

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
STARRED QUESTION NO. 263
TO BE ANSWERED ON 16.03.2016

NUCLEAR POWER GENERATION

*263. SHRI NAGAR RODMAL:

Will the PRIME MINISTER be pleased to state:

- (a) the total generation of power from the Nuclear Power Plants (NPPs) during each of the last three years and the current year, year and plant-wise;
- (b) the target set for generation of electricity from the nuclear power stations during the current Five Year Plan, year and plant-wise;
- (c) whether some of the nuclear power plants are generating electricity below their installed capacity and if so, the details thereof and the reasons therefor;
- (d) the share of nuclear power to the total energy mix along with long term perspective plan drawn for improving the ratio; and
- (e) the steps taken/being taken by the Government to promote nuclear power?

ANSWER

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

(a) to (e) A statement is placed on the Table of the House.

Government of India
Department of Atomic Energy

STATEMENT REFERRED TO IN REPLY TO LOK SABHA STARRED QUESTION NO.*263 DUE FOR ANSWER ON 16.03.2016 BY SHRI NAGAR RODMAL REGARDING NUCLEAR POWER GENERATION

- (a) The details are given in Annexure -1.
- (b) The targets for generation of electricity for the current five year plan were set in the year 2011. The details are given in Annexure -2.
- (c) No, Sir. The nuclear power plants are presently generating electricity as per their rated capacity.
- (d) The present (April 2015 to February 2016) share of nuclear power in the total electricity generation is about 3.3%. The share is proposed to be increased by adding more nuclear power capacity. In this regard, the government in July 2014 had set a target of tripling the then existing nuclear power capacity of 4780 MW in next ten years (by 2024). More nuclear power reactors are also planned in future.
- (e) The government has taken several enabling steps to increase the nuclear power capacity. These include accord of "In principle" approval of sites for locating future reactors based both on indigenous technologies and with foreign technical cooperation, entering into enabling agreements with foreign countries for nuclear cooperation including supply of fuel, amendment of the Atomic Energy Act to enable Joint Ventures of Public Sector Companies to set up nuclear power projects and creation of Indian Nuclear Insurance Pool (INIP).

ANNEXURE – 1

Nuclear Power Plant	Generation, Million Units (MUs)*			
	2012 – 13	2013 – 14	2014 – 15	2015-16 (Upto Feb-2016)
Tarapur Atomic Power Station - 1	577	1322	718	669
Tarapur Atomic Power Station - 2	1007	806	1297	500
Tarapur Atomic Power Station - 3	4373	3739	4545	4128
Tarapur Atomic Power Station - 4	3866	4017	3713	4178
Rajasthan Atomic Power Station - 2	1584	1688	1282	1226
Rajasthan Atomic Power Station - 3	1757	1946	1720	1682
Rajasthan Atomic Power Station - 4	1926	1772	1995	1497
Rajasthan Atomic Power Station - 5	1760	2041	1628	1781
Rajasthan Atomic Power Station - 6	1819	1787	1109	1607
Madras Atomic Power Station - 1	1485	1354	1318	1704
Madras Atomic Power Station - 2	1257	761	1299	1214
Narora Atomic Power Station - 1	1226	1490	1341	1639
Narora Atomic Power Station - 2	1315	1214	1550	1463
Kakrapar Atomic Power Station - 1	1832	1862	1943	1552
Kakrapar Atomic Power Station - 2	1639	1891	1586	421
Kaiga Generating Station - 1	1464	1587	1695	1757
Kaiga Generating Station - 2	1270	1740	1450	1664
Kaiga Generating Station - 3	1447	1759	1567	1901
Kaiga Generating Station - 4	1259	1454	1751	1664
Kudankulam Nuclear Power Plant Unit - 1	--	1106 ^{\$}	2243 ^{\$} + 2087	1622
Total	32863	35333	37835	33868

* The generation figures are rounded off to the nearest digit.

\$ This is infirm power generation before commercial operation.

ANNEXURE-2

XII Plan Generation Targets (set in 2011)

Generation in Million Units (MUs)

Station	Capacity (MW)	2012-13	2013-14	2014-15	2015-16	2016-17	XII PLAN TOTAL
NPCIL							
Stations with indigenous fuel							
MAPS-1&2	440	2698	2891	3084	3084	3084	14839
NAPS-1&2	440	2698	2891	Placed under IAEA safeguards			5589
KGS-1&2	440	2698	2891	3084	3084	3084	14839
KGS-3&4	440	2698	2891	3084	3084	3084	14839
TAPS-3&4	1080	6007	7096	7569	7569	8185	36424
KAPS-3&4	1400	Under construction				4200	4200
RAPS-7&8	1400					2100	2100
Sub Total	5640	16799	18659	16819	16819	23736	92832
Stations under IAEA safeguards							
TAPS-1&2	320	2383	2383	2383	2383	2383	11914
RAPS-2 to 6	1080	8042	8042	8042	8042	8042	40208
KAPS-1&2	440	3276	3276	3276	3276	3276	16381
NAPS-1&2	440	With indigenous fuel		3276	3276	3276	9829
KK-1&2	2000	7501	13808	14892	14892	14892	65985
Sub Total	4280	21201	27509	31869	31869	31869	144317
NPCIL TOTAL	9920	38000	46167	48688	48688	55605	237149
BHAVINI							
PFBR	500	Under construction & commissioning			2190	2409	4599
TOTAL	9980	38000	46167	48688	50878	58014	241748
