

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:1060
ANSWERED ON:03.03.2010
ENERGY THROUGH FUSION TECHNOLOGY
Kashyap Shri Virender;Thakur Shri Anurag Singh

Will the Minister of ATOMIC ENERGY be pleased to state:

- (a) whether Government proposes to produce energy through Fusion Technology;
- (b) if so, the details thereof; and
- (c) the time by which it is likely to be implemented?

Answer

MINISTER OF THE STATE (INDEPENDENT CHARGE) IN THE MINISTRY OF SCIENCE & TECHNOLOGY AND EARTH SCIENCES; MINISTER OF STATE FOR PMO, PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PARLIAMENTARY AFFAIRS {SHRI PRITHVIRAJ CHAVAN};

(a) Yes, Sir.

(b) Producing energy through fusion technology is the long term objective of the scientific project in Fusion Science & Technology undertaken by Institute of Plasma Research(IPR). The principal steps in this project are; Basic Research in Magnetic Fusion using tokamaks (Aditya and SST-1) with the developments of associated technologies, participation in International Thermonuclear Experimental Reactor (ITER) Programme and Fusion Technology Programme (i.e. critical technologies development like Test Blanket, magnet, diverter, vessel, Radio Frequency & Neutral Beam etc.) and design and development of a DEMO fusion Reactor.

(c) The steps outlined in (b) above are envisaged over a period of 30-40 years.