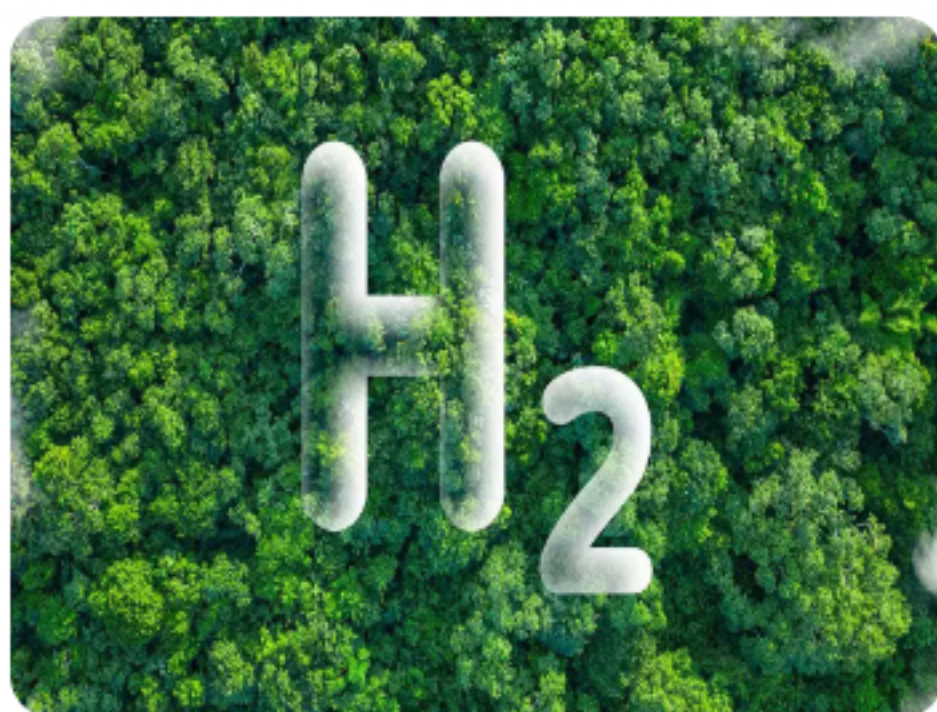


Yogi govt to aggressively promote use of green hydrogen in fertilisers and refinery industries in UP

"At a time when the entire world is grappling with the severe consequences of climate change and is seeking sustainable and clean energy sources, green hydrogen, which is a potent alternative fuel produced using renewable energy, has emerged as a viable option."



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The State has set a target of generating 1 million metric tonne production capacity per year of Green Hydrogen/Green Ammonia by the year 2029.

Lucknow, September 17: Uttar Pradesh government is looking to aggressively push the production of green hydrogen particularly in the chemicals & fertilisers and refineries sectors, to reduce industrial emissions respectively.

As a part of the 'Uttar Pradesh Green Hydrogen Policy 2024', the state government has rolled out a series of administrative and financial incentives with a view to not only promote green hydrogen/ammonia production but also facilitate market creation and boost demand aggregation.

Anupam Shukla, Director, Uttar Pradesh New & Renewable Energy Development Agency (UPNEDA) said that at a time when the entire world is grappling with the severe consequences of climate change and is seeking sustainable and clean energy sources, green hydrogen, which is a potent alternative fuel produced using renewable energy, has emerged as a viable option.

Green Hydrogen/Ammonia are produced by the process of electrolysis of water using renewable energy or using banked renewable energy. It is expected to serve as a cleaner and more sustainable alternative to fossil fuel and is likely to play a pivotal role in facilitating India's transition to net zero goal by 2070. Green hydrogen has a large potential for uptake in Nitrogenous (N-) fertilisers, chemicals, refineries, heavy-duty vehicles, energy storage and iron and steel sectors.

"Our initial emphasis will be on use of hydrogen in nitrogenous fertilisers and refinery industries in the State. Subsequently, we will also look at application of green hydrogen in other emerging industries in line with the National Green Hydrogen Mission. One of our key aims will be to reduce the cost of green hydrogen production by encouraging research and innovation in production and consumption technologies," Shukla said.

The State has set a target of generating 1 million metric tonne production capacity per year of Green Hydrogen/Green Ammonia by the year 2029. The state government has received investment proposals amounting to close to Rs 1.15 lakh crore from 17 different entities for producing green hydrogen/green ammonia generating employment opportunities for around 20,000 people in the State.

The State Government has received investment proposals /MoUs from 17 companies to boost green hydrogen production, marking a significant step towards sustainable energy development. Among the key players, UK-based Trafalgar Square Capital has committed to establishing a 10,000-tonnes-per-annum green hydrogen production facility near Lucknow.

In addition, Indian textile giant Welspun Group is planning to invest Rs 40,000 crore in a Green Hydrogen and Green Ammonia plant in Bulandshahr.

Another Indian firm, Hygenco Green Energies Pvt Ltd, has expressed interest in setting up a 0.2 million-tonne green hydrogen facility in Prayagraj, with an investment of Rs 16,000 crore. These projects are expected to accelerate the state's transition to clean energy and drive substantial economic growth.