

ESG Data 2024 - Environmental Data

Updated December 2024

TEPCO HD and core operating companies (Tokyo Electric Power Company Holdings, Inc., TEPCO Fuel & Power, Inc., TEPCO Power Grid, Inc., TEPCO Energy Partner, Inc., and TEPCO Renewable Power, Inc.)					
GRI	UM	FY2020	FY2021	FY2022	FY2023
Coverage					
Operating revenues	(Billion yen)	5,867	5,310	7,799	6,918
Electric power operating revenues	(Billion yen)	5,514	4,842	7,132	6,330
Other operating revenues	(Billion yen)	353	468	667	589
TEPCO HD and core operating companies / TEPCO HD and all of consolidated subsidiary companies	(%)	94	91	91	91
GRI	UM	FY2020	FY2021	FY2022	FY2023
Key figures					
Installed capacity by energy source					
Total net electrical capacity	(MW)	18,199	18,200	18,122	18,116
Thermal net capacity	(MW)	58	58	58	58
Coal	(MW)	0	0	0	0
LNG	(MW)	0	0	0	0
Oil	(MW)	58	58	58	58
Nuclear net capacity	(MW)	8,212	8,212	8,212	8,212
Renewable net capacity	(MW)	9,929	9,930	9,852	9,845
Hydroelectric	(MW)	9,878	9,879	9,801	9,794
Solar	(MW)	30	30	30	30
Wind	(MW)	21	21	21	21
Geothermal	(MW)	0	0	0	0
Biomass and cogeneration	(MW)	0	0	0	0
Net energy production by energy source					
Total net electrical production (energy consumption)	(GWh)	11,937	13,106	11,706	10,507
Thermal net production (energy consumption)	(GWh)	159	157	156	155
Coal	(GWh)	0	0	0	0
LNG	(GWh)	0	0	0	0
Oil	(GWh)	159	157	156	155
Nuclear net production (energy consumption)	(GWh)	0	0	0	0
Renewable net production (energy consumption)	(GWh)	11,778	12,948	11,550	10,353
Hydroelectric	(GWh)	11,722	12,882	11,489	10,296
Solar	(GWh)	29	29	24	22
Wind	(GWh)	26	37	36	35
Geothermal	(GWh)	0	0	0	0
Biomass and cogeneration	(GWh)	0	0	0	0
Efficiency					
Thermal power plant	(%)	-	-	-	-
Development					
Development of renewable power generation facilities	(MW)	138	192	326	325
Availability					
Nuclear power plant	(%)	0	0	0	0
Network					
Electricity network					
Total transmission network	(km)	41,059	40,966	41,037	40,999
- of which aerial line	(km)	28,585	28,453	28,480	28,410
- of which underground cable	(km)	12,474	12,513	12,557	12,589
Total distribution network	(km)	382,290	383,415	384,544	385,624
- of which aerial line	(km)	343,257	344,208	345,095	345,883
- of which underground cable	(km)	39,033	39,207	39,449	39,741
Transmission and distribution loss					
Extra high voltage	(%)	1.4	1.3	1.3	1.3
High voltage	(%)	3.9	3.9	3.7	3.7
Low voltage	(%)	6.4	6.6	6.9	6.9
Average	(%)	4.0	4.5	3.8	4.7
Supply reliability					
System Average Interruption Duration Index (SAIDI)	(hour)	0.12	0.12	0.08	0.08
Interruption time (min.) / year (min.)	(%)	0.001	0.001	0.001	0.001

	Smart meter					
	Number of installations	(10k units)	2,840	2,840	2,840	*4
	Instalation rate	(%)	100	100	100	*4
	Sales					
305-4	Electricity volumes	(GWh)	192,866	177,118	173,089	*5
	CO ₂ related electricity sales					
	Adjusted emissions intensity	(kg-CO ₂ /kWh)	0.441	0.451	0.376	*6
	Basic emissions intensity	(kg-CO ₂ /kWh)	0.447	0.457	0.457	
	Adjusted emissions	(ktCO ₂)	85,100	79,900	65,100	*7
	Basic emissions	(ktCO ₂)	86,300	80,900	79,100	
	Gas volumes	(km ³)	659,635	1,230,253	1,378,263	*8
	Adjusted emissions intensity	(t-CO ₂ /km ³)	-	-	-	*9
	Basic emissions intensity	(t-CO ₂ /km ³)	-	-	-	
	Adjusted emissions	(kt-CO ₂)	-	-	-	*9
	Basic emissions	(kt-CO ₂)	-	-	-	
	Leakege rate (Transportation)	(%)	0	0	0	
2-27	Leakege rate (Distribution)	(%)	0	0	0	
	Leakege rate (Strage)	(%)	0	0	0	
	Environmental compliance					
	Total monetary value of significant fines	(Million yen)	0	0	0	
	Total number of non-monetary sanctions	(no.)	0	0	0	
	Significant spill					
	Total number of significant spill	(no.)	0	0	0	
GRI		UM	FY2020	FY2021	FY2022	FY2023
Emissions						
305-1	Direct greenhouse gas emissions (Scope 1)					*10
	Total direct emissions (Scope 1)	(ktCO ₂ eq)	190	192	193	194 ★ *11
	CO ₂ emissions from electricity production and other activities	(ktCO ₂)	120	118	119	121
	CO2 emissions from vehicles (gasoline and diesel)	(ktCO ₂)	7	7	6	6
	Total other CO ₂ eq emissions	(ktCO ₂ eq)	63	67	68	67
	N ₂ O	(ktCO ₂ eq)	1	1	1	1
	HFCs	(ktCO ₂ eq)	3	3	6	3 *12
	SF ₆	(ktCO ₂ eq)	59	63	61	63 *12
	Other emissions volume					
	N ₂ O	(t)	3	3	3	3
	SF ₆	(t)	2.6	2.8	2.7	2.7 *12
	SF ₆ recovery rate					
	In equipment inspections	(%)	>99.5	99	>99.5	>99.5
	In equipment removal	(%)	>99.5	99	99	>99.5
	Fluorocarbon emissions					
	Leaked volumes based on the act on rational use and proper management of fluorocarbon	(ktCO ₂ eq)	5	6	9	5
305-2	Indirect greenhouse gas emissions (Scope 2)					*13
	Total of Scope2,market based	(ktCO ₂ eq)	5,205	5,753	4,917	5,918 ★ *14
	Total of Scope2,location based	(ktCO ₂ eq)	5,207	5,744	4,896	5,961 ★ *15
	Civil uses, hydroelectric and thermal electric plants					
	Related to energy purchased from the grid (Scope 2, market based)	(ktCO ₂ eq)	469	465	490	427 *14
	Related to energy purchased from the grid (Scope 2, location based)	(ktCO ₂ eq)	471	456	469	470 *15
	Related to technical losses from distribution and transmission network	(ktCO ₂ eq)	4,736	5,288	4,427	5,491 *16

302-2	305-3	Other indirect greenhouse gas emissions (Scope 3, per GHG protocol)						
		Total of Scope 3	(ktCO ₂ eq)	110,119	101,946	106,073	114,585	*17
	Upstream	Category 1 Purchased goods and services	(ktCO ₂ eq)	1,236	1,670	2,688	3,432	*18
		Category 2 Capital goods	(ktCO ₂ eq)	1,906	1,758	1,988	2,279	
		Category 3 Fuel- and energy-related activities (not included in Scope 1 or Scope 2)	(ktCO ₂ eq)	101,402	91,342	94,174	101,903	★ *19
		Category 4 Upstream transportation and distribution	(ktCO ₂ eq)	0	0	0	21	*20
		Category 5 Waste generated in operations	(ktCO ₂ eq)	2	3	4	4	
		Category 6 Business travel	(ktCO ₂ eq)	4	4	4	4	
		Category 7 Employee commuting	(ktCO ₂ eq)	11	10	10	9	
		Category 8 Upstream leased assets	(ktCO ₂ eq)	0	0	0	0	
		Other (upstream)		0	0	0	0	
		Downstream	Category 9 Downstream transportation and distribution	(ktCO ₂ eq)	0	0	0	0
	Category 10 Processing of sold products		(ktCO ₂ eq)	0	0	0	0	
	Category 11 Use of sold products		(ktCO ₂ eq)	5,559	7,159	7,206	6,933	★ *21
	Category 12 End-of-life treatment of sold products		(ktCO ₂ eq)	0	0	0	0	
	Category 13 Downstream leased assets		(ktCO ₂ eq)	0	0	0	0	
	Category 14 Franchises		(ktCO ₂ eq)	0	0	0	0	
	Category 15 Investments		(ktCO ₂ eq)	0	0	0	0	
	Other (downstream)			0	0	0	0	
	Scope 1 and 2							
			Market based	(ktCO ₂ eq)	5,395	5,945	5,110	6,113
		Location based	(ktCO ₂ eq)	5,397	5,936	5,089	6,156	
	Scope 1, 2 and 3							
		Market based	(ktCO ₂ eq)	115,514	107,891	111,183	120,697	
		Location based	(ktCO ₂ eq)	115,516	107,882	111,162	120,740	
305-7	Other atmospheric emission							
		NO _x emissions	(kt)	2	2	2	2	
		SO _x emissions	(kt)	0.1	0.2	0.2	0.2	
		Dust emissions	(kt)	0.03	0.03	0.04	0.03	
		Direct mercury emissions	(kt)	0	0	0	0	
		Volatile organic compounds (VOC) emissions	(kt)	0	0	0	0	*22
GRI			UM	FY2020	FY2021	FY2022	FY2023	
Energy								
302-1	302-4	Energy consumption						
		Total	(GJ)	12,376,989	12,283,582	12,585,020	11,104,432	*23
		Electricity production and other activities	(GJ)	1,738,099	1,705,628	1,723,232	1,717,883	
		Vehicles (gasoline and diesel)	(GJ)	106,536	96,981	94,634	92,839	
		Electricity, heat and steam (civil uses, hydroelectric and thermal electric plants)	(GJ)	10,532,354	10,480,973	10,767,154	9,293,709	*23
302-3		Energy consumption intensity in buildings						
		Per total floor space of office (headquarters, branch offices, etc.)	(MJ/m ²)	1,397	1,336	1,316	1,172	*23
		Costs						
		Total costs of energy consumption	(Million yen)	2,948	3,914	4,198	5,294	
		Renewable energy (in-house power generation)						
		Installed buildings	(kW)	17	15	14	14	
		Installed capacity	(kW)	229	303	301	312	
		Net energy production	(MWh)	227	225	223	251	
GRI			UM	FY2020	FY2021	FY2022	FY2023	
Raw materials								
301-1		Fuel consumption						
		from non-renewable sources						
		Coal	(kt)	<1	<1	<1	<1	
		Heavy oil, crude oil, etc.	(ML)	44	43	44	44	
		Gas (LNG, LPG)	(kt)	<1	<1	<1	<1	
		City Gas	(mil m ³)	<1	<1	<1	<1	
		Fuel for nuclear power plants	(t)	0	0	0	0	
		from renewable sources						
		Biomass	(kt)	0	0	0	0	

GRI		UM	FY2020	FY2021	FY2022	FY2023
	Water					
303-3	Water withdrawal in “water stressed” areas					
	Total	(km ³)	0	0	0	0
303-3	Water withdrawal by source					
	Total withdrawal from scarce sources	(km ³)	47,420,172	49,463,282	47,263,796	37,129,334
	Surface water (wetlands, lakes, rivers)	(km ³)	47,419,391	49,462,537	47,263,067	37,128,590
	Ground water (from wells)	(km ³)	25	27	24	31
	Water from municipal water supplies	(km ³)	756	719	705	714
	Water withdrawal by uses					
	Total	(km ³)	47,420,172	49,463,282	47,263,796	37,129,334
	River water for hydroelectric plants	(km ³)	47,419,231	49,462,389	47,262,577	37,128,052
	Industrial water	(km ³)	67	73	384	422
	Municipal water	(km ³)	849	794	811	831
	Groundwater	(km ³)	25	27	24	31
	Water intensity for electricity generation activities					
	Total	(km ³ /MWh)	5.6	5.7	5.5	5.2
303-4	Water discharge by destination					
	Total	(km ³)	47,420,170	49,463,282	47,263,796	37,129,331
	Surface water (wetlands, lakes, rivers)	(km ³)	47,419,231	49,462,389	47,262,577	37,128,057
	Groundwater	(km ³)	0	0	0	0
	Sea (in industrial treatment plants)	(km ³)	352	335	668	715
	Third party water (municipal treatment plants)	(km ³)	588	558	551	559
303-5	Freshwater consumption					
	Total	(km ³)	2	<1	<1	3
	Water treatment					
	Volume of waste water treatment in power plants	(km ³)	-	-	-	-
	COD emissions from power plants	(t)	-	-	-	-
	Annual accumulated ALPS treated water discharge volume	(mil m ³)	-	-	-	31
	Business Impacts of Water Related Incidents	(Million yen)	-	-	-	0
GRI		UM	FY2020	FY2021	FY2022	FY2023
	Waste					
	Industrial waste by disposal method					
306-3	Total generated	(kt)	144	148	140	156
306-4	Recycled volume	(kt)	144	148	140	156
306-5	Landfill treatment volume	(kt)	0.105	0.486	0.055	0.093
	Recycling rate	(%)	99.9	99.6	99.9	99.9
	Hazardous waste					
	Waste volume containing PCB	(kt)	26	27	18	21
	Insulating oil (inadvertently contaminated)	(ML)	4	4	4	6
	Pole-mounted transformers	(10k units)	7	5	3	3
	Management of remaining PCB equipments					
	Pole-mounted transformers	(10k units)	12	8	6	3
	Ash management					
	Total generated	(kt)	0	0	0	0
	Recycled volume	(kt)	0	0	0	0
	Landfill treatment volume	(kt)	0	0	0	0
	Recycling rate	(%)	-	-	-	-
GRI		UM	FY2020	FY2021	FY2022	FY2023
	Other					
	Electric vehicle					
	Number of EV or PHEV	(no.)	569	656	720	915
	Rate of EV or PHEV fleets	(%)	15	18	21	27
	Green procurement					
	Green procurement rate in office supplies (monetary value based)	(%)	99.8	99.9	99.9	>99.9
	Paper bought for printers/ photocopiers					
	Number of sheets (equivalent A4 sheets)	(mil A4eq)	205	170	171	171
	Weight	(t)	818	678	681	684

TEPCO HD and all of consolidated subsidiary companies						
GRI	KPI	UM	FY2020	FY2021	FY2022	FY2023 注
	Key figures					
	Installed capacity by energy source					
	Total net electrical capacity	(MW)	18,350	18,354	18,269	18,310
	Thermal net capacity	(MW)	58	58	58	58
	Coal	(MW)	0	0	0	0
	LNG	(MW)	0	0	0	0
	Oil	(MW)	58	58	58	58
	Nuclear net capacity	(MW)	8,212	8,212	8,212	8,212
	Renewable net capacity	(MW)	10,080	10,084	9,998	10,039
	Hydroelectric	(MW)	10,025	10,021	9,945	9,985 *2
	Solar	(MW)	31	39	30	30
	Wind	(MW)	21	21	21	21
	Geothermal	(MW)	0	0	0	0
	Biomass and cogeneration	(MW)	3	3	3	3
	Net energy production by energy source					
	Total net electrical production	(GWh)	12,561	13,698	12,248	11,225
	Thermal net production	(GWh)	159	157	156	155
	Coal	(GWh)	0	0	0	0
	LNG	(GWh)	0	0	0	0
	Oil	(GWh)	159	157	156	155
	Nuclear net production	(GWh)	0	0	0	0
	Renewable net production	(GWh)	12,402	13,541	12,092	11,070
	Hydroelectric	(GWh)	12,332	13,458	12,016	10,992 *2
	Solar	(GWh)	31	31	25	22
	Wind	(GWh)	26	37	36	35
	Geothermal	(GWh)	0	0	0	0
	Biomass and cogeneration	(GWh)	13	16	16	21
	Sales					
	Electricity volumes	(GWh)	204,484	233,812	242,784	228,745 *24
2-27	Environmental compliance					
	Total monetary value of significant fines	(Million yen)	0	0	0	0
	Total number of non-monetary sanctions	(no.)	0	0	0	0
	Significant spill					
	Total number of significant spill	(no.)	0	0	0	0
	ISO 14001					
	Certificated offices	(no.)	24	19	20	21
GRI		UM	FY2020	FY2021	FY2022	FY2023 注
	Emissions					
305-1	Direct greenhouse gas emissions (Scope 1)					
	Total direct emissions (Scope 1)	(ktCO ₂ eq)	203	203	205	211
	CO ₂ emissions from electricity production and other activities	(ktCO ₂)	128	123	125	132
	CO ₂ emissions from vehicles (gasoline and diesel)	(ktCO ₂)	11	11	10	9
	Total other CO ₂ eq emissions	(ktCO ₂ eq)	64	69	69	69
305-2	Indirect greenhouse gas emissions (Scope 2)					
	Total of Scope2,market based	(ktCO ₂ eq)	5,229	5,777	4,934	5,937
	Total of Scope2,location based	(ktCO ₂ eq)	5,231	5,773	4,913	5,981
	Civil uses, hydroelectric and thermal electric plants					
	Related to energy purchased from the grid (Scope 2, market based)	(ktCO ₂ eq)	493	489	507	446
	Related to energy purchased from the grid (Scope 2, location based)	(ktCO ₂ eq)	495	485	485	490
	Related to technical losses from distribution and transmission network	(ktCO ₂ eq)	4,736	5,288	4,427	5,491
	Scope 1 and 2					
	Market based	(ktCO ₂ eq)	5,432	5,980	5,139	6,148
	Location based	(ktCO ₂ eq)	5,433	5,976	5,118	6,192

302-2	305-3	Other indirect greenhouse gas emissions (Scope 3, per GHG protocol)						
		Total of Scope 3	(ktCO ₂ eq)	-	-	106,401	115,463	*25
		Category 1 Purchased goods and services	(ktCO ₂ eq)	-	-	-	3,895	
		Category 2 Capital goods	(ktCO ₂ eq)	-	-	-	2,533	
		Category 3 Fuel- and energy-related activities (not included in Scope 1 or Scope 2)	(ktCO ₂ eq)	-	-	-	102,045	
		Category 4 Upstream transportation and distribution	(ktCO ₂ eq)	-	-	-	26	
		Category 5 Waste generated in operations	(ktCO ₂ eq)	-	-	-	6	
		Category 6 Business travel	(ktCO ₂ eq)	-	-	-	5	
		Category 7 Employee commuting	(ktCO ₂ eq)	-	-	-	13	
		Category 8 Upstream leased assets	(ktCO ₂ eq)	-	-	-	1	
		Other (upstream)	(ktCO ₂ eq)	-	-	-	0	
		Category 9 Downstream transportation and distribution	(ktCO ₂ eq)	-	-	-	0	
		Category 10 Processing of sold products	(ktCO ₂ eq)	-	-	-	0	
		Category 11 Use of sold products	(ktCO ₂ eq)	-	-	-	6,934	
		Category 12 End-of-life treatment of sold products	(ktCO ₂ eq)	-	-	-	0	
		Category 13 Downstream leased assets	(ktCO ₂ eq)	-	-	-	5	
		Category 14 Franchises	(ktCO ₂ eq)	-	-	-	0	
		Category 15 Investments	(ktCO ₂ eq)	-	-	-	0	
		Other (downstream)	(ktCO ₂ eq)	-	-	-	0	
GRI			UM	FY2020	FY2021	FY2022	FY2023	注
		Energy						
302-1	302-4	Energy consumption						
		Total	(GJ)	13,084,756	13,122,744	13,135,128	11,756,069	
		Electricity production and other activities	(GJ)	1,867,640	1,787,910	1,823,146	1,929,388	
		Vehicles (gasoline and diesel)	(GJ)	162,401	155,338	158,534	142,014	
		Electricity, heat and steam (civil uses, hydroelectric and thermal electric plants)	(GJ)	11,054,715	11,179,495	11,153,448	9,684,667	
GRI			UM	FY2020	FY2021	FY2022	FY2023	注
		Water						
303-3		Water withdrawal by uses						
		Total	(km ³)	51,300,384	52,787,101	50,621,370	41,352,728	
		River water for hydroelectric plants	(km ³)	51,299,291	52,786,057	50,619,971	41,351,172	
		Industrial water for thermal electric plants	(km ³)	67	73	384	422	
		Municipal water	(km ³)	1,000	944	991	1,104	
		Groundwater	(km ³)	25	27	25	31	
GRI			UM	FY2020	FY2021	FY2022	FY2023	注
		Waste						
		Industrial waste by disposal method						
306-3		Total generated	(kt)	179	212	152	171	
306-4		Recycled volume	(kt)	179	212	152	171	
306-5		Landfill treatment volume	(kt)	<1	<1	<1	<1	
		Recycling rate	(%)	99.8	99.6	99.7	99.7	
GRI			UM	FY2020	FY2021	FY2022	FY2023	注
		Other						
		Electric vehicle						
		Number of EV or PHEV	(no.)	592	690	754	938	
		Green procurement						
		Green procurement rate in office supplies (monetary value based)	(%)	97.6	95.3	94.8	85.9	
		Paper bought for printers/ photocopiers						
		Number of sheets (equivalent A4 sheets)	(mil A4eq)	323	247	249	219	
		Weight	(t)	1,289	985	993	876	

- Figures which are marked with ★ have been externally assured by KPMG AZSA Sustainability Co.,Ltd.
- Totals may not be exact due to significant digits or rounding.
- The values are for the fiscal year (from 1 April to 31 March) or as of the end of the fiscal year (31 March) unless otherwise specified.
- * 1 Source: "Surveys and Statistics of Electricity (the Agency for Natural Resources and Energy)"
- * 2 Including pumped-storage power generation
- * 3 The transmission and distribution loss rate by voltage is the transmission and distribution loss rate by voltage stated in the wheeling supply agreement announced at the beginning of the fiscal year.
- * 4 The installation has been completed in all households except for some places where replacement work is difficult in FY2020.
- * 5 Excluding wholesale electricity
- * 6 Adjusted emissions intensity is the value after adjustment of feed-in tariff scheme for renewable energy based on the Act on Promotion of Global Warming Countermeasures.
- * 7 Adjusted emissions is the value after adjustment of feed-in tariff scheme for renewable energy based on the Act on Promotion of Global Warming Countermeasures.
- * 8 Excluding wholesale gas
- * 9 CO2 emissions intensity and CO2 emissions are calculated and published from FY2023 results in accordance with the revision of the Act on Promotion of Global Warming Countermeasures and other related laws and regulations.
Adjusted emissions intensity is the value after adjustments of domestic and overseas certified emission reductions based on the Act on Promotion of Global Warming Countermeasures. Adjusted emissions is the value after adjustments of domestic and overseas certified emission reductions based on the Act on Promotion of Global Warming Countermeasures.
- * 10 Emissions of greenhouse gases released directly into the atmosphere from emission sources within organizational boundaries.
Calculated, in principle, with the emission factors specified in the GHG emissions accounting, reporting, and disclosure system administered by Japan's Ministry of the Environment, based on the Act on the Rational Use of Energy and the Law Concerning the Promotion of the Measures to Cope with Global Warming.
- * 11 Emissions due to the fluorocarbon emissions are not included in total direct emissions (Scope 1).
- * 12 The value for calendar year (from January 1 to December 31)
- * 13 Emissions due to the use of electricity, heat and steam supplied by others.
- * 14 "Market based" emissions are emissions which are calculated based on the emissions factor of each electricity retail company.
Calculated by using the adjusted emissions factor for each electricity retail company and the emissions factor of heat and steam specified in the Act on Promotion of Global Warming Countermeasures.
- * 15 "Location based" emissions reflect the average emissions factor of grids.
- * 16 Transmission and distribution losses are calculated by multiplying the electricity TEPCO Power Grid transmitted by the transmission and distribution loss rate.
Emissions associated with transmission and distribution losses are calculated by multiplying transmission and distribution losses by the emissions factor for power transmission and distribution operators.
- * 17 Indirect greenhouse gas emissions from business
Approach to calculation
We follow major guidelines have been published:
"Corporate Value Chain (Scope 3) Accounting and Reporting Standard(GHG protocol)"
"Green Value Chain Platform (Japanese Ministry of the Environment website, which provides Scope 3 emissions calculation methods and models)"
Calculation method for each of the categories
Category 1: A hybrid of the following two
 A. Calculated by multiplying the procurement amount for each product/service purchased by the emissions intensity
 B. If the supplier publishes corporate emissions and sales on their websites, etc., calculate using the published values and our procurement amount.
Category 2: Calculated by multiplying the amount of annual capital investment in financial report by the emission factor
Category 3: The sum of the following two values;
 A. Emissions from resource extraction, production and transportation
 Calculated by multiplying amount of electricity procured by emission factors
 B. Emissions of energy consumption by other companies related to the amount of electricity sold
 Calculated by multiplying the amount of electricity procured from other companies by the emission factor
Category 4: Calculated by multiplying transportation volume or transportation charges by the emission factor from FY2023 results
Category 5: Calculated by multiplying the volume of industrial waste by the emission factor for each type of waste treatment method
Category 6: Calculated by multiplying the number of employees by the emission factor
Category 7: Calculated by multiplying the number of employees by the number of business days and the emission factor for each location type of office
Category 8: No applicable emissions due to our type of business
Category 9: No applicable emissions due to our type of business
Category 10: No applicable emissions due to our type of business
Category 11: Calculated by multiplying the volume of gas sales by the emission factor
Category 12: No applicable emissions due to our type of business
Category 13: No applicable emissions due to our type of business
Category 14: No applicable emissions due to our type of business
Category 15: No applicable emissions due to our type of business

- * 18 From FY2022 results, the scope of aggregation has been expanded to include all purchased products and services.
- * 19 Emissions due to the extraction, production and transportation of fuel resources for power generation:
 Calculated by multiplying amount of electricity procured with the emissions coefficient specified in the emissions coefficients database for the calculation of GHG emissions throughout the supply chain available from Japan's Ministry of the Environment.
 Emissions from energy consumption outside the TEPCO Group related to electricity sales:
 Calculated by multiplying the electricity purchased from outside the TEPCO Group by the emissions factor of the TEPCO Group company that sells electricity and that for power transmission and distribution operators.
- * 20 From FY2023 results, calculated by multiplying transportation volume or transportation charges by the emissions factor.
- * 21 Emissions associated with the use of city gas we sell:
 Calculated by multiplying the city gas sold (in calorific value) by the emissions factor specified in the GHG emissions accounting, reporting, and disclosure system administered by Japan's Ministry of the Environment.
- * 22 VOC emissions based on the emission standards of the Air Pollution Control Act, which is a regulatory law of Japan, are zero.
- * 23 Until FY2022 results, calculated using 9.97 (GJ/thousand kWh) as the primary energy equivalent of electricity. From FY2023 results, calculated using 8.64 (GJ/thousand kWh) as the primary energy equivalent of electricity.
- * 24 Figures for FY2020 and earlier show retail electricity. And the total of retail electricity and wholesale electricity is shown since FY2021.
- * 25 The scope of data has been expanded to include all consolidated subsidiaries since FY2022 results, and from FY2023, the results has been announced by category.