

[Technical Cooperation Project]

THE PROJECT FOR DEVELOPMENT OF INNOVATIVE TECHNOLOGIES FOR EFFICIENT GENERATION OF GREEN/BLUE HYDROGEN FOR REALIZATION OF CARBON-NEUTRAL SOCIETY WITH CONSIDERATION OF INDUSTRIAL AND ENVIRONMENTAL CHARACTERISTICS IN THE REGION

Project Goal: Conducting the empirical research and human resource development on cutting-edge blue/green hydrogen-related technologies that take advantage of Uzbekistan's geography, industrial structure, and environmental characteristics

- **Timeline:** 2024 May – 2029 June
- **Counterparts:** Uzbek-Japan Innovation Center of Youth, Ministry of Energy, Ministry of Higher Education, Science and Innovation
- **Target Groups:** Researchers and scientists from partner universities and research institutes

Key Activities:

1. Generation of the «Blue» hydrogen by in-situ catalytic steam reforming in waste oil reservoirs in Uzbekistan
2. Production of the «Green» hydrogen by low-temperature steam electrolysis using solar energy and waste heat from industry
3. Improving the power conversion efficiency and long-term operational durability of next-generation perovskite solar cells in environmental conditions of Uzbekistan
4. Synthesizing the novel photocatalytic composites for hydrogen production
5. Developing the next-generation's human resources who will lead the hydrogen society in Uzbekistan

[Links for more information]

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