Project for Development of Innovative Technologies for Efficient Generation of Green/Blue Hydrogen (SATREPS)

PROJECT OVERVIEW

This project supports Uzbekistan's efforts to develop and promote hydrogen energy technologies as part of its transition toward a low-carbon economy. Japanese and Uzbek researchers are working together on several approaches: producing "green" hydrogen using solar energy and waste heat from industry, producing "blue" hydrogen from depleted oil fields while capturing carbon dioxide released. The project also works to improve solar cell technology suited to Uzbekistan's climate conditions. Alongside the research, it trains young Uzbek scientists and strengthens the country's research institutions, laying the groundwork for a future hydrogen industry.

PROJECT OBJECTIVE

The project aims to develop innovative technologies for efficient and cost-effective hydrogen production and strengthen research and technical capacity related to green and blue hydrogen technologies in Uzbekistan.

PROJECT OUTLINE

Project Duration

2024 - 2029

Implementing Agency

Uzbek-Japan Innovation Center of Youth (UJICY)

Japanese Research Partner

Kyushu University

Expected Impact

- Strengthened research and technical capacity in hydrogen energy technologies
- Development and demonstration of efficient green and blue hydrogen production technologies
- Promotion of clean energy solutions and reduction of greenhouse gas emissions
- Support for Uzbekistan's energy transition and low-carbon development goals