

# Hydrogen Valley Innovation Clusters

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## Hydrogen Valley Innovation Clusters Latest News

Recently, the union Minister of State (Independent Charge) for Science and Technology announced that four Hydrogen Valley Innovation Clusters (HVICs) are being developed across the country.

## About Hydrogen Valley Innovation Clusters

- These are being developed across the country to demonstrate the **full green hydrogen value chain** — from production and storage to transport and utilization.
- **Funding:** Total investment of ₹485 crore.
- The HVIC project is aimed at “building a **local hydrogen ecosystem** by connecting supply and demand across sectors like transport, industry, and energy, while also fostering research, innovation, and skills.
- These clusters were originally **conceptualized** by the **Department of Science and Technology**, and now integrated under **National Green Hydrogen Mission (NGHM)**.
- These four Hydrogen Valleys are coming up in **Pune, Jodhpur, Bhubaneshwar and Kerala**.

## What is Green Hydrogen?

- Green Hydrogen is **produced using renewable energy**, such as solar or wind power, instead of fossil fuels.
- In this process water **is split into hydrogen and oxygen** through electrolysis, using electricity from solar panels or wind turbines.
- According to standards notified by Govt of India, Hydrogen made this way is considered “green” if the total **emissions from the process are very low**, not more than 2 kg of CO<sub>2</sub> equivalent for every 1 kg of Hydrogen produced.
- Green Hydrogen can **also be produced by converting biomass** (like agricultural waste) into hydrogen, as long as emissions remain below the same limit.

**Source: PIB**

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