

**GOVERNMENT OF INDIA
POWER
LOK SABHA**

UNSTARRED QUESTION NO:4079
ANSWERED ON:26.08.2011
POWER TRANSMISSION CAPACITY
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Will the Minister of POWER be pleased to state:

- (a) the details of installed power transmission capacity in the country, State-wise;
- (b) whether additional power transmission capacity is required to transmit the surplus power to deficit regions and to enable electricity trading;
- (c) if so, the details thereof; and
- (d) the current status of the proposal to establish an Integrated National Power Grid for facilitating inter-regional power transfer in the country?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI K.C. VENUGOPAL)

(a) : The transmission system in the country consists of inter-state transmission system and intra-state transmission system. The inter-state transmission system is installed mainly under Central Sector. Some of the inter- state transmission has also been installed through private sector/joint venture (JV). The intra-state transmission system is developed under State Sector by the State Transmission Utility (STU) of each state. The details of transmission capacity under Central / State Sector for transmission lines and sub-stations, as on 31.07.2011, are given in Tables A-I and A-II respectively.

Table A-I: Capacity of Transmission Lines
(All fig. in ckm)

Voltage level	Central Sector	State Sector	JV / Private Sector	Total (All India)
±500 kV HVDC	5948	1504	1980	9432
765 kV	4638	409	0	5047
400 kV	72489	31649	6117	110255
220 kV	10485	125619	425	136529
Total	93560	159181	8522	261263

Table A-II: Capacity of Substations
(All fig. in MVA / MW)

Voltage level	Central Sector	State Sector	JV / Private Sector	Total (All India)
±500 kV HVDC	9500	1700	0	11200
765 kV	4500	0	0	4500
400 kV	67840	66522	630	134992
220 kV	5856	202705	1440	210001
Total	87696	270927	2070	360693

(b) : For transfer of surplus power to deficit regions, an inter-regional transmission capacity of 23,750 MW is existing as on 31-07-2011. The margins in the inter-regional transmission capacity are also utilized for trading of electricity.

(c) : The details of inter-regional transmission capacity existing and planned for 11th Plan is at Annex.

(d) : At present, four out of five Regional Grids namely North, East, West and North-East are operating in synchronous mode and this is connected to Southern Region through various High Voltage Direct Currents (HVDC) links. Further, synchronous interconnection of Southern Grid with rest of the Grid is expected in 12th Plan.