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- |  |                            |
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| <b>1. Adamantane</b>                   | <b>CAS RN. 281-23-2</b>    |
| <b>2. Adamantanamine Hydrochloride</b> | <b>CAS RN. 665-66-7</b>    |
| <b>3. Benzoyl Chloride</b>             | <b>CAS RN. 98-88-4</b>     |
| <b>4. Benzotrichloride</b>             | <b>CAS RN. 98-07-7</b>     |
| <b>5 Chloroethylene Carbonate</b>      | <b>CAS RN. 3967-54-2</b>   |
| <b>6. Dichloromethane</b>              | <b>CAS RN. 75-09-2</b>     |
| <b>7. Aniline</b>                      | <b>CAS RN. 62-53-3</b>     |
| <b>8. Aluminium Chloride</b>           | <b>CAS RN. 7446-70-0</b>   |
| <b>9. Chlorinated Paraffin-52</b>      | <b>CAS NO. 106232-86-4</b> |
| <b>10. Chlorinated Paraffin-70</b>     | <b>CAS RN. 106232-86-4</b> |
| <b>11. Sodium Hypochlorite</b>         | <b>CAS RN. 7681-52-9</b>   |
| <b>12. Methyl Methacrylate</b>         | <b>CAS RN. 80-62-6</b>     |
| <b>13. Methacrylic Acid</b>            | <b>CAS RN. 79-49-4</b>     |
| <b>14. Diethyl Oxalate</b>             | <b>CAS RN. 95-92-1</b>     |

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No	Exhibitions	Date	Place
1	CPhi North America	May 20-22, 2025	Pennsylvania Convention Center, Philadelphia
2	CPhi Barcelona	TBD	Fira Barcelona Gran Via, Spain
3	CPhi Middle East & Africa	Dec 10-12, 2024	Riyadh, Saudi Arabia
4	CPhi China- Virtual CPhi	June 24-26, 2025	Shanghai New International Expo Center
5	CPhi Japan	Apr 09-11, 2025	Tokyo, Japan
6	CPhi Korea	Aug 26 - 28, 2025	COEX, Seoul, Korea
7	CPhi India	Nov 25-27, 2025	Noida, India

### MECS (Coating Show)

1	Asia Pacific Coatings Show	Sept 3-5, 2025	Indonesia
2	Saudi Arabia Coatings Show	May 13-15, 2025	Dammam Saudi Arabia
3	Middle East Coatings Show	Apr 14-16, 2026	Dubai World Trade Centre
4	Coatings For Africa	June 24-26, 2026	Johannesburg, South Africa

### DYE+CHEM

1	Dye+Chem Morocco International Expo	Nov 5-7, 2025	Morocco
2	48rd Dye+Chem Sri Lanka International Expo	March 13-15, 2025	Colombo Sri Lanka
3	Dye+Chem Bangladesh International Expo	Sept 3-6, 2025	Bangladesh, Dhaka
4	50th Dye+Chem Brazil International Expo	Nov 2025	Brazil

### Red Carpet Events

1	Bangladesh Int'l Dyes, Pigments and Chemicals Expo	TBD	Dhaka, Bangladesh
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### Turkey (Arkim Group)

1	InterDye Textile Printing Eurasia	TBD	Istanbul, Turkey
2	Paint Istanbul TURKCOAT	2026	Istanbul
3	Paint Expo Eurasia	Oct 01-03, 2025	Istanbul Expo Center / Istanbul Fuar Merkezi

### Other Exhibitions

1	Paint India	Jan 30-31, 2025	Bombay Exhibition Centre, Mumbai
2	Expo Paint and Coating	Jan 21-23, 2025	Dhaka, Bangladesh
3	CIPI	TBD	Mumbai, India
4	Chemspec Europe	June 4-5, 2025	Koelnmesse, Germany
5	ChemUK Expo	May 21-22, 2025	NEC, Birmingham, UK
6	American Coatings Show	May 5-7, 2026	Indianapolis
7	China Coat China	Nov 25-27, 2025	China Import & Export Complex, Guangzhou
8	Interdye China	Apr 14-18, 2025	Shanghai, China
9	Paint Expo Germany	Apr 14-17, 2026	Messe Karlsruhe Germany
10	India Chem	Oct 2026	Mumbai Exhibition Centre, India
11	Water Expo 2025	Feb 26-28 2025	New Delhi
12	Inacoating 2025	July 29-31, 2025	JlExpo Kemayoran, Jakarta - Indonesia





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3	Benzoyl Chloride	98-88-4
4	Hcl Gas In Methanol	7647-01-0
5	Methyl Chloroformate	79-22-1
6	Methylamine Hydrochloride	593-51-1
7	Monomethylamine In Methanol	74-89-5
8	Pyrophosphoryl Chloride	13498-14-1
9	4m Hcl Acid In 1,4-Dioxane	7647-01-0
10	Methylamine Solution 40%	74-89-5

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# Green hydrogen revolution and innovative pathways Exploring India's INR 200 crore green hydrogen initiative

Vinodini Harish

## Introduction:

India has taken a bold step forward with the ambitious National Green Hydrogen Mission and this transformative initiative launched by the Ministry of New and Renewable Energy (MNRE). The announcements about the pilot projects sound very ambitious and enriching, and they are expected to redefine the way energy is produced, consumed and emphasize local resource utilization and reduce infrastructure dependency. These initiatives are considered and seen as a cornerstone of the country's clean energy agenda; therefore they are explored here in the article. Let's begin.

## India launches 200 crore decentralized green hydrogen initiative.

India is known for its fossil fuel infrastructure, but with rising energy needs and great green hydrogen ambitions, it is important to strike the balance between the both. How India is going to balance between the two, especially in the sectors that are heavily reliant on traditional energy sources? Also, how can India's green hydrogen initiative complement its other renewable energy investments in solar and wind, thereby creating an integrated clean energy ecosystem? Although the country grapples with these questions, the path is clear and the pilot project is all set. In this article, we have explored a bit more of this proud launch of our nation. Let's dive into the article.

The initiative focuses on innovative methods for residential and commercial applications.

The Ministry of New and Renewable Energy (MNRE) outlines various pilot projects that include floating solar-based hydrogen production, biomass utilization and wastewater conversion. The ultimate goal is to decentralize hydrogen use for cooking, heating and off-grid electricity generation.

## Scheme Overview

India's ₹200-crore scheme and the pilot project initiative represent a forward-thinking approach to exploring diverse hydrogen production methods for both commercial and community applications. There is a government-appointed body to oversee the scheme and it is designed to test and validate sustainable, resource-efficient technologies to establish a comprehensive green hydrogen ecosystem. The key idea is to extend the scheme and keep it an initial part of a broader strategy to establish this green hydrogen ecosystem.

There are various innovative methods to be explored under this scheme and some of the key methods include the following:

**Floating solar panels for hydrogen production:** India already has solar resources in mass. Therefore the idea is to leverage these abundant solar resources by placing solar panels on water bodies and cutting down the usage

of land use while optimizing the solar energy for hydrogen production. Floating solar solutions reduce evaporation from water bodies and thereby enhance water resource management alongside energy generation.

**Biomass-based hydrogen generation:** The key idea is utilizing agricultural and organic waste and converting biomass into hydrogen, which offers dual benefits by addressing waste management issues and generating cleaner energy. This energy generation is delivered to diverse applications, such as community and commercial uses.

**Wastewater treatment for hydrogen extraction:** This strategy harnesses water treatment by-products, which utilize wastewater as a resource for hydrogen extraction. This method addresses wastewater management issues while producing green hydrogen sustainably and cost-effectively.

These innovative methods reflect a broader government strategy aimed at establishing a green hydrogen ecosystem in India. The idea behind these approaches is to combine environmental sustainability with economic and resource efficiency while promoting local industries, creating jobs and helping India meet its green energy targets.

**How the INR 200 crore initiative is helping India transform its green hydrogen infrastructure:**

Continued on Pg 37





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