

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI BHARATSINH SOLANKI): (a) to (d) The information is being collected and will be laid on the Table of House.

Power capacity addition

†4118. SHRI RAJ MOHINDER SINGH MAJITHA: Will the Minister of POWER be pleased to state:

(a) whether it is a fact that an additional power generation capacity of 9,585 megawatt has been set up during 2009-10;

(b) if so, the break up of the installed power generation capacity by the private sector, the Central Government and the State Governments respectively; and

(c) the average estimated per unit cost of power generation in each of the power generation project installed by the private sector, Central Government and State Government respectively?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI BHARATSINH SOLANKI): (a) and (b) A capacity addition of 9585 MW, comprising 2180 MW in the Central Sector, 3118 MW in the State Sector and 4287 MW in the Private Sector, has been achieved in the 2009-10.

(c) The rate of sale of power for any project is determined either by the process of competitive bidding or by the appropriate regulatory commission for the cost plus tariff based projects.

Use of advanced technology in coal based power projects

†4119. SHRI SHIVANAND TIWARI:

SHRI RAJ MOHINDER SINGH MAJITHA:

Will the Minister of POWER be pleased to state:

(a) whether it is a fact that power generation cost can be reduced in coal-based power generation units by using advanced technology;

(b) if so, the facts thereof;

(c) whether emission of greenhouse gas would also reduce with the use of advanced technology; and

(d) if so, the extent to which it is likely to reduce and the percentage of those power generation projects which use advanced technology?

†Original notice of the question was received in Hindi.

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI BHARATSINH SOLANKI): (a) and (b) The cost of power generation depends on number of factors like the cost of equipment, cost of financing, project implementation period, operating efficiency and cost of coal etc. Large sized units based on super critical technology are being inducted with a view to increase fuel efficiency and reduce emission of green house gases. Supercritical technology would involve higher capital cost for initial units but part of the higher capital cost would be offset by lower fuel cost due to higher efficiency. Efforts have also been made to build up indigenous manufacturing capacity for supercritical units. BHEL have entered into collaboration with foreign manufacturers for supercritical equipment. Besides, several new joint ventures have been/are being formed to set up manufacturing facilities for supercritical units in the country. It is expected that progressive indigenization of technology as well as competition due to multiple suppliers would result in reduction of cost in the long run.

(c) and (d) As informed by the Central Electricity Authority, supercritical technology can lead upto about 5% reduction in greenhouse gases depending on steam parameters adopted as compared to the 500 MW sub critical units. Presently none of the power projects in operation is based on supercritical technology. Out of likely thermal capacity addition of 50,757 MW in the 11th Plan, 3440 MW capacity addition is expected to be from supercritical technology. Share of supercritical technology in 12th and 13th Plan is projected to be much higher.

Leakage of electricity

†4120. SHRI LALIT KISHORE CHATURVEDI:

DR. GYAN PRAKASH PILANIA:

Will the Minister of POWER be pleased to state:

- (a) whether it is a fact that problem of power leakage is countrywide;
- (b) the percentage of transmission losses and distribution losses respectively, State-wise;
- (c) whether arrangement of soft loan to State generation divisions for the purpose of strengthening of infrastructure to reduce transmission losses would be considered;
- (d) whether use of electricity meters to check distribution losses has been successful;
- (e) if not, the reasons therefor;

†Original notice of the question was received in Hindi.