GOVERNMENT OF INDIA
POWER
LOK SABHA

UNSTARRED QUESTION NO:6947
ANSWERED ON:07.05.2010
USE OF ENERGY EFFICIENT TECHNOLOGIES
Pradhan Shri Nityananda

Will the Minister of POWER be pleased to state:

(a) whether the power sector companies in the country have been asked to use the energy efficient technologies;

(b) if so, the details thereof;

(c) whether the Government proposes to make the energy efficient supercritical technology mandatory for all future power projects to help contribute towards global efforts to contain emission of greenhouses gases; and

(d) if so, the details thereof?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF POWER(SHRI BHARATSINH SOLANKI)

(a) to (d) : The Ministry of Power has initiated following measures to improve efficiency in the power sector :

i) Moving towards super critical and clean coal technologies;

ii) Renovation & Modernisation of old thermal power stations;

iii) Retirement of old and small size generating units.

iv) Energy Efficiency Improvement Awards − annual award for performance of thermal power stations award for best environment managed thermal power station and incentive awards to power generation and transmission companies to reduce transmission & distribution losses.

v) Establishment of an Energy Efficiency Cell at Thermal Power Stations.

vi) Several initiatives taken by Ministry of Power and Bureau of Energy Efficiency (BEE) include promotion of energy efficient compact fluorescent lamps, labeling of various appliances and equipments, energy efficiency in agricultural, municipal and building sectors, building of institutional capacity of State Designated Agencies for energy conservation activities and energy efficiency measures in small and medium enterprises.

Supercritical technology is being inducted to enhance the efficiency of coal fired thermal generation with the co-benefit of reducing GHG emissions. Out of the likely thermal capacity addition of 50757 MW in the 11th Plan, 3440 MW capacity addition is expected to be from supercritical technology. During the 12th Plan, about 50% of thermal capacity addition is expected to be from projects based on supercritical technology. In the 13th Plan it is proposed that coal fired capacity addition would be only through super critical units. The following steps have been taken by the Government for the promotion of supercritical technology in the country:-

i) Supercritical technology has been made mandatory for Ultra-mega Power Projects.

ii) In order to encourage domestic manufacturing of supercritical units, bulk order for 11 supercritical units of 660 MW for National Thermal Power Corporation (NTPC) and Damodar Valley Corporation (DVC) has been approved by the Government of India with mandatory condition of setting up phased manufacturing facilities in the country and bids for the same have been invited by NTPC.

iii) As per the Coal linkage policy for the 12th Plan, projects with supercritical technology are being given priority in coal allocation.