

Green hydrogen research: UP to have two centres soon

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Lucknow: Under the proposed Green Hydrogen Policy-2023, which is currently under discussion in the state, two centres of excellence for green hydrogen research and innovation will be set up in UP.

According to the draft Uttar Pradesh Green Hydrogen Policy-23, the state aims to produce 0.5 million metric tonnes of green hydrogen annually by 2028 and by 2023, to become a leader in green hydrogen and ammonia production with 100% utilisation. The draft also speaks about identifying areas in the state with hydrogen consumption and to promote the growth of green hydrogen and ammonia production there.

UP New and Renewable Energy Development Agency has been appointed the nodal agency for this project.

“As per the proposal, two centres of excellence will be established to boost research, development and technological innovation in green hydrogen. The current de-

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mand for hydrogen in the state is approximately 0.9 million metric tonnes per year, primarily in the fertiliser and refinery sectors. The state will strengthen its industrial infrastructure through this policy to meet this demand,” said a government spokesperson.

The government will provide single-window clearance facility for establishing green hydrogen units. In addition to this, the government is preparing a land bank and assessing water availability for establishment of plants to ensure that in-

vestors have access to land, water, and electricity as per requirement.

Under the policy, the foundational infrastructure for developing green hydrogen and ammonia ecosystems will be strengthened, said the official. He added that there would also be an emphasis on increasing hydrogen blending in regions where there is consumption of green hydrogen.

The policy would also push for a focus on developing industrial clusters and centres for green hydrogen and ammonia.

“The policy will pave way for setting up of carbon dioxide recovery units to make use of carbon produced from biogas and other industries. An assessment will be made from production to usage centres, considering technological development, storage and transportation of green hydrogen, ammonia and their co-products. This will promote technological development and cooperation in green hydrogen and ammonia production,” the spokesperson said.