



# India's First Green Hydrogen Plant in the Stainless Steel Sector

**Source:** [PIB](#)

Recently, the Union Minister for Steel, virtually inaugurated **India's 1<sup>st</sup> Green Hydrogen Plant in the Stainless Steel Sector** located at Jindal Stainless Limited, Hisar. It is the world's first **off-grid green hydrogen plant** dedicated to the stainless steel industry.

- Conventional steel production relies heavily on **coal**, a major source of **greenhouse gasses**. This dependence is problematic for India's environmental goals. Green hydrogen offers a cleaner alternative.
  - The plant targets a considerable reduction in carbon emissions, aiming to **cut around 2,700 Metric Tonnes per annum** and 54,000 tons of CO<sub>2</sub> emissions over the next two decades.
- Stainless steel is a type of steel alloy that contains a minimum of 10.5% chromium by mass.
  - It is known for its **exceptional corrosion resistance**, making it highly suitable for various applications where durability and resistance to rust and staining are essential.
- India is the **world's second-largest producer of crude steel**, with an output of 125.32 million tonnes (MT) of crude steel and 121.29 MT of finished steel production in FY23.
  - India is also a **net exporter of steel** witnessing an export of 6.72 MT of finished steel against the import of 6.02 MT in 2022-23.

**Read more:** [Steel Sector](#), [Green Hydrogen](#)

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