

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO.166
TO BE ANSWERED ON 03.02.2022

NUCLEAR ENERGY POWERED ELECTRICITY GENERATION

166 Shri Ayodhya Rami Reddy Alla:

Will the PRIME MINISTER be pleased to state:

- (a) whether energy demand and necessity to reduce CO₂ emissions are worldwide challenges, that necessitates moving towards “green” choices, to reduce the anthropogenic environmental impact created by various industries and Governments all over world;
- (b) whether among the clean energy options currently available in world market, only nuclear power can provide constant energy, regardless of weather or geological conditions, making nuclear power one of the most promising low-carbon energy options;
- (c) share of Nuclear-Powered electricity generation in comparison to other generating sources in the country; and
- (d) steps being undertaken by Government towards ensuring long term energy security through utilization of nuclear option?

ANSWER

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER’S OFFICE (DR.JITENDRA SINGH):

- (a) Yes Sir, the recent COP-26 summit held in Glasgow focuses on importance of reducing carbon based fuels for energy needs and switching over to non carbon or low carbon based energy sources also known as “green” energy sources in a phased manner, ultimately leading to net Zero carbon emission.

- (b) Nuclear Power is one of the constant energy source also known as baseload plant regardless of weather or Geological conditions and one of the most promising low-carbon energy options. It is expected that Nuclear Energy will play significant role with low carbon energy option.

- (c) The present share (April to December 2021) of nuclear power in the total electricity generation in the country was about 3.1%. The corresponding shares of Thermal, Hydro, Renewables and Bhutan Import are 73.4%, 11.4%, 11.5% and 0.7% respectively.

- (d) India is pursuing an indigenous three-stage nuclear power programme to provide the country long term energy security in a sustainable manner. In addition, Light Water Reactors based on foreign cooperation are also being set up as additionalities. A large expansion programme of nuclear power is being undertaken to provide the country clean electricity.
