

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO - 1286
ANSWERED ON 30/07/2026

GENERATION OF NUCLEAR POWER

1286. SHRI MILIND MURLI DEORA

Will the PRIME MINISTER be pleased to state:-

- (a) the total installed nuclear power capacity in the country as on date, reactor-wise and power station-wise;
- (b) the year-wise nuclear power generation (in MUs) for each of the last five years (2019-20 to 2023-24), reactor-wise and power station-wise;
- (c) the State-wise distribution of nuclear power plants and their respective installed capacities;
- (d) whether the Plant Load Factor (PLF) of any nuclear plant has been below the national average during the last five years and if so, the details thereof along with reasons therefor; and
- (e) the steps taken by the Government to improve PLF and optimise generation at underperforming stations?

ANSWER

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

- (a) to (c) Presently, there are 24 nuclear power reactors in commercial operation in the country with a total capacity of 8,780 MW. The details are given in Annexure.
- (d) During the period 2019-20 to 2023-24, except KAPS-4 which commenced commercial operation in March-2024, the average PLF of nuclear power plants (excluding duration of major refurbishment) has been higher in comparison to the average all India Thermal PLF (excluding Gas based Power Plants, *source CEA report*).
- (e) Does not arise in view of 'd'.

Annexure

State	Station	Description	Capacity (MW)	Generation in Million Units (MUs)					Remarks
				2019-20	2020-21	2021-22	2022-23	2023-24	
Maharashtra	TAPS-1&2	Unit-1	160	954	Unit under project mode				
		Unit-2	160	1234	341	Unit under project mode			
		Station	320	2188	341	-	-	-	
	TAPS-3&4	Unit-3	540	3827	3877	3829	4636	4148	
		Unit-4	540	4522	3669	4774	4349	3965	
		Station	1080	8349	7546	8602	8985	8112	
Rajasthan	RAPS-2	Unit-2	200	1410	429	1453	733	1605	
		Station	200	1410	429	1453	733	1605	
	RAPS-3&4	Unit-3	220	1705	1699	1563	1024	Unit under project mode	
		Unit-4	220	1688	1816	1723	1239	1701	
		Station	440	3393	3516	3285	2263	1701	
	RAPS-5&6	Unit-5	220	1946	1427	1869	1661	1986	
		Unit-6	220	1703	2015	1702	1923	1768	
		Station	440	3649	3442	3570	3585	3754	
	RAPP-7&8	Unit-7	Unit under construction						Commissioned on 15.04.2025
		Unit-8	Unit under construction						
		Station	-						
Uttar Pradesh	NAPS-1&2	Unit-1	220	1900	1738	1828	1542	1521	
		Unit-2	220	1891	1547	1753	1651	1353	
		Station	440	3791	3285	3580	3193	2875	
Gujarat	KAPS-1&2	Unit-1	220	1467	1817	1852	1793	1967	
		Unit-2	220	1962	1896	1652	1846	1708	
		Station	440	3429	3713	3503	3640	3675	
	KAPS-3&4	Unit-3	700	Unit under construction				3932	Commissioned on 30.06.2023
		Unit-4	700	Unit under construction				3	Commissioned on 31.03.2021
		Station	1400	-				3935	
Karnataka	KGS-1&2	Unit-1	220	1841	1903	1607	1855	1643	
		Unit-2	220	1773	1592	1805	1687	1935	
		Station	440	3614	3495	3412	3542	3578	
	KGS-3&4	Unit-3	220	1838	1635	2059	2073	1918	
		Unit-4	220	1827	1964	2021	1829	2006	
		Station	440	3664	3599	4080	3901	3924	
Tamil Nadu	MAPS-1&2	Unit-1	220	Unit under project mode					
		Unit-2	220	1843	1704	1089	1786	1592	
		Station	440	1843	1704	1089	1786	1592	
	KKNPP-1&2	Unit-1	1000	7115	5638	7009	7035	6656	
		Unit-2	1000	4029	6323	7527	7191	6563	
		Station	2000	11144	11961	14536	14226	13219	
