

Green Hydrogen Certification Scheme

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Green Hydrogen Certification Scheme Latest News

Recently, the Union Minister for New and Renewable Energy launched the Green Hydrogen Certification Portal of India (GHCI).

About Green Hydrogen Certification Scheme

- It was launched by the **Ministry of New and Renewable Energy** (MNRE), Government of India, under the **National Green Hydrogen Mission**.
- It aims to **promote the production and use of Green Hydrogen**, which is generated from renewable energy sources.
- **Objective:** It is designed to facilitate the development of a market in India, ensuring that hydrogen produced is genuinely green and contributes to reducing carbon emissions.

Features of Green Hydrogen Certification Scheme

- **Green Hydrogen standard:** Hydrogen can be officially recognized as “green” only if its non-biogenic greenhouse gas emissions **do not exceed 2 kg of CO₂ equivalent (CO₂e)/kg of hydrogen**, averaged **over 12 months**.
- **Eligible pathways:** Eligible Hydrogen Production Pathways include **Electrolysis and Conversion of Biomass**.
- Producers must appoint **Accredited Carbon Verification** (ACV) agencies, recognized by the **Bureau of Energy Efficiency**, for independent verification.
- The GHCI operates with four types of certificates—**Concept Certificate, Facility-Level Certificate, Provisional Certificate, and Final Certificate**.
 - Concept and Facility-Level certificates focus on design and operational readiness, while Provisional and Final certificates evaluate actual emissions based on production data.
 - Final certificates are mandatory for facilities benefiting from government incentives or intending to sell hydrogen domestically.
- The certification also enables producers to **access carbon credits under the Carbon Credit Trading Scheme** (CCTS), subject to additional compliance requirements.

Source: PIB

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