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Technical assistance and capacity-building

Joint written statement* submitted by "ECO-FAWN" (Environment Conservation Organization - Foundation for Afforestation Wild Animals and Nature), Rajasthan Samgrah Kalyan Sansthan, non-governmental organizations in special consultative status

The Secretary-General has received the following written statement which is circulated in accordance with Economic and Social Council resolution 1996/31.

[17 August 2023]

* Issued as received, in the language of submission only.



Green Hydrogen and Electrolyzers: India's Efforts

Sustainable energy, which is at the heart of Goal 7 of the UN Sustainable Development Goals, is a touchy topic across the developing world. As they try to make the transition towards cleaner energy sources, they would also rely upon the fact that the per capita energy consumption in countries like India, is among the lowest in the world.

However, India cannot afford to abdicate its responsibility on this front on the basis that its citizens consume very low energy individually. The Government of India has constantly been taking measures to ensure that India leads in such transition.

“India has introduced two schemes to incentivise the manufacturing of electrolyzers and Green Hydrogen as a part of the Strategic Interventions for Green Hydrogen Transition (SIGHT) program worth Rs 17,490 crore under the National Green Hydrogen Mission.”

Green Hydrogen and its production by electrolysis is catching on as the next biggest clean energy source. The role of India in this scenario is apparent:-

“The global demand for hydrogen is 94MT in 2021 and is expected to reach 185 million tons by 2030 in the net zero scenario. While the demand for hydrogen is today enjoying unprecedented momentum, its production still faces significant challenges. Currently, there are only a few electrolyzer OEMs globally with advanced technologies and extensive production facilities, resulting in a massive demand-supply gap.”

Experts have noted India's efforts and challenges ahead:-

“Kiran Malla, Partner - Clean Energy, EVs and Infrastructure, EY-Parthenon, said, "Green hydrogen has the potential to become the cogwheel of India's decarbonization strategy. However, there is a need to build a robust manufacturing ecosystem for green hydrogen in the country. Although the government has been taking steps to accelerate the uptake of green hydrogen, a more robust policy framework for investors, subsidies for manufacturers, financing mechanisms, and creation of demand through purchase and bundling obligations can provide the necessary boost to the sector.”

With this, India will be paving the way for the whole to achieve net carbon zero.

ECO FAWN Society actively advocates for clean and sustainable energy.

Gramin Kshetra, NGO(s) without consultative status, also share the views expressed in this statement.

1. <https://www.cnbctv18.com/business/india-launches-schemes-worth-rs-17490-crore-to-drive-electrolyser-green-hydrogen-manufacturing-17080111.htm>
2. https://www.ey.com/en_in/energy-resources/how-can-india-become-the-industrial-hub-for-electrolyzer-production-by-2030
3. https://www.ey.com/en_in/energy-resources/how-can-india-become-the-industrial-hub-for-electrolyzer-production-by-2030