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Innovation Roadmap of Mission Integrated Biorefineries

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Why is in news? Science & Technology Minister Dr. Jitendra Singh announces launch of Innovation Roadmap of Mission Integrated Biorefineries

- Dr Jitendra Singh, who is leading a high-level Joint Indian Ministerial Delegation of Ministry of Power, New & Renewable Energy and Ministry of Science & Technology at **Global Clean Energy Action Forum at Pittsburgh, Pennsylvania in the United States**.
- The Union Ministry has announced the **launch of the "Innovation Roadmap of the Mission Integrated Biorefineries"** developed by co-leads and active inputs from Brazil, Canada, EC and the UK.
- The mission aims at **greater international collaboration** and the need for increased financing for **Energy Research, Development, and Demonstration** during the next five years.
- It aims to **fill the void by identifying gaps and challenges** in current biorefining value chains, prioritising Eight key actions to support the Mission, and guiding the Mission's overall path in achieving its goal.
- It also provides policymakers with a strategy framework to establish a **rising RD&D portfolio** over the next five years, specific financing proposals across the entire spectrum of vital Biorefinery technologies, and rapid action suggestions.
- India is **continually working towards transforming the energy landscape of country with significant clean energy share and added that by 2030**.
- India agreed to reach **500-Gigawatt non-fossil energy capacity**, shift 50% of energy requirements to renewable energy, lower overall anticipated **carbon emissions by one billion tons**, reduce carbon intensity of the economy by 45% over 2005 levels, and **achieve net zero emissions by 2070**.
- Dr Jitendra Singh shared with pride that a **pilot plant of 10 Tons/day capacity plant** with integrated enzyme production is being set up at Panipat Haryana, which will be commissioned by December 2022. This will be the **1st indigenous technology for on-site enzyme production**.
- Further, **lignin valorization process** is also being developed to produce value added products from waste lignin. He said, it's successful demonstration will give an **indigenous technology** to the nation and will contribute to Self-Reliant India and reduce carbon foot print from transport sector.