

# Hygenco Green Energies Commences India's First Commercial Scale Green Hydrogen Plant, In Partnership With Jindal Stainless

Inaugurated by Union Minister Shri Jyotiraditya Scindia · Hisar, Haryana

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Hygenco Green Energies today commissioned its first commercial scale green hydrogen plant in **Hisar, Haryana**, in partnership with **Jindal Stainless (JSL)**. The commissioning was inaugurated by the Hon'ble Union Minister of Steel and Civil Aviation, **Shri Jyotiraditya Scindia** virtually from New Delhi, in the presence of the Secretary, Ministry of Steel, Shri Nagendra Nath Sinha, CEO of Hygenco Green Energies, Mr Amit Bansal and Managing Director, Jindal Stainless, Mr Abhyuday Jindal.

The ground-breaking venture is in line with Hygenco and JSL's commitment to sustainability and India's targets of achieving **Net Zero carbon emissions**.

## Minister's Statement

Lauding the initiative, Shri Jyotiraditya Scindia said, "*I congratulate both Jindal Stainless Ltd. and Hygenco for starting India's first green hydrogen plant in the stainless steel sector.*"

## Plant Specifications

The alkaline bipolar electrolyser has a capacity of **350 Nm<sup>3</sup>/hr**, guaranteeing an average supply of **90 Nm<sup>3</sup>/hr** of green hydrogen round-the-clock using dedicated solar energy and storage. Key highlights:

- Targets abatement of **54,000 tonnes of CO<sub>2</sub> emissions** over 20 years
- Based on a **long-term off-take agreement** (20-year fixed price)
- Controlled by an advanced **energy management and control system**
- Operated under **Build-Own-Operate (BOO)** model
- Powered by **rooftop and floating solar** – completed within stipulated time
- Comprehensive monitoring: hydrogen generation, renewable energy, pressure, temperature
- India's first GH<sub>2</sub> plant to secure **project financing**

### **CEO, Hygenco — Amit Bansal**

*"It is an unprecedented achievement to help leapfrog the green hydrogen revolution globally. This commissioning will also provide a thrust to our commitment of enabling the energy transition and open doors to large-scale adoption of green hydrogen across various sectors."*

### **MD, Jindal Stainless — Abhyuday Jindal**

*"Our commitment to sustainability goes much beyond this pilot project. This is just the beginning; we will scale this up depending on successful application into other processes of stainless steel manufacturing. We understand that sustainability is not just a goal to be achieved, but a journey that requires continuous effort and innovation."*

### **About The Project — "Project Steel One"**

The plant is commissioned at Jindal Stainless' manufacturing site in Hisar, Haryana. The hydrogen produced replaces ammonia in Jindal Stainless' in-house annealing of stainless steel as part of the heat treatment process. Hygenco will own

and operate the plant for **20 years**, before transferring ownership to Jindal Stainless. The plant produces **75 tonnes per annum** of green hydrogen, with potential to scale to **250 t/yr**, targeting reduction of **2,700 tonnes of CO<sub>2</sub> per year**.

### **About Hygenco Green Energies**

Headquartered in Gurgaon, India, Hygenco develops and deploys large-scale, commercially attractive green hydrogen and green ammonia assets. With deep expertise in designing, building, and operating green hydrogen projects, Hygenco commissioned India's first green hydrogen project in Hisar. The company aims to develop **10 GW** of commercially attractive production and distribution assets by 2030.

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Source: Hygenco Green Energies Private Limited · [hygenco.in/press-jsl.html](https://hygenco.in/press-jsl.html) · March 4, 2024