



MINISTÈRE
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REVUE DE PRESSE SECTORIELLE

ENERGIE ET DEVELOPPEMENT DURABLE

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En bref

Infrastructures

- Investcorp va investir 400 M USD dans la construction d'écoles et d'entrepôts en Inde pour répondre à l'augmentation de la demande de la classe moyenne du pays.
- Adani est en discussion avec la banque indienne SBI pour obtenir un prêt de 1,5 Mds EUR pour financer la construction de l'autoroute « Ganga Expressway » dans l'Uttar Pradesh.
- Tous les projets d'infrastructures de plus de 60 M EUR doivent désormais être soumis au PM Gati Shakti, plan national interministériel qui permet de faciliter le développement de projets.

Ferroviaire

- Les Indian Railways attribuent un contrat pour la fourniture 39 000 roues de train à l'entreprise chinoise TZ Honk Hong International Ltd.
- Les trains reliant l'Inde et le Bangladesh reprennent du service après plus de deux ans d'arrêt du fait de la pandémie de COVID.
- Les Eastern Railways ont électrifié 100 % de leur réseau soit 2 848 km de voies.
- Les premiers trains de fret semi grande vitesse devraient entrer en service d'ici décembre.

Énergies fossiles et biocarburants

- Le gouvernement pourrait demander à la Reserve Bank of India (RBI) d'autoriser les banques à prêter aux centrales électriques classées en *non-performing assets* pour qu'elles puissent importer du charbon et fonctionner à plein régime.
- Le Conseil des ministres indien approuve les amendements de la National Policy on Biofuel pour accélérer la production domestique de biocarburants.

Electricité et énergies renouvelables

- Greenko lance la construction d'un projet d'une envergure sans précédent en Inde, alliant solaire et éolien avec stockage hydroélectrique pour une capacité totale de 5 230 MW.

- Un atelier technique sur l'hydrogène décarboné a été conjointement organisé par l'ambassade de France en Inde et le think tank CEEW.
- Renew Power prévoit d'investir plus de 12 Mds EUR dans les prochaines années pour développer des projets d'énergies renouvelables dans le Maharastra et le Karnataka.
- Le gouvernement central annonce un soutien de 120 M EUR pour développer des zones industrielles de production d'équipements pour les énergies renouvelables.

Mobilités électriques

- Tata Power et Hyundai Motor India s'associent pour installer des stations de recharge de véhicules électriques dans 29 villes indiennes.

Environnement et qualité de l'air

- La pollution tuerait environ 2,4 millions de personnes par an en Inde.



Revue de presse

1. Infrastructure

Investcorp targets \$400 million at Indian school infrastructure, warehousing

Financial Express, 23/05/2022

Investcorp will deploy \$400 million into Indian school infrastructure and warehousing, as it seeks to expand investments in the South Asian nation, its Co-Chief Executive told Reuters on Monday.

Bahrain-based Investcorp has already invested \$500 million in 13 companies in India, including online retailer FreshToHome and ASG Eye Hospitals. It also has a \$400 million fund for private equity investments in India, which says it has the world's fastest growing startup ecosystem.

Investcorp now has plans to deploy \$400 million over four years on real estate in India, Rishi Kapoor said in an interview at the World Economic Forum in Davos.

The two segments it will focus on will be school infrastructure and a warehousing sector which is booming thanks to a rapid expansion of e-commerce in the country with a population of 1.4 billion people, Kapoor said.

"We have created a new investment thesis around investing in school, education infrastructure," he said.

"The middle income Indian parent will tighten their belt in every area other than

education for their kids. So that underlying space is very attractive."

India is seeing unprecedented growth in e-commerce and logistics, with companies such as Amazon and Walmart's Flipkart committing billions of dollars in investment.

Another sector booming in India is clean mobility, and Investcorp said it will target investments in clean energy and climate tech, although its plans are yet to be firmed up.

The separate \$400 million fund for private equity investments in India which Investcorp has previously announced will be used to target sectors including health and wellness and consumer technology, Kapoor added.

"It's actually a good time to deploy capital, we are looking at a few opportunities now," he said, while declining to name any specific companies.

Global private equity firm General Atlantic told Reuters on Sunday it plans to plough \$2 billion into India and Southeast Asia over the next two years, after falling valuations made the region's startups more attractive.

Adani group in talks with SBI to raise Rs 12,000 cr loan to fund Ganga Expressway

The Economic Times, 29/05/2022

The Adani Group is in talks with the State Bank of India to raise about Rs 12,000 crore in long-term project loans that would be utilised to build the Ganga Expressway, billed as the country's longest and linking Meerut in the northwest of Uttar Pradesh to Prayagraj in the state's east.

SBI is engaged in a road traffic survey before loan terms are finalised, three people familiar with the matter told ET. In December, Adani Enterprises (AEL) won contracts from the Uttar Pradesh government to build three stretches of the 594-km Ganga Expressway. The fourth section was awarded to IRB Infrastructure. AEL's share of work is 80% of the total project. The loan will be of a longer maturity - anything between 10 and 30 years - although the terms are yet to be fixed.

The loan, if finalised, can be offered in high single-digits, in the range of 7-9%, sources said. SBI can down-sell parts of the total loan given to other local banks. Hide quoted text The Adani Group and SBI did not respond to ET's queries. The Ganga Expressway will reportedly be India's longest expressway to be implemented on Design, Build, Finance, Operate and Transfer (DBFOT) basis.

"The bank is conducting a survey on road traffic with the help of an external agency, which could be one of the Big Four firms," said one of the persons cited above. This survey primarily predicts the potential of road toll collections. This helps lenders decide on the debt-equity ratio. Higher potential of toll collections lowers the share of equity. The debt-equity ratio can be up to 80:20 if there are no parallel roads, brightening the prospects of higher toll collections. The Ganga Expressway may have eight lanes and is expected to be completed by 2024. It would be constructed over 6,500 hectares of land. The estimated cost against AEL's three awards is Rs 17,000 crore. Holistically, it caters to huge real estate business opportunities for Uttar Pradesh as the project covers a dozen densely populated districts, including Hapur, Bulandshahar, Badaun and Raebareli.

CARE Ratings graded Adani Enterprises A+ (Stable outlook) for its bank facilities citing the group's financial flexibility and completion of substantial capex.

In the roads segment, AEL now has 14 projects including three large greenfield packages of the Ganga Expressway. The rest of the projects are mostly HAM (Hybrid Annuity Model) projects.

Two months ago, Navi Mumbai International Airport, a subsidiary of Adani Enterprises, availed a long-term credit line from SBI for the greenfield project. The bank had committed the entire debt requirement of Rs 12,770 crore for the ambitious project.

Infra projects worth Rs 500 crore and more to route through PM GatiShakti's NPG

The Economic Times, 22/05/2022

All logistics and connectivity infrastructure projects, entailing investment of over Rs 500 crore, would now route through the network planning group (NPG) constituted under the PM GatiShakti initiative with the finance ministry issuing the necessary instructions and creation of the national master plan digital platform, an official said.

According to an office memorandum of the department of expenditure dated April 28, a revised format has been issued for Public Investment Board (PIB)/Delegated Investment Board (DIB) project proposals.

"The revised format of the PIB/DIB memorandum...will apply to all the PIB/DIB proposals for new projects submitted on or after April 28, 2022," it has said.

As per the revised format, proposals should include whether the project has components of logistics or infrastructure connectivity; and whether it has been examined by NPG for convergence and integration at the conceptualisation or feasibility study stage.

The PM GatiShakti plan was announced last year with an aim to break departmental silos and bring in more holistic and integrated planning and execution of projects with a view to addressing the issues of multi-modal and last-mile connectivities.

This will help bring down the logistics cost and promote effective and efficient planning of infrastructure projects. An integrated infrastructure network planning group (NPG) has been constituted which has representations from various connectivity infrastructure ministries/departments involving their heads of network planning division for unified planning and integration of the proposals.

"We have created the national master plan digital platform. We have provided training to people concerned and now we have this mandatory provision from the finance ministry. So, now all logistics and connectivity projects will be approved on the principles of PM GatiShakti. All those projects, costing over Rs 500 crore will be considered by NPG," the official said.

The Department for Promotion of Industry and Internal Trade (DPIIT) has also conducted several training sessions with various government departments and held regional conferences across the states. The Technical Support Unit is also in place.

NPG consists of heads of the network planning wing of respective infrastructure ministries and it will assist the empowered group of secretaries (EGOS), which is headed by the cabinet secretary. EGOS consists of secretaries of 18 ministries as members and Head of Logistics Division, under the DPIIT, as member convenor.

All the departments will approach the NPG first for approval before making a DPR (detailed project reports) at the planning stage, the official said, adding after the NPG's clearance, the project would follow the normal procedure of approval by the finance ministry and the Cabinet, depending upon the projects.

For example, if the railway is planning a project on a specified route, so by putting the relevant information on the PM GatiShakti national master plan portal before finalising the DPR, it can see whether the proposed track is crossing through public land or private property or forest or canal or highways.

2. Ferroviaire

Railways awards 39,000 train wheels tender to Chinese company

The Economic Times, 18/05/2022

New Delhi: Indian Railways has awarded a contract for supply of 39,000 train wheels to a Chinese company after deliveries from other countries got affected because of the Russia-Ukraine conflict, sources told ET. The tender for solid forged wheels (rough turned) was awarded to TZ (Taizhong) Hong Kong International Ltd., they said.

"These wheels are for the Vande Bharat trains. This development can be seen as a fall out of the Russia-Ukraine crisis as there is a dearth of rail wheel suppliers to India," a senior rail ministry official told ET.

While the value of the tender is just ₹170 crore, the move is significant in view of the restrictions imposed by New Delhi last July on investments and supplies from companies from countries sharing land border with India following the Galwan valley standoff with China. The last tender awarded to TZ was in March 2020.

Any vendor from countries sharing a land border with India would be eligible to supply goods or services—including consultancy and non-consultancy services-or projects, including turnkey ones, only if the entity is registered with the competent authority.

A registration committee was subsequently constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). Political and security clearance from the ministries of external and home affairs was also made mandatory. The tender for wheels was opened on April 4 this year and the railway ministry awarded it to TZ on May 2.

According to the Railway Board's order awarding the tender, the place of manufacture of these wheels is Taiyuan Heavy Industry Railway Transit Equipment Company at Dianzi Steet in Taiyuan City, Shanxi, China. This is a part of Taiyuan Heavy Industry Co, Ltd (TYHI). ET has seen a copy of the Board's order.

TZ Hong Kong International Ltd, the company that has been awarded the tender,

is the international trading arm of Taiyuan Heavy Machinery Group Co, Ltd.

This company too traces its origins to a heavy machine plant founded in 1950 which was independently designed and built by the People's Republic of China.

According to the company website, it is a state-owned oversize backbone enterprise. It has links to the Chinese government.

Focus on domestic manufacturing

Indian Railways has already begun work on local manufacturing.

"There is a need to develop the wheel manufacturing ecosystem in the country and domestic manufacturers seek longer term visibility before investing in setting up facilities," the officer said. "This is being addressed with the pipeline of new train sets that are to be manufactured." Railways launched the country's first indigenous semi-high-speed train, Vande Bharat Express, on the New Delhi-Kanpur-Allahabad-Varanasi route in February 2019.

India-Bangladesh passenger train services resume after two years

Business Standard, 29/05/2022

Passenger train services between India and Bangladesh resumed on Sunday after an over two-year gap owing to the pandemic with the flagging off of Bandhan Express from Kolkata station on way to Khulna in the neighbouring country, an Eastern Railway (ER) official said here.

Maitree Express is also scheduled to resume services between Kolkata and Dhaka on

Sunday and will travel to the Bangladesh capital on Monday morning on the first journey from here since March 2020, he said.

"Passenger train services between India and Bangladesh, which were stopped for over two years owing to the pandemic, resumed with the flagging off of Bandhan Express from Kolkata station at 7.10 am," ER spokesperson Ekalavya Chakraborty said.

While the Bandhan Express between Kolkata and Khulnaruns two days a week, Maitree Express connecting Kolkata with the Bangladesh capital is a five-day service.

Chakraborty told PTI that people on both sides of the border are excited about the resumption of the train services, which are fully booked for the next few days

"With the comfort of train travel and a convenient time schedule along with affordability, people prefer this mode of transport over others such as bus and air," he said.

The trains have a capacity of around 450 passengers and have air-conditioned chair car and executive class categories, he said.

India-Bangladesh train connectivity through West Bengal will receive another boost from June 1 with the inauguration of Mitali Express between New Jalpaiguri and Dhaka, Chakraborty said.

The new service will also boost tourism in northern West Bengal as many travellers from Bangladesh show a keen interest in exploring the Darjeeling Hills and the forests and tea gardens of Dooars in the foothills, he said.

Eastern Railway achieves 100 per cent electrification of 2,848 km network

The Economic Times, 27/05/2022

The Eastern Railway has achieved 100 per cent electrification of its 2,848 km network with the completion of work in the 41 km Hansdiha-Godda section, an official said here on Friday. The total electrification will help reduce carbon emission significantly and support the Indian Railway in achieving its target of making the country's railway network carbon neutral by 2030, he said. "With the successful completion of CRS (commissioner of railway safety) inspection of the Hansdiha-Godda section, Eastern Railway's entire 2,848 km network is converted to electrified route," the Kolkata-headquartered zonal railway's spokesperson Ekalabya Chakraborty said.

India's first semi-high speed freight train likely to run by December

Business Standard, 27/05/2022

India's first semi-high speed freight train is likely to hit the tracks by December, officials said Friday.

Replicating the concept of Vande Bharat trains, the 16-coach 'Gati Shakti' train can clock 160 kmph and will be manufactured at the Integral Coach Factory (ICF) in Chennai.

In order to implement the PM Gati Shakti initiative in a focused manner, the Railways has created a separate directorate at the Railway Board with its branches at Khurda, Bilaspur, Delhi and Bengaluru divisions to expedite the ambitious scheme.

"The design work for these trains has already started. We have also given the order for material by December this year, we will be able to manufacture two of these trains," ICF General Manager A K Agarwal said, adding that an overall target of 25 such trains has been set.

The final number of trains will depend on how the initial ones are received by the market, he added.

The Railways is planning to target the e-commerce and courier parcel segment through these trains, officials said. Each train will also have refrigerated wagons in the rear end and in the front to carry perishables like milk products, fish, fruit and vegetables.

Electricity connection for these wagons will be provided from the coach. The rest of the coaches will have rollers for moving the container. Each coach will have two wide doors for loading and unloading the containers.

According to the Indian Brand Equity Foundation, with a turnover of USD 50 billion in 2020, India has become the eighth largest market for e-commerce.

"India's e-commerce market is expected to reach USD 111 billion by 2024 and USD 200 billion by 2026 and expected to reach USD 350 billion by 2030," the official said, adding that Indian Railways plans to capture the small size parcel shipments by running dedicated high speed freight trains.

The Indian Railways is aiming to increase its share in freight transportation from the present 27 per cent to 45 per cent by 2030 through better infrastructure and business

development plans, according to the National Rail Plan.

The Indian Railways has identified 74 new 'Gati-Shakti Multi-Modal Cargo Terminal (GCT) locations across the country, with 20 of them in the South Indian states under Prime Minister Narendra Modi's ambitious 'Gati-Shakti Multi Model Cargo Terminal' policy.

The policy was launched in 2021 in order to boost investment in the development of additional terminals for handling rail cargos.

3. Energies fossiles et biocarburants

Govt may ask RBI for power projects window

Mint, 15/05/2022

The government may ask the Reserve Bank of India (RBI) to allow banks and financial institutions to lend working capital to imported coal-fuelled power plants that have been classed as non performing assets so that they can resume generating power, officials aware of the deliberations said.

This comes follows the power ministry directing two power sector lenders -- state run Power Finance Corporation (PFC) and REC Ltd -- to arrange loans for up to six months to financially stressed imported coal-based (ICB) power generation plants to enable them to restart generation.

The reported move comes at a time when the country is going through a severe power crisis due to lower availability of coal and high power demand with the early onset of summer.

The loans availed through the special window would have to be given priority in terms of repayment to the banks, experts said.

Experts were of the view that for banks to be able to give loans to these plants, RBI may have to restructure the existing loans for more loans to pour in.

Sumit Khanna, Partner & National Head, Corporate Finance & Restructuring Services at Deloitte said: "One option can be restructuring of loans, and the other option is that the NPA status is kept there (for the previous loans) and a new loan is allowed for a short period and the amount is put into an escrow account for further use."

Several of the imported coal-based power plants are not working to their full capacity amid financial stress and the high cost of coal in the international markets.

Earlier this month, the power ministry asked all imported coal based plants to start operating at 100% capacity, saying these plants need working capital to buy coal and start generating power in order to restart their operations.

ICB plants have a total capacity of 17,600 MW but only around 10,000 MW is operational.

The ministry had also mandated blending of 10% imported coal by power plants to meet soaring demand. Power demand spiked last month leading to fears of a crisis situation with low availability of coal and railway rakes to transport the mineral to plants.

Although, the power demand has softened since then and the shortage seems to have eased, temperatures have begun rising again. The maximum demand met in a day has again crossed the 200 GW mark. On Monday, it was 201.74 GW. The highest peak demand met this year was 207.11 on 29 April.

As of Monday, the total stock at the power plants tracked by the Central Electricity Authority was 20.78 million tonnes, less than a third of the required 66.49 million tonnes. Of the 173 plants under the ambit of CEA, 79 plants based on domestic coal are running on critical stock, with less than 25% of the requirement. Another 10 imported coal plants are also surviving on critical coal inventory levels.

Queries sent to the ministries of finance and power and the RBI remained unanswered till press time.

India's 20% ethanol blending target advanced, new biofuel policy approved: 10 points

Mint, 08/06/2022

To drive Biofuels output and growth ahead, the Union Cabinet on Wednesday approved the amendments to the National Policy. Among the amendments, the Centre has okayed allowing more feedstocks for biofuels productions and also plans to advance the ethanol blending target in petrol.

Cabinet approved the new amendments in a meeting chaired by Prime Minister Narendra Modi today. The amendments were made to the National Policy on Biofuels that came in 2018.

Taking into consideration the advancements in the field of Biofuels, several decisions have been taken in the National Biofuel Coordination Committee (NBCC) meetings to raise biofuel production, recommendation of the Standing Committee, and the decision to advance to introduce of Ethanol Blended Petrol with up to 20% ethanol throughout the country from April 1, 2023. Following this, amendments are done to the National Policy on Biofuels.

Here is the list of 10 key points of the amendments in the National Policy on Biofuels.

1. One of the amendments is that the government will allow more feedstocks for the production of biofuels.

2. Further, under the amendments, the Centre plans to advance the ethanol blending target of 20% blending of ethanol in petrol to ESY 2025-26 from 2030.

3. It will promote the production of biofuels in the country, under the Make in India program, by units located in Special Economic Zones (SEZ)/ Export Oriented Units (EoUs).

4. The government has allowed adding of new members to the NBCC.

5. Permission will be granted for the export of biofuels in specific cases.

6. The government allows to delete/amend certain phrases in the Policy in line with decisions taken during the meetings of the National Biofuel Coordination Committee.

7. The proposed amendments are expected to pave the way for the Make in India drive thereby leading to a reduction in the import of petroleum products by the generation of more and more biofuels.

8. Since many more feedstocks are being allowed for the production of biofuels, this will promote the Atmanirbhar Bharat and give an impetus to the Prime Minister's vision of India becoming 'energy independent' by 2047.

9. Also, the proposed amendments are expected to attract and foster developments of indigenous technologies which will pave the way for the Make in India drive and thereby generate more employment.

10. The "National Policy on Biofuels - 2018" was notified by the Ministry of Petroleum and Natural Gas on June 4, 2018, in supersession of the National Policy on Biofuels, promulgated through the Ministry of New & Renewable Energy, in 2009.

4. Electricité et énergies renouvelables

CM Jagan initiates work at Greenko's 5230MW energy storage project

The Hindu, 27/05/2022

Andhra Pradesh Chief Minister Y.S. Jagan Mohan Reddy on May 17 performed the first concrete pouring ceremony at the 5230 megawatt (MW) integrated renewable energy storage project in Pinnapuram.

The project, which is said to be one of the largest of the kind at a single location to store wind and solar capacities with an

investment of about ₹22,000 crore, is being implemented by Greenko Group and funded by Arcelor Mittal Group. The project comprises daily pumped storage of 10,800 MW, 3,000 MW solar and 550 MW of wind power.

Appreciating the Greenko management for setting up the project, CM Jagan said he is extremely happy about the green project in Kurnool.

"This is a cost-effective and round the clock project. The beauty is that it is a mix of wind, solar and hydro. In the coming days, Andhra Pradesh will be at the forefront of green energy. About \$3 billion is being invested in this project and ArcelorMittal is part of the endeavour. This would be a game changing project," Mr. Jagan Mohan Reddy said.

He further stated that A.P. will offer ample opportunities for companies interested in investing in green energy and technologies. This will be a unique example in the country to look upto, he added.

Appreciating the policy support for the project at the national level and at the State, the Founder, CEO and MD of Greenko Group Anil Chalamalasetty said, "It's a moment of great pride for Greenko that we have pioneered to deliver, ahead of global ambition of a 24/7 dispatchable renewable energy solution, for industrial decarbonisation and energy transition."

"Andhra Pradesh is set to become an energy storage capital of India. This integrated solution is pivotal for the nation to become energy independent and establishes it as a leader of decarbonised economies," Mr. Chalamalasetty added.

Greenko Group has an installed renewable energy capacity of 7.5 gigawatt across wind, solar and hydro and another 10 gigawatt of projects under development. The company has invested over \$7.5 billion; with equity of over \$2.5 billion and raised Global Green Bonds of over \$5.0 billion over the last 10 years and today produces 18 BU's (1~1.5%) of India's total energy production.

Greenko is building an intelligent, lowest cost "Energy Cloud Storage Platform" of 50 GWh capacity to be commissioned by 2025 and expand to 100 GWh by 2027 along with green hydrogen production systems of 10 GW capacity by 2030.

It is majority-owned by two of the world's largest Sovereign Wealth Funds, Government Investment Corporation (GIC) of Singapore and Abu Dhabi Investment Authority (ADIA) of Abu Dhabi, UAE along with Orix Corporation.

India eyes cooperation with France on green hydrogen

Mint, 23/05/2022

NEW DELHI: India is looking forward for collaboration with France in the green hydrogen space, an official said on Monday.

Speaking at a workshop on decarbonised hydrogen, organised by the the Embassy of France in India and the Council on Energy, Environment and Water (CEEW), Vandana Kumar, additional secretary, ministry of new and renewable energy said: "Our industry is very sanguine to take part in the green hydrogen movement by itself on generation of hydrogen, on production of various technologies and we are very much looking

forward to our cooperation with France in this."

Noting that a joint declaration of intent has already been agreed between the two countries, she said: "We are looking forward to a suitable opportunity, a suitable event, that would be signed between India and France very soon"

On India's push for renewable energy, the official said that the country has 158 GW of installed capacity of renewable energy and another 87 GW is in the pipeline.

Addressing the event, the Ambassador of France to India, Emmanuel Lenain, said that green hydrogen holds immense promise as a clean energy vector of the future.

"It also represents an ambitious new chapter of cooperation between France and India, as agreed by President Macron and Prime Minister Modi in Paris on 4th May. By seizing the synergies between our two countries' ambitious national hydrogen strategies, France and India can team up on green hydrogen to accelerate our clean energy transition, meet our carbon neutrality targets, and strengthen our energy independence".

In the last decade, renewable energy has emerged as a pillar of Indo-French cooperation. At the government level, India and France co-founded the International Solar Alliance, work together in multilateral platforms to promote an ambitious international climate agenda, and have set up a cooperation roadmap between relevant ministries on renewable energy.

In the private sector, French companies have been investing massively in clean energy in India and have commissioned or

are in the process of developing more than 24 GW of renewable energy projects in the country.

In this context, decarbonised hydrogen is a priority area of cooperation. Both countries see it as a promising technology to decarbonise several hard-to-abate sectors of our economies, such as refinery, fertilisers, petrochemicals, steel, heavy mobility, shipping, and aviation.

Prime Minister Narendra Modi in August 2021 announced the National Hydrogen Mission in August 2021, which sets a target of producing 5 million tonnes per annum (MTPA) of green hydrogen by 2030. Similarly, in September 2020, France published its decarbonised hydrogen strategy, which dedicates more than EUR 7 billion to the development of decarbonised hydrogen and 6.5 GW electrolyser capacity by 2030.

ReNew Power plans ₹1 trillion investment in Maharashtra, Karnataka

Mint, 26/05/2022

Goldman Sachs-backed ReNew Power Ventures Pvt Ltd is planning to develop renewable energy projects in Maharashtra across wind, solar, hybrid power, battery storage and green hydrogen at an investment of ₹50,000 crore. It plans to invest another ₹50,000 crore in Karnataka for developing green energy projects.

The company signed memorandums of understanding (MoU) with both the state governments on Tuesday.

"During 2022-2028, Renew Power will invest ₹50,000 Crs in Maharashtra. This will create 30,000 employment. The investment

will be done in renewable energy projects like solar, wind, hybrid energy, battery storage and green hydrogen plant," Maharashtra State Electricity Distribution Co Ltd said in a tweet.

Also taking to Twitter, Maharashtra environment minister Aaditya Thackeray said: "Maharashtra hits a total of ₹80,000 crores in investment MoUs after @ReNew_Power & GoM signed to agree on the generation of renewable energy, EV batteries & green hydrogen plant in Maharashtra."

The company plans to make the investments over a period of seven years. The investments are expected to create around 60,000 jobs in total in both the states.

Responding to a query from Mint, a company spokesperson said: "The funds for the MoUs with the Maharashtra and Karnataka governments will be sourced from internal accruals and the equity that we plan to raise from recycling existing assets. We may also raise debt if needed."

ReNew Power signed the MoU with the Karnataka government in the presence of chief minister Basavaraj Bommai at the World Economic Forum meet.

The chief minister termed it a milestone in the renewable energy sector in Karnataka. The Karnataka government said that in the first phase ReNew would invest ₹11,900 crore on ongoing projects in the state, which would be operationalised in the next two years.

In the second phase the company plans to invest ₹37,500 crore to set up renewable

energy and green hydrogen units over the next five years.

The projects spread over two phases would create employment opportunities for about 30,000 people, Bommai said.

So far, ReNew has implemented over 120 wind, solar and hydro power projects spread over nine states. The company generates about 12 GW of power through its plants.

The company is also diversifying its portfolio. Last month, it announced a joint venture company with state-run Indian Oil Corporation (IOC) and engineering and construction major Larsen & Toubro (L&T) to develop the nascent green hydrogen sector in India. In January, it said it will set up a joint venture with US-based Fluence to pr

Union minister of state for new and renewable energy, Bhagwant Khubra recently said that renewable energy projects worth nearly \$197 billion are underway in the country.

Centre announces Rs 1,000 cr scheme for power and RE equipment making zones

Business Standard, 30/05/2022

The Centre has proposed a scheme worth Rs 1,000 crore to invite private companies to set up manufacturing zones for power and renewable energy (RE) equipment.

The move is part of the government's efforts to cut down on import reliance and build domestic capacity. The three proposed zones are proposed to come up by 2026-27.

The ministries of power and new and renewable energy have jointly proposed a scheme for establishment of three manufacturing zones in which two would be brownfield on already developed land and one greenfield manufacturing zone in a coastal area of the country, said the expression of interest (EoI) published by the ministries.

“India is largely reliant on imports to meet its growing domestic demand of power and renewable energy equipment and this trend is likely to continue unless domestic capacity is ramped up with suitable policy support. The target of 450 Gw of renewable energy capacity offers a tremendous opportunity to create skilled jobs, bring about technology transfer, and contribute to the make-in-India campaign, in addition to reducing the country’s trade deficit and reliance on imports,” said the ministry in its EoI.

The proposed funding for the three zones is Rs 1,000 crore with a ceiling of Rs 4,000 crore. The power ministry will form a scheme steering committee and a ‘project management agency’ with representation from its different arms, which will shortlist the applications. The scheme aims to establish a manufacturing facility of critical equipment, components and spares required for the power sector and renewable energy sector.

Through setting an exclusive manufacturing zone, the Centre is claiming to provide hassle-free allotment of land and clearances, common testing facility, and common infrastructure facility.

“This would bring down the manufacturing cost significantly, thereby making domestic

industry competitive and self-reliant in manufacturing of power and renewable energy equipment and exploit the benefits arising due to optimization of resources and economies of scale,” said the EoI.

The EoI, however, mentioned the project proposer who will apply for the scheme should have to be in possession of land and state-level clearances. The project land should have assured availability of power, water, and transport connectivity and the identified location would also need to be away from the eco-sensitive zone of protected areas.

The scheme allows private companies to join hands with a state government and apply for the project, given the state holds 26 per cent stake in the joint venture. The financial grant earmarked for the scheme would be disbursed in tranches over five years in line with the completion of the projects.

5. Mobilités électriques

Hyundai Motor India, Tata Power partner to set up EV charging infra

The Hindu, 17/05/2022

Hyundai Motor India on Wednesday announced partnership with Tata Power to set up electric vehicle (EV)-charging Infrastructure in India.

The automobile major said it plans to facilitate installation of Tata Power's DC 60 kW fast chargers across 34 of its EV dealer locations in 29 cities, in addition to the existing AC 7.2 kW chargers, and aims to expand the charging infrastructure network across its pan India dealerships.

The MoU was signed between Hyundai MotorIndia and Tata Power in the presence of Unsoo Kim, MD & CEO, Hyundai MotorIndia and Praveer Sinha, CEO & MD, Tata Power.

Tata Power will supply end-to-end home charging solution, from charger supply to installation for Hyundai EV customers, the company said, adding that the charging stations at these dealerships will be open for all electric vehicle customers and accessible through Hyundai and Tata Power EZ Charge Mobile App.

Mr. Kim said, "Such strategic partnerships are fundamental in accelerating the adoption of electric vehicles by customers to achieve national goal of carbon neutrality. This partnership will power-up the nations' electric mobility mission by offering end-to-end EV charging infrastructure at HMIL Dealerships along with supply, installation and commissioning of home charging for HMIL EV customers, thereby, enhancing customer convenience and ease of adoption of electric vehicles."

6. Environnement et qualité de l'air

Pollution kills nearly 24 lakh people in India in a year: Study

Mint, 18/05/2022

A study has claimed that pollution killed 24 lakh people in India in a year. The study in the journal *The Lancet Planetary Health* blamed pollution of all types for 90 lakh deaths a year globally while the deaths due to dirty air from automobiles and industries have been rising 55% since 2000. Air pollution from industry processes along with

urbanization drove a 7% increase in pollution-related deaths from 2015 to 2019, according to the scientists' analysis of data on global mortality and pollution levels.

The US is the only fully industrialised country in the top 10 nations for total pollution deaths, ranking 7th with 142,883 deaths blamed on pollution in 2019, sandwiched between Bangladesh and Ethiopia.

The world's most populated country China reported almost 22 lakh deaths a year because of pollution.

Pollution kills about the same number of people a year around the world as cigarette smoking and second-hand smoke combined, the study said.

According to Philip Landrigan, director of the Global Public Health Program and Global Pollution Observatory at Boston College, the death certificates don't mention pollution as the reason, heart disease, stroke, lung cancer, other lung issues, and diabetes that are "tightly correlated" with pollution are mentioned.

In New Delhi, India, air pollution peaks in the winter months, and last year the city saw just two days when the air wasn't considered polluted. It was the first time in four years that the city experienced a clean air day during the winter months.

That air pollution remains the leading cause of death in South Asia reconfirms what is already known, but the increase in these deaths means that toxic emissions from vehicles and energy generation is increasing, said Anumita Roychowdhury, a director at the advocacy group Centre for Science and Environment in New Delhi.

"This data is a reminder of what is going wrong but also that it is an opportunity to fix it," Roychowdhury said.

Pollution deaths are soaring in the poorest areas, experts said.

"This problem is worst in areas of the world where the population is most dense (e.g. Asia) and where financial and government resources to address the pollution problem are limited and stretched thin to address a host of challenges including health care availability and diet as well as pollution," said Dan Greenbaum, president of the Health Effects Institute, who wasn't part of the study.

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