Source: OM SECTION

1.Total Installed Capacity (As on 30.09.2024)- Source : Central Electricity Authority (CEA)

> Installed Generation Capacity (Sectorwise) as on 30.09.2024:

Sector	Installed Capacity (MW)	% Share in Total	
Central Sector	1,04,453	23.1%	
State	1,08,282	23.9%	
Private Sector	2,39,960	53.0%	
TOTAL	4,52,695		



> Installed Generation Capacity (Fuelwise) as on 30.09.2024:

Category			Installed Generation Capacity (MW)	% Share in Total	
	Coal		2,11,030	46.6%	
nel	Lignite	6,620	1.5%		
Fossil Fuel	Gas	24,818	5.5%		
3SO-	Diesel	589	0.1%		
Total Fossil Fuel:			2,43,057	53.7%	
Non-Fossil Fuel	RES (Incl. Hydro) Hydro Wind, Solar & Other RE Wind Solar BM Power/Cogen. Waste to Energy Small Hydro Power	46,928 1,54,530 47,363 90,762 10,724 604 5,076	2,01,458	44.5% 10.4% 34.1% 10.5% 20.0% 2.4% 0.1% 1.1%	
	Nuclear	-,-	8,180	1.8%	
Total Non-Fossil Fuel:			2,09,638	46.3%	
	Total Installed Capacit	4,52,695	100%		

Policy Initiatives / Decision Taken

Electricity Act 2003 has been enacted and came into force from 15.06.2003. The objective is to introduce competition, protect consumer's interests and provide power for all. The Act provides for National Electricity Policy, Rural Electrification, Open access in transmission, phased open access in distribution, mandatory SERCs, license free generation and distribution, power trading, mandatory metering and stringent penalties for theft of electricity.

It is a comprehensive legislation replacing Electricity Act 1910, Electricity Supply Act 1948 and Electricity Regulatory Commission Act 1998. The Electricity Act, 2003 has been amended on two occasions by the Electricity (Amendment) Act, 2003 and the Electricity (Amendment) Act, 2007. The aim is to push the sector onto a trajectory of sound commercial growth and to enable the States and the Centre to move in harmony and coordination.

Performance of Generation from all Sources

1.0 Performance of Electricity Generation (Including RE)

1.1 The electricity generation target (Including RE) for the year 2024-25 has been fixed as 1900 Billion Unit (BU). i.e. growth of around 9.3% over actual generation of 1738.828 BU for the previous year (2023-24). The generation during 2023-24 was 1738.828 BU as compared to 1624.465 BU generated during 2022-23, representing a growth of about 7.04%.

1.2 Total Generation and growth over previous year in the country during 2009-10 to 2024-25:-

Year	Total Generation (Including Renewable Sources) (BU)	% Growth		
2009-10	808.498	7.56		
2010-11	850.387	5.59		
2011-12	928.113	9.14		
2012-13	969.506	4.46		
2013-14	1,020.200	5.23		
2014-15	1,110.392	8.84		
2015-16	1,173.603	5.69		
2016-17	1,241.689	5.80		
2017-18	1,308.146	5.35		
2018-19	1,376.095	5.19		
2019-20	1,389.102	0.95		
2020-21	1,381.855	-0.52		
2021-22	1,491.859	7.96		
2022-23	1,624.465	8.89		
2023-24	1,739.091	7.06		
2024-25 *	951.102	5.85		

- * Upto September, 2024 (Provisional), Source : CEA
- 1.3 The electricity generation target for the year 2024-25 was fixed at 1900 BU comprising of 1444.943 BU Thermal; 147.709 BU Hydro; 55.348 Nuclear; 8 BU Import from Bhutan and 244 BU RES (Excl. Large Hydro).

2.0 Plant Load Factor (PLF):

2.1 The PLF in the country (Coal & Lignite based) from 2009-10 to 2024-25 is as under:

Veer	All India PLF		Sector-wise PLF (%)		
Year	(%)	Central	State	Private	
2009-10	77.5	85.5	70.9	83.9	
2010-11	75.1	85.1	66.7	80.7	
2011-12	73.3	82.1	68.0	69.5	
2012-13	69.9	79.2	65.6	64.1	
2013-14	65.60	76.10	59.10	62.10	
2014-15	64.46	73.96	59.83	60.58	
2015-16	62.29	72.52	55.41	60.49	
2016-17	59.88	71.98	54.35	55.73	
2017-18	60.72	72.38	56.90	55.34	
2018-19	61.07	72.64	57.81	55.24	
2019-20	55.99	64.21	50.24	54.64	
2020-21	54.51	63.40	46.23	54.66	
2021-22	58.87	69.71	54.50	53.62	
2022-23	64.15	74.67	61.86	56.64	
2023-24	69.09	75.09	64.70	67.65	
2024-25 *	70.18	74.62	65.00	70.94	

^{*} Upto September, 2024 (Provisional), Source : CEA

3.0 Power Supply Position

The power supply position in the country during 2009-10 to 2024-25:

	Energy			Peak				
Year	Requirement	Availability	Surplus (+) / Deficits (-)		Peak Demand Maximum Demand Met		Surplus (+) / Deficits (-)	
	(MU)	(MU)	(MU)	(%)	(MW)	(MW)	(MW)	(%)
2009-10	8,30,594	7,46,644	-83,950	-10.1	1,19,166	1,04,009	-15,157	-12.7
2010-11	8,61,591	7,88,355	-73,236	-8.5	1,22,287	1,10,256	-12,031	-9.8
2011-12	9,37,199	8,57,886	-79,313	-8.5	1,30,006	1,16,191	-13,815	-10.6
2012-13	9,95,557	9,08,652	-86,905	-8.7	1,35,453	1,23,294	-12,159	-9.0
2013-14	10,02,257	9,59,829	-42,428	-4.2	1,35,918	1,29,815	-6,103	-4.5
2014-15	10,68,923	10,30,785	-38,138	-3.6	1,48,166	1,41,160	-7,006	-4.7
2015-16	11,14,408	10,90,850	-23,558	-2.1	1,53,366	1,48,463	-4,903	-3.2
2016-17	11,42,929	11,35,334	-7,595	-0.7	1,59,542	1,56,934	-2,608	-1.6
2017-18	12,13,326	12,04,697	-8,629	-0.7	1,64,066	1,60,752	-3,314	-2.0
2018-19	12,74,595	12,67,526	-7,070	-0.6	1,77,022	1,75,528	-1,494	-0.8
2019-20	12,91,010	12,84,444	-6,566	-0.5	1,83,804	1,82,533	-1,271	-0.7
2020-21	12,75,534	12,70,663	-4,871	-0.4	1,90,198	1,89,395	-802	-0.4
2021-22	13,79,812	13,74,024	-5,787	-0.4	2,03,014	2,00,539	-2,475	-1.2
2022-23	15,13,497	15,05,914	-7,583	-0.5	2,15,888	2,07,231	-8,657	-4.0
2023-24	16,26,132	16,22,020	-4,112	-0.3	2,43,271	2,39,931	-3,340	-1.4



