

Hindustan Zinc records 6.7 lakh tonnes of GHG emission savings in FY25



manufacturing.economictimes.indiatimes.com/news/energy/hindustan-zinc-records-6-7-lakh-tonnes-of-ghg-emission-savings-in-fy25/122364022

ETManufacturing Desk, ET Manufacturing

July 10, 2025



Hindustan Zinc has reduced its GHG emission intensity by 15 per cent over the 2020 baseline while increasing production volumes.

Hindustan Zinc Limited, a [Vedanta Group](#) company, has reported greenhouse gas (GHG) emission savings of 6.7 lakh tonnes of CO₂ equivalent (tCO₂e) in FY25. This exceeds its Sustainable Development Goal (SDG) 2025 target of 5 lakh tCO₂e.

The company marked this achievement on Global Energy Independence Day. According to estimates based on Ministry of Power data, the emission savings are equivalent to the annual electricity consumption of over four lakh Indian households.

Advt

The company sourced 636 million units of renewable power during the year through a combination of captive generation and imports. Its renewable energy share increased from 6 per cent in FY24 to nearly 13 per cent in FY25. Hindustan Zinc aims to raise this figure to 70 per cent by FY28 and has signed power delivery agreements for round-the-clock renewable energy up to 530 MW.

Energy efficiency and long-term targets

Hindustan Zinc has reduced its GHG emission intensity by 15 per cent over the 2020 baseline while increasing production volumes. The company has also implemented several energy-efficiency measures, including turbine upgrades at captive power plants, improvements in cellhouse efficiency, the installation of variable frequency drives, and switching to alternate fuel sources.

The company has stated its commitment to achieving Net Zero emissions by 2050 or earlier. It was the first Indian company in the metals and mining sector to receive validated Science Based Targets Initiative (SBTi) targets aligned with the 1.5°C global warming threshold. **Focus on low-carbon products and environmental data**

In FY25, Hindustan Zinc also utilised renewable power to produce EcoZen, which it describes as Asia's first low-carbon zinc. The product carries an Environmental Product Declaration (EPD), offering transparent environmental data.

The company's recently announced 2030 SDG roadmap outlines targets in climate change, water stewardship, biodiversity, responsible sourcing, circular economy, workforce diversity, and community development. Hindustan Zinc has committed to reducing Scope 1 and 2 emissions by 50 per cent and Scope 3 emissions by 25 per cent from a 2020 baseline.

Advt

[Indian Oil](#) Corp plans to shut its 300,000 barrels-per-day diesel desulphuriser unit at its Panipat refinery for an upgrade aimed at producing [sustainable aviation fuel](#) (SAF) next year, Arvind Kumar, its head of refineries, said on Thursday.

The overhaul of the diesel unit is scheduled for late this year or early next year, Kumar told an industry event in New Delhi.

India aims to have 1% sustainable aviation fuel (SAF) in aviation fuel by 2027, doubling to 2% in 2028.

The refinery's diesel output would not be hit due to the shutdown as the refiner has additional diesel hydrotreaters at the Panipat site.

The upgraded unit will process used cooking oil (UCO) to produce 30,000 metric tons per year of SAF, he said.

Indian Oil, the country's largest refiner, will also look at upgrading some kerosene-producing units at other refineries to make SAF, he said.

He also said that Indian Oil will soon invite bids for a 70,000 tons-per-year green hydrogen plant and a sustainable aviation fuel project.

Indian Oil has already awarded a bid to build a 10,000 tons-per-year green hydrogen facility at the Panipat refinery to engineering major [Larsen and Toubro](#). L&T will build and operate the plant and sell green hydrogen to Indian Oil at 397 Indian rupees (\$4.64) per kilogram.

India has set a target for refiners to meet half of their hydrogen demand through green hydrogen by 2030, he said.