

Adani to set up 5GW electrolyser unit for \$3bn

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NEW DELHI: Adani New Industries Ltd, which was selected for a pilot on indigenous technology-based electrolyser production under the National Green Hydrogen Mission, is looking to set up cumulative electrolyser manufacturing capacity of 5 GW with an investment of up to \$3 billion, according to two people aware of the matter.

The company plans to set up 2 GW capacity by FY25. It would manufacture indigenous alkaline electrolysers under the

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Strategic Interventions for Green Hydrogen Transition (SIGHT) scheme of the hydrogen mission.

Alkaline electrolyzers are used for producing green hydrogen and are said to be less

expensive than other technologies such as proton exchange membrane.

Adani New Industries Ltd would initially set up 198.5 MW capacity and get an incentive of up to ₹293.78 crore from the government under SIGHT.

Under this scheme, the government will give alkaline electrolyser manufacturers incentives till FY30. Companies need to set up facilities within two years after receiving the letter of award under the plan.

"After the pilot project is successfully executed, the company plans to initially set up 2 GW

capacity for commercial operations, which would then be ramped up to a minimum of 5 GW," said one of the persons cited above.

Another person with knowledge of the developments said electrolyser manufacturing cost for per kilowatt (kw) capacity stands at around \$600, and the group would have to invest around \$3 billion for the 5 GW capacity.

Queries sent to Adani New Industries Ltd remained unanswered till press time.

The company has also tied up with electrolyser technology

providers Cavendish Renewable Technology (Australia) and Hydep (Italy) for the alkaline-based technology. It is also working on anion exchange membrane (AEM) technologies, wherein prototypes are being prepared.

In a presentation in March, Adani New Industries said that among the three technologies being tested, the alkaline-based and AEM-based technologies are the most preferred.

The second person mentioned above noted that the company is now zeroing in on alkaline-based technology.