Hydrogen energy storage laos

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Various ministries, including the Ministry of the Energy and Mines and the Ministry of Natural Resources and Environment, are beginning to explore ways to undertake feasibility and demonstration studies on the power-to-gas technology to produce hydrogen and methane fuels. At the same time, as a country with no existing source of natural gas within its borders, Laos currently lacks gas-related laws, regulations, and infrastructure to allow commercial use of hydrogen and methane produced via power-to-gas process.

The masterplan will serve as a map for further detailed and actionable roadmaps, strategies, and action plans to create regulations and other policy measures to support the development and management of production, storage, distribution, and usage of green gases produced via the power-to-gas technology, as well as other actions necessary to deploy the technology at a commercial basis, including conducting technical and commercial feasibility studies, piloting, and other relevant research activities as necessary.

This deal focuses on the construction of a green hydrogen and ammonia pilot plant located in Laos. The plant will have a production capacity of about 4,000 tons per year. TTCL is tasked with the engineering, procurement, and construction (EPC) responsibilities for the project.

The Laos-based plant will utilize a carbon-free innovative technology known as methane pyrolysis. This technology enables the production of hydrogen without releasing carbon dioxide, a major greenhouse gas. By leveraging this cutting-edge method, the plant will contribute to reducing carbon emissions and promote sustainable energy practices.

The project is expected to bring both economic and environmental advantages to Laos. It will create local job opportunities during construction and operation stages, while the use of green hydrogen can play a role in reducing reliance on non-renewable energy sources. Moreover, the project’s success could position Laos as a leader in renewable energy within the Southeast Asia region.

The Lao Government is currently in the process of drafting strategies to utilize hydrogen ammonia as a clean source of energy, partially replacing other sources of clean energy in Laos.

Deputy Minister of Energy and Mines Dr. Sinava Souphanouvong, presided over the third workshop on Energy Change for Using Hydrogen Ammonia Energy saying that the world is currently shifting towards hydrogen ammonia as a source of clean energy.

"Laos has the potential to produce energy from hydropower, solar energy, and wind energy. These energies can be converted into hydrogen to replace the use of fossil fuel…The use of this kind of energy will help to reduce pollution and support sustainable green development.," Dr. Sinava said.

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According to Dr. Sinava, energy transition, and hydrogen ammonia energy use in Laos will assist the country to devise short and long-term strategies around energy storage, safety, power generation, low-cost transport, heavy industry, agriculture, and mining.

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