

Sustainability Data Trends 2024

GRI/EUSS	KPI	Unit	2021	2022	2023	2024
EU1	Installed Capacity					
	Thermal capacity	MW	60735.00	63385.00	65325.00	68705.00
	Coal	MW	54224.00	56874.00	58814.00	62194
	Natural gas	MW	6511.00	6511.00	6511.00	6511
	Renewable capacity	MW	5075.00	5577.00	6929.00	7253.00
	Hydroelectric	MW	3725.00	3725.00	3725.00	3725
	Small Hydro	MW	32.00	32.00	32.00	32
	Wind	MW	163.00	163.00	163.00	213
	Solar	MW	1155.00	1657.00	3009.00	3283
	Biomass	MW	-	-	-	-
	Total Gross Installed capacity	MW	65810.00	68962.00	72254.00	75958.00
EU2	Generation					
	Thermal capacity	MU	300843.06	345874.28	381510.68	402892.56
	Coal	MU	289589.74	337275.00	376334.48	395243.04
	Natural gas	MU	11253.32	8599.28	5176.20	7649.52
	Renewable capacity	MU	14230.74	14642.27	17799.38	19323.33
	Hydroelectric	MU	11366.77	12094.30	12875.01	12466.63
	Small Hydro	MU	91.56	80.64	113.85	38.25
	Wind	MU	296.01	337.85	324.04	338.12
	Solar	MU	1476.40	2129.49	4486.48	6480.34
		Total Gross Generation	MU	314073.81	360516.55	399310.06
	Total Net Generation	MU	291788.05	335758.49	371278.00	371278.00
EU4	New Project Development (Under Construction)					
	Thermal capacity	MW	12850.00	9980.00	9960.00	
	Coal	MW	12850.00	9980.00	9960.00	
	Natural gas	MW	0.00	0.00	0.00	
	Renewable capacity	MW	5139.00	5695.32	6923.00	
	Hydroelectric	MW	2255.00	2255.00	2255.00	
	Small Hydro	MW	0.00	0.00	0.00	
	Wind	MW	0.00	150.00	0.00	
	Geothermal	MW	-	-	-	
	Solar	MW	2884.00	3290.32	4668.00	
Biomass	MW	-	-	-		
	Under Construction Capacity	MW	17989.00	15675.32	16883.00	
	Fuel Procured					
	Coal	MMT	192.20	225.41	247.86	264.52
	Imported	MMT	1.06	2.46	15.56	0
	Domestic	MMT	191.14	222.95	232.30	264.522
	Gas	MMSCM	2599.00	2029.63	416.40	1991.21
	Biomass	(,000 t)	24.60	38.69	23.88	171.72
305-5	GHG Mitigation					
	Carbon Sink Created	mil t	0.72	0.74	0.76	0.78
			11.17	12.31	14.82	18.94
	Avoided emissions	mil t	10.45	11.57	14.06	18.16
305-1	Direct greenhouse gas emissions (Scope 1)					
	CO2 emissions from the electricity production	mil t	263.90	304.08	336.46	353.25
	Emissions from coal electricity gen.	mil t	258.82	300.10	333.69	349.40
	Emissions from gas electricity gen.	mil t	5.08	3.98	2.78	3.85
	Other CO2eq emissions due to electricity production and other activities	mil t _{eq}		0.06	0.02	
	of which: emission from losses of SF6 from energy production	toneq	-	57360.00	20250.47	
	of which: emission from losses of HFCs from energy production	toneq	-	1048.80	210.64	
	Total direct emissions (Scope 1)		263.90	304.14	336.48	353.25
SCOPE 1 Emissions (after adjustment)	mil t _{eq}	263.18	303.40	335.70	352.47	
305-4	Specific Emission - Scope 1					
	Specific CO2 emissions from total gross production	g/kWh	840.25	843.46	842.61	836.66
	Specific CO2eq emissions from Scope 1	gCO2eq/kWh	837.96	841.57	840.70	834.81
305-2	Indirect greenhouse gas emissions (Scope 2): Purchased electricity from the grid					
	Emission due to power consumption by Building and Offices	Ton	15221.86	16400.34	15810.23	
	Emission due to power consumption by Hydro/ Gas Plants during Shutdown	Ton	-	-	69933.23	
	Specific Scope 2	gCO2/kWh	0.05	0.05	0.18	

GRI/EUSS	KPI	Unit	2021	2022	2023	2024
305-3	Other indirect greenhouse emissions (Scope 3)					
	Transport of coal by sea	Ton	167400.00	492900.00	3451606	
	Transport of coal by train	Ton	366776.43	606841.98	891322.31	
	Commute to workplaces by Employees	Ton	12309.00	12034.30	17421.13	
	Business Travels by Employees	Ton	26918.79	2103.62	4202.26	
	Total indirect emissions (Scope 3)	Ton	573404.2245	1113879.89	4364552.04	
	Specific Scope 3 Emission	gCO2eq/kWh	1.83	3.09	10.93	
305-7	Other Atmospheric Non GHG Emissions					
	SO2 emissions	Ton	1552254	1621349	1767481.60	
	NOx emissions	Ton	602832	640419	657376.38	
	Particular Matter	Ton	88431	91115	89294.96	
	Hg emissions	Ton	4.66	7.23	7.00	
	Specific emissions					
	SO2 emissions	g/kWh	4.94	4.50	4.43	
	NOx emissions	g/kWh	1.93	1.78	1.65	
Particular Matter	g/kWh	0.28	0.25	0.22		
Hg emissions	g/kWh	0.00	0.00	0.00		
305-6	Ozone Depleting Substances emissions					
	ODS (CFC-11 equivalent)	kgCFC-11eq	23499.86	403.00	1484.37	
	Specific ODS	(x10 ⁻⁶) gCFC-11eq/kWh	12.00	1.12	3.72	
302-1	Energy Consumption: Fuel consumption by primary source in GJ					
	from non-renewable sources	GJ	2953663879.38	3385265320.57	3742448770.17	3939364497.85
	Coal	GJ	2851164930.66	3305688837.96	3687815606.35	3861577046.41
	Natural gas	GJ	101630257.86	79144416.79	53847760.23	77765352.76
	Naptha	GJ	862567.80	423850.99	777481.61	14519.21
	LDO	GJ	4143.90	5491.43	5358.02	5829.08
	HFO	GJ	1968.72	2034.79	1474.02	1341.99
	HSD	GJ	10.43	688.60	1089.93	2.47
	LSHS	GJ				405.94
	from renewable resources	GJ	302912.40	497293.50	246700.00	2317923.52
	Biomass, biogas and waste	GJ	302912.40	497293.50	246700.00	2317923.52
Total direct consumption	GJ	2953966791.77	3385762614.07	3742695470.17	3941682421.38	
Net Energy Intensity	MJ/ kWh	10.11	10.08	10.01	9.97	
302-1	Energy Consumption: Auxiliary Power Consumption					
	Coal Stations	MU	20090.00	22797.14	25114.09	26533.80
		%	0.07	6.78	6.68	6.73
	Gas Stations	MU	376.00	285.71	187.11	285.21
		%	0.03	3.32	3.61	3.72
	Hydro	MU	67.00	76.54	71.48	67.00
		%	0.01	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	
Total	MU	20533.00	23206.65	25458.68	27015.58	
	%	6.54	6.46	6.38	6.42	
302-4	Reduction in Energy Consumption					
	Electrical Energy	MU	132.95	135.55	139.61	142.71
	Heat Energy (Eq. MT of coal)	MT	22995.34	26152	23022.348	36140
	Heat Energy (Eq. MCM of Gas)	MCM	0.087	0	0	0
	Total Energy Saved	TJ	1643.345	1693.500724	1735.502125	1921.9
301-1	Materials Consumption: Resources used in the production process					
	Fuel consumption for thermoelectric production from non-renewable sources					
	Coal	mil t	195.39	226.55	250.20	
	Natural gas	(Mm ³)	2555.00	2030.91	1386.95	
	Naptha	t	18280.00	8923.49	16355.58	
	LDO	kL	103298.00	139853.77	144360.29	
	HFO	kL	47562.00	49821.36	38087.07	
	HSD	kL	285.00	18177.57	28835.93	
	From renewable resources					
	Biomass for thermoelectric production	(,000 t)	24.60	40.39	20.03	
	Consumables					
	Chlorine	t	5462.95	5370.00	4843.79	
Ammonia	t	1031.13	1532.64	1320.23		

GRI/EUSS	KPI	Unit	2021	2022	2023	2024	
	Alum	t	14104.28	13480.00	28978.90		
	HCl	t	19910.88	18175.00	32905.49		
	H2SO4	t	23915.97	20690.00	34174.51		
	Lube Oil	kL	848.99	974.00	1169.10		
	Transformer Oil	kL	175.27	329.00	355.23		
303-3	Water withdrawal by source in "water stressed" areas						
	Withdrawal from scarce source:						
	Surface water (Rivers,lakes, reservoir, Wetland) total						
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm ³		3365.21	2489.51		
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm ³		0.00	0.00		
	Collected rain water (Artificial reservoir)						
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm ³		0.00	0.07		
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm ³		0.00	0.00		
	Ground water total						
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm ³		0.00	0.00		
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm ³		0.00	0.00		
	Water from thirdparty						
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm ³		0.15	0.24		
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm ³		0.00	0.00		
	Withdrawal from non scarce source:						
	Sea water (used as is and dissalated)						
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm ³		0.00	0.00	0.00	
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm ³		11.11	0.00		
	Total Fresh Water Withdrawal	Mm³			3376.47	2489.82	
	Water withdrawal by source in "All Areas" areas						
	Withdrawal from scarce source:						
	Surface water (Rivers,lakes, reservoir, Wetland) total						
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm ³	910.20	1909.46	5478.26		
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm ³	0.00	0.00	0.00		
	Collected rain water (Artificial reservoir)						
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm ³	12.06	0.00	4.10		
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm ³	0.00	0.00	0.00		
	Ground water total						
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm ³	0.00	0.00	0.00		
	- other water (> 1,000 mg/l Total Dissolved Solids)	Mm ³	0.00	0.00	0.00		
	Water from thirdparty						
	- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm ³	0.00	0.00	0.55		
- other water (> 1,000 mg/l Total Dissolved Solids)	Mm ³	0.00	0.00	0.00			
Withdrawal from non scarce source							
Sea water (used as is and dissalated)							
- freshwater (≤ 1,000 mg/l Total Dissolved Solids)	Mm ³	0.00	0.00	0.00			
- other water (> 1,000 mg/l Total Dissolved Solids)	Mm ³	88.10	146.49	179.10			
Total Fresh Water Withdrawal	Mm³	1010.36	2055.94	5662.01			
Water Requirement Reduction							
Rain Water	Mm ³	12.18	6.93	4.58			
Surface water storage	Mm ³	10.13	5.96	4.10			
Ground water Recharge	Mm ³	2.05	0.96	0.48			
Waste Water Reuse & Recycling							
Waste Water Generated	Mm³		187.72	344.14	354.23		

GRI/EUSS	KPI	Unit	2021	2022	2023	2024	
NTPC's 3 R	Waste Water Reused (No Treatment)	Mm ³		259.24	273.14		
	Waste Water Treated	Mm ³		85.71	81.09		
	Primary treatment	Mm ³		3.45	0.08		
	Secondary treatment	Mm ³	187.32	82.01	80.83		
	Tertiary treatment	Mm ³		0.25	0.19		
	Waste Water Recycled	Mm ³		76.06	71.95		
	Primary treatment	Mm ³		2.29	0.06		
	Secondary treatment	Mm ³	175.56	73.56	71.70		
	Tertiary treatment	Mm ³		0.22	0.19		
	Waste Water (Treated) Discharged						
	Waste Water Discharged	Mm ³	11.76	9.80	9.14		
	Recycling Rate (Percentage of recycled and reused water)	%	94%	97%	97%		
	Water consumption from alternate sources	%	20%	34%	33%		
303-4	Water Discharge by Destination and Type						
	Water discharge by destination	Mm ³		1143.67	4528.31		
	Total Surface water (wetlands, lakes, rivers)	Mm ³		1058.58	4409.98		
	Groundwater	Mm ³		0.00	0.00		
	Third party water	Mm ³		0.00	0.99		
	Seawater	Mm ³	61.02	85.09	117.34		
	Water discharge by type	Mm ³		1058.58	4528.31		
	Discharge of water used for once through cooling system	Mm ³		1058.58	4519.17		
	Other surface water discharge	Mm ³		0.00	9.14		
303-5	Water Consumptions						
	Surface water (Rivers,lakes, reservoir, Wetland) total	Mm ³	910.22	997.22	1068.36		
	Ground water total	Mm ³	0.00	0.00	0.00		
	Water from thirdparty	Mm ³	0.00	0.15	5.43		
	Sea water	Mm ³	27.09	72.51	61.76		
	Total Fresh Water Consumption	Mm³	910.22	997.37	1073.79		
Specific Fresh Water Consumption	l/ kWh	2.90	2.76	2.69			
306-3	Waste Produced						
	Hazardous Waste	t	1480.46	3110.76	4832.25		
	Non-Hazardous Waste	t	74876.76	60858.08	42383.26		
	Other Waste	t	249.40	3270.32	62163.10		
	Waste diverted from Disposal						
	Hazardous Waste	t	649.77	1636.43	2045.80		
	Reused	t		0.30	340.30		
	Recycle	t		1636.13	1703.40		
	Other Recovery options	t		0.00	2.10		
	Non-Hazardous Waste	t	24810.77	51523.84	40176.69		
	Reused	t		263.57	238.84		
	Recycle	t		51161.72	39565.71		
	Other Recovery options	t		98.55	372.14		
	Other Waste	t	191.45	2003.86	13179.28		
	Reused	t		1803.15	12852.50		
	Recycle	t		118.53	186.07		
	Other Recovery options	t		82.18	140.71		
	Waste diverted to Disposal						
	Hazardous Waste	t	770.14	365.70	1778.66		
	Incineration	t		0.00	39.84		
	Landfilling	t		365.70	1725.04		
	Other disposal options	t		0.00	13.78		
	Non-Hazardous Waste	t	153.73	5119.90	3220.98		
	Incineration	t		141.81	429.12		
	Landfilling	t		4888.99	2606.89		
	Other disposal options	t		89.10	184.97		
	Other Waste	t	26.89	652.44	48039.12		
Incineration	t		18.11	129.84			
Landfilling	t		634.26	47904.30			
Other disposal options	t		0.07	4.98			
306	Fly Ash Produced	Mn t	70.369	83.19	88.96		
	Fly ash Utilised	%	79.43%	81.67%	82.75%		
EU12	Grid losses	%					
102-43; 102-44	Customer satisfaction						
	Regulated market						
	Customer Satisfaction Index	%	96%	97%	97%		

GRI/EUSS	KPI	Unit	2021	2022	2023	2024
	Frequency of surveys	number	1.00	1.00	1.00	
102-7	Scale of the Organisation					
	Size of workforce					
	Total workforce	number	21941	20771	21745	
Energy Compact	Green Jobs	number			269	
	Green Jobs Training Provided	number			1139	
102-8	Workforce by geographic area and gender	number				
	of whom men	number	20278	19138	19973	
	of whom women	number	1663	1663	1772	
405-1	Workforce by level and gender (permanent only)					
	Board of Directors and KMP	number	10	6	5	
	of whom men	number	10	6	5	
		%	100%	100%	100%	
	of whom women	number	0	0	0	
		%	0%	0%	0%	
	Top/ Senior management	number	510	49	58	
	of whom men	number	497	43	55	
		%	97%	88%	95%	
	of whom women	number	13	1	3	
		%	3%	2%	5%	
	Middle management	number	3880	4250	4358	
	of whom men	number	3695	4047	4153	
		%	95%	95%	95%	
	of whom women	number	185	203	205	
		%	5%	5%	5%	
	Lower/Junior management	number	9114	8766	8576	
	of whom men	number	8411	8076	7861	
		%	92%	92%	92%	
	of whom women	number	703	690	715	
		%	8%	8%	8%	
	Workmen	number	8427	7700	7255	
	of whom men	number	7665	6961	6549	
		%	91%	90%	90%	
	of whom women	number	762	739	706	
		%	9%	10%	10%	
	Total	number	21941	20771	20252	
	Workforce by age range and level (permanent only)					
	< 30	number	1662	2002	1591	
	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	877	1141	863	
	Workmen	number	785	861	728	
	30-50	number	10280	9895	10338	
	Board of Directors and KMP	number	0	0	0	
	Top/ Senior management	number	2	0	2	
	Middle management	number	1985	2089	2235	
	Lower/Junior management	number	5448	5202	5596	
	Workmen	number	2845	2604	2505	
	>50	number	9999	8874	8323	
	Board of Directors and KMP	number	10	6	5	
	Top/ Senior management	number	508	49	56	
	Middle management	number	1895	2161	2123	
	Lower/Junior management	number	2789	2423	2117	
	Workmen	number	4797	4235	4022	
	Total	number	21941	20771	20252	
102-8	Workforce by type of contract and gender					
	Permanent Employee		13514	13071	12997	
	of whom men	number	12613	12177	12074	
	of whom women	number	901	894	923	
	Permanent Workers	number	8427	7700	7255	
	of whom men	number	7665	6961	6549	
	of whom women	number	762	739	706	
	Total NTPC Group Permanent Employees	number	21941	20771	20252	
	of whom men	number	20278	19138	18623	
	of whom women	number	1663	1633	1629	
	Workforce by type of contract and gender					
	Other than Permanent Employee (Fixed Term) + Trainees	number		1041	1493	
	of whom men	number		911	1350	

GRI/EUSS	KPI	Unit	2021	2022	2023	2024
	of whom women	number		130	143	
	Other than Permanent workers	number	97442	106662	113355	
	of whom men	number			111457	
	of whom women	number			1898	
	Total Turnover (Voluntary)	number			1769	
	Workforce by level and gender					
	Board of Directors and KMP	number			2	
	of whom men	number			2	
		%			100%	
	of whom women	number			0	
		%			0%	
	Top/ Senior management	number			36	
	of whom men	number			36	
		%			100%	
	of whom women	number			0	
		%			0%	
	Middle management	number			392	
	of whom men	number			374	
		%			95%	
	of whom women	number			18	
		%			5%	
	Lower/Junior management	number			517	
	of whom men	number			477	
		%			92%	
	of whom women	number			40	
		%			8%	
	Fixed Term Employees (Other than permanent) + Trainees	number			206	
	of whom men	number			174	
		%			84%	
	of whom women	number			32	
		%			16%	
	Workmen (Permanent)	number			616	
	of whom men	number			571	
		%			93%	
	of whom women	number			45	
		%			7%	
	Total Turnover (Voluntary + Involuntary)	number		1704	1781	
	Workforce by level and gender					
	Board of Directors and KMP	number		2	2	
	of whom men	number		1	2	
		%		50%	100%	
	of whom women	number		1	0	
		%		50%	0%	
	Top/ Senior management	number		22	36	
	of whom men	number		22	36	
		%		100%	100%	
	of whom women	number		0	0	
		%		0%	0%	
	Middle management	number		434	393	
	of whom men	number		425	375	
		%		98%	95%	
	of whom women	number		9	18	
		%		2%	5%	
	Lower/Junior management	number		534	522	
	of whom men	number		494	482	
		%		93%	92%	
	of whom women	number		40	40	
		%		7%	8%	
	Fixed Term Employees (Other than permanent) + Trainees	number		21	209	
	of whom men	number		16	176	
		%		76%	84%	
	of whom women	number		5	31	
		%		24%	15%	
	Workmen (Permanent)	number		693	619	
	of whom men	number		666	574	
		%		96%	93%	
	of whom women	number		27	45	
		%		4%	7%	
	Turnover					
	Total employee turnover rate (%)	%		13.04%	13.70%	

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GRI/EUSS	KPI	Unit	2021	2022	2023	2024
	Permanent Employees	%		8.10%	7.76%	
	of whom men	%		8.40%	7.89%	
	of whom women	%		4.72%	6.32%	
	Permanent Workers	%		0.65%	0.55%	
	of whom men	%			0.51%	
	of whom women	%			2.37%	
	Voluntary employee turnover rate (%)	%	0.00%	0.00%	8.73%	
	Permanent Employees	%	0.00%	0.00%	7.29%	
	of whom men	%	0.00%	0.00%	7.36%	
	of whom women	%	6.28%	6.28%	6.28%	
	Permanent Workers	%	0.00%	0.00%	0.54%	
	of whom men	%	0.00%	0.00%	8.72%	
	of whom women	%	0.00%	0.00%	6.37%	
	Involuntary employee turnover rate (%)	%	0.00%	8.20%	0.06%	
	Permanent Employees	%	0.00%	7.59%	0.05%	
	of whom men	%	0.00%	7.74%	0.05%	
	of whom women	%	0.00%	5.59%	0.00%	
	Permanent Workers	%	0.00%	9.00%	8.53%	
of whom men	%	0.00%	9.57%	0.05%		
of whom women	%	0.00%	3.65%	0.00%		
404-3	Employee Appraisal					
	Performance and Career development reviews					
	Board of Directors and KMP	number	10	6	5	
	of whom men	number	10	6	5	
		%	100%	100%	100%	
	of whom women	number	0	0	0	
		%	100%	100%	0%	
	Top/ Senior management	number	510	49	44	
	of whom men	number	497	43	43	
		%	100%	100%	100%	
	of whom women	number	13	1	1	
		%	100%	100%	100%	
	Middle management	number	3880	4250	3857	
	of whom men	number	3695	4047	3675	
		%	100%	100%	100%	
	of whom women	number	185	203	182	
		%	100%	100%	100%	
	Lower/Junior management	number	9114	8766	7208	
	of whom men	number	8411	8076	6611	
		%	100%	100%	100%	
	of whom women	number	703	690	597	
		%	100%	100%	100%	
Workmen	number	8427	7700	5384		
of whom men	number	7665	6961	4950		
	%	100%	100%	100%		
of whom women	number	762	739	434		
	%	100%	100%	100%		
	Training					
	Total hours (By gender and Emp category)					
	Board of Directors and KMP	Number		9	0	
	of whom men	Number		7	0	
		Man-hours		84	0	
	of whom women	Number		2	1	
		Man-hours		60	6	
	Top/ Senior management	Number	514	30	52	
	of whom men	Number	502	30	51	
		Man-hours	15276	978	3762	
	of whom women	Number	12	0	1	
		Man-hours	228	0	6	
	Middle management	Number	3111	3806	3728	
	of whom men	Number	3038	3632	3553	
		Man-hours	110424	199254	232008	
	of whom women	Number	73	174	175	
		Man-hours	2664	9678	11322	
	Lower/Junior management	Number	7093	7481	6727	
	of whom men	Number	6469	6891	6200	
		Man-hours	188964	446964	386334	
of whom women	Number	624	590	527		
	Man-hours	18672	28554	32028		

GRI/EUSS	KPI	Unit	2021	2022	2023	2024
404-1	Fixed Term Employees (Other than permanent) + Trainees	Number		511	988	
	of whom men	Number		397	873	
		Man-hours		64410	123900	
	of whom women	Number		114	115	
		Man-hours		27000	11334	
	Workmen (Permanent)	Number	3248	5352	4532	
	of whom men	Number	2936	4954	4202	
		Man-hours	29868	110088	84966	
	of whom women	Number	312	398	330	
		Man-hours	3756	9342	7818	
	Total Training imparted	Man-hours	369852	896412	893496	
	of whom men	Man-hours	344532	821778	830970	
	of whom women	Man-hours	25320	74634	62526	
	Average training hours per employee	Man-hours/ emp	26	52	58	
	of whom men	Man-hours/ emp	27	52	57	
	of whom women	Man-hours/ emp	25	58	59	
	Dissemination of sustainability					
	Training on aspects (only permanent employees)					
	Skill Upgradation	number	15317	1411	15824	
	of whom men	number		1312	14692	
		%		93%	93%	
		Man-hours		15107	799116	
	of whom women	number		99	1132	
		%		7%	7%	
		Man-hours		1293	59238	
	Environment	number	941	549	415	
	of whom men	number		492	396	
		%		90%	95%	
		Man-hours		6162	4332	
	of whom women	number		57	19	
		%		10%	5%	
		Man-hours		618	222	
	Supply Chain	number	1693	7	46	
of whom men	number		7	40		
	%		100%	87%		
	Man-hours		61	10320		
of whom women	number		0	6		
	%		0%	13%		
	Man-hours		0	1548		
Code of Ethics	number	1000	764	2581		
of whom men	number		679	2404		
	%		89%	93%		
	Man-hours		6590	17202		
of whom women	number		85	177		
	%		11%	7%		
	Man-hours		828	1518		
BRSR 5.1 GRI 404-1	Training on Human Rights					
	Permanent Employee	number	47	1572	283	
		%	0%	12%	2%	
		Man-hours	536	16188	1848	
	Permanent Workers	number	47	604	298	
		%	1%	8%	4%	
		Man-hours	624	4872	2616	
	Other than Permanent Employee (Fixed Term) + Trainees	number		35	40	
		%		3%	3%	
		Man-hours		246	264	
Other than Permanent workers	number					
	%					
	Man-hours					
403-5	Training on Health and Safety					
	NTPC Employee	number	12190	11789	16224	
		%	56%	57%	80%	
		Man-hours	101595	68769	134631	
	Contractual Workers	number	173971	214097	616348	
		%	179%	201%	544%	
	Man-hours	1195080	1297459	2465392		
	CORPORATE WELFARE					

GRI/EUSS	KPI	Unit	2021	2022	2023	2024
201-3	Employees covered by pension plan (benefit plan)	number			20252	
	Employees covered by pension plan (benefit plan)	%			93%	
401-3	MATERNITY/PATERNITY-PARENTAL LEAVE					
	Employees (Including Workers) entitled to parental leave by gender					
	men	number	20278	19138	18623	
	women	number	1663	1633	1629	
	Parental leave by gender					
	men	number	664	644	701	
	women	number	164	130	290	
	Return to work rate of employees that took parental leave by gender	%				
	men	%	100	100	100	
	women	%	100	100	100	
	Retention rate by gender	%				
	men	%	100	100	100	
women	%	100	100	100		
405-2	Ratio of basic salary/remuneration Women/Men					
	Ratio of basic salary Women/Men	%				
	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	
	Ratio of remuneration Women/Men	%				
	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	Diversity of governance bodies and employees (Group)					
	Specially Abled Employees					
	Board of Directors and KMP	number	0	0	0	
	of whom men	number	0	0	0	
		%	0%	0%	0%	
	of whom women	number	0	0	0	
		%	0%	0%	0%	
	Top/ Senior management	number	0	0	0	
	of whom men	number	0	0	0	
		%	0%	0%	0%	
	of whom women	number	0	0	0	
		%	0%	0%	0%	
	Middle management	number	23	29	35	
	of whom men	number		28	34	
		%		0.69%	97.14%	
	of whom women	number		1	1	
		%		0%	3%	
	Lower/Junior management	number	173	160	187	
	of whom men	number		145	171	
		%		2%	91%	
	of whom women	number		15	16	
		%		2%	9%	
	Workmen	number	384	346	344	
	of whom men	number		296	296	
		%		86%	86%	
	of whom women	number		50	48	
		%		14%	14%	
Fixed Term Employees	number		4	1		
of whom men	number		4	1		
	%		100%	100%		
of whom women	number		0	0		
	%		0%	0%		
Total	number	580	539	567		
	Reserved Group (OBC/SC/ST Employees)					
	Board of Directors and KMP	number				
	of whom men	number	0	0	0	

GRI/EUSS	KPI	Unit	2021	2022	2023	2024
		%	0%	0%	0%	
	of whom women	number	0	0	0	
		%	0%	0%	0%	
	Top/ Senior management	number	51	4	3	
	of whom men	number		4	3	
		%		8%	5%	
	of whom women	number		0	0	
		%		0%	0%	
	Middle management	number	1214	1340	1328	
	of whom men	number		1281	1278	
		%		32%	31%	
	of whom women	number		59	50	
		%		29%	24%	
	Lower/Junior management	number	4365	4135	3770	
	of whom men	number		3840	3493	
		%		48%	44%	
	of whom women	number		295	277	
		%		43%	39%	
	Workmen	number	4088	3897	2799	
	of whom men	number		3518	2616	
		%		18%	14%	
	of whom women	number		379	183	
		%		23%	11%	
	Fixed Term Employees + Trainees	number		543	786	
	of whom men	number		494	717	
		%		54%	53%	
	of whom women	number		49	69	
		%		38%	48%	
	Total	number	9718	9919	8686	
	RELATIONS WITH UNIONS (Permanent Only)					
102-41	Union membership in the electricity sector (Employee)	%		46.18%	53.12%	
	Total Employees covered by collective agreements,	number		6036	6905	
	Union membership in the electricity sector (Workers)	%		100%	100%	
	Total Workers covered by collective agreements,	number		7700	7255	
203-1	INITIATIVES IN FAVOR OF THE COMMUNITY					
	Contributions to communities					
	Total (expense + investments)	Rs. cr.	461.96	418.87	352.79	
102-8	NATURE OF SUPPLIERS					
	Supplier Base	number	16373	17372	9430	
	Domestic	number	12516	13455		
	Foreign	number	3857	3917		
	New suppliers enlisted	number	1060	3070	511	
	Workforce of contracting and subcontracting companies	number	97442	106662	104302	
204-1	Local suppliers of materials and services					
	Spending on local suppliers	Rs.cr.	34378	5976	69312	
	Spending on foreign suppliers	Rs.cr.	434	103	261	
	Concentration of spending on local suppliers	%	98.8%	98.3%	99.6%	
	Concentration of spending on foreign suppliers	%	1.2%	1.7%	0.4%	
	MSE Procurement	%	51%	43%	40%	
	Procurement from Marginalised Group (SC/ST)	%	0.22%	0.32%	0.17%	
	Procurement from Women	%	0.39%	0.63%	0.40%	
	Purchases and fuel					
	Purchases of materials and services	Rs. cr.				
	Supplies	Rs. cr.			14474.59	
	Works	Rs. cr.			13136.71	
	Services	Rs. cr.			19194.52	
	Fuel purchases	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	
	SAFETY					
	Employees					
	Number of fatalities and frequency rate					

GRI/EUSS	KPI	Unit	2021	2022	2023	2024
403-9	Number of fatalities	number	1	1	1	
	Fatalities frequency rate	(i)	0.021	0.021	0.024	
	Number of "high-consequence" injuries (excluding fatalities) and frequency rate					
	Number of "high-consequence" injuries	number	0	1	1	
	"High-consequence" injuries frequency rate	(i)	0.000	0.000	0.004	
	Other injuries and frequency rate					
	No. of Lost Time Injury	number	5	4	6	
	Lost Time Injury Frequency Rate (LTIFR)	(i)	0.11	0.08	0.14	
	No. of Recordable work-related injury or ill health	number	37	3	5	
	Recordable Injury Rate	(i)	0.90	0.15	0.26	
	Contractor Workers					
	Number of fatalities and frequency rate					
	Number of fatalities	number	6	4	4	
	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	0	1	1	
	"High-consequence" injuries frequency rate	(i)	0.00	0.00	0.00	
	Other injuries and frequency rate					
	No. of Lost Time Injury	number	27	22	15	
	Lost Time Injury Frequency Rate (LTIFR)	(i)	0.11	0.08	0.07	
	No. of Recordable work-related injury or ill health	number	0	35	15	
	Recordable Injury Rate	(i)	0.11	0.22	0.13	
	Total (Employee+ Contractor workers)					
	Number of fatalities and frequency rate					
	Number of fatalities	number	7	5	5	
	Fatalities frequency rate	(i)	0.02	0.02	0.019	
	Number of "high-consequence" injuries (excluding fatalities) and frequency rate					
Number of "high-consequence" injuries	number	0	1	1		
"High-consequence" injuries frequency rate	(i)	0.00	0.00	0.004		
Other injuries and frequency rate						
No. of Lost Time Injury	number	32	26	21		
Lost Time Injury Frequency Rate (LTIFR)*	(i)	0.11	0.08	0.079		
No. of Recordable work-related injury or ill health	number	37	38	20		
Recordable Injury Rate*	(i)	0.24	0.20	0.15		
102-5	SHAREHOLDERS					
	Composition of shareholdings					
	Investors					
	Government of India	%	51.02	51.10	51.10	
	Indian Financial Institutions/bank	%	11.41	0.44	0.22	
	Mutual Funds	%	19.87	17.73	19.92	
	Foreign Portfolio Investors/FII	%	12.64	14.74	15.60	
	Resident Individuals	%	1.81	2.12	2.07	
	Bodies Corporates	%	0.23	0.17	0.41	
	Insurance Companies	%	2.16	12.58	8.90	
	Trusts	%	0.51	0.01	0.01	
	H U F	%	0.00	0.07	0.07	
Others	%	0.35	1.04	1.70		
405-1	CORPORATE GOVERNANCE					
	Board of Directors (BoD)					
	Members of BoD by type					
	Executive members	number	6	6	5	
	Govt. Nominee members	number	2	2	2	
	Independent	number	2	4	4	
	Women on BoD of the Group	number				
	Women on the BoD of NTPC	number	1	1	1	
	Members of the BoD by age group					
	Under 30 years old	number	0	0	0	
	30 - 50 years old	number	0	0	0	
Over 50 years old	number	10	14	11		
BoD meetings	number	14	15	15		
	Confirmed Bribery & Corruption cases related to	number			0	
	Employees	number			0	
	Suppliers/Contractors	number			9	

GRI/EUSS	KPI	Unit	2021	2022	2023	2024
205-3	Actions taken in response to incidents of conflict of interest/corruption by law agencies	number			0	
	of which: actions taken against employees in response to cases of conflict of interest/corruption	number			0	
	of which: actions taken against contractors in response to cases of conflict of interest/corruption	number			0	
DMA EU/ BRSR 2.1	Innovation & R&D					
	Patents Granted	number	22	28	33	
	Copyrights Granted	number	9	10	15	
	R&D Expenditure	Rs. Cr	185.78	222.48	283.45	
	Research personnel	number	46	34		

* Per Million Man-hours worked