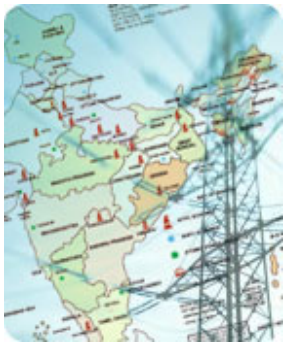
Power Sector at a Glance "ALL INDIA"

Source: OM SECTION

1.Total Installed Capacity (As on 31.07.2025)- Source : Central Electricity Authority (CEA)

- **Installed Generation Capacity (Sectorwise) as on 31.07.2025 :**

Sector	Installed Generation Capacity (MW)	% Share in Total
Central Sector	1,08,783	22.2%
State Sector	1,11,884	22.8%
Private Sector	2,69,394	55.0%
Total Installed Capacity	4,90,061	100.0%



- **Installed Generation Capacity (Fuelwise) as on 31.07.2025 :**

Category		Installed Generation Capacity (MW)	% Share in Total
Fossil Fuel	Coal	2,16,448	44.2%
	Lignite	6,620	1.4%
	Gas	20,132	4.1%
	Diesel	589	0.1%
	Total Fossil Fuel :	**2,43,790**	**49.7%**
Non-Fossil Fuel	RES (Incl. Hydro)	2,37,491	48.5%
	Hydro 49,628		10.1%
	Wind, Solar & Other RE 1,87,863		38.3%
	Wind 52,140		*10.6%*
	Solar 1,19,017		*24.3%*
	BM Power/Cogen. 10,743		*2.2%*
	Waste to Energy 854		*0.2%*
	Small Hydro Power 5,109		*1.0%*
	Nuclear	8,780	1.8%
	Total Non-Fossil Fuel :	**2,46,271**	**50.3%**
	Total Installed Capacity (Fossil Fuel & Non-Fossil Fuel)	**4,90,061**	**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 2025-26 has been fixed as 2000.4 Billion Unit (BU). i.e. growth of around 9.3% over actual generation of 1829.698 BU for the previous year (2024-25). The generation during 2024-25 was 1829.698 BU as compared to 1739.091 BU generated during 2023-24, representing a growth of about 5.21%.

1.2 **Total Generation and growth over previous year in the country during 2009-10 to 2025-26 :-**

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	1,829.698	5.21
2025-26 *	639.965	-0.95

** Upto July, 2025 (Provisional), Source : CEA*

1.3 The electricity generation target for the year 2025-26 was fixed at 2000.4 BU comprising of 1503.262 BU Thermal; 155.674 BU Hydro; 56.592 BU Nuclear; 9.472 BU Import from Bhutan and 275 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 2025-26 is as under:**

Year	All India PLF (%)	Sector-wise PLF (%)		
		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	69.45	75.32	63.23	69.96
2025-26 *	67.44	70.20	59.71	72.43

** Upto July, 2025 (Provisional), Source : CEA*

3.0 Power Supply Position

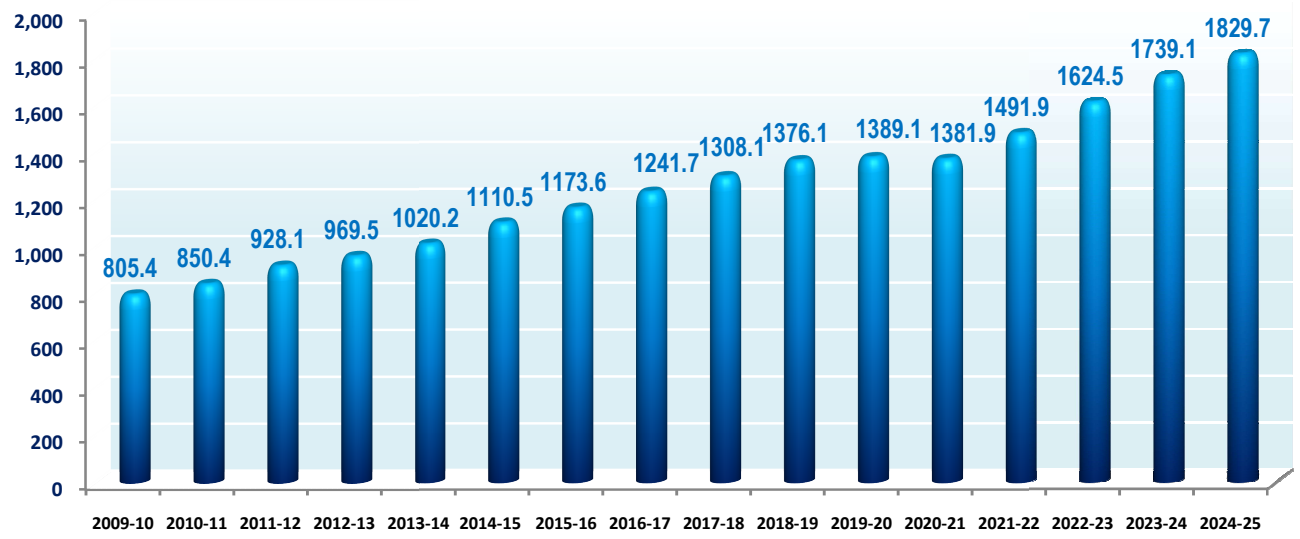
The power supply position in the country during 2009-10 to 2025-26 :

Year	Energy				Peak			
	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
2024-25	16,93,959	16,92,369	-1,590	-0.1	2,49,856	2,49,854	-2	-0.001
2025-26 *	5,98,213	5,98,025	-189	-0.03	2,42,773	2,42,493	-280	-0.1

** Upto July, 2025 (Provisional), Source : CEA*

Total Generation (Including Renewable Sources)

(In Billion Units)



Growth in Total Generation (%)