

1.Total Installed Capacity (As on 30.04.2020)

Source : Central Electricity Authority (CEA)

Sector	MW	% of Total
Central Sector	93,477	25.2%
State Sector	103,322	27.9%
Private Sector	173,549	46.9%
Total	3,70,348	

Fuel	MW	% of Total
Total Thermal	2,30,600	62.8%
Coal	1,98,525	54.2%
Lignite	6,610	1.7%
Gas	24,955	6.7%
Diesel	510	0.1%
Hydro (Renewable)	45,699	12.4%
Nuclear	6,780	1.9%
RES* (MNRE)	87,269	23.6%
Total	370,348	

* Installed capacity in respect of RES (MNRE) as on 30.04.2020.

RES (Renewable Energy Sources) include Small Hydro Project, Biomass Gasifier, Biomass Power, Urban & Industrial Waste Power, Solar and Wind Energy.

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 Conventional Sources

1.0 PERFORMANCE OF CONVENTIONAL GENERATION

1.1 The electricity generation target of conventional sources for the year 2020-21 has been fixed as 1330 Billion Unit (BU). i.e. growth of around 6.33% over actual conventional generation of 1250.784 BU for the previous year (2019-20). The conventional generation during 2019-20 was 1250.784 BU as compared to 1249.337 BU generated during 2018-19, representing a growth of about 0.12%.

1.2 **Generation and growth in conventional generation in the country during 2009-10 to 2020-21 :-**

Year	Energy Generation from Conventional Sources (BU)	% of Growth
2009-10	771.551	6.6
2010-11	811.143	5.56
2011-12	876.887	8.11
2012-13	912.056	4.01
2013-14	967.150	6.04
2014-15	1048.673	8.43
2015-16	1107.822	5.64
2016-17	1160.141	4.72
2017-18	1206.306	3.98
2018-19	1249.337	3.57
2019-20	1252.611	0.26
2020-21	91.913	-22.85

* Upto April 2020 (Provisional), Source : CEA

1.3 The electricity generation target of conventional sources for the year 2020-21 was fixed at 1330 BU comprising of 1138.533 BU thermal; 140.357 BU hydro; 43.880 nuclear; and 7.230 BU import from Bhutan.

2.0 Plant Load Factor (PLF):

2.1 The PLF in the country (Coal & Lignite based) from 2009-10 to 2020-21 is as under:

Year	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	60.67	72.35	56.83	55.32
2018-19	61.07	72.64	57.81	55.24
2019-20	56.08	65.36	50.26	54.73
2020-21	42.40	49.86	33.48	44.28

* Upto April 2020 (Provisional), Source : CEA

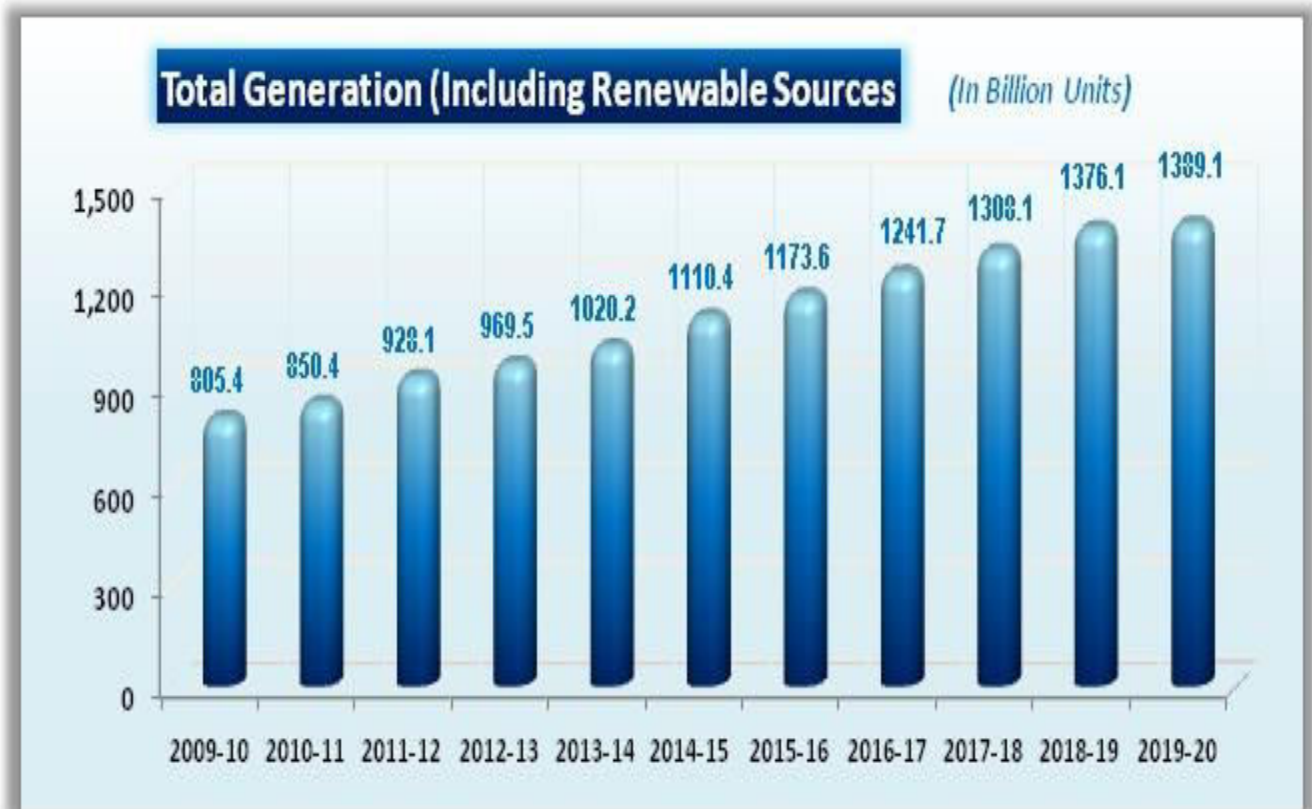
3.0 Power Supply Position

The power supply position in the country during 2009-10 to 2020-21 :

Year	Energy				Peak			
	Required	Available	Surplus(+)/ Deficits(-)		Peak Demand	Peak 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	12,90,247	12,83,690	-6,557	-0.5	1,83,804	1,82,533	-1,271	-0.7
2020-21*	85,608	85,164	-445	-0.5	1,33,315	1,32,779	-536	-0.4

* Upto April 2020 (Provisional), Source : CEA

Generation (Billion Units)



Generation Growth (%)

