

NTPC Stations													NTPC Group
Name of Indicator	Unit	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2019
		FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2019-20
<b>Air Emissions</b>													
<b>GHG Emission</b>													
SCOPE 1 Emission	Metric Ton	185584163	188513981	189986958	200994691	201036494	213050961	231671485	221222495	231986764	240369173	226080478.8	252436025.1
Emissions from coal electricity gen.	Metric Ton			179902214	192228461	192228262	206108871	223400199	217455761	228061009	237063452	223845190	248577992.9
Emissions from gas electricity gen.	Metric Ton			10084744	8766230	8808232	6942090	8271286	3766734	3925755	3305721	2235289	3858032.265
SCOPE 2 Emission	Metric Ton									24936.61	23267.5	15845	15845
SCOPE 3 Emission	Metric Ton											870466.28	978052
Emission Intensity	tco2/ MWh	0.849	0.855	0.861	0.870	0.863	0.883	0.969	0.884	0.873	0.876	0.871	0.870
<b>Other Emissions</b>													
NOx Emission	Metric Ton	465340	490891	464822	489711	522375	556351	496262	432876.7	482410	547768	562239.92	612983.06
Specific NOx emissions	gm/ kwh	2.13	2.23	2.11	2.25	2.27	2.4	2.3	2.2	1.73	1.77	1.88	2.11
SOx Emission	Metric Ton	776324	839086	790889	847919	942700	1047914	846003	832362.2	959902	1203030	1171804.78	1279366.157
Specific SOx emissions	gm/ kwh	3.55	3.81	3.58	3.93	4.34	4.4	3.7	3.32	2.63	3.38	3.47	4.41
SPM Emission	Metric Ton	99985	104529	106922	100226	103016	109573	101722	98071.26	88830	88948	83892.41	89246.82
Specific SPM emissions	gm/ kwh	0.46	0.47	0.48	0.46	0.47	0.46	0.44	0.39	0.27	0.26	0.22	0.31
<b>Waste</b>													
<b>Non-Hazardous Wastes</b>													
Misc. Ferrous Scrap	MT	15,661	24,278	15,503	40,053	26,271	18,109	15,268.76	20,207	44,305.72	29124.67	26757	28774
Non Ferrous Scrap	MT	875	626	498	867	893	2,077	2,385.60	714.66	2,304.97	2154.44	1920.025	2042
Municipal Waste	MT										32379	30321.53	31506
<b>Hazardous Wastes</b>													
PCB	MT	0	0	0	0	0	0	0	0	0	0	0	0
Used Batteries	MT	37	101	110	144	115	154	136.41	138.55	162.515	86	130	133
Spent Resin	KL	1.478	1.271	8.879	17.952	27.88	44.024	28.17	65.9	78.405	17.2	28.68	29
Used lube oil	KL	870	827	702	1012	2385	700.66	1437.36	543.46	764.3	1006.333	1116	1116
Transformer Oil	KL	381	412	148	197	230	591.35	227.61	253.76	203.3	105.6	146.536	206
Bio-medical waste	MT	--	10.37	10.727	10.678	19.565	26.405	14.232	19.9736	26.62881	21.61824	22.6	83
E-Waste	MT										42.11	77	83.523
<b>Water</b>													
<b>Fresh Water Consumption (closed cycle stations only)</b>													
Freshwater Withdrawal	MCM			626.39	664.20	4671.10	4546.30	4411.10	553.32	561.01	593.25	583.95	849.4
Specific water consumption	m3/MWh			3.82				3.33	3.22	3.06	3.04	3.15	2.93
<b>Other Water Consumption</b>													
Rain Water													0.876
Sea Water													95.4
<b>3R</b>													
Waste Water Generated											402.08	389.31	945.676
Water Reused											85.75%	93.95%	
Water Recycled											344.78	365.74	
Water Discharged											57.3	23.57	
<b>Energy Consumption</b>													
<b>Primary Energy Consumption</b>													
Total Energy Consumption	MWh	592464574.2	604019805.4	606493461.9	635179655.6	643242274	661476993.2	656840061.2	689711555.6	723928043.8	748896778.4	703010178.8	788423643.6
Net Energy Intensity	MJ/kWheq	10.394	10.517	10.556	10.59	10.65	10.946	10.868	11.226	10.52	10.54	10.53813039	10.58
<b>Energy Saved</b>													
Electrical	MU	93.78	102.33	111.25	119.9	115.1	115.4	116.9	118.6	120.5	127.52	130.1	
Heat Energy (Equivalent MT of coal)	MT	72747	22774	36530	9366	11678	2100	7406	46178	74859	22474	21222	
Heat Energy (equivalent MCM of Gas)	MCM	2.55	6.5777	0.51	1.97	-	1.558	0.085		0.091	0.122	0.246	
Heat Energy (equivalent KL of Naptha)	KL	-	10.298	21.24						0	0		
Total energy saved	TJ								1874	2303	1615	1622.5	
<b>Human Capital</b>													
<b>Employee</b>													
Strength by gender	Male			22557	22,398	21,948	22,602	21,697	20,628	18,461	17,769	16,273	17910
	Female			1454	1467	1463	1489	1439	1398	1278	1244	1153	1255
Total Strength			23797	24011	23865	23411	24091	23136	22026	19739	19013	17426	19165
Women in Executive Management	%						6.57%	6.51%	6.43%	6.02%	6.29%	6.90%	6.37%
Attrition Rate	%				1.37	1.13	1.04	1.11	1.11	0.7	0.24	0.83	0.82
<b>Employees Trained</b>													
Executive	Male				7,562	9,479	7,766	7,322	8,576	8,231	9668	10139	
	Female				416	705	420	393	530	528	658	693	
Non Executive	Male				9,772	9,718	8,896	8,439	5,224	4,640	5627	5810	
	Female				466	573	458	451	318	287	414	381	
Total Employees Trained	No.		23,797	22,221	18,216	20,475	17,540	16,605	14,648	13,686	16,367	17,023	
Employees Trained	%				76%	87%	73%	72%	67%	69%	86%	89%	

All sources including Thermal (Open & closed), Solar

