



ONGC News as on 25 August 2023 (Print)



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India Inc's green hydrogen pilot gathers steam; economics yet to add up

AMBIRA PILLY
Mumbal, A Jagust

The current financial year (2023-24, or FY24) is emerging as one in which multiple Indian companies are setting their green hydrogen ambidions in the properties of the properties

hydrogen sector in India.

According to another executive familiar with the matter, "All the required approvals for the tripartite JV are now in place, with the JV formation under process."

Construction is underway at Reliance industries glas complex in Jammagar, which will also house the planued electrolyser manufacturing and the planued electrolyser manufacturing the planued electrolyser manufacturing and the planued electrolyser manufacturing the planued of state-owned GAIL (India), informed shareholders on Wednesday that the company's 10 megawatt green hydrogen poduction unit, the largest in India with a capacity of 4.3 tonnes per day in Vigilapur (Madhya Pradesh), is expected to be commissioned by December.

"Several Indian companies are in the process of commissioning commercial-scale green hydrogen plants in India in 2022-23 through F72-23 through F72-23 through F72-23 through F72-23 through F72-24 through



partner & leader/sustainability & ESG, BDO India. Ghosh expects most Indian green hydrogen manufacturers should be able to produce green hydrogen for \$1-2 by 2030. Not everyone shares this

view. Pranav Master, senior practice director-consulting at CRISIL, remains sceptical about achieving \$1 per kilo-gram (kg) even with the head start seen in FY24. "Hitting \$1 per kg by 2030 would be very challenging; significant

scale-up, technological developments, and further incentives are crucial. From where we are in 2023, that cost seems unlikely by 2030," he says. Sarma points out: "A technological breakthrough has to happen in storage

electrolyser efficiency has to improve, and finally, demand has to be generated for economies of scale. Today, it and finally, demand has to be generated for economies of scale. Today, it ation — unless the price comes down, demand will not go up."

Master adds that on the funding side, significant project finance closure is yet to be seen.

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India's intent to trim fuel output investments threatens supply security

India's energy supply security is threatened by New Delhi's overdrive to slash new fossil fuel production facilities, while lagging behind on electric wehicle (EV) prolifera-tion. The move also seems out of syne with evolving realities of energy use in a post-pandemic, post-Uranie world. UK Prime Minister Rishi Sunak recently

pandemic, post-Ukraine world.

UK Prime Minister Rishl Sumak recently announced that the government would grant at least 100 new North Sea oil and gas licences, a stark turnaround for a nation which was an early proponent of clean energy measures. His policy shift echoes the turnaround in the stance of European oil majors, which are weering away from lower-return renewables to focus on their core fossil fuel businesses. by this year saded back plants to cut oil output to 25 per cent. from 2019 levels compared with previous plants for a 40 per cent cut. Shell plants to spend around \$40 billion on upstream and trading between 2023-2025, while scraping projects on offshore wind, hydrogen, and biofuels.

The lower dependency on fossil fuels is understandable. Last year, Exon., Shell, Total, Equinor, Chevron, and by made substant dearnings of a combined 5232 bit.

understandable. Last year, Exxon, Shell, Total, Equinor, Chevron, and bp made adjusted earnings of a combined \$223 bil-lion, 6 per cent of India's GDP. Shell's new chief has said it will maintain oil output

SLIPPERY SLOPE

The addition under the latest oil ministry size adjusted that Indias report by Centre for High Technology, a technical wing of the demand, leave little for exports of the propert by Centre for High Technology, a technical wing of the oil ministry. The measily addition under the lates end by 2028 to 8.2 million by disposition of the sport by Centre for High Technology, a technical wing of the oil ministry. The messely addition under the lates end by 2028 to 8.2 million by disposition of crass will traised amount to a capacity increase by 1.2 million by 2.0 million by 2.

Upcoming capacity of 1 million bpd may yield only around 600,000 bpd of fuels because around 25 per cent of the capacity from new refineries will be dedicated to petrochemicals, and another 10 per cent used to run the refinery, said Mukesh Surana, former chairman, HPCL, and bead of featurent Petrosti Refinery



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Oil companies clash on retail outlet at Boduppal

L. RAVICHANDER HYDERABAD, AUG. 24

Justice S. Nanda of the Telangana High Court reserved her order on a battle of wits between Indian Oil (IOCL) and Bharat Petroleum (BPCL). The judge was hearing a writ petition filed by Bhommak Chandrashekar who was allotted a retail outlet at Boduppal, Medchal district, by IOCL.

Medchal district, by IOCL.
While IOCL send the intimation in February 2020, it issued the letter of intent (LoI) two years later. In the meanwhile, BPCL issued a LoI to a person 55 metres away. Chandrashekar was denied a licence on the ground that the proximity of petrol bunks was contrary to the Indian Roads Congress (IRC). Challenging this, Chandrashekar filed the petition.

The oil companies claimed parallel rights to have a retail centre as allotted by them. The BPCL allotee is a widow who was offered a one-time transfer from her original place of licence in Gujarat. IOCL contended that the rules made by the IRC were directory and not mandatory. It also contended that the area was allotted to the company in 2018, and it could not be faulted.

POLYCLINIC LICENCEE REMOVAL CHALLENGED

Justice Chillakur Sumalatha of Telangana High Court granted time to a private citizen to engage counsel in a case where the cancellation of the licence of a polyclinic in Wanaparthy is under challenge. The cancellation of

The cancellation of the licence was the outcome of a marital dispute between Dr Laxmi



Kumari who along with her husband Dr Pramod Kumar runs Sri Balaji Polyclinic at Wanaparthy. She complained that the district medical and health officer (DMHO) had cancelled the licence on the ground that a complaint had been made by Dr Kumar, her estranged husband.

She complained that

She complained that she was running the polyclinic, the notice ought to have been given to her. Dr Kumar appeared before the court on Thursday.

POLICE TOLD TO PRODUCE KID IN COURT

A two-judge bench of the Telangana High Court on Wednesday directed the police to secure custody of a seven-year-old and produce her in court on September 5.

September 5.

The bench of Justice K. Lakshman and Justice K. Sujana was hearing a habeas corpus petition filed by the mother. Petitioner's counsel T. Swetcha said the couple was married in 2014 and had two children, one of them seven years old and the other two years old. Differences cropped up between the couple and that the husband forcibly sent his wife out of the matrimonial house and deprived her of the custody of her minor children.

On the persistent request of the elders, the husband gave the custody of the twoyear-old male infant to the mother. Another meeting was to be held but the husband blocked the contact number, changed his residential address and absconded with the seven-year-old daughter. The petitioner approached the Malkajgiri police and registered a case of domestic violence against the husband and his family members. She approached the Lalaguda police to trace her missing daughter.

daughter.

The petitioner used to wait at her daughter's school but the husband on coming to know of this changed the school. Swetcha stated that the child needed care and affection of the mother and asked that she be produced before the court.

HC DIRECTION ON STRAY DOG MENACE

A two-judge bench of the Telangana High Court on Thursday directed the GHMC to take measures to vaccinate stray dogs, and file a report by October 5.

The bench of Chief Justice Alok Aradhe and Justice T. Vinod Kumar was hearing a public interest litigation filed by Vikramaditya, a student from Vanasthalipuram, who alleged that the Greater Hyderabad Municipal Corporation was not taking measures to vaccinate street dogs and was not providing the strays sufficient food for survival. Greater Hyderabad Municipal Corporation counsel said that of the 2.18 lakh stray dogs, 50,000 had been vaccined at a visit foot of the strays sufficient food for survival.

nated and sterilised.
It said measures were in progress with the help of five animal welfare organisations and dog care centres.



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VISIT — EIL

A delegation led by CMD EIL, Vartika Shukla visited the A delegation led by CMD EIL, Vartika Shutuki visiteo ume Mongol Refinery Project, Mongolia, where the team met Mongolia's Deputy PM, Khurelbaatar Chimed, Deputy Speaker of State Great Hural (Parliament) of Mongolia, Munk

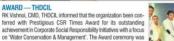
-IREDA

MOU — IREDA IREDA signed performance-based & MoU with the Ministry of New & Renewable Energy, GOI. The MoU, in alignment with Department of Public Enterprises guidelines, outlines stategic tragets that READ aims to achieve during the fiscal yrs 23-24 & 24-25. The MOU was signed by Bhuginder Shigh Bhala, 8ce, MMRE & Pandig Numer Das, XOII, DIEDA at Atal Akshay Urja Bhawan, New Delhi in the presence of sr officials from MNRE & IREDA.



Moll-RITES

MOU—RITES
RITES Ltd. signed an MoU with NHPC Ltd. to collaborate on comprehensive consultancy services for rail infrastructure facilities for NHPC's thydropower projects. The collaboration will encompass consultancy services for new rail connectivity, logistics. Barmy allied infrastructure, including RLS/SILO & conveyor systems, at Pasighat for NHPC's 2880-MW Dibang Multipurpose Project in Arunachal Pradesh.



achievement in Corporate Social Responsibility Initiatives with a focus on Water Conservation & Management: The Award ceremony was presided by Mich, Health & Family Welfare, Prof. SP Singh Baghel. Dr. Laszlo Makk, Deputy Head of Mission.

VISIT - INDIAN COAST GUARD

Director General Indian Coast Guard, Rakesh Pal, PTM, TM, along with President Tatrakshika, visited Mumhai recently to review th operational preparedness and infrastructure development post taking over the helm of the Indian Coast Guard. DGICG also ged in interactive sessions with officers, men & civilian staff of the Western Seaboard.







DEDICATED — PNB
PNB dedicated its Air Force Station Palam Branch in Delhi recertly
as part of the bank's commitment to the Indian Armed Force
The branch is dedicated to My Gir Clarence, Joseph Difma, VM
who made the supreme sacrifice while saving the lives of Late
PM Moraji Desian ahn's sertourage during a catastrophic aviation
crash in Jorhat on November 4, 1977.





CORPORATE BRIEFS



WORKSHOP — SCOPE
SOPE in association with the Institute of Chartered Accountants of India (ICAI) organized an Interactive
Workshop on "freasury & Financial Risk Management of PSEs." Atul Sobit, Director General, SCOPE; Rakesh
Kumar Jalin, Director (Finance), GAIL; CA (Dr.) Anuj Goyal, Chairman, Research Committee, ICAI; Lokesh
Kumar Aggarwal, Director (Finance), ITDC & Member, SCOPE Executive Board and Dr. Amit Kr. Agrawal,
Secretary, Research Committee, ICAI addressed the inaugural session. The workshop aiming to equip
participants about treasury management strategies and effective financial risk mitigation techniques was
attended by many senior officials from various CPSEs across the country.

EXHIBITION'S INAUGURATION - CENTRAL COTTAGE INDUSTRIES EMPORIUM

EXHIBITION'S INAUGURATION—CENTRAL CI
Plyush Goyal, Union Minister of Commerce & amp,
Industry, Consumer Affairs, Food & Public Distribution
& Amp; Textilles, Govt. of India, inaugurated the
"NAVARATAN" exhibition organized by the Ministry of
Textilles in Collaboration with NIFT and Central Cottage
Industries Emportum at G-20 (TIMM) Jajuar recently.
Ajay Gupta, Joint Secretary, Ministry of Textilles & MD
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INAUGURATION—GSL
The Damage Control Simulator (DCS) 'Amogh' constructed by Goa Shipyard Ltd for Indian Navy as inau-gurated at Andama A Nicobar Command, Port Blair on 18 Aug 2023. The Inauguration ceremony was presided by Vice Admiral Sariay Mahnirdu, AVSM, MM, Deputy Chief of Naval Staff in the presence of Air Marshal Saju Balaxistrana NXVM, MC commander—Chief, Andraman Nocbar Command, Senior high ranking Offices from the Indian Navy & Sunil Bagi, Director (Finance) GSL. This Damage Control Simulator is the fourth such facility being commissioned for the Indian Navy by SSL. The earlier Simulators were installed at Naval Training establishments situated at Visakhapatnam, Lonavala and Kochi.

MILESTONE IN MANUFACTURING - BHEL

MILESTONE IN MANUFACTURING – BHEL
Bharat Heavy Electricals Limited has successfully manufactured India's
first set of Catalysts for Selective Catalyst Reactors for limiting Mox
emissions from thermal power plants. Notably, these catalysts were bither to
being imported and this is a significant milestone under the Wake in India
initiative of the government of India. The first set of indigenously
manufactured SOX catalysts for the Sao00 MW Yadard Inhermal Power Station in Telangaria was Rapper off by
Renuka Gera, Director (Industrial Systems & Camp; Products), BHEL, from the company's Solar Business
Division until in Bengalium, Parkiaj Gupta, ED, S802, Amil Joshi, Executive Director, Industry Sector and other
employees of SBM were present on the occasion. BHEL has been committed to environment protection and
offers a complete bouquet of environment-friendly technologies for thermal power plants.

LAUNCH - PUNJAB NATIONAL BANK



LAUNCH – PUNJAB NATIONAL BANK
ON World Senior Citizen's Day,
PNB introduced the Pensioner's
Lounge, a dedicated space within the branch that serves
pensioners & sc citizens with all
their banking needs. As part of the presence of their accomplishments & contributions to society at its
Bibliaji Came Plese branch in Delhi. The inauguration ceremony was
held in the presence of the Bank's MD&CEO, ED, CGMs, GMs, Zonal
Managers, other bank officials and customers. As an additional gesture
of gratifule, the bank also conducted health check-up camps for PNB's
pensioners at 121 centres.

CAMP—BSES RAJDHANI



CAMP—BSES RAJDHANI
Artificial Limbs Manufacturing Corporation
(India, in partnership with BSES Rajdhani
Power Ltd., organized a camp, recertly, to
distribute aids and appliances to over 650
elderly persons and people with disabilities from society's
disabrantaged sections. The camp was inaugurated by the MoS for
External Affairs & Culture, Meenakshi Lekhi, Sr. BRPL officials were
present at the event. The beneficiaries were handed over appliances &
ads, including wheelchairs, crucities, walking sticks, speciacles, chairs
(with Commode), hearing aids, walkers, kine be brace kits, etc.

77TH INDEPENDENCE DAY — WEST CENTRAL RAILWAY



TRTH INDEPENDENCE DAY

The 77th Independence Day celebration was celebrated at Jagrit Ball Grith, run by the WCR Wormer Weffare Organisation, Jababjun; with Swaropan Adlamath, the wife of the Chief Justice of MP High Court, as the Chief Guest, under the guidance and with the support of Dr. Sandhya Gupta, President of West Central Railway Women Weffare Organisation, Andrana Szorav, Love President, Amrita Sharma, Secretary, Suvarian, Tressurre, & other West Central Railway Women Weffare Organisation members were present on the occasion. During the programme, the Children of Jagriti Ball Grit presented cultural performances.

resemble dultural performances.

KRIBHCO The Home & Cooperative Minister, Amit Shah, conducted a needing with the Board of Directors at the KRIBHCO Deadquarters in Noida. During this insightful interaction, the Home & Cooperative Minister shared his vision to bolder the cooperative movement & address its development agaps in collaboration with KRIBHCO. He emphasized the expansion of KRIBHCOS Sharal Development Trust as a mechanism or neetily these declinencies. The Minister proposed that KRIBHCO undertake the responsibility of adopting 1,000 Primary Agricultural Cooperative Societies to facilitate fertiles distribution, common service centre operations, & food storage for PACS. He urged the creation of a test 3200 model PACS per yer capable of implementing new initiatives introduced by the Ministry of Cooperation. The Minister visited the soil seed-desting planoratory, where he withous perfudiculate stering procedures. In his address, he emphasized strengthening the congrative structure & Sotsering its growth, particularly in the export domain. He inaugurated the latest edition of KRIBHCOS in-house half-yearly magazine, "KRIBHCO News," During the visit, Chairman KR-BHCO assured him that KRIBHCO would act as per his directions & implement all his visions.

NBCC, conducted 20 th auction for the sale of commercial space in the

NRCC conducted 20 th auction for the sale of commercial space in the NBCC, conducted 20 th auction for the sale of commercial space in the Windfi Tadlo Cortin, Nauroli Mapar, Mr. The Company has old a total of 1.98 lakh sq.ft built up area for Rs. 821.02 cr, out of which 1.23 lakh sq.ft. area having sale value of Rs. 518.08 cr has been sold to private entities. Further as on date the company has sold a total para of 17.79 lakh sq.ft through open e-auction having sale value of Rs. 7194.10 cr.



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Centre focused on green growth: FM



FINANCE MINISTER
NIRMALA Sitharaman
on Thursday said the
Centre is focused on
driving green growth through a
range of green reforms, reports
fe Bureau. "Green hydrogen
has a pivotal role to play in
enabling a low-carbon and
self-reliant economy,"
Sitharaman said.
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Govt focused on green growth: FM

FE BUREAU New Delhi, August 24

FINANCE MINISTER NIRMAL A Sitharaman on Thursday said the government is focused on driving green growth through a range of green reforms.

"This will provide a roadmap towards

reducing carbon intensity in the economy and enable the creation of green job oppor-tunities. Green hydrogen has a pivotal role to play as we counter climate change and work towards enabling a low-carbon and self-reliant economy,"

Sitharaman said.



Finance Minister Nirmala Sitharaman

The minister added that the government was aiming to make India a global hub for production, utilisation and export of green hydrogen. She was speaking at the launch of HSBC India's strategic partnerships

towards enabling innovation in Green Hydrogen.

HSBC India has partnered with IIT (Indian Institute of Technology) Bombay and Shakti Sustainable Energy Foundation (SSEF) to pur-sue technological advancements to make green hydrogen more efficient, cost-effective, and scalable. These two partnerships, with total grant support of ₹15 crore, will focus on innovation projects that will help prioritise green hydrogen as a strategic alternate fuel, help in building a robust, green hydrogen

neep in building a robust, green hydrogen economy, and achieve the government's vision of an energy-independent nation. Sitharaman welcomed the efforts and partnership of HSBC India, IIT Bombay and SSEF in addressing the chal-lenges in this segment and working on solutions to make green hydrogen scalable and commercially feasible.



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'India's net-zero transition offers \$12.7 tn opportunity'



New Delhi: India's ambitious path toward a net-zero economy by 2050 presents an unprecedented investment opportunity estimated at \$12.7 trillion, according to the New Energy Outlook: India report released by Bloomberg NEF. The report highlights both the challenges and opportunities that lie ahead. SAURAY ANAND



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Mandatory green hydrogen plan may go to cabinet soon

Industries such as refineries and fertilizer makers may soon have to follow a green hydrogen consumption mandate, with the ministry of new and renewable energy (MNRE) set to approach the Union cabinet with a proposal.



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Mandatory green hydrogen plan may go to cabinet soon

Energy ministry in talks on consumption levels; move follows incentive scheme for sector

Rituraj Baruah

rituraj.baruah@livemint.com NEW DELHI

ndustries such as refineries and fertilizer makers may soon have to follow a green hydrogen consumption mandate, with the ministry of new and renewable energy (MNRE) set to approach the union cabinet with a proposal.

Addressing the BloombergNEF summit here, minister for newand renewable energy R.K. Singh however said that talks are still underway on the green hydrogen consumption mandate level, which is yet to be decided.

"We amended the Energy Conservation Act, which gives power to government to lay down mandates for changing the feedstock from fossil to non-fossil. So I can mandate fertilizer, petroleum etc. for instance. I can ask fertilizers and petroleum (refineries) that you are using grey hydrogen or grey ammonia and a certain percent-

age of that has to be green from this year onwards, gradually escalating it so that 100% of that is green," Singh said.

"We have had discussions with the concerned ministries on this. Basically, that mandate-fixing is in process. By and large, we have had the discussions and we have come up with some figures, and we will go to the cabinet soon."

The plan to boost demand for green



RK Singh, minister for new and RE, says the mandate-fixing is in progress.

hydrogen comes a couple of months after the ministry rolled out incentive schemes worth ₹17,000 crore for production of green hydrogen and manufacturing electrolyzers.

The mandate was expected to be announced with the rollout of the mission, but was delayed amid disagreements over the level.

The minister said 5.8 million tonnes of green hydrogen manufacturing is already in different stages of installation and that India's "low

installation and that India's "low cost" of renewable energy would lead to production of the cheapest green hydrogen globally.

Recently, the ministry rolled out the

 $standard \, for \, green \, hydrogen \, produced \, in \, the \, country.$

The government mandated that manufacturing units cannot emit more than 2 kg of carbon dioxide per kg of hydrogen.

Earlier this year, the union cabinet had approved the National Green Hydrogen Mission with an aim to produce 5 million tonnes of green hydrogen annually, with an associated renewable energy capacity addition of about 125 GW in total.

In June, the government notified the Strategic Interventions for Green Hydrogen Transition Programme (Sight), under which ₹13,050 crore would go for incentivizing production of green hydrogen, and another ₹4,440 crore for electrolyzer production.

The government has allocated ₹19,744 crore for the Green Hydrogen Mission. Apart from the Sight scheme to support production of electrolyzers and green hydrogen, the government will allocate ₹1,466 crore for pilot projects, ₹400 crore for research and development, and ₹388 crore for other mission components.

Under the ambitious mission, the Centre aims to make India a global hub for production, usage and export of green hydrogen and its derivatives.

Green hydrogen would be used in a number of sectors including petroleum refineries, fertilizer and steel, which are called "hard-to-abate" sectors in terms of carbon they emit.

The use of green hydrogen gains significance as several export- oriented industries including steel are preparing

mt

izers from 2026.

to face the disruption which may be caused with the implementation of Carbon Border Adjustment Mechanism (CBAM), a carbon tax proposed by the EU.

2030 India is exploring tariff and non-tariff measures to counter the EU measure, which proposes to put a tax on embedded carbon imports from various sectors, including steel, aluminium, cement, hydrogen, electricity and fertil-



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Total spending on fuel subsidies topped \$7 trillion in 2022, says IMF

Global subsidies for fossil fuels rose by \$2 trillion over the past two years to reach a record \$7 trillion in 2022, according to new estimates from the International Monetary Fund (IMF). "Subsidies for oil, coal and natural gas are costing the equivalent of 7.1% of global gross domestic product," the IMF said. "That's more than governments spend annually on education (4.3% of global income) and about two thirds of what they spend on healthcare (10.9%)."

REUTERS



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Tata Power, Zoomcar join hands for EV adoption

Tata Power EV Charging Solutions on Thursday said in has tied up with car-sharing platform Zoomcar to promote electric which adoption. The collaboration aims to promote Tata Power's EX Charge points on the Zoomcar platform and will focus on supporting existing and aspiring EV owners along with Zoomcar's existing customers.



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Suzion bags 31.5-MW wind energy project
Renewable energy solution provider
Suzion Gioup on Thursday announced
that it has bagged an order from
Integrum Energy Infrastructure for the
development of a 31.5-MW wind endorse
project. The company did not disclose
execute the project with a scope of
supply, installation, and commissioning,
the company said in a statement.



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India needs \$13 trillion to hit net zero emissions by 2050

Bloomberg

India will need to invest \$12.7 trillion in its energy system, or more than three times its gross domestic product, to reach net zero emissions by mid-century and help the world avert disastrous planetary warming, according to BloombergNEF.

Hitting that target early
— ahead of India's official
goal of 2070, which lags the
world's largest economies
— will require moving
swiftly to clean-up the
country's vast and coal-dependent electricity sector,
according to BNEF's New
Energy Outlook for India,
published on Thursday.

according to BNEF's New Energy Outlook for India, published on Thursday.

That means grid investments to handle variable renewable power, and scaling up the cash going into green energy.

green energy.

The world's third-biggest emitter of green-house gases now produces about 70 per cent of its electricity from coal, and the same fossil fuel under-



BIG MONEY. Hitting the 2050 spending target in line with global climate goals means \$438 b of investment every year

pins a range of heavy industries, such as steel, cement and aluminium. That's despite rapid expansion in renewable energy, with a record 16 GW of utility-scale solar installed in 2022.

Hitting the 2050 spending target in line will global climate goals means \$438 billion of investment every year until the deadline, according to BNEF data, a massive jump for a country that invested \$17 billion in energy transition technologies last year. Cu-

mulative investments to expand power generation capacity alone will have to reach \$2.8 trillion by 2050

reach \$2.8 trillion by 2050

— \$2.7 trillion of that would be low-carbon, or more than \$90 billion a year.

GLOBAL CAPITAL

"Building all the necessary infrastructure would require investments at an unprecedented scale and speed, which the Indian banks alone may not be able to meet," said Shantanu Jaiswal, head of India

research at BNEF. Global capital has been cautious. Eight of the global top 10 pension and sovereign wealth funds are yet to invest in India's renewable-energy sector, according to BNEF, while India's own pension and life insurance funds face restrictions.

Under BNEF's ambitious 2050 scenario, power-related emissions in the country would peak in 2024.

Transport sector emissions would top out in 2028 with a rapid deployment of electric vehicles, while industrial emissions are seen reaching a maximum in 2031 followed by a sharp decline.

sharp decline.

The only lower-middle-income nation among the very largest emitters, India aims to reduce the emissions intensity of its GDP by 45 per cent from 200 levels by 2030, and to have half of its power generation capacity run on clean sources — solar, wind, nuclear and hydropower — by the end of this decade.



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Discom health key to meeting economy's power needs

Saloni Sachdeva Michael Vibhuti Garg

Liectricity distribution companies (Discoms) are the backbone of the country's power sector. Their poor financial health can have a ripple effect on the efficient functioning of the electricity generation and transmission sector. For India's growth momentum to stay intact, the effective functioning of all three is crucial. The Central Electricity Authority's (CEA's) Optimal Generation Mix report for 2029-30 projects a peak electricity demand of 334.8 gigawatts (GW) and electrical energy requirement of 2,279.7 billion units (BU) for 2029-30. To meet this demand, India needs to add 777.1 GW of capacity, including 251.7GW of coal and lignite, 292.7 GW of solar photovoltaic, 99.9 GW of wind and 53.8 GW of hydro.

Given the uncertainty around Discoms being able to effectively cater to demand, Indian consumers, especially commercial and industrial (C&I), installed 77 GW of captive installed capacity as of June 2022. Further, most residential consumers have backup power, which either runs on battery or diesel, adding to carbon emissions. In rural areas, people stack fuel like kerosene, solar home systems and solar pumps, in addition to the grid, to deal with erratic power supply. The political economy is critical in

The political economy is critical in determining the electricity tariff, with most States providing subsidies to agricultural and residential consumers. However, these subsidies are poorly targeted, adding to the financial woes of Discoms.

In the last couple of years, the government has announced several measures to instil financial discipline in Discoms — improved cash flows, a streamlined accounting process, differential time-based tariffs and strengthened demand projections.

The recent amendment to the

The recent amendment to the Electricity (Second Amendment) Rule 2023 aims to improve subsidy payments to Discoms by streamlining the accounting, reporting and billing



SUBSIDY. Must be streamlined

processes. Moreover, the government's decision to implement Time of Day (ToD) tariffs for C&I consumers from 2024 onwards and smart prepaid meters' installation will not only ease the strain on the grid during peak hours but also encourage responsible electricity consumption patterns and optimise costs. Shifting the power demand from evening to daytime can help reduce tariffs by tapping into solar power, and such measures can promote greater deployment of clean energy. With the help of the July 2023 CEA

With the help of the July 2023 CF guidelines on power demand projections, Discoms can plan and optimise their operations, resulting in reduced losses and improved efficiency.

The Finance Ministry has earmarked ₹1.4 trillion (\$17.3 billion) under additional borrowings in FY24 for States to undertake power sector reforms. This includes transparency in the reporting of financials, timely rendition of financial/energy accounts and auditing, providing subsidies through direct benefit transfer (DBT) to consumers and achieving targets for reduction in Aggregate Technical and Commercial (AT&C) losses.

These government initiatives are already creating a positive impact. AT&C losses have reduced from 23.7 per cent in FY16 to 15.8 per cent now, according to the Ujjwal Discom Assurance Yojana (UDAY) dashboard. The government aims to reduce losses by improving the billing and collection ratio through smart metering.

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With 7-MW solar power plant, Pune CME is India's first carbon negative garrison

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PUNE-BASED College of Military Engineering (CME) said on Thursday that with the commissioning of a 5-megawatt (MW) solar power plant — taking its solar power generation capacity to 7 MW — it has become India's first carbon negative garrison or military formation.

The CME, which was established in 1948 as a premier institute of the armed forces, trains all ranks of Indian Army, Navy and Air force, including those from friendly foreign countries in various technical and tactical aspects with changing character of warfare.

Aplethora of projects has been undertaken in the recent past at CME by the Military Engineering Services (MES) through the office of Garrison Engineer (CME), Khadki, in order to reduce the institute's carbon footprint. The biggest project is implementation of the 7-MW solar power plant in



College of Military Engineering campus in Pune. Express

CME in two phases, apart from multiple important pilot projects such as solar steam cooking plants for community cooking for troops at CME and installation of Retrofitting Emission Control Devices (RECDs) on diesel gener-

ator sets to curb emissions.

The first phase of the 7-MW solar power plant was undertaken with the commissioning of a 2-MW solar power plant in 2021 fulfilling the daytime energy requirements of the CME. The commissioning of the 5-MW

plant in the second phase has been key in achieving the objective of 'National Solar Mission under Government of India. Success of the project has paved the way for other formations and tri-services establishments to become carbon negative in the future, officials said.

The CME said in a press statement on Thursday that apart from annual fiscal savings of Rs.6.5 crore to the national exchequer, the 5-MW plant connected to the Maharashtra State Electricity Grid

makes it possible for the power generated at CNIE to be consumed at National Defence Academy at Khadakwasla, Command Hospital Pune, Military Hospital Khadki and Bombay Engineer Group and Centre, Khadki, spread across the city of Pune, thus further ensuring achieving of 'National Clean Air Programme' by reducing dependency on conventional thermal power plants.

"With commissioning of a 5-

"With commissioning of a 5-MW solar power plant, the CME has become a completely carbon negative garrison — a first in India which is an impressive feat," the press statement said.

The carbon negative refers to an entity emitting less than zero carbon dioxide and carbon dioxide equivalent (CO2e) greenhouse gasses, effectively. Emitting a negative amount of carbon being carbon negative refers to the net emissions of the entity by offsetting more carbon, through processes like carbon capture, sequestration and avoidance, than the entity contributes to the environment.