

Targets for green hydrogen use set for some industries

SARITA CHAGANTI SINGH & NIDHI VERMA New Delhi, January 13

INDIA HAS SET green hydrogen consumption targets for some industries, so as to generate demand for cleaner fuel in its quest to reach net zero by 2070, the government said on Friday, as it unveiled its policy for green energy.

One of the world's biggestemitters of greenhouse gases, India approved a plan of incentives worth more than \$2 billion lastweek to develop a green hydrogen production capacity of 5 million tonne a year by 2030.

Asia's third-largest economy wants to use green hydrogen to



replace grey hydrogen, produced using gas, as it moves to decarbonise sectors such as oil and fertilisers. Green hydrogen is a zero-carbon fuel made by electrolysis, using renewable power from wind and solar to split water into hydrogen and oxygen.

India's top refiner Indian Oil, top

power utility NTPC and conglomerates including Reliance and Adani group have announced plans to build green hydrogen projects.

To gradually build a hydrogenpowered shipping lines, India has set a goal for its largest fleet operator, the state-run Shipping Corp of India, to retrofit at least two ships to run on green hydrogen-based fuels by 2027.

All the state-run oil and gas companies that charter 40 vessels for fuel transportwill also have to hire at least one ship powered by green hydrogen each year from 2027 to 2030. "Green ammonia bunkers and refuelling facilities will be set up at least at one port by 2025, "the government said in its policy document. — REUTERS



India eyes \$58-b investment in oil exploration: Minister



New Delhi: India will likely see an investment of \$58 billion in finding and producing oil and gas resources in 2023, Oil Minister Hardeep Singh Puri said. Speaking at the Voice of Global South Summit, Puri said the government has targeted to increase the geographical area under exploration and production to 0.5 million square km by 2025. PTI



\$58-BN E&P INVESTMENT

Puri: Chevron, Exxon & Total keen on India

PRESS TRUST OF INDIA New Delhi, January 13

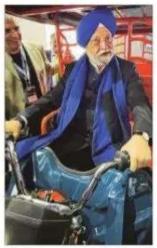
INDIA WILL LIKELY see an investment of \$58 billion in finding and producing oil and gas resources by 2023,oilminister Hardeep Singh Puri said on Friday,adding global energy majors Chevron, Exxon Mobil and Total Energies are keen to invest in the country.

India, the world's third biggest oil consuming and importing nation, is looking to raise domestic output to help cut down reliance on costly imports. India imports 85% of its crude oil, which is converted into petrol and diesel, and roughly half of its natural gas is converted to CNG and used in industries.

Speaking at the Voice of Global South Summit, Puri said the government has targeted increasing the geographical area under exploration and production to 0.5 million square kilometres or 15% by 2025 from the current 0.25 million sq km.

"We are expecting an investment of around \$58 billion in exploration and production (of oil and gas) by 2023," he said. "Several multinational corporations like Chevron, ExxonMobil and TotalEnergies are showing keen interest to invest in Indian E&P sector." India, he said, is ready to "explore opportunities for joint development and production of oil and gas assets for mutual benefit and also invite investment in our domestic E&P sector".

Puri said the world is facing an unprecedented crisis of 3 Fs: food, fuel and fertiliser. "We are witnessing extreme price volatility in energy molecules. The most acute impact of this is felt in the global south."



Oil minister Hardeep Singh Puri at the Ethanol Pavilion at Auto Expo 2023, in Greater Noida on Friday Pri

Despite these challenging circumstances, the government has taken several measures to maintain energy security.

These include diversification of supplies, an increase of alternate energy sources like bio-fuels, ethanol, and compressedbiogas, increasing E&P footprint along with a focus on domestic production; and meeting energy targets through EVs and hydrogen.

"All these measures offer easy replication for achieving our respective energy security goals," he said.

India, he said, has increased ethanol blending in petrol from 1.53% in 2013-14 to 10.17% in 2022, well ahead of the November 2022 deadline, and advanced its target to achieve 20% ethanol blending in petrol from 2030 to 2025-26.

"To resolve the common concerns of the global south, India is proposing to create a Global Biofuel Alliance under G20,"he said.



Oil Set for Weekly Gain on China Optimism, US Outlook

Bloomberg

Oil headed for a weekly gain, rebounding from a weak start to the year, on China's improving demand outlook and as US inflation cooled.

West Texas Intermediate was steady near \$78 a barrel, up around 6% for the week. China ramped up purchases of crude this week after Beijing issued new import quota, and consumption is poised to surge to a record this year following the nation's dismantling of Covid Zero.

US consumer prices in December posted the first monthly decline since 2020, fueling expectations that the Federal Reserve will slow the pace of interest-rate hikes, and adding some bullish sentiment across financial markets.

Oil has pushed higher after a rocky start to the year, with a raft of forecasters from Goldman Sachs



Group Inc. to top hedge fund manager Pierre Andurand predicting prices will rally back above \$100 a barrel in 2023. There are also tentative signs that trading activity has picked up in the new year.

"Markets are upbeat on what China is doing at the margin, but I don't think everyone is sold on the roaring economy thesis," said Vishnu Varathan, the Asia head of economics and strategy at Mizuho Bank.



Green hydrogen pilot to cover steel, transport, shipping

SHREYA JAI New Delhi, 13 January

The newly launched National Green Hydrogen Mission (NGHM) has identified three key sectors for the pilot projects in order to replace fossil fuel with green hydrogen. Steel, long-range heavy-duty mobility, energy storage, and shipping are the hard-to-abate sectors that would take up the projects for using green hydrogen.

The Union Cabinet last week approved an initial outlay of ₹19,500 crore for the mission, which Prime Minister Narendra Modi had announced in his speech on the 75th Independence Day in 2021.

According to the plan released by the new and renewable energy ministry on Friday, for other hard-to-abate sectors, the mission has proposed pilot projects for replacing fossil fuels and fossil fuelbased feedstocks with green hydrogen and its derivatives.

"Pilot projects will help identify operational issues and gaps in terms of current technology readiness, regulations, implementation methodologies, infrastructure, and supply chains. These will serve as valuable inputs for future scaling commercial deployment," it said.

For steel sector, the mission has proposed to support efforts that enhance low-carbon steel production capacity. It said as the cost of green hydrogen is high, the steel plants can begin by blending a small percentage of green hydrogen in their processes and the blending proportion can be progressively increased. Green field projects aiming at 100 per cent green steel will also be considered, said the plan.

In the transport sector, the

mission is looking at commercial vehicles to drive the demand for green hydrogen. "The mission proposes to support deployment of fuel-cell electric vehicles, buses and trucks, in a phased manner on pilot basis. It will also explore the possibility of blending green hydrogen-based methanol/ethanol and other synthetic fuels derived from green hydrogen in automobile fuels," the plan noted.

Most ambitious targets are for the shipping sector wherein ports to shipping companies are expected to transition to green hydrogen.



India to see investments of \$58 bn in oil & gas, says Puri

India will likely see an investment of \$58 billion in finding and producing oil and gas resources in 2023, Oil Minister Hardeep Singh Puri said on Friday, adding global energy majors Chevron Corp, ExxonMobil, and TotalEnergies are keen to invest. India is looking to raise domestic output to help cut down reliance on costly imports. India imports 85 per cent of its crude oil, which is converted into petrol and diesel, and roughly half of its natural gas that is converted to CNG and used in industries.



\$58bn E&P investment this year: Puri

TIMES NEWS NETWORK

New Delhi: India expects an investment of \$58 billion in



the exploration and production (E&P) sector by 2023 and global energy majors such as Chevron,

ExxonMobil and TotalEnergies are keen on investing in the country, oil minister Hardeep Singh Puri said on Friday.

Addressing the Voice of Global South summit, Puri said the government has set a target to raise the geographical area under exploration and production to 0.5 million sq km by 2025 from the current 0.25 million sq km.

India, Purifurther pointed out, is ready to "explore opportunities for joint development and production of oil and gas assets for mutual benefit and invite investment in our domestic exploration and production sector". Puri said the world is facing an unprecedented crisis of 3Fs — 'food, fuel and fertiliser'.



\$58-bn investment in energy likely; Chevron, Exxon, Total keen: Puri

PRESS TRUST OF INDIA

NEW DELHI, JANUARY 13

INDIA WILL likely see an investment of \$58 billion in finding and producing oil and gas resources by 2023, Oil Minister Hardeep Singh Puri said on Friday, adding that global energy majors Chevron Corp, ExxonMobil and TotalEnergies are keen to invest.

India, the world's third biggest oil-consuming and importing nation, is looking to raise domestic output to help cut down reliance on costly imports. India imports 85 per cent of its crude oil, which is converted into petrol and diesel,



Union Minister Hardeep Singh Puri

and roughly half of its natural gas is converted to CNG and used in industries.

"We are expecting an investment of around \$58 billion in exploration and production (of oil and gas) by 2023," he said. "Several multinational corporations like Chevron, ExxonMobil and TotalEnergies are showing keen interest to invest in Indian exploration and production sector."







India likely to see \$58bn investment in oil, gas production

Chevron, Exxon, Total keen to invest: Puri

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Speaking at the Voice of Global South Summit, Puri said the government has targeted to increase the geographical area under exploration and production to 0.5 million sq km or 15% by 2025 from the current 0.25 million sq km.

"We are expecting an investment of around \$58 billion in exploration and production (of oil and gas) by 2023," he said. "Several multinational corporations such as Chevron, ExxonMobil and TotalEnergies are showing keen interest to invest in Indian E&P sector." India, he said, is ready to "explore opportunities for joint development and production of oil and gas assets for mutual benefit and also invite investment in our domestic E&P sector".

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Oil Minister Hardeep Singh Puri at the Auto Expo 2023 in Greater Noida on Friday. PTI

INDIA THIRD-BIGGEST **OIL CONSUMER**

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These include diversification of supplies, an increase of alternate energy sources like biofuels, ethanol, and compressed biogas and increasing E&P footprint among others. - PTI

The Tribune Sat, 14 January 2023 https://epaper.tribuneindia





India progressing fast on energy transition agenda: Puri

'We are also launching a Global Alliance on Biofuels, along with the USA & Brazil during India's Presidency of G20,' he said

STATESMAN NEWS SERVICE

ndia is the front-runner in mitigating climate change globally and is progressing fast on its energy transition agenda, Minister for Petroleum and Natural Gas Hardeep Singh Puri said today at the Auto Expo-2023 being held in Greater Noida.

Today's event, he said, marked the extent to which India was willing to innovate to keep its pledge of protecting the environment while simultaneously addressing the growing demand for ener-

The event, Puri said, would be an exposition of India's technology, capability and vision of the mobility for tomorrow-safer, cleaner, connected and shared. For the visitor, it would be an experience of the mobility eco-system that was unfolding every day and offering better solutions for all requirements. "It will also provide a platform for domestic and international investors and other stakeholders, he



The Auto Expo-2023 with the theme "Explore the World of Mobility" is being organised by the Automotive Components Manufacturers Association of India (ACMA), Confederation of Indian Industry (CII), and Society of Indian Automobile Manufacturers (SIAM).

The event is expected to feature more than 100 companies and to be attended by about three lakh visitors. "It will provide a unique opportunity to showcase India as both an engine of global economic growth and a driver for global consumption, supported by a conducive and investment-friendly environment, and a skilled workforce," he added.

Talking about the progress made by India in terms of ethanol blending, Puri said; we have increased the ethanol blending in petrol from 1.53% in 2013-14 to 10.17% in 2022, which was well ahead of November 2022 deadline and advanced its target to achieve 20% ethanol blending in petrol from 2030 to 2025-26." This, he said, has resulted in not only augmenting the country's energy security but also translated into a forex savings of over Rs. 41,500 crores, reduced GHG emissions of 27 lakh MT and benefitted farmers.

The minister said the government was setting up five 2G ethanol bio-refineries in the country at Panipat (Parali) in Haryana, Bathinda in Punjab, Bargarh (Parali) in Odisha, Numaligarh (Bamboo) in Assam and Devangere in Karnataka. "We are also launching a Global Alliance on Biofuels, along with the USA and Brazil during India's Presidency of G20," he said.



The Statesman Sat, 14 January 2023 https://epaper.thestatesman.com/c/71411322





Centre aims to increase crude oil exploration area by 15%

India expects \$58 b from global energy companies

FC CORRESPONDENT NEW DELHI, JAN. 13

The government is hopeful that global energy majors such as Chevron Corp, ExxonMobil and TotalEnergies are likely to invest over \$58 billion in finding and producing oil and gas resources in 2023.

The government, however, aims at increasing the geographical area under exploration and production to 0.5 million square kilometres or 15 per cent by 2025 from the current 0.25 million sq km.

India, the world's third biggest oil consuming and importing nation, is looking to raise domestic output to help cut down reliance on costly imports. India imports 85 per cent of its crude oil, which is converted into petrol and diesel, and roughly half of its natural



gas is converted to CNG and used in industries.

The government also said it is ready to 'explore opportunities for joint development and production of oil and gas assets for mutual benefit and also invite investment in our domestic oil sector.

Speaking at the Voice of Global South Summit on Friday, oil minister Hardeep Singh Puri said, "We are expecting an investment of around \$58 billion in exploration and production of oil and gas by THE GOVERNMENT also said it is ready to 'explore opportunities for joint development and production of oil and gas assets for mutual benefit and also invite investment in our domestic oil sector.

2023. Several multinational corporations like Chevron, ExxonMobil and TotalEnergies are showing keen interest to invest in the Indian E&P sector."

The oil minister further said the world is facing an unprecedented crisis of 3Fs — food, fuel and fertiliser. "We are witnessing extreme price volatility in energy molecules. The most acute impact of this is felt in the global south. Despite these challenging circumstances, the government has taken several

measures to maintain energy security for its citizens," he said.

Several steps in the oil and gas sector include diversification of supplies, an increase of alternate energy sources like bio-fuels, ethanol, and compressed biogas, increasing E&P footprint along with a focus on domestic production; and meeting energy targets through EVs and Hydrogen. "All these measures offer easy replication for achieving our respective energy security goals," he said.

India, the minister said, has increased the ethanol blending in petrol from 1.53 per cent in 2013-14 to 10.17 per cent in 2022, which was well ahead of the November 2022 deadline and advanced its target to achieve 20 per cent ethanol blending in petrol from 2030 to 2025-26.



Oil & gas sector may see \$58 bn investment in '23

ENS ECONOMIC BUREAU @ Mumbai

PETROLEUM minister Hardeep Singh Puri on Friday said India is expecting an investment of nearly \$58 billion in exploration and production of oil and gas by 2023.

Speaking at the Voice of Global South Summit, he further said the companies like Chevron, Exxon-Mobil, TotalEnergies are showing keen interest to invest in the Indian E&P sector.

"We are expecting an investment of nearly \$58 bn in exploration and production (of oil and gas) by 2023," he said. "Several multinational corporations like Chevron, ExxonMobil, and TotalEnergies are showing keen interest to invest in the Indian E&P sector."

India is the world's third-biggest oil-consuming and importing na-



tion and is looking to raise domestic output to help cut down reliance on costly imports. The country imports nearly 85% of its crude oil, which is converted into petrol and diesel, and roughly half of its natural gas that is converted to CNG and used in industries.



India likely see investment of \$58 bn in E&P sector, says Puri

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OUR CORRESPONDENT

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Oil Minister Hardeep Singh Puri

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"To resolve the common concerns of the global south, India is proposing to create Global Biofuel Alliance under G20," he said.

"The aim of the Alliance is to support projects in order to increase the deployment of biofuels and its related technology, offer alternate means of sustainable energy and finally move to its trading among the largest producers and consumers of biofuels."

E20 or petrol blended with 20 per cent ethanol, will be rolled out soon in 11 states and UTs much earlier than the initial target date of April 1, 2023. "15 cities will be covered under phase-1. We are targeting a phased rollout of E20 in the entire country between now and April 2025," he said.

Also, the government is targeting to set up a production capacity of 15 million tonnes of compressed bio-gas (CBG) from 5,000 plants by 2023 with an investment of \$20 billion.



Government to set up empowered group headed by cabinet secretary to steer Green Hydrogen Mission

NEW DELHI: The government will set up an empowered group headed by Cabinet Secretary for steering and guiding the implementation the National Green Hydrogen Mission, which aims to make India a global manufacturing hub the clean source of energy.

The group will comprise Principal Scientific Adviser to the Government of India, NITI Aayog CEO, and secretaries of various ministries besides departments of scientific and industrial research, promotion of industry and internal trade, and experts from the industry, according to the Mission

The Union Cabinet on January 4 approved the mission with an outlay of Rs 19,744 crore to make India a global hub for the manufacturing of this clean source of energy, and development of a production capacity of at least 5 MMT (Million Metric Tonnes) per annum with an associated renewable energy capacity addition of about 125 GW in the country by 2030.

The effective implementation of the Mission requires strong coordination among various ministries and departments of central and state governments, industry, institutions, and other stakeholders.

A flexible and result-oriented governance structure will be created for steering and guiding the implementation of the Mission, which was cleared by the Union Cabinet last week, the document stated.

Accordingly, an Empowered Group (EG) chaired by the Cabinet Secretary and comprising Principal Scientific Adviser to the Government of India, NITI Aayog CEO, and secretaries of various ministries besides departments of scientific and



industrial research, promotion of industry and internal trade, and experts from the industry will be set up, it said.

The EG will oversee the mission activities, provide guidance, continuously monitor progress, recommend policy interventions to be made in furtherance of mission objectives and approve mid-course corrections if required.

A National Green Hydrogen Advisory Group comprising experts from academic and research institutions, industry, and civil society will also be constituted to advise the EG on all science and technology related matters pertaining to the Mission.

It will carry out technology gap analysis for various aspects of the value chain and accordingly define broad performance and cost targets based on global benchmarking.

The Ministry of New and Renewable Energy (MNRE) will be the nodal coordinating ministry for the Mission and will undertake the overarching policy formulation and programme implementation with an aim to scale up production of green hydrogen, green ammonia and other derivatives and enable cost reduction. The government has also identified several risk factors which will be dealt with timely action through necessary policy changes to make the National Green Hydrogen Mission a success, it said.

"The success in achieving the outcomes of this mission is dependent on several factors. It will require constant monitoring, indexing, and sufficient flexibility for mid-course corrections. The underlying governance framework will

be tasked with risk identification, classification and timelyaction through necessary policy changes," according to the mission document.

The mission seeks to minimise various risks through an appropriate mix of financial and non-financial levers, and review mechanisms. These will be monitored regularly by the mission secretariat through regular consultations with stakeholders.

"An indicative categorization and associated management/mitigation measures for the likely risks are detailed (mission in the document)," it said.

Strategic risks like supply chain disruptions in critical inputs will be dealt with measures like diversification in supply chains.

Diversification of technology options, funding of multiple R&D and pilot threads, besides collaborative platforms for industry, academia and startups will be prepared to deal with technology disruptions and unforeseen developments.

Steps will also be taken to mitigate operational/project level risks involving water availability, land availability and safety concerns.



Start introducing green vehicles in market: Puri asks automakers

GREATER NOIDA: Union Minister Hardeep Singh Puri on Friday asked automobile manufacturers to move from the prototype stage and start introducing green vehicles in the market, saying the time has come for biofuels and other clean energy technologies.

In his address at a symposium here at the Auto Expo 2023, the Minister of Petroleum and Natural Gas said India has also advanced the 20 per cent ethanol blending target to 2024-25 from 2030 and as a pilot E20 will be available in many pumps soon, ahead of the earlier schedule of April this year.

The minister earlier inaugurated the 'Ethanol Pavilion' at the expo where passenger vehicle makers — such as Maruti Suzuki and Toyota Kirloskar Motor along with two-wheeler majors TVS, Hero MotoCorp, Bajaj Auto, Honda Motorcycle, Yamaha and Suzuki motorcycle

— are displaying their working prototype of flex-fuel vehicles. These vehicles can take a range of ethanol blends varying from 20-85 per cent.

"I want to congratulate you, and I'm delighted, because biofuels, and all the other clean energy, the time has come," he said.

Puri said India is a place where it's not just economies of scale but where "when we do something hundreds and thousands of people will follow".

"So, whether it's electric vehicles, whether it's hybrid models...I want to tell both the domestic manufacturers and (international) manufacturers, I think the time has come, please move from the stage of the prototypes and start introducing the models in the market," he noted.

The minister asserted that he is "100 per cent confident that they will succeed" not just as an

economic proposition for the manufacturers but for the green journey that India is undertaking in transitioning to total green sustainable fuel.

On ethanol blending, he said E10 fuel is now available in most parts of the country and the government is taking steps to enhance the level of blending.

'Insofar as E20 is concerned, we will have the rollout very soon...We are now taking it to E20 three months before the schedule. It was earlier scheduled for April of 2023. We are doing it now several months in advance," Puri said, adding the fuel as a pilot would be available in many pumps. At the symposium, a memorandum of understanding was also signed between the US Grains Council and Society of Indian Automobile Manufacturers for the clean energy partnership, aimed at knowledge transfer on ethanol technology.



तेल-गैस उत्खनन, उत्पादन क्षेत्र में 58 अरब डॉलर निवेश आने की उम्मीद: पुरी

नई दिल्ली, (भाषा)। पेट्रोलियम एवं प्राकृतिक गैस मंत्री हरदीप सिंह पुरी ने शुक्रवार को कहा कि वर्ष 2023 में देश के तेल एवं गैस के उत्खनन एवं उत्पादन क्षेत्र में 58 अरब डॉलर का निवेश आने की उम्मीद है। उन्होंने कहा कि शेवरॉन कॉर्प, एक्सनमोबिल और टोटलएनर्जीज जैसी वैश्विक ऊर्जी कंपनियां भारत में निवेश के लिए उत्सुक हैं।

दुनिया में पेट्रोलियम उत्पादों का तीसरा बड़ा आयातक देश भारत घरेलू स्तर पर तेल उत्पादन को बढ़ावा देकर आयात पर निर्भरता कम करना चाह रहा है। भारत फिलहाल अपनी जरूरत का 85 फीसदी कच्चा तेल आयात से ही पूरा करता है। पुरी ने वॉयस ऑफ ग्लोबल साउथ समिट को संबोधित करते हुए कहा कि सरकार ने वर्ष 2025 तक तेल-गैस उत्खनन एवं उत्पादन क्षेत्र को 15 प्रतिशत बढाकर पांच लाख वर्ग किलोमीटर करने का लक्ष्य रखा हआ है जो फिलहाल 2.5 लाख वर्ग किलोमीटर क्षेत्र है। पुरी ने कहा, हम वर्ष 2023 में तेल-गैस के उत्खनन एवं उत्पादन क्षेत्र में करीब 58 अरब डॉलर का निवेश आने की उम्मीद कर रहे हैं। शेवरॉन कॉर्प, एक्सनमोबिल और टोटलएनर्जीज जैसी वैश्विक ऊर्जा कंपनियां भारत के तेल उत्खनन एवं उत्पादन क्षेत्र में निवेश करने की मंशा जता रही हैं।