

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:936

ANSWERED ON:16.07.2014

SHARE OF NUCLEAR ENERGY

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Will the Minister of ATOMIC ENERGY be pleased to state:

- (a) the share of India's nuclear energy in total electricity generation in the country vis-a-vis other major countries;
- (b) the number of nuclear plants that are functional in the country with their capacity to generate electricity and location of each plants; and
- (c) the number of nuclear plants under construction along with their capacity and location?

Answer

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

(a) The share of nuclear energy in total electricity generation during the year 2013 was about 3.5%. The share of nuclear energy in electricity generation during the year calendar 2013 for some of the nuclear power generating countries is as follows:

Country	Nuclear Share in 2013 (%)
USA	19.4
UK	18.3
Russian Federation	17.5
France	73.3
Korea	27.6
Germany	15.4
China	2.1

Source: PRIS, IAEA

(b) The installed nuclear power capacity of 4780 MW in the country comprises 20 nuclear power plant units. In addition, Kudankulam Nuclear Power Plant (KKNPP) Unit-1 of 1000 MW capacity, situated at Kudankulam, Tamil Nadu, was connected to the grid on October 22, 2013. The details in this regard are as under:

Location & State	UNITS	Capacity MW
Tarapur,	TAPS-1	160
Maharashtra		
	TAPS-2	160
	TAPS-3	540
	TAPS-4	540
Rawatbhata,	RAPS-1	100
Rajasthan	RAPS-2	200
	RAPS-3	220
	RAPS-4	220
	RAPS-5	220
	RAPS-6	220
Kalpakkam,	MAPS-1	220
Tamil Nadu	MAPS-2	220
Narora,	NAPS-1	220
Uttar Pradesh	NAPS-2	220

Kakrapar, KAPS-1 220
Gujarat KAPS-2 220
Kaiga, KAIGA-1 220
Karnataka KAIGA-2 220
KAIGA-3 220
KAIGA-4 220

RAPS # 1 (100 MW) is under shutdown since October, 2004 for techno-economic assessment.

(c) One reactor, KKNPP Unit – 2 (1000 MW) is under commissioning, and five reactors are under various stages of construction. The details are as under

UNITS	Location	Capacity	& State (MW)
KAPS-3	Kakrapar,	700	Gujarat
KAPS-4		700	
RAPS-7	Rawatbhata,	700	Rajasthan
RAPS-8		700	
PFBR	Kalpakkam,	500	Tamil Nadu

KAPS – Kakrapar Atomic Power Station,

RAPS-Rajasthan Atomic Power Station

PFBR- Prototype Fast Breeder Reactor