

## Sustainability Data Trends 2024

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
EU1	<b>Installed Capacity</b>				
	<b>Thermal capacity</b>	MW	<b>63385.00</b>	<b>65325.00</b>	<b>67385.00</b>
	Coal	MW	56874.00	58814.00	60874
	Natural gas	MW	6511.00	6511.00	6511
	<b>Renewable capacity</b>	MW	<b>5577.00</b>	<b>6929.00</b>	<b>7253.00</b>
	Hydroelectric	MW	3725.00	3725.00	3725
	Small Hydro	MW	32.00	32.00	32
	Wind	MW	163.00	163.00	213
	Solar	MW	1657.00	3009.00	3283
	Biomass	MW	-	-	-
<b>Total Gross Installed capacity</b>	MW	<b>68962.00</b>	<b>72254.00</b>	<b>74638.00</b>	
EU2	<b>Generation</b>				
	<b>Thermal capacity</b>	MU	<b>345874.28</b>	<b>381510.68</b>	<b>402892.56</b>
	Coal	MU	337275.00	376334.48	395243.04
	Natural gas	MU	8599.28	5176.20	7649.52
	<b>Renewable capacity</b>	MU	<b>14642.27</b>	<b>17799.38</b>	<b>19323.33</b>
	Hydroelectric	MU	12094.30	12875.01	12466.63
	Small Hydro	MU	80.64	113.85	38.25
	Wind	MU	337.85	324.04	338.12
	Solar	MU	2129.49	4486.48	6480.34
	<b>Total Gross Generation</b>	MU	<b>360516.55</b>	<b>399310.06</b>	<b>422215.89</b>
<b>Total Net Generation</b>	MU	<b>335758.49</b>	<b>371278.00</b>	<b>393461.85</b>	
EU4	<b>New Project Development (Under Construction)</b>				
	<b>Thermal capacity</b>	MW	<b>9980.00</b>	<b>9960.00</b>	<b>9560.00</b>
	Coal	MW	9980.00	9960.00	9560.00
	Natural gas	MW	0.00	0.00	0.00
	<b>Renewable capacity</b>	MW	<b>5695.32</b>	<b>6923.00</b>	<b>10685.00</b>
	Hydroelectric	MW	2255.00	2255.00	811.00
	Small Hydro	MW	0.00	0.00	1444.00
	Wind	MW	150.00	0.00	0.00
	Geothermal	MW	-	-	-
	Solar	MW	3290.32	4668.00	8430.00
Biomass	MW	-	-	-	
<b>Under Construction Capacity</b>	MW	<b>15675.32</b>	<b>16883.00</b>	<b>20245.00</b>	
305-5	<b>Fuel Procured</b>				
	Coal	MMT	<b>225.41</b>	<b>247.86</b>	<b>264.52</b>
	Imported	MMT	2.46	15.56	0
	Domestic	MMT	222.95	232.30	264.52
	Gas	MMSCM	<b>2029.63</b>	<b>416.40</b>	<b>1991.21</b>
	Biomass	(,000 t)	<b>38.69</b>	<b>23.88</b>	<b>171.72</b>
305-5	<b>GHG Mitigation</b>				
	<b>Carbon Sink Created</b>	mil t	0.74	0.76	0.78
			14.65	17.67	19.14
	<b>Avoided emissions</b>	mil t	<b>13.91</b>	<b>16.91</b>	<b>18.357166</b>
	<b>Direct greenhouse gas emissions (Scope 1)</b>				
	CO2 emissions from the electricity production	mil t	<b>304.08</b>	<b>336.46</b>	<b>353.25</b>
	Emissions from coal electricity gen.	mil t	300.10	333.69	349.40
	Emissions from gas electricity gen.	mil t	3.98	2.78	3.85

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
305-1	Other CO2eq emissions due to electricity production and other activities	mil t <sub>eq</sub>	0.06	0.02	0.04
	of which: emission from losses of SF6 from energy production	toneq	57360.00	20250.47	43084.53
	of which: emission from losses of HFCs from energy production	toneq	1048.80	210.64	43.08
	<b>Total direct emissions (Scope 1)</b>		304.14	336.48	353.29
	<b>SCOPE 1 Emissions (after adjustment)</b>	mil t <sub>eq</sub>	303.40	335.70	352.47
305-4	<b>Specific Emission - Scope 1</b>				
	Specific CO2 emissions from total gross production	g/kWh	843.46	842.61	836.66
	Specific CO2eq emissions from Scope 1	gCO2eq/kWh	841.57	840.70	834.81
305-2	<b>Indirect greenhouse gas emissions (Scope 2): Purchased electricity from the grid</b>				
	Energy production (thermal and hydroelectric plant)	Ton	-	-	
	Emission due to power consumption by Building and Offices	Ton	16400.34	15810.23	16971.34
	Emission due to power consumption by Hydro/ Gas Plants during Shutdown	Ton	-	69933.23	57829.17
	<b>Specific Scope 2</b>	gCO2/kWh	0.05	0.1800	0.177
305-3	<b>Other indirect greenhouse emissions (Scope 3)</b>				
	Transport of coal by Road	Ton			70898.00
	Transport of coal by sea	Ton	492900.00	3451606	2268941.00
	Transport of coal by train	Ton	606841.98	891322.31	891703.00
	Commute to workplaces by Employees	Ton	12034.30	17421.13	29654.51
	Business Travels by Employees	Ton	2103.62	4202.26	5025.23
	<b>Total indirect emissions (Scope 3)</b>	Ton	1113879.89	4364552.04	3266221.74
	<b>Specific Scope 3 Emission</b>	gCO2eq/kWh	3.09	10.93	7.74
305-7	<b>Other Atmospheric Non GHG Emissions</b>				
	SO2 emissions	Ton	1621349	1767481.60	1863639.27
	NOx emissions	Ton	640419	657376.38	671807.38
	Particular Matter	Ton	91115	89294.96	96752.02
	Hg emissions	Ton	7.23	7.00	8.53
	<b>Specific emissions</b>				
	SO2 emissions	g/kWh	4.50	4.43	4.41
	NOx emissions	g/kWh	1.78	1.65	1.59
	Particular Matter	g/kWh	0.25	0.22	0.23
Hg emissions	g/kWh	0.00	0.00	0.00	
305-6	<b>Ozone Depleting Substances emissions</b>				
	ODS (CFC-11 equivalent )	kgCFC-11eq	403.00	1484.37	6820.33
	Specific ODS	(x10 <sup>-6</sup> ) gCFC-11eq/ kWh	1.12	3.72	16.15

<b>Energy Consumption: Fuel consumption by primary source in GJ</b>					
302-1	<b>from non-renewable sources</b>	GJ	<b>3385265320.57</b>	<b>3742448770.17</b>	<b>3939364497.85</b>
	Coal	GJ	3305688837.96	3687815606.35	3861577046.41
	Natural gas	GJ	79144416.79	53847760.23	77765352.76
	Naptha	GJ	423850.99	777481.61	14519.21
	LDO	GJ	5491.43	5358.02	5829.08
	HFO	GJ	2034.79	1474.02	1341.99
	HSD	GJ	688.60	1089.93	2.47
	LSHS	GJ			405.94
	<b>from renewable resources</b>	GJ	<b>497293.50</b>	<b>246700.00</b>	<b>2317923.52</b>

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
	Biomass, biogas and waste	GJ	497293.50	246700.00	2317923.52
	<b>Total direct consumption</b>	GJ	<b>3385762614.07</b>	<b>3742695470.17</b>	<b>3941682421.38</b>
	<b>Net Energy Intensity</b>	MJ/ kWh	10.08	10.01	9.97
	<b>Energy Consumption: Auxiliary Power Consumption</b>				
302-1	Coal Stations	MU	22797.14	25114.09	26533.80
		%	6.78	6.68	6.73
	Gas Stations	MU	285.71	187.11	285.21
		%	3.32	3.61	3.72
	Hydro	MU	76.54	71.48	67.00
		%	0.63	0.56	0.54
	Small Hydro	MU	1.12	2.13	2.36
		%	1.39	1.87	2.09
	Solar	MU	42.72	81.12	124.70
		%	2.01	1.81	1.92
Wind	MU	3.42	2.75	2.52	
	%	1.01	0.85	0.74	
	<b>Total</b>	<b>MU</b>	<b>23206.65</b>	<b>25458.68</b>	<b>27015.58</b>
		<b>%</b>	<b>6.46</b>	<b>6.38</b>	<b>6.42</b>
	<b>Specific Auxiliary Power Consumption</b>	<b>MU/MW</b>	<b>0.34</b>	<b>0.35</b>	<b>0.36</b>
	<b>Reduction in Energy Consumption</b>				
302-4	Electrical Energy	MU	135.55	139.61	142.71
	Heat Energy (Eq. MT of coal)	MT	26152	23022.348	36140
	Heat Energy (Eq. MCM of Gas)	MCM	0	0	0
	<b>Total Energy Saved</b>	<b>TJ</b>	<b>1693.500724</b>	<b>1735.502125</b>	<b>1921.9</b>

<b>Materials Consumption: Resources used in the production process</b>					
301-1	<b>Fuel consumption for thermoelectric production from non-renewable sources</b>				
	Coal	mil t	226.55	250.20	264.52
	Natural gas	(Mm <sup>3</sup> )	2030.91	1386.95	1991.21
	Naptha	t	8923.49	16355.58	304.86
	LDO	kL	139853.77	144360.29	147859.71
	HFO	kL	49821.36	38087.07	34714.05
	HSD	kL	18177.57	28835.93	65.15
	LSHS	kL			9961.06
	<b>From renewable resources</b>				
	Biomass for thermoelectric production	(,000 t)	40.39	20.03	172.00
	<b>Consumables</b>				
	Chlorine	t	5370.00	4843.79	3949.88
	Ammonia	t	1532.64	1320.23	1315.40

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
	Alum	t	13480.00	28978.90	19116.46
	HCl	t	18175.00	32905.49	39530.98
	H2SO4	t	20690.00	34174.51	42231.32
	Lube Oil	kL	974.00	1169.10	4479.06
	Transformer Oil	kL	329.00	355.23	245.12
	NaOH	MT			8042.49
303-3	<b>Water withdrawal by source in "water stressed" areas</b>				
	<b>Withdrawal from scarce source:</b>				
	Surface water (Rivers,lakes, reservoir, Wetland ) total				
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	3365.21	5390.70	5924.94
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.00	0.00
	Collected rain water (Artificial reservoir)				
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.07	4.13
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.00	0.00
	Ground water total				
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.00	0.36
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.00	0.00
	Water from thirdparty				
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.15	0.24	0.46
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.00	0.00
	<b>Withdrawal from non scarce source:</b>				
	Sea water (used as is and dissalated)				
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.00	0.00
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	11.11	0.00	168.76
<b>Total Fresh Water Withdrawal</b>	<b>Mm<sup>3</sup></b>	<b>3376.47</b>	<b>5391.01</b>	<b>6098.65</b>	

<b>Water withdrawal by source in "All Areas" areas</b>					
303-3	<b>Withdrawal from scarce source:</b>				
	Surface water (Rivers,lakes, reservoir, Wetland ) total				
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	1909.46	5478.26	6015.03
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.00	0.00
	Collected rain water (Artificial reservoir)				
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	4.10	5.85
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.00	0.00
	Ground water total				
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.00	0.36
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.00	0.00
	Water from thirdparty				
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.55	0.46
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.00	0.00
	<b>Withdrawal from non scarce source</b>				
	Sea water (used as is and dissalated)				
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	0.00	0.00	0.00
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm <sup>3</sup>	146.49	179.10	168.76

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
	<b>Total Fresh Water Withdrawal</b>	<b>Mm<sup>3</sup></b>	<b>2055.94</b>	<b>5662.01</b>	<b>6190.10</b>
NTPC's 3 R	<b>Water Requirement Reduction</b>				
	Rain Water	Mm <sup>3</sup>	6.93	4.58	6.37
	Surface water storage	Mm <sup>3</sup>	5.96	4.10	5.85
	Ground water Recharge	Mm <sup>3</sup>	0.96	0.48	0.52
	<b>Waste Water Reuse &amp; Recycling</b>				
	<b>Waste Water Generated</b>	<b>Mm<sup>3</sup></b>	<b>344.14</b>	<b>354.23</b>	<b>380.03</b>
	<b>Waste Water Reused (No Treatment)</b>	<b>Mm<sup>3</sup></b>	<b>259.24</b>	<b>273.14</b>	<b>323.90</b>
	<b>Waste Water Treated</b>	<b>Mm<sup>3</sup></b>	<b>85.71</b>	<b>81.09</b>	<b>57.92</b>
	Primary treatment	Mm <sup>3</sup>	3.45	0.08	5.87
	Secondary treatment	Mm <sup>3</sup>	82.01	80.83	51.96
	Tertiary treatment	Mm <sup>3</sup>	0.25	0.19	0.09
	<b>Waste Water Recycled</b>	<b>Mm<sup>3</sup></b>	<b>76.06</b>	<b>71.95</b>	<b>55.90</b>
	Primary treatment	Mm <sup>3</sup>	2.29	0.06	4.56
	Secondary treatment	Mm <sup>3</sup>	73.56	71.70	51.25
	Tertiary treatment	Mm <sup>3</sup>	0.22	0.19	0.09
	<b>Waste Water (Treated) Discharged</b>				
<b>Waste Water Discharged</b>	<b>Mm<sup>3</sup></b>	<b>9.80</b>	<b>9.14</b>	<b>0.51</b>	
<b>Recycling Rate (Percentage of recycled and reused water)</b>	<b>%</b>	<b>97%</b>	<b>97%</b>	<b>99.94%</b>	
<b>Water consumption from alternate sources</b>	<b>%</b>	<b>34%</b>	<b>33%</b>	<b>34%</b>	

303-4	<b>Water Discharge by Destination and Type</b>				
	<b>Water discharge by destination</b>	<b>Mm<sup>3</sup></b>	<b>1143.67</b>	<b>4528.31</b>	<b>5045.06</b>
	Total Surface water (wetlands, lakes, rivers)	Mm <sup>3</sup>	1058.58	4409.98	4889.80
	Groundwater	Mm <sup>3</sup>	0.00	0.00	0.00
	Third party water	Mm <sup>3</sup>	0.00	0.99	0.00
	Seawater	Mm <sup>3</sup>	85.09	117.34	155.26
	<b>Water discharge by type</b>	<b>Mm<sup>3</sup></b>	<b>1058.58</b>	<b>4528.31</b>	<b>5045.06</b>
	Discharge of water used for once through cooling system	Mm <sup>3</sup>	1058.58	4519.17	5044.55
Other surface water discharge	Mm <sup>3</sup>	0.00	9.14	0.51	
303-5	<b>Water Consumptions</b>				
	Surface water (Rivers,lakes, reservoir, Wetland ) total	Mm <sup>3</sup>	997.22	1068.36	1125.73
	Ground water total	Mm <sup>3</sup>	0.00	0.00	0.00
	Water from thirdparty	Mm <sup>3</sup>	0.15	5.43	7.02
	Sea water	Mm <sup>3</sup>	72.51	61.76	8.78
	<b>Total Fresh Water Consumption</b>	<b>Mm<sup>3</sup></b>	<b>997.37</b>	<b>1073.79</b>	<b>1132.75</b>
<b>Specific Fresh Water Consumption</b>	<b>l/ kWh</b>	<b>2.76</b>	<b>2.69</b>	<b>2.68</b>	
	<b>Waste Produced</b>				
	<b>Hazardous Waste</b>	<b>t</b>	<b>3110.76</b>	<b>4832.25</b>	<b>4382.90</b>
	<b>Non-Hazardous Waste</b>	<b>t</b>	<b>60858.08</b>	<b>42383.26</b>	<b>41044.71</b>
	<b>Other Waste</b>	<b>t</b>	<b>3270.32</b>	<b>62163.10</b>	<b>93181.93</b>
	<b>Waste diverted from Disposal</b>				

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24	
306-3	<b>Hazardous Waste</b>	t	1636.43	2045.80	2223.51	
	Reused	t	0.30	340.30	1184.30	
	Recycle	t	1636.13	1703.40	1034.93	
	Other Recovery options	t	0.00	2.10	4.28	
	<b>Non-Hazardous Waste</b>	t	51523.84	40176.69	28442.59	
	Reused	t	263.57	238.84	344.26	
	Recycle	t	51161.72	39565.71	26868.85	
	Other Recovery options	t	98.55	372.14	1229.49	
	<b>Other Waste</b>	t	2003.86	13179.28	14669.80	
	Reused	t	1803.15	12852.50	12846.24	
	Recycle	t	118.53	186.07	1025.49	
	Other Recovery options	t	82.18	140.71	798.07	
	<b>Waste diverted to Disposal</b>					
	<b>Hazardous Waste</b>	t	365.70	1778.66	1731.98	
	Incineration	t	0.00	39.84	180.25	
	Landfilling	t	365.70	1725.04	1392.13	
	Other disposal options	t	0.00	13.78	159.59	
	<b>Non-Hazardous Waste</b>	t	5119.90	3220.98	11268.95	
	Incineration	t	141.81	429.12	105.32	
	Landfilling	t	4888.99	2606.89	3570.38	
Other disposal options	t	89.10	184.97	7593.25		
<b>Other Waste</b>	t	652.44	48039.12	76813.58		
Incineration	t	18.11	129.84	205.03		
Landfilling	t	634.26	47904.30	56157.61		
Other disposal options	t	0.07	4.98	20450.94		
306	Fly Ash Produced	Mn t	83.19	88.96	95.00	
	Fly ash Utilised	%	81.67%	82.75%	92.00%	
EU12	<b>Grid losses</b>	%				
102-43; 102-44	<b>Customer satisfaction</b>					
	<b>Regulated market</b>					
	Customer Satisfaction Index	%	97%	97%	96.89%	
	Frequency of surveys	number	1	1	1	
102-7	<b>Scale of the Organisation</b>					
	<b>Size of workforce</b>					
	Total workforce	number	20771	21745	22392	
Energy Compact	<b>Green Jobs</b>	number		269	269	
	<b>Green Jobs Training Provided</b>	number		1139	2392	
102-8	<b>Workforce by geographic area and gender</b>	number				
	of whom men	number	19138	19973	20575	
	of whom women	number	1663	1772	1817	
405-1	<b>Workforce by level and gender (permanent only)</b>					
	<b>Board of Directors and KMP</b>	number	6	5	6	
	of whom men	number	6	5	6	
		%	100%	100%	100%	
	of whom women	number	0	0	0	
		%	0%	0%	0%	
	<b>Top/ Senior management</b>	number	49	58	70	
	of whom men	number	43	55	65	
		%	88%	95%	93%	
	of whom women	number	1	3	5	
		%	2%	5%	7%	
	<b>Middle management</b>	number	4250	4358	4587	
	of whom men	number	4047	4153	4370	
		%	95%	95%	95%	
	of whom women	number	203	205	217	

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
		%	5%	5%	5%
	<b>Lower/Junior management</b>	number	8766	8576	8704
	of whom men	number	8076	7861	7957
		%	92%	92%	91%
	of whom women	number	690	715	747
		%	8%	8%	9%
	<b>Workmen</b>	number	7700	7255	6707
	of whom men	number	6961	6549	6053
		%	90%	90%	90%
	of whom women	number	739	706	654
		%	10%	10%	10%
<b>Total</b>	number	20771	20252	20074	

405-1	Workforce by age range and level (permanent only)				
	<b>&lt; 30</b>	number	<b>2002</b>	<b>1591</b>	<b>2108</b>
	Board of Directors and KMP	number	0	0	0
	Top/ Senior management	number	0	0	0
	Middle management	number	0	0	0
	Lower/Junior management	number	1141	863	1414
	Workmen	number	861	728	694
	<b>30-50</b>	number	<b>9895</b>	<b>10338</b>	<b>10595</b>
	Board of Directors and KMP	number	0	0	0
	Top/ Senior management	number	0	2	2
	Middle management	number	2089	2235	2598
	Lower/Junior management	number	5202	5596	5524
	Workmen	number	2604	2505	2471
	<b>&gt;50</b>	number	<b>8874</b>	<b>8323</b>	<b>7371</b>
	Board of Directors and KMP	number	6	5	6
	Top/ Senior management	number	49	56	68
	Middle management	number	2161	2123	1989
	Lower/Junior management	number	2423	2117	1766
	Workmen	number	4235	4022	3542
	<b>Total</b>	number	<b>20771</b>	<b>20252</b>	<b>20074</b>

102-8	Workforce by type of contract and gender				
	<b>Permanent Employee</b>		<b>13071</b>	<b>12997</b>	<b>13367</b>
	of whom men	number	12177	12074	12398
	of whom women	number	894	923	969
	<b>Permanent Workers</b>	number	<b>7700</b>	<b>7255</b>	<b>6707</b>
	of whom men	number	6961	6549	6053
	of whom women	number	739	706	654
	<b>Total NTPC Group Permanent Employees</b>	number	<b>20771</b>	<b>20252</b>	<b>20074</b>
	of whom men	number	19138	18623	18451
	of whom women	number	1633	1629	1623
	<b>Workforce by type of contract and gender</b>				
	<b>Other than Permanent Employee (Fixed Term) + Trainees</b>	number	<b>1041</b>	<b>1493</b>	<b>2318</b>
	of whom men	number	911	1350	2124
	of whom women	number	130	143	194
<b>Other than Permanent workers</b>	number	<b>106662</b>	<b>113355</b>	<b>122542</b>	

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
	of whom men	number		111457	120143
	of whom women	number		1898	2399

102-8	<b>Total Turnover (Voluntary)</b>	<b>number</b>		<b>1769</b>	
	<b>Workforce by level and gender</b>				
	<b>Board of Directors and KMP</b>	number		2	2
	of whom men	number		2	2
		%		100%	100%
	of whom women	number		0	0
		%		0%	0%
	<b>Top/ Senior management</b>	number		36	34
	of whom men	number		36	34
		%		100%	100%
	of whom women	number		0	0
		%		0%	0%
	<b>Middle management</b>	number		392	364
	of whom men	number		374	350
		%		95%	96%
	of whom women	number		18	14
		%		5%	4%
	<b>Lower/Junior management</b>	number		517	460
	of whom men	number		477	424
		%		92%	92%
	of whom women	number		40	36
		%		8%	8%
	<b>Fixed Term Employees (Other than permanent) + Trainees</b>	number		206	127
	of whom men	number		174	107
		%		84%	84%
	of whom women	number		32	20
		%		16%	16%
	<b>Workmen (Permanent)</b>	number		616	560
	of whom men	number		571	515
		%		93%	92%
	of whom women	number		45	45
		%		7%	8%
<b>Total Turnover (Voluntary + Involuntary)</b>	<b>number</b>		<b>1704</b>	<b>1781</b>	<b>1705</b>
<b>Workforce by level and gender</b>					
<b>Board of Directors and KMP</b>	number		2	2	2
of whom men	number		1	2	2
	%		50%	100%	100%
of whom women	number		1	0	0
	%		50%	0%	0%
<b>Top/ Senior management</b>	number		22	36	34

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
	of whom men	number	22	36	34
		%	100%	100%	100%
	of whom women	number	0	0	0
		%	0%	0%	0%
	<b>Middle management</b>	number	434	393	364
	of whom men	number	425	375	350
		%	98%	95%	96%
	of whom women	number	9	18	14
		%	2%	5%	4%

102-8	<b>Lower/Junior management</b>	number	534	522	462
	of whom men	number	494	482	426
		%	93%	92%	92%
	of whom women	number	40	40	36
		%	7%	8%	8%
	<b>Fixed Term Employees (Other than permanent) + Trainees</b>	number	21	209	280
	of whom men	number	16	176	253
		%	76%	84%	90%
	of whom women	number	5	31	27
		%	24%	15%	10%
	<b>Workmen (Permanent)</b>	number	693	619	563
	of whom men	number	666	574	518
		%	96%	93%	92%
	of whom women	number	27	45	45
		%	4%	7%	8%
	<b>Turnover</b>				
	<b>Total employee turnover rate (%)</b>	%	<b>13.04%</b>	<b>13.70%</b>	<b>12.76%</b>
	Permanent Employees	%	8.10%	7.76%	7.10%
	of whom men	%	8.40%	7.89%	7.21%
	of whom women	%	4.72%	6.32%	5.85%
	Permanent Workers	%	0.65%	0.55%	0.46%
	of whom men	%		0.51%	0.43%
	of whom women	%		2.37%	1.88%
	<b>Voluntary employee turnover rate (%)</b>	%	<b>0.00%</b>	<b>8.73%</b>	<b>0.00%</b>
	Permanent Employees	%	0.00%	7.29%	6.43%
	of whom men	%	0.00%	7.36%	6.53%
	of whom women	%	6.28%	6.28%	5.16%
	Permanent Workers	%	0.00%	0.54%	0.46%
	of whom men	%	0.00%	8.72%	8.51%
	of whom women	%	0.00%	6.37%	6.88%
	<b>Involuntary employee turnover rate (%)</b>	%	<b>8.20%</b>	<b>0.06%</b>	<b>8.49%</b>
	Permanent Employees	%	7.59%	0.05%	0.01%
of whom men	%	7.74%	0.05%	0.02%	
of whom women	%	5.59%	0.00%	0.00%	
Permanent Workers	%	9.00%	8.53%	8.39%	
of whom men	%	9.57%	0.05%	0.05%	
of whom women	%	3.65%	0.00%	0.00%	

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
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404-3	Employee Appraisal				
	Performance and Career development reviews				
	<b>Board of Directors and KMP</b>	number	6	5	6
	of whom men	number	6	5	6
		%	100%	100%	100%
	of whom women	number	0	0	0
		%	100%	0%	0%
	<b>Top/ Senior management</b>	number	49	44	70
	of whom men	number	43	43	65
		%	100%	100%	100%
	of whom women	number	1	1	5
		%	100%	100%	100%
	<b>Middle management</b>	number	4250	3857	4587
	of whom men	number	4047	3675	4370
		%	100%	100%	100%
	of whom women	number	203	182	217
		%	100%	100%	100%
	<b>Lower/Junior management</b>	number	8766	7208	8704
	of whom men	number	8076	6611	7957
		%	100%	100%	100%
of whom women	number	690	597	747	
	%	100%	100%	100%	
<b>Workmen</b>	number	7700	5384	6707	
of whom men	number	6961	4950	6053	
	%	100%	100%	100%	
of whom women	number	739	434	654	
	%	100%	100%	100%	
404-1	Training				
	Total hours (By gender and Emp category)				
	<b>Board of Directors and KMP</b>	Number	9	0	2
	of whom men	Number	7	0	2
		Man-hours	84	0	36
	of whom women	Number	2	1	0
		Man-hours	60	6	0
	<b>Top/ Senior management</b>	Number	30	52	57
	of whom men	Number	30	51	54
		Man-hours	978	3762	1240
	of whom women	Number	0	1	3
		Man-hours	0	6	36
	<b>Middle management</b>	Number	3806	3728	4178
	of whom men	Number	3632	3553	3994
		Man-hours	199254	232008	196014
	of whom women	Number	174	175	184
	Man-hours	9678	11322	9662	
<b>Lower/Junior management</b>	Number	7481	6727	7560	
of whom men	Number	6891	6200	6896	
	Man-hours	446964	386334	353432	
of whom women	Number	590	527	664	
	Man-hours	28554	32028	35566	

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
404-1	<b>Fixed Term Employees (Other than permanent) + Trainees</b>	Number	511	988	1587
	of whom men	Number	397	873	1438
		Man-hours	64410	123900	198614
	of whom women	Number	114	115	149
		Man-hours	27000	11334	10746
	<b>Workmen (Permanent)</b>	Number	5352	4532	4861
	of whom men	Number	4954	4202	4469
		Man-hours	110088	84966	109485
	of whom women	Number	398	330	392
		Man-hours	9342	7818	9780
	<b>Total Training imparted</b>	Man-hours	896412	893496	
	of whom men	Man-hours	821778	830970	858821
	of whom women	Man-hours	74634	62526	65790
	Average training hours per employee	Man-hours/ emp	52	58	38.97
	of whom men	Man-hours/ emp	52	57	41.74
	of whom women	Man-hours/ emp	58	59	36.21
	<b>Dissemination of sustainability</b>				
	Training on aspects (only permanent employees)				
	<b>Skill Upgradation</b>	number	1411	15824	446
	of whom men	number	1312	14692	376
		%	93%	93%	84%
		Man-hours	15107	799116	2256
	of whom women	number	99	1132	70
		%	7%	7%	16%
		Man-hours	1293	59238	420
	<b>Supply Chain</b>	number	7	46	4
	of whom men	number	7	40	4
		%	100%	87%	100%
		Man-hours	61	10320	32
	of whom women	number	0	6	0
		%	0%	13%	0%
		Man-hours	0	1548	0
	<b>Code of Ethics</b>	number	764	2581	374
of whom men	number	679	2404	335	
	%	89%	93%	89.57%	
	Man-hours	6590	17202	2010	
of whom women	number	85	177	39	
	%	11%	7%	10.43%	
	Man-hours	828	1518	234	
BRSR 5.1 GRI 404-1	<b>Training on Human Rights</b>				
	Permanent Employee	number	1572	283	923
		%	12%	2%	7%
		Man-hours	16188	1848	6174
	Permanent Workers	number	604	298	442
		%	8%	4%	7%
		Man-hours	4872	2616	2730
	Other than Permanent Employee (Fixed Term) + Trainees	number	35	40	240
	%	3%	3%	10%	
	Man-hours	246	264	1734	

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
403-5	<a href="#">Training on Health and Safety</a>				
	NTPC Employee	number	11789	16224	3201
		%	57%	80%	16%
		Man-hours	68769	134631	41381
	Workers	number	214097	616348	1665
		%	201%	544%	1%
	Man-hours	1297459	2465392	17993	
201-3	<b>CORPORATE WELFARE</b>				
	Employees covered by pension plan (benefit plan)	number		20252	20074
	Employees covered by pension plan (benefit plan)	%		93%	90%
401-3	<b>MATERNITY/PATERNITY-PARENTAL LEAVE</b>				
	<b>Employees (Including Workers) entitled to parental leave by gender</b>				
	men	number	19138	18623	16997
	women	number	1633	1629	1338
	<b>Parental leave by gender</b>				
	men	number	644	701	925
	women	number	130	290	204
	<b>Return to work rate of employees that took parental leave by gender</b>	%			
	men	%	100	100	100
	women	%	100	100	100
	<b>Retention rate by gender</b>	%			
men	%	100	100	100	
women	%	100	100	100	
405-2	<a href="#">Ratio of basic salary/remuneration Women/Men</a>				
	<b>Ratio of basic salary Women/Men</b>	%			
	Board of Directors and KMP	%	100	100	100
	Top/ Senior management	%	100	100	100
	Middle management	%	100	100	100
	Lower/Junior management	%	100	100	100
	Workmen	%	100	100	100
	<b>Ratio of remuneration Women/Men</b>	%			
	Board of Directors and KMP	%	100	100	100
	Top/ Senior management	%	100	100	100
	Middle management	%	100	100	100
Lower/Junior management	%	100	100	100	
Workmen	%	100	100	100	
405-1	<a href="#">Diversity of governance bodies and employees (Group)</a>				
	<a href="#">Specially Abled Employees</a>				
	<b>Board of Directors and KMP</b>	number	0	0	0
	of whom men	number	0	0	0
		%	0%	0%	0%
	of whom women	number	0	0	0
	%	0%	0%	0%	

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
405-1	<b>Top/ Senior management</b>	number	0	0	0
	of whom men	number	0	0	0
		%	0%	0%	0%
	of whom women	number	0	0	0
		%	0%	0%	0%
	<b>Middle management</b>	number	29	35	55
	of whom men	number	28	34	52
		%	0.69%	97.14%	94.5%
	of whom women	number	1	1	3
		%	0%	3%	5.5%
	<b>Lower/Junior management</b>	number	160	187	184
	of whom men	number	145	171	170
		%	2%	91%	92%
	of whom women	number	15	16	14
		%	2%	9%	8%
	<b>Workmen</b>	number	346	344	334
	of whom men	number	296	296	287
		%	86%	86%	86%
	of whom women	number	50	48	47
		%	14%	14%	14%
	<b>Fixed Term Employees</b>	number	4	1	6
	of whom men	number	4	1	6
		%	100%	100%	100%
	of whom women	number	0	0	0
		%	0%	0%	0%
	<b>Total</b>	<b>number</b>	<b>539</b>	<b>567</b>	<b>579</b>
		<b>Reserved Group (OBC/SC/ST Employees)</b>			
		<b>Board of Directors and KMP</b>	number		
	of whom men	number	0	0	0
		%	0%	0%	0%
	of whom women	number	0	0	0
		%	0%	0%	0%
	<b>Top/ Senior management</b>	number	4	3	6
	of whom men	number	4	3	6
		%	8%	5%	100%
	of whom women	number	0	0	0
		%	0%	0%	0%
	<b>Middle management</b>	number	1340	1328	1716
	of whom men	number	1281	1278	1641
		%	32%	31%	96%
of whom women	number	59	50	75	
	%	29%	24%	4%	
<b>Lower/Junior management</b>	number	4135	3770	4601	
of whom men	number	3840	3493	4234	
	%	48%	44%	92%	
of whom women	number	295	277	367	
	%	43%	39%	8%	

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
	<b>Workmen</b>	number	3897	2799	3600
	of whom men	number	3518	2616	3242
		%	18%	14%	90%
	of whom women	number	379	183	358
		%	23%	11%	10%
	<b>Fixed Term Employees + Trainees</b>	number	543	786	1339
	of whom men	number	494	717	1239
		%	54%	53%	93%
	of whom women	number	49	69	100
		%	38%	48%	7%
	<b>Total</b>	number	9919	8686	11262
	<b>RELATIONS WITH UNIONS (Permanent Only)</b>				
	Union membership in the electricity sector (Employee)	%	46.18%	53.12%	61.19%
	Total Employees covered by collective agreements,	number	6036	6905	8180
	Union membership in the electricity sector (Workers)	%	100%	100%	100%
	Total Workers covered by collective agreements,	number	7700	7255	6707
	<b>INITIATIVES IN FAVOR OF THE COMMUNITY</b>				
	<b>Contributions to communities</b>				
	Total (expense + investments)	Rs. cr.	418.87	352.79	254.62
	<b>NATURE OF SUPPLIERS</b>				
	<b>Supplier Base</b>				
	Supplier Base	number	17372	9430	8034
	<b>Domestic</b>	number	13455		
	<b>Foreign</b>	number	3917		
	<b>New suppliers enlisted</b>	number	3070	511	1351
	<b>Workforce of contracting and subcontracting companies</b>	number	106662	104302	
	of which maintenance activity	,000 d			
	<b>Local suppliers of materials and services</b>				
	Spending on local suppliers	Rs.cr.	5976	69312	
	Spending on foreign suppliers	Rs.cr.	103	261	
	Concentration of spending on local suppliers	%	98.3%	99.6%	
	Concentration of spending on foreign suppliers	%	1.7%	0.4%	
	<b>MSE Procurement</b>	%	43%	40%	51.64%
	Procurement from Marginalised Group (SC/ST)	%	0.32%	0.17%	0.13%
	Procurement from Women	%	0.63%	0.40%	0.34%
	<b>Purchases and fuel</b>				
	<b>Purchases of materials and services</b>	Rs. cr.			
	Supplies	Rs. cr.		14474.59	
	Works	Rs. cr.		13136.71	
	Services	Rs. cr.		19194.52	
	<b>Fuel purchases</b>	Rs. cr.		96851.50	
	Gas	Rs. cr.	1682.71	3052.30	
	Oil	Rs. cr.	1015.59	1495.00	
	Coal/Lignite	Rs. cr.	63773.80	92081.38	
	Biomass	Rs. cr.	34.56	64.39	

	<b>SAFETY</b>				
	<b>Employees</b>				
	<b>Number of fatalities and frequency rate</b>				
	<b>Number of fatalities</b>	number	1	1	0
	<b>Fatalities frequency rate</b>	(i)	0.021	0.024	0.000

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
	Number of "high-consequence" injuries (excluding fatalities) and frequency rate				

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
403-9	Number of "high-consequence" injuries	number	1	1	0
	"High-consequence" injuries frequency rate	(i)	0.000	0.004	0.000
	Other injuries and frequency rate				
	No. of Lost Time Injury	number	4	6	3
	Lost Time Injury Frequency Rate (LTIFR)	(i)	0.084	0.141	0.073
	No. of Recordable work-related injury or ill health	number	3	5	5
	Recordable Injury Rate	(i)	0.15	0.26	0.12
	<b>Contractor Workers</b>				
	Number of fatalities and frequency rate				
	Number of fatalities	number	4	4	5
	Fatalities frequency rate	(i)	0.02	0.02	0.02
	Number of "high-consequence" injuries (excluding fatalities) and frequency rate				
	Number of "high-consequence" injuries	number	1	1	0
	"High-consequence" injuries frequency rate	(i)	0.00	0.00	0.00
	Other injuries and frequency rate				
	No. of Lost Time Injury	number	22	15	15
	Lost Time Injury Frequency Rate (LTIFR)	(i)	0.08	0.07	0.09
	No. of Recordable work-related injury or ill health	number	35	30	33
	Recordable Injury Rate	(i)	0.22	0.13	0.14
	<b>Total (Employee+ Contractor workers)</b>				
	Number of fatalities and frequency rate				
	Number of fatalities	number	5	5	5
	Fatalities frequency rate	(i)	0.02	0.019	0.018
	Number of "high-consequence" injuries (excluding fatalities) and frequency rate				
	Number of "high-consequence" injuries	number	1	1	1
	"High-consequence" injuries frequency rate	(i)	0.00	0.004	0.000
	Other injuries and frequency rate				
No. of Lost Time Injury	number	26	21	23	
Lost Time Injury Frequency Rate (LTIFR)*	(i)	0.08	0.079	0.084	
No. of Recordable work-related injury or ill health	number	38	20	38	
Recordable Injury Rate*	(i)	0.20	0.15	0.14	
102-5	<b>SHAREHOLDERS</b>				
	Composition of shareholdings				
	Investors				
	Government of India	%	51.10	51.10	51.10
	Indian Financial Institutions/bank	%	0.44	0.22	0.01
	Mutual Funds	%	17.73	19.92	17.95
	Foreign Portfolio Investors/FII	%	14.74	15.60	17.86
	Resident Individuals	%	2.12	2.07	2.50
	Bodies Corporates	%	0.17	0.41	0.55
	Insurance Companies	%	12.58	8.90	7.50
	Trusts	%	0.01	0.01	0.01
	H U F	%	0.07	0.07	0.07
	Others	%	1.04	1.70	2.45

	<b>CORPORATE GOVERNANCE</b>				
	Board of Directors (BoD)				
	Members of BoD by type				
	Executive members	number	6	5	5
	Govt. Nominee members	number	2	2	2

GRI/EUSS	KPI	Unit	FY 2021-22	FY 2022-23	FY 2023-24
405-1	Independent	number	4	4	4
	<b>Women on BoD of the Group</b>	number			
	Women on the BoD of NTPC	number	1	1	1
	<b>Members of the BoD by age group</b>				
	Under 30 years old	number	0	0	0
	30 - 50 years old	number	0	0	0
	Over 50 years old	number	12	11	11
205-3	<b>BoD meetings</b>	number	15	15	15
	<b>Confirmed Bribery &amp; Corruption cases related to</b>	number		0	0
	Employees	number		0	0
	Suppliers/Contractors	number		9	0
	<b>Actions taken in response to incidents of conflict of interest/corruption by law agencies</b>	number		0	0
	of which: actions taken against employees in response to cases of conflict of interest/corruption	number		0	0
	of which: actions taken against contractors in response to cases of conflict of interest/corruption	number		0	0
DMA EU/ BRSR 2.1	<b>Innovation &amp; R&amp;D</b>				
	Patents Granted	number	28	33	47
	R&D Expenditure	Rs. Cr	222.48	283.45	483.63
	* Per Million Man-hours worked				