

Media Coverage Report on Green Hydrogen Mission
January 5th 2023 (Thursday)

Eye on climate goals, govt OKs ₹20k cr green hydrogen mission

Will Help Save Huge Amount Of Forex On Import Of Fuels

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New Delhi: In what could be a big step towards achieving India's updated climate action goals, the government on Wednesday approved the National Green Hydrogen Mission with initial financial outlay of Rs 19,744 crore. It will help India in not only reducing its carbon footprint but also saving a substantial amount of foreign exchange on import of fossil fuels in due course.

The mission that aims to make India a global hub for production, utilisation and export of green hydrogen and its derivatives will, in fact, eventually help the country become energy independent while taking a big leap towards decarbonisation of major sectors of the economy as part of its long-term goal of carbon neutrality by 2070.

Unlike grey hydrogen which uses natural gas, green hydrogen is produced by the electrolysis of water using renewable energy and thus doesn't emit carbon dioxide into the atmosphere. It is expected that the mission would help India in abating

EXPECTED OUTCOMES BY 2030

- > Development of green hydrogen production capacity of at least 5 MMT (million metric tonne) per annum 
- > An associated renewable energy capacity addition of about 125 GW 
- > Over ₹8 lakh crore in total investments 
- > Creation of over 6 lakh jobs 
- > Cumulative reduction in fossil fuel imports by over ₹1 lakh crore 
- > Abatement of nearly 50 MMT of annual greenhouse gas emissions 

nearly 50 million metric tonnes of annual greenhouse gas (GHG) emission by 2030 in sync with India's updated climate action pledge under the Paris Agreement to reduce emissions intensity (emission per unit of its GDP) by 45% by 2030 from 2005 level.

The ministry of new and renewable energy (MNRE) will formulate the guidelines for implementation of the different components of the Mission, approved by the Cabinet in its meeting chaired by PM Narendra Modi.

The move comes a day after Modi spoke about the importance and necessity of the mission for meeting India's growing energy needs. Addressing a gathering of scientists at 108th Indian Science Congress, being held in Nagpur, through video-conference, the Prime Minister on Tuesday said it was necessary that various essential components like electrolysers should be made in the country itself to make the

Mission successful.

The components of the mission include an outlay of Rs 17,490 crore for the Strategic Interventions for Green Hydrogen Transition Programme (SIGHT), Rs 1,466 crore for pilot projects, Rs 400 crore for R&D, and Rs 388 crore towards other related initiatives. The allocation is expected to attract huge investments and encourage R&D, focussed on electrolysers, in the next few years.

"The mission will have wide ranging benefits such as creation of export opportunities for green Hydrogen and its derivatives; decarbonisation of industrial, mobility and energy sectors; reduction in dependence on imported fossil fuels and feedstock; development of indigenous manufacturing capabilities; creation of employment opportunities; and development of cutting-edge technologies," said an official statement on the Cabinet's decision.

Incentive to put India among top 3 global 'fuel of future' hotspots

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New Delhi: The Rs 19,744 crore incentive for green hydrogen (GH₂) along with the projected production capacity of 5 million tonnes by 2030 positions India amongst the top three hotspots globally for investment and production of the 'fuel of the future', industry players and analysts said.

India is the latest to incentivise GH₂. The US recently extended support to GH₂ under its Inflation Reduction Act. Germany, UK and Japan also have announced programmes to support clean hydrogen.

"The incentive will make the green molecule from India competitive and help the country become a global export hub of GH₂ and green ammonia," said ACME group CEO Rajat Seksaria, whose company is building green hydrogen and ammonia plants in India and Oman.

According to Hemant Malviya of CEEW, incentive scheme for electrolysers will help establish India as an electrolyser manufacturing hub and tap into the global electrolyser market of \$425 billion.

The Times of India
January 5th 2023 (Thursday)

Cabinet approves ₹19,744 cr for National Green Hydrogen Mission

SHREYA JAI
New Delhi, 4 January

The Union Cabinet on Wednesday approved an initial outlay of ₹19,744 crore for the National Green Hydrogen Mission. Addressing the nation on its 75th Independence Day in 2021, Prime Minister Narendra Modi launched a national mission for green fuels in line with the Centre's stated target of making India energy-independent before completing 100 years of Independence. The mission will have four components that aim at enhancing domestic production of green hydrogen and promote the manufacturing of electrolyzers — a key constituent for making green hydrogen.

The initial outlay for the mission will include ₹17,490 crore for strategic interventions for green hydrogen transition (SIGHT) programme, ₹1,466 crore for pilot projects, ₹400 crore for research and development (R&D), and ₹388 crore towards other mission components, the Centre said in a statement.

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'GREEN' REVOLUTION



▶ **Reliance, as part of its ₹75,000-crore green investment push**, will set up electrolyzers for manufacturing green hydrogen. Aim: 1-1-1 = 1 kilogram (kg) hydrogen at \$1 in 1 decade

▶ **Adani New Industries to invest \$50 billion**, along with Total Energies, in building a green hydrogen ecosystem

▶ **ACME to invest \$1.5 trillion in Tamil Nadu, Karnataka, and Oman** over the next seven years for green hydrogen production

▶ **Larsen & Toubro commissioned its first green hydrogen manufacturing unit** to produce 45 kg daily

▶ **ReNew Power to sign \$8-billion pact** with Egypt for setting up green hydrogen manufacturing

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₹2,500-crore scheme for DD, AIR upgrade cleared

The Cabinet Committee on Economic Affairs (CCEA) on Wednesday approved a scheme worth ₹2,539.61 crore for Doordarshan (DD) and All India Radio (AIR), in a boost to public sector broadcasting. It is also the largest investment outlay by the government for the two public broadcasters under the BIND scheme, media experts said.

NTPC MULLS 50% GREEN HYDROGEN BLENDING AT GAS-POWER UNITS P4 ▶



800 Tribunal and sent to the Reserve Bank of India, which would also do its due diligence. The aim is to have an effective resolution in the early part of next financial year (Q1FY24), bank executives added.

In October 2021, the RBI superseded the boards of Srei Infrastructure Finance and Srei Equipment Finance for insolvency proceedings due to governance concerns and payment defaults by them. It also appointed Rajneesh Sharma, former chief general manager of Bank of Baroda, the administrator of the Srei companies.

This is the second instance of resolution for a finance company under the Insolvency and Bankruptcy Code (IBC). Earlier, troubled mortgage lender DHFL went through a similar resolution process in FY22. Piramal Enterprises acquired DHFL by paying a consideration of over ₹34,000 crore.

₹19,500 cr approved for National Green Hydrogen Mission

The initial target is to produce 5 million tonnes (mt) of green hydrogen annually.

SIGHT will include two financial incentive mechanisms for the domestic manufacturing of electrolyzers and the production of green hydrogen.

The mission will also support pilot projects in emerging end-use sectors and the production pathways. Regions

capable of supporting large-scale production and/or utilisation of hydrogen will be identified and developed as green hydrogen hubs.

An enabling policy framework will be developed to support the establishment of the green hydrogen ecosystem, said the government.

“A robust standards and regulations framework will also be developed. Further, a public-private partnership framework for R&D (strategic hydrogen innovation partnership — SHIP) will be facilitated under the mission,” read the statement.

In February last year, the Ministry of Power notified the green hydrogen/ammonia policy at a production of 5 mt of green hydrogen by 2030. The same target remains in the final mission as well.

According to the policy drafted by the Ministry of Power, green hydrogen/ammonia manufacturers can set up green energy projects or procure the same from energy exchanges. Several waivers, including interstate transmission charges, ease of getting open access, and transmission connectivity, were provided under the policy.

Every leading conglomerate with interest in the energy sector — from new-age renewable energy companies to automotive makers — has announced either investment or consumption plans for green hydrogen.

Adani Enterprises, Reliance Industries, Tata Group, JSW Energy, Larsen & Toubro, ACME Group, ReNew Power, and others have announced investment plans.

Ashok Leyland, which is India’s leading commercial vehicle manufacturer, is looking at a tie-up to run a section

of its fleet on green hydrogen.

However, the sector has been demanding sovereign support since the cost of electrolyzers and the overall cost of manufacturing green hydrogen is high. The current cost of green hydrogen in the country is around \$5 per kilogram.

“The incentive programme makes the green molecule from India competitive. This is required for the initial few projects and to create green hydrogen hubs, which will allow supply chains to be established and the scale of production to increase. Several nations have come up with green hydrogen subsidies and support programmes,” said Rajat Seksaria, chief executive officer, ACME Group.

The nodal department for the mission will be the Ministry of New and Renewable Energy. To meet the 5 mt target, it is expected an associated renewable energy capacity of close to 125 gigawatt will be required. The Centre expects close to 50 mt per annum of carbon emissions to be averted by 2030.

I-T scrambles to recover ₹7.7 trn of tax arrears

The total arrear demands increased to over ₹19 trillion in April 2022 from ₹15 trillion in the previous year, a jump of about 25 per cent.

The CBDT is learnt to have raised concern over rising litigation and the quantum of revenue locked up in appeals, and told officials to give maximum attention to the matter





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NCLAT ORDERS GOOGLE TO PAY 10% OF ₹1,337 CR FINE

The appellate tribunal refuses to stay the Competition Commission of India's (CCI) penalty on the US tech firm

NCLAT QUESTIONS GOOGLE'S RUSH FOR STAY

The CCI last year imposed a ₹1,337 cr fine on Google for anti-competitive practices and ordered the tech giant to let android users uninstall pre-installed Google apps and choose their own search engines. Google last month approached the NCLAT seeking an immediate stay. The tribunal questioned the urgency shown by Google and declined to pass a stay order

COURT ACCEPTS MA

- The court took in an imple an Indian firm that makes competitor of Google Map
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₹20K CR NATIONAL GREEN HYDROGEN MISSION OKAYED

Cabinet decision aims to make India a hub for export, hopes to decarbonise major sectors of economy

MONIKA YADAV @ New Delhi

THE Union Cabinet on Wednesday approved the National Hydrogen mission with a total allocation of ₹19,744 crore for producing 5 million tonnes of green hydrogen by 2030. Out of the total allocation, ₹17,490 crore has been earmarked as incentive for the production of electrolyzers and green hydrogen.

"India will be the global hub for green hydrogen in the future...two types of incentives will be given to boost the manufacturing of low-cost equip-

ment and technologies. Incentives will be given on electrolyser manufacturing for five years for the production of green hydrogen. In addition, green hydrogen hubs will also be developed," Anurag Thakur, information and broadcasting minister said in a media briefing.

By 2030, the project expects to bring in over ₹8 lakh crore investment and create over 6 lakh jobs. Besides, nearly 50 MMT per annum of CO₂ emissions are expected to be averted by that year.

The mission will support pi-

Niti Aayog sees 4-fold growth

According to a Niti Aayog report, green hydrogen demand in India could grow more than four-fold by 2050 and its market in India could reach US\$8 billion by 2030

lot projects in emerging end-use sectors and production pathways. Regions capable of supporting large-scale production and utilisation of hydrogen will be identified and developed as green hydrogen hubs.

The Ministry of New and Renewable Energy will formulate

the scheme guidelines for implementation.

Rajat Seksaria, CEO, ACME Group, a cleantech solution provider, said the incentive programme would make the green molecule from India competitive. "This is required for the initial few projects and creating green hydrogen hubs, which will allow supply chains to be established and scale of production to increase. Several nations have already come up with green hydrogen subsidy and support programmes," he said.

However, Ramanuj Kumar, partner at Cyril Amarchand

Mangaldas, while welcoming the incentive, was unsure if it would be adequate for boosting green hydrogen production.

In February last, the government notified the green hydrogen policy, which paved the way for faster approval for green hydrogen projects, waiver for inter-state transmission fee for 25 years and easier access to renewable energy for production of green hydrogen.

India has set a target of 5 million tonnes of green hydrogen, and 175 giga watts of green hydrogen-based energy capacity by 2030.

₹19,744 cr green hydrogen mission gets cabinet nod

Rituraj Baruah, Gulveen Aulakh & Saurav Anand

NEW DELHI

The Union cabinet on Wednesday approved the national green hydrogen mission, allocating ₹19,744 crore to produce 5 million tonnes of green hydrogen annually by 2030.

Of the total allocation, the government would provide incentives worth ₹17,490 crore for producing electrolyzers and green hydrogen for five years, ₹1,466 crore for pilot projects, ₹400 crore for research and development, and ₹388 crore for other mission components, a government statement said, adding that the ministry of new and renewable energy (MNRE) will formulate the guidelines for implementation of the respective components of the scheme.

"The mission will provide a much-needed boost to encourage the green hydrogen industry. This intervention is even more significant because it comes at a time India has the G20 presidency, clearly showcasing India's commitment to lead the global energy transition," said Vineet Mittal, chairman of Avaada Group, a green energy developer.

Mint first reported the government's plans to develop a green hydrogen programme



The government expects the mission to attract investments worth ₹8 trillion by 2030 and create 600,000 jobs. **BLOOMBERG**

on 1 July 2021. On 24 October 2022, Mint had also reported that the national green hydrogen mission would be allocated around ₹20,000 crore.

The central government expects the mission to attract investments worth ₹8 trillion by 2030 and create about 600,000 jobs.

Minister for new and renewable energy, R.K. Singh tweeted: "The National Green Hydrogen Mission, approved by the cabinet today, will make India a global hub for production, utilisation and export of green hydrogen."

Addressing reporters after the cabinet meeting, information and broadcasting minister

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Union minister Anurag Thakur briefs the media about the decisions taken in the cabinet meeting, in New Delhi on Wednesday.

₹19,744 cr green hydrogen mission gets cabinet nod

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Anurag Thakur said that the mission would also result in a reduction in CO2 emission by nearly 50 million tonnes annually and save India ₹1 trillion in its fossil fuel imports.

The mission aims to make India a hub for manufacturing and exporting green hydrogen.

"It will help the country achieve its target of becoming energy independent by 2047 and also achieve the vision of 'Atmanirbhar Bharat' (self-reliant India)," Thakur said.

The mission will also support pilot projects in emerging end-use sectors.

In addition, regions suitable for large-scale production and use of hydrogen will be identified and developed as green hydrogen hubs.

The draft national green hydrogen policy was released in February last year.

Rajat Seksaria, chief executive officer of ACME Group, said that the incentive programme makes the green molecule from India competitive.

"This is required for the initial few projects and create green hydrogen hubs, which will allow supply chains to be established and scale of production to increase. Several nations have already come up with green hydrogen subsidies and support programmes," he said.

In another cabinet decision to support India's energy transition, the government approved the investment for the 382MW Sunni Dam Hydro Electric Project by state-owned SJVN Ltd in Himachal Pradesh with an estimated cost of ₹2,614

crore, which would include the Centre's budgetary support of ₹13.80 crore.

According to the government, the implementation of the project will generate employment for about 4,000 people during the peak construction phase of the project.

The Union cabinet also approved a ₹2,539.61 crore 'Broadcasting Infrastructure and Network Development' central sector scheme to upgrade Prasar Bharati's broadcasting equipment and transmission capabilities.

All India Radio (AIR) and Doordarshan (DD) will use the scheme for financial support for expenses related to the expansion and upgradation of its broadcasting infrastructure,

content development and civil work related to the organization.

The scheme will increase coverage of AIR FM transmitters in the country to 66% by geographical area and 80% by population, up from 59% and 68%, respectively.

The scheme also envisages free distribution of over 800,000 DD Free Dish set-top boxes to people living in remote, tribal, left-wing extremism-affected districts and border areas, Thakur said.

The Union cabinet separately approved the ex-post facto renaming of the Greenfield International Airport Mopa, Goa, as Manohar International Airport - Mopa, Goa, as a mark of tribute to the former defence minister and Goa chief minister Manohar Parrikar, who died of cancer in 2019.

Saurav Anand contributed to the story

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Online Coverage

1	CNBCTV18	https://twitter.com/CNBCTV18News/status/1610600030372794368?s=20&t=wIWKaUTM5ffxNHRBOt0R_A
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