



MNRE Minister Pralhad Joshi launches Green Hydrogen Certification scheme

MNRE organizes Workshop on opportunities for MSMEs in Green Hydrogen Supply Chain

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The Ministry of New and Renewable Energy (MNRE) organized on 29th April 2025 one-day National Workshop on opportunities for “Micro, Small & Medium Enterprises (MSMEs) in the Green Hydrogen Supply Chain”, at New Delhi. The workshop was aimed to explore opportunities and discuss key role of MSMEs in development of green hydrogen ecosystem in India. Over 300 delegates drew participation from different stakeholder groups, including MSMEs, policymakers, technology providers, industry associations, and international partners.



Delivering the inaugural address, Shri Pralhad Venkatesh Joshi, Hon'ble Union Minister of New and Renewable Energy, highlighted the government's commitment to fostering innovation-led growth and emphasized that MSMEs will serve as the backbone of India's energy transition through their innovative

capabilities and localized solutions. He highlighted the critical role MSMEs will play in realizing the Mission's objectives of building a self-reliant green hydrogen ecosystem by 2030.



Hon'ble Union Minister also launched the Green Hydrogen Certification Scheme of India (GHCI). He mentioned that the scheme is a foundational step towards creating a robust framework for certifying green hydrogen production and ensuring transparency, traceability, and market credibility.



Shri Santosh Kumar Sarangi, Secretary, MNRE highlighted some key achievements in the implementation of National Green Hydrogen Mission. He stressed upon the importance of building capacities, facilitating finance, and strengthening technology linkages to empower MSMEs to

meaningfully participate in this new industrial landscape. He reiterated the Ministry's commitment to building institutional and infrastructural support for green hydrogen, with MSMEs playing a critical role.



The workshop included four focused technical sessions as follows:

i. Technology Collaboration for MSMEs

Panelists deliberated on R&D collaboration models, indigenization of components such as bipolar plates and electrolyzers, and the role of knowledge institutions.

ii. Business Opportunities in the Green Hydrogen Supply Chain

Discussions centered on the integration of MSMEs into large-scale projects. Experts from international agencies and corporate leaders outlined business models and market opportunities, advocating for systematic MSME engagement strategies.

iii. Decentralized Hydrogen Production through Biomass

Expert speakers presented use cases on thermochemical and biochemical conversion of biomass to hydrogen, exploring their application in rural industries. The session highlighted the potential of decentralized models to meet local demand while promoting circular economy principles.

iv. Catalyzing Investments in the Green Hydrogen Ecosystem

Financial institutions, including the World Bank, IREDA, KfW, and IIFCL, discussed de-risking strategies, blended finance mechanisms, and the need to design green credit lines accessible to MSMEs.

The workshop marked an important step towards mainstreaming MSMEs in India's clean energy transition and showed MNRE's commitment towards building an inclusive, technology-driven, and decentralized green hydrogen economy. The workshop saw active participation from MSMEs, who showed strong interest in entering the green hydrogen sector, particularly in areas such as component manufacturing, operations and maintenance services, and rural hydrogen generation. Participants

emphasized the need for standardized protocols, shared platforms for joint innovation, and the formation of Green Hydrogen Clusters to help MSMEs combine capacities and benefit from economies of scale. The discussions also highlighted the importance of clear demand signals and long-term policy stability to encourage private investment. Experts noted India's strong potential to emerge as a manufacturing hub for green hydrogen technologies, especially electrolyzers and fuel cells.

The Government of India is implementing the National Green Hydrogen Mission, with an objective to make India a global hub of production, usage and export of Green Hydrogen and its derivatives.

The Mission will result in the following likely outcomes by 2030:

- i. Development of Green Hydrogen production capacity of at least 5 MMT (Million Metric Tonne) per annum with an associated renewable energy capacity addition of about 125 GW in the country
- ii. Over Rs. Eight lakh crore in total investments
- iii. Creation of over Six lakh jobs
- iv. Cumulative reduction in fossil fuel imports over Rs. One lakh crore
- v. Abatement of nearly 50 MMT of annual greenhouse gas emissions

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