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ReNew mulls Rs 26,400 crore green hydrogen project in Kerala: Report

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Synopsis
ReNew plans to invest Rs 26,400 crore in a green hydrogen project in Kerala. The project aims to produce 1,100 KTPA of green ammonia using a 2 GW capacity electrolyser powered by renewable energy plants. It will be executed in three phases, with a total capacity of 1,100 KTPA. The estimated timeline for each phase is between 36 to 42 months. The project is expected to employ 4,000 to 5,000 workers and aligns with India's National Green Hydrogen Mission.

Representative Image

ReNew is planning to invest Rs 26,400 crore for a green hydrogen project in Kerala, according to a report of ET Energy.

The 220-kilo-tonnes-per-annum (KTPA) green hydrogen project will be used to produce 1,100 KTPA of green ammonia, the report added. It will be powered by a 2 GW capacity electrolyser, which is 14,000 million units of power annually from 5 GW to 6 GW renewable energy plants, ETEnergyworld claimed quoting unnamed officials.

The proposed project, near the Vizhinjam port, aims to make the produced green hydrogen suitable for export. It is planned to be executed in three phases, with the first phase having a capacity of 100 KTPA of green hydrogen derivative, followed by phases 2 and 3 with 500 KTPA capacity each. The estimated timeline for each phase is between 36 to 42 months.

The investment amount of INR 26,400 crore excludes the renewable energy captive generation facility. The project is expected to require approximately 50 million liters of water per day and is projected to employ 4,000 to 5,000 skilled and unskilled workers, with 18,000 staff during the construction phase.

In November 2022, the company also entered into a framework agreement with Egypt for a green hydrogen plant in the Suez Canal Economic Zone, involving an $8 billion investment. This initiative aligns with India's National Green

Hydrogen Mission, which aims to establish a 5 MTPA green hydrogen production capacity by 2030 and encourage the export of green hydrogen and its derivatives.

Green hydrogen production, characterized by zero carbon emissions, is considered a preferable method for decarbonizing industries that heavily rely on hydrogen. Presently, 93% of hydrogen consumption occurs in refineries and fertilizers, but by 2030, hydrogen is anticipated to play a significant role in sectors such as steel, mobility, and fuel blending.

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