

**GOVERNMENT OF INDIA
POWER
LOK SABHA**

STARRED QUESTION NO:419

ANSWERED ON:04.05.2012

NATIONAL POWER GRID

Dhanaplan Shri K. P.;Kurup Shri N.Peethambara

Will the Minister of POWER be pleased to state:

- (a) the structure of power grid in the country at present;
- (b) whether the different regional grids are inter-connected and if so, the details thereof;
- (c) whether the Government proposes to include the Southern States in the National Power Grid;
- (d) if so, the details thereof along with the benefits likely to be accrued therefrom; and
- (e) the time by which the Grid is likely to be implemented?

Answer

MINISTER OF THE STATE IN THE MINISTRY OF POWER (SHRI SUSHILKUMAR SHINDE)

(a) to (e): A Statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO. 419 TO BE ANSWERED IN THE LOK SABHA ON 04.05.2012 REGARDING NATIONAL POWER GRID.

(a) & (b): At present the national power grid in the country consists of transmission grids of respective State Transmission Utilities (STUs) and Inter State Transmission System (ISTS) grid. From the operational point of view the ISTS grid is divided into five Regional Grids i.e. Northern Region (NR), Western Region (WR), Southern Region (SR), Eastern Region (ER) and North Eastern Region (NER) Grids. These regional Grids have been inter-connected to form a national power grid. The national power grid is being developed in phased manner. By now, all the regional grids have already been inter-connected. Four regional grids of the national grid viz. NR, WR, ER and NER grids have been interconnected synchronously and the SR grid is connected asynchronously with the rest of the national power grid. The total transmission capacity of the inter-regional transmission links at the end of the 11th Plan as on 31.3.2012 was 27,750 MW.

(c): The Southern Region grid, comprising of Southern States is already a part of national power grid as it is connected through asynchronous links comprising of High Voltage Direct Current (HVDC) links and radially operated Alternating Current (AC) links.

(d) & (e): The Southern Region is also planned to be synchronously interconnected with the rest of the national power grid through two 765 kV single circuit lines between Raichur (Karnataka, SR) and Sholapur (Maharashtra, WR) by 2014. The additional links between the Southern and Western regions would enable increased transfer of power between Southern States and other States. Further, such augmentation of inter-regional capacity shall also facilitate integration of large renewable generation in Southern Region with rest of the country for its optimal utilization.