#### NATIONAL GREEN HYDROGEN MISSION: ENVIRONMENT

**NEWS:** Launch of Pilot projects in Steel Sector under the National Green Hydrogen Mission

#### WHAT'S IN THE NEWS?

The Union Government has approved three pilot projects under the National Green Hydrogen Mission to explore green hydrogen's role in steel production. With a total financial support of ₹347 crore, these projects aim to advance clean energy technologies and reduce carbon emissions in the steel sector. The initiative aligns with India's goals for self-reliance and global clean energy leadership.

### **National Green Hydrogen Mission:**

- Approval Date: Approved by the Union Cabinet on January 4, 2023.
- **Budget**: ₹19,744 crore allocated.
- Objective: To make India a global hub for green hydrogen production, usage, and export.
- **Production Target**: 5 million metric tons (MMT) of green hydrogen annually by 2030.

### **Key Components:**

- 1. **Demand Creation**: Promoting exports and domestic use of green hydrogen.
- 2. **SIGHT Programme**: Providing incentives for electrolyser manufacturing and green hydrogen production.
- 3. Infrastructure: Setting up Green Hydrogen Hubs for production and distribution.
- 4. **Regulatory Framework**: Developing standards for the green hydrogen industry.
- 5. Research & Development: Encouraging innovation through public-private partnerships.
- 6. **Skill Development**: Training workforce in green hydrogen technologies.

## Economic Impact:

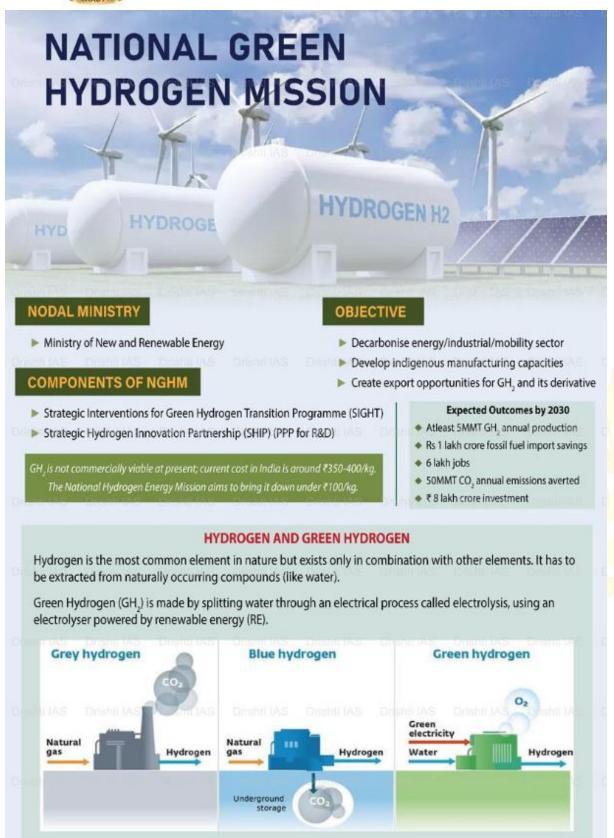
- Investment Potential: Over ₹8 lakh crore in investments by 2030.
- **Job Creation**: Estimated 600,000 new jobs.
- Import Reduction: Saving ₹1 lakh crore in fossil fuel imports by 2030.

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