dyeing Industry Association	Consideration of hydrogen boiler installation sites
	Shikoku-Gas Co., Ltd.	Consideration of the hydrogen distribution model
	Takuma Co., Ltd.	Consideration of hydrogen production at waste disposal sites
	Miura Co., Ltd.	Consideration of hydrogen boiler utilization
	Meiji Electric Industries Co., Ltd.	Engineering-related surveys
Observer	Ehime Prefecture	Collaboration with prefectural business partners, consideration of areas for expansion
Collaborators*4	Imabari. Yume Sports Inc.	Consideration of carbon-neutral branding, consideration of renewable hydrogen energy utilization
	Toyota Boshoku Corporation	Consideration of hydrogen bicycles
	Niterra Co., Ltd.	Consideration of hydrogen production equipment
	Mirait One Corporation	Consideration of regional renewable energy utilization

*3 Companies and organizations that will proactively conduct feasibility studies, etc.

*4 Manufacturers of hydrogen-related equipment to be introduced in the demonstration project, hydrogen consumer candidates, etc.

2. Future plans

FY 2025: Conduct a feasibility study looking toward model construction

FY 2026 to FY 2029: Implement a demonstration project based on the results of the feasibility study*5

*5 Application to and selection by the Ministry of the Environment for the demonstration project is required.

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