

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO- 321
ANSWERED ON 28/11/2024

AFFORDABLE AND CLEAN ENERGY FOR ALL

321. DR. SIKANDER KUMAR

Will the PRIME MINISTER be pleased to state:-

- (a) whether it is a fact that Government envisages of reaching nuclear capacity of about 100 GW by 2047;
- (b) if so, the details thereof;
- (c) whether Government has taken any measures to build adequate infrastructure for alternative sources such as nuclear energy along with storage to support the integration of renewable energy in Himachal Pradesh; and
- (d) whether new inventions are being made to modernize nuclear power plants across the country?

ANSWER

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

- (a) & (b) Presently, a plan to increase the nuclear power capacity to 22480 MW by 2031-32 from the present capacity of 8180 MW is being implemented. While various studies on India's energy transition to Net Zero by 2070 have projected the need to have a national nuclear capacity of the order of 100 GW by 2047, recommendation of those studies are being viewed for possible future adoption.
- (c) Nuclear energy is a base load source of energy and does not require additional infrastructure for integration to the grid like that required for intermittent sources (renewables like wind, solar etc.).
- (d) Yes. The effort to enhance the safety and operational performance of existing nuclear power plants by innovations in design, adoption of improved operational & maintenance practices, implementation of upgrades etc. is an ongoing activity in Indian nuclear power plants.
