Project Outlook

1. Satluj Jal Vidyut Nigam (SJVN) has inaugurated India's first multi-purpose (Combined Heat & Power) Green Hydrogen Pilot Project at 1500-MW Nathpa Jhakri Hydro Power Station (NJHPS) in Jhakri, Shimla (SJVN inaugurates India's first multipurpose Green Hydrogen pilot project, ET Auto (indiatimes.com))
2. Ohmium International ("Ohmium") announced a strategic partnership with Tata Projects, a leading sustainable technology led EPC company in India. This collaboration aims to bolster green hydrogen projects in India, combining innovative technology with proven engineering excellence. Ohmium will provide PEM electrolyzers while Tata Projects will manage the entire EPC process, including engineering, design, integration, and optimization.
3. Acme Group, will invest INR 524.7 billion (USD 6.6bn/EUR 6.4bn) to set up a 1.5-GW complex to produce green hydrogen and ammonia in the state of Tamil Nadu.
4. ReNew Energy Global (ReNew) signed an initial agreement with JERA, Japan's largest power generation company, to jointly evaluate the development of a green ammonia production project in India. Under the agreement, ReNew, through its subsidiary ReNew E-Fuels, and JERA will jointly evaluate development of a green ammonia production project in Paradip, Odisha. The project will utilize around 500 megawatt (MW) of high-capacity utilisation factor (CUF) renewable energy to produce green hydrogen. The project is likely to have a production capacity of around 100,000 tonnes of green ammonia annually by 2030.
5. CME Group, a leading renewable energy company in India, and IHI Corporation, a Japanese integrated heavy industry group, today signed an offtake term sheet for supply of green ammonia from Odisha, India to Japan. The green hydrogen and ammonia project at Gopalpur, Odisha is being developed by ACME with a planned capacity of 1.2 MMTPA to be developed in phases; and the first production likely within 2027. Over its life cycle, the project will help reduce global GHG emissions by 54 million tons of CO2 equivalent.
6. ACME Group has set up the world's first integrated pilot project for Green Hydrogen and Green Ammonia plant at Bikaner in Rajasthan. In this project, Green Hydrogen is being produced using 5MWp from the solar plant, scalable to 10 MWp. The plant will help in saving approx. 4400 tons/annum of CO2 emissions.
7. ACME Group and the Government of Karnataka has signed a MOU to invest about Rs 52,000 crore in the State to set up a 1.2 MTPA Green Hydrogen & Green Ammonia project. The project would generate over 2,000 employment opportunities after completion of the plant. The project is planned by 2027.
8. - NTPC signed an agreement with Gujarat Gas (GGL) for blending green hydrogen in Piped Natural Gas (PNG) network of the State government utility at the power producer's Kawas facility. Green hydrogen will be produced by using electricity from the existing 1 megawatt (MW) floating solar project of NTPC Kawas.
9. Oil India Limited (OIL) has commissioned the country's first green hydrogen pilot plant with an installed capacity of 10 kilograms per day at its Jorhat Pump Station.
10. Adani Group's partnership with France's TotalEnergies SE plans to invest USD 50 billion over 10 years to develop a hydrogen ecosystem and develop a production capacity of 1 million ton per

annum before 2030 with technology support from Cavendish Renewable Technology (CRT), Australia.

11. Reliance Industries proposes to transition to green hydrogen from grey now by 2025 and reduce green hydrogen production costs to under USD 1 per kg by 2030. The group has partnered with Danish technology firm Stiesdal for development and manufacturing of electrolyzers. IOCL targets to replace five percent of hydrogen produced at its refineries with green hydrogen by 2027-28, and 10 per cent by 2029-30.
12. A joint venture of ONGC and Greenko Group plans to spend up to USD 6.2 billion on renewable energy and green hydrogen projects in India with intention to export.
13. GAIL India has initiated a project to set up a green hydrogen plan at its Vijaipur Complex with a capacity of 4.3 tonnes per day (approx. 10 MW).
14. Hindustan Petroleum Corporation Ltd (HPCL) has set a green hydrogen production target of 24,000 tonnes a year. The company is expected to commission a 370 tonne capacity per annum green hydrogen plant at its Visakhapatnam refinery.
15. Bharat Petroleum Corporation Ltd. (BPCL) has proposed to set up a 5 MW electrolyzer system to include green hydrogen in its city gas distribution networks in a phased manner.
16. In February 2025, Waaree Group inaugurated a 300 MW electrolyzer manufacturing plant in Valsad, Gujarat. This facility represents a significant step in enhancing India's domestic production capacity for electrolyzers, which are essential for green hydrogen generation.[1]
17. In October 2024, GreenH Electrolysis unveiled its first 1 MW Proton Exchange Membrane (PEM) electrolyzer at its manufacturing plant in Jhajjar, Haryana. This electrolyzer is designed to produce approximately 430 kg of hydrogen daily and is slated to fuel India's inaugural hydrogen-powered train under the Indian Railways' "Hydrogen for Heritage" initiative.[2]
18. GreenH Electrolysis entered into a contract with Medha Servo Drives Pvt. Ltd. to construct a hydrogen production and refueling station in Jind, Haryana. This station will support the hydrogen train project by providing the necessary hydrogen fuel.[3]
19. U.S.-based Plug Power announced intentions to develop "multi-gigawatt" electrolyzer production plants in India. These proposed facilities aim to significantly contribute to India's green hydrogen ecosystem by providing large-scale electrolyzer manufacturing capabilities.[4]
20. Solar Energy Corporation of India (SECI) issued a global tender under the Strategic Interventions for Green Hydrogen Transition (SIGHT) Scheme. This initiative seeks to promote domestic

[1] Waaree Group Launches 300 MW Electrolyser Plant in Gujarat

[2] GreenH Electrolysis unveils its first 1 MW PEM electrolyzer – pv magazine India

[3] GreenH Electrolysis Entered into a Contract to Build a Hydrogen Production and Refueling Station to Power India's First Hydrogen Train

[4] Plug Power Plans Major Hydrogen Production Plants in India

manufacturing of electrolyzers and accelerate green hydrogen production, reflecting the government's commitment to fostering a robust green hydrogen infrastructure.[5]

[5] SECI's Global Tender For Electrolyser Manufacturers: Accelerating Green Hydrogen Production In India - SolarQuarter