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Capex & Currents: INR 65 Trillion Capex to Electrify India-2035

INR 65-70 Trillion Investment Needed to Power India's 4 Trillion-Unit Electricity Future by 2035

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GROWTH VECTOR: POWER

Estimated addition in capacities from 2025 to 2035-

Solar: +458 GW

Wind: +231 GW

Coal: +108 GW

Large-Hydro: +51 GW

Nuclear: +30 GW

~INR 65-70 Tn Investment Needed to Fuel India's 4 Trillion-Unit Electricity Future

India's electricity demand is projected to triple by 2035, reaching over 4,000 TWh, driven by industrial expansion, urbanization, digital infrastructure, and the electrification of transport. Meeting this surge will require a massive scale-up in generation capacity across renewables like Solar and Wind, thermal, and nuclear, alongside robust transmission and distribution upgrades. This report outlines the estimated capital investment needed to build a resilient, sustainable, and future-ready power ecosystem.

Here are key pointers from our analysis:

- India to potentially add 850-900 GW of new Power capacity by 2035 reaching 1,300-1,400 GW in total.
- This energy transition likely demands Rs 65–70 trillion investment, with Rs 15 trillion wired into transmission grids and smart meters.
- Solar is likely to lead India's energy mix by 2035 with 564 GW capacity, growing 5x from 2025 and generating nearly 1,000 BU annually, requiring ~Rs 23 trillion in Capex.
- Wind capacity likely to grow 5.5x to ~280 GW by 2035, generating ~600 BU & requiring Rs 11.5 trillion in capex
- Coal's capacity projected to drop to 24% by 2035, but still generating 45% of power with ~1,900 BU output and requiring Rs 9 trillion investments.

"India's energy transition presents one of the largest infrastructure investment opportunities globally."

**For Illustrative Purposes Only*