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**Hydgen, a developer of advanced Anion Exchange Membrane (AEM) electrolyzer systems, has entered into a Memorandum of Understanding (MoU) with Pune-based Malati Fine Chemicals (MFC).**

This partnership aims to pilot small-scale green hydrogen production within the sugar industry, leveraging renewable energy sources and innovative technologies. The collaboration focuses on utilizing bagasse-based cogeneration—a byproduct of sugar production—as a renewable power source to operate Hydgen’s proprietary electrolyzers. These electrolyzers will produce green hydrogen on-site, which will then be combined with carbon dioxide captured from distillery fermentation

processes to synthesize green methanol. This approach not only offers a sustainable method for energy production but also promotes a circular economy by repurposing industrial waste.



Under the terms of the MoU, Hydgen will supply its advanced electrolyzer technology and provide technical support for pilot deployments. MFC will facilitate the necessary infrastructure, testing environments, and regulatory coordination to evaluate system performance. Both parties will jointly explore commercialization opportunities, seek funding mechanisms such as government grants, and identify broader applications for the technology. This initiative represents a critical step in bringing hydrogen innovation to industries that require scalable, site-specific solutions. By focusing on decentralized green hydrogen production, the partnership aims to demonstrate the feasibility of integrating sustainable energy solutions within existing industrial frameworks.

The sugar industry, with its abundant biomass resources and established infrastructure, presents an ideal starting point for this pilot project. Successful implementation could pave the way for similar deployments across other sectors, including food processing, agro-chemicals, and distributed energy systems. Green methanol, produced from renewable sources like green hydrogen and captured carbon dioxide, is gaining recognition as a sustainable alternative to traditional methanol. Its applications span various industries, including transportation and manufacturing, offering a low-carbon solution that aligns with global decarbonization goals. By harnessing renewable energy and repurposing industrial byproducts, the Hydgen-MFC partnership exemplifies a forward-thinking approach to sustainable industrial practices. This collaboration not only addresses the pressing need for cleaner energy sources but also sets a precedent for integrating green technologies into traditional industries.

As the world moves towards a more sustainable future, initiatives like this pilot project highlight the potential of innovative partnerships in driving environmental responsibility and industrial efficiency. The success of this collaboration could serve as a model for similar efforts worldwide, contributing to the broader adoption of green hydrogen and methanol in various industrial applications.

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