

Regulatory reforms needed to achieve 500 GW clean energy target by 2030 Report



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Article Content:

India need to undertake regulatory reforms and strengthen financial condition of distribution companies (discoms) along with other decisions to achieve ambitious 500 GW non-fossil fuel capacity (clean energy) target by 2030, says a report.

India's transition to a cleaner, more sustainable power sector is at a critical juncture, with regulatory challenges, financial constraints and policy uncertainties shaping its trajectory. A new report by Primus Partners, 'The Intersection of Power Sector Regulation & Sustainability Goals in India', examined these challenges and proposed a roadmap for achieving India's ambitious 500 GW non-fossil fuel capacity target by 2030.

The report highlighted key regulatory reforms required to accelerate clean energy adoption, stabilize distribution companies (discoms) and boost investor confidence in India's power sector, Primus Partners said in a release.

India's discoms face accumulated losses of more than Rs 6.77 lakh crore. Financial restructuring.

tariff rationalization and direct benefit transfers for subsidies are essential to improve cost recovery and ensure timely payments to renewable energy developers, it said.

It pointed out that Inconsistent state policies on open access, net metering and PPA (power purchase agreement) renegotiations have deterred long-term investments. Standardizing open access rules, enforcing contract sanctity and improving dispute resolution mechanisms will boost investor confidence

Large renewable projects struggle with land acquisition and environmental clearances. Wh

solar parks have eased this for some projects, states lack clear guidelines for land-use change and permitting. Expanding pre-cleared renewable zones and creating GIS-based approval systems (as Rajasthan has done) can streamline processes.

Transmission bottlenecks have delayed solar and wind projects. The report calls for synchronized grid expansion with renewable targets, enhanced forecasting mechanisms and policy support for large-scale battery storage.

India's clean energy push aligns with global climate agreements, including its commitments under

the Paris Agreement and COP26. Strengthening policy implementation and leveraging international partnerships will be crucial in meeting these sustainability goals, the release said adding India stands at a pivotal point in its energy transition. While significant strides have been made in renewable energy adoption, addressing regulatory inconsistencies and financial instability will be critical in sustaining this momentum.

Nikhil Dhaka, Vice President at Primus Partners, stated, "India's power sector transformation requires a multi-pronged approach. Strengthening discom finances, ensuring regulatory certainty and expanding grid infrastructure will be key to unlocking the full potential of clean energy investments."