

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

STARRED QUESTION NO:293

ANSWERED ON:25.04.2012

NUCLEAR POWER GENERATION

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Will the Minister of ATOMIC ENERGY be pleased to state:

- (a) whether nuclear power sector is given lesser importance for power generation in the developed countries all over the world;
- (b) if so, the reaction of the Government thereto;
- (c) the percentage of power being generated from nuclear sector out of the total quantum of power generated in USA, England, China and Russia; and
- (d) the percentage of power targeted to be generated from nuclear sector in the country?

Answer

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER'S OFFICE (SHRI V. NARAYANASAMY)

(a) to (d) A statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO LOK SABHA STARRED QUESTION NO.293 FOR ANSWER ON 25.04.2012 BY DR. MURLI MANOHAR JOSHI AND SHRI RAJENDRASINH RANA REGARDING NUCLEAR POWER GENERATION

(a) The share of nuclear power in energy mix is country specific and is based on the electricity demand, availability of energy resources, technological and industrial capability etc. Currently, 436 nuclear power reactors are in operation in 31 countries and 61 reactors are under construction in 14 countries globally. Nuclear power contributed about 13.5% of total electricity generation in the world in the year 2011. Most of the developed countries continue to pursue nuclear power programmes to meet their electricity requirements. Among developed countries, there are 16 reactors under construction - ten in Russia, three in South Korea and one each in France, Finland & USA.

(b) India's electricity demand is huge and growing. All energy sources including nuclear power are being deployed optimally to meet the country's growing demand. Nuclear power is a clean energy option and has vast potential to provide long term energy security. It would therefore be an important component of the country's energy mix.

(c) The share of nuclear power in the total electricity generation in USA, UK, China and Russia in the year 2011 was 19.2%, 17.8%, 1.8% and 17.6% respectively.

(d) The share of nuclear power in the total electricity generation in our country in the year 2011-12 was 3.7% and the installed nuclear power capacity was 4780 MW. The Integrated Energy Policy envisages reaching a nuclear power capacity of about 63,000 MW out of the total 7,78,000 MW capacity required for a GDP growth rate of 8% by the year 2032. The share of nuclear power in the year 2032 is expected to be of the order of 10%, depending on generation from various sources in that year.