

Power grid in india

India began cross-border electricity trade in the mid-1980s. India established 33 kV and 132 kV interconnections in radial mode from Bihar and Uttar Pradesh to Bhutan and Nepal respectively. The first interconnection with Bangladesh was commissioned in December 2013, connecting Berhampore with Bheramara. As of April 2017, there are 12 cross-border interconnections between India and Nepal. India became a net exporter of electricity for the first time in the 2016-17 fiscal year.

Presently, India is importing electricity from Bhutan with synchronous transmission links while exporting power to Nepal, Bangladesh and Myanmar with asynchronous transmission links between the National Grid and the electricity grids of these countries. India is planning to build a minimum of 125 GW of wind capacity for Nepal 10 GW of hydro capacity for Nepal 20 GW of nuclear capacity and an undetermined amount of solar capacity by 2050 with full financial ownership in the hands of Nepal.

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