

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:5830
ANSWERED ON:29.04.2015
NUCLEAR POWER GENERATION
Jaiswal Dr. Sanjay

Will the Minister of ATOMIC ENERGY be pleased to state:

(a) whether the Government is targeting generation of 63000 MW of nuclear power by 2032 in line with the National Energy Policy, 2006; and

(b) if so, the measures taken by the Government to achieve the target considering the current installed capacity of only 5780 MW?

Answer

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

(a) In July 2014, a target of tripling the then existing capacity of 4780 MW in the next ten years (by 2024) was set. However, the Department of Atomic Energy (DAE) has set for itself an ambitious target of reaching an installed generation capacity of 63000 MW by the year 2031-32.

(b) A capacity of 1000 MW has already been added to the grid in December 2014 by start of commercial operation of Kudankulam Unit-1 taking the capacity to 5780 MW. The target of tripling of the capacity of 4780 MW by 2024 is expected to be met, largely on progressive completion of projects under construction and the projects accorded financial sanction.

The Government had also accorded 'in principle' approval of the following sites for locating nuclear power projects in future, based on both indigenous technologies and with foreign co-operation:

Site	State	Capacity (MW)	In cooperation with
Indigenous Reactors			
Gorakhpur,	Haryana	4 X 700	Indigenous
Chutka	Madhya Pradesh	2 X 700	
Bhimpur		4 X 700	
Kaiga	Karnataka	2 X 700	
Mahi Banswara	Rajasthan	4 X 700	
With Foreign Cooperation			
Kudankulam	Tamil Nadu	4 X 1000	Russian Federation
Jaitapur	Maharashtra	6 X 1650	France
Chhaya Mithi Virdi	Gujarat	6 X 1000	USA
Kovvada	Andhra Pradesh	6 X 1000	USA
Hariipur	West Bengal	6 X 1000	Russian Federation
Nominal Capacity			
Pre-project activities have been taken up at these sites			

Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI), a Public Sector Undertaking of Department of Atomic Energy (DAE) is presently constructing a Prototype Fast Breeder Reactor (PFBR) of 500 MWe capacity at Kalpakkam, Tamil Nadu. In addition, two Fast Breeder Reactors of 600 MW are also proposed to be constructed at Kalpakkam.

A 300 MWe Advanced Heavy Water Reactor (AHWR) using Thorium based fuel has been designed and developed. This reactor will serve as a technology demonstrator for the Thorium fuel cycle technologies. A project for initiation of activities towards start of construction of AHWR has been included in the XII Plan.

The installed nuclear generation capacity by 2031-32 would depend on actual start of projects and their completion, which in turn would be contingent to completion of pre-project activities like land acquisition and obtaining statutory clearances and conclusion of techno-commercial discussion in respect of reactors to be set up with foreign co-operation.