

FY2016 TEPCO Group (1) List of Environmental Indicators and Results

1. Global environment

	Item	Unit	Results		GRI Standard
			FY2016	FY2015	
①	◆Fuel consumption				
	Total fuel/energy used for power generation by type				
	Coal	1,000 t	8,137	-	301-1
	Heavy oil, crude oil	1,000 kL	2,134	-	
	Gas (LNG, city gas, etc.)	1,000 t	23,565	-	
Fuel for nuclear power plants	t	N/A	N/A		
②	◆Electricity production				
	*FY2015 results from Electricity Survey Statistics (Agency for Natural Resources and Energy)				
	Thermal power	100MN kWh	1,903	1,982	
	Hydropower (including pumped-storage hydroelectricity)	100MN kWh	100	100	
	Solar Power	100 MN kWh	0.3	0.3	
	Wind power	100 MN kWh	0.3	0.2	
	Geothermal power	100MN kWh	0.1	0.1	
	Nuclear power	100MN kWh	N/A	N/A	
③	◆CO ₂ emissions for the "System for Calculation, Reporting, and Publishing Greenhouse gas emissions" (*2) (Scope 1)	10,000 t-CO ₂	8,890	9,130	305-1
④	◆CO ₂ emissions intensity / emissions (TEPCO Energy Partners)				
	Adjusted emissions intensity () indicates pre-adjustment emissions intensity (*3)	kg-CO ₂ /kWh	0.474 (0.486)	0.491 (0.500)	305-4 305-5
	Adjusted emissions () indicates pre-adjustment emissions (*3)	10,000t-CO ₂	11,440 (11,740)	12,140 (12,360)	
⑤	◆Electricity sales (TEPCO Energy Partners)	100MN kWh	2,415	2,471	-
⑥	◆Gas sales (TEPCO Energy Partners)	10,000 t	151	-	-
⑦	◆Electricity procured outside the TEPCO Group (receiving end)	100MN kWh	530	-	-
⑧	◆N ₂ O emissions from power generation	10,000 t-CO ₂	5.8	5.8	305-1 305-5
⑨	◆SF ₆ emissions	10,000 t-CO ₂	6.1	6.0	305-2 305-5
⑩	◆SF ₆ recovery rate during equipment inspections/removal				
	During equipment inspections During equipment removal	% %	Approx. 100 Approx. 100	Approx. 100 Approx. 100	305-2 305-5
⑪	◆HFC emission from business activities HFC emissions based on the Act on Promotion of Global Warming Countermeasures	10,000 t-CO ₂	0.4	0.3	305-2 305-5
⑫	◆Fluorocarbon leaks from business activities	10,000 t-CO ₂	0.7	0.7	305-2 305-6
⑬	◆Energy consumption from business activities (buildings, etc.)	kL GJ	40,828 1,582,500	-	302-1 302-4
	◆Indirect CO ₂ emissions accompany with energy consumption in business activities (buildings, etc.) (Scope 2)	10,000 t-CO ₂	8.7	-	305-2
⑮	◆Thermal power generation efficiency (lower-heating value) Total heat from fuel used for thermal power / electricity from thermal power	%	49.0	48.2	302-3
⑯	◆Nuclear facility utilization rate	%	N/A	N/A	302-5
⑰	◆Renewable energy (*4)				
	Volume	100 MN kWh	229	230	
	Rate of use	%	9.48	9.30	302-4
	◆Non-renewable energy usage (*5)				302-5
Volume	100 MN kWh	26	38		
Rate of use	%	1.06	1.54		
⑱	◆Power transmission loss rate	%	4.1	4.2	-

*1 : Here, TEPCO Group refers to four companies, Tokyo Electric Power Company Holdings, Inc., TEPCO Fuel & Power Inc., TEPCO Power Grid Inc., and TEPCO Energy Partners Inc.

*2: CO₂ emissions reported for the GHG emissions calculation, reporting, and disclosure system based the Act on Promotion of Global Warming Countermeasures and for the Act on Rationalizing Energy Use.

*3: CO₂ emissions intensity and CO₂ emissions prior to reflecting adjustments incidental to the renewable energy fixed rate purchasing system based on the Act on Promotion of Global Warming Countermeasures.

*4: Renewable energy refers to hydropower, solar power, wind power, biomass, etc.

*5: Non-renewable energy refers to plant exhaust heat, heat produced from the combustion of waste products other than biomass, furnace gas, and other byproduct gases.

2. Local environment

	Item	Unit	Results		GRI Standard
			FY2016	FY2015	
①	◆SOx emissions (*6) Thermal power plant sulfur oxide (SOx) emissions	10,000 t	1.0	1.0	305-7
②	◆SOx emissions intensity unit (*6) Thermal power plant sulfur oxide (SOx) emissions primary unit	g/kWh	0.05	0.05	305-7
③	◆NOx emissions (*6) Thermal power plant nitrogen oxide (NOx) emissions	10,000 t	1.9	2.2	305-7
④	◆NOx emissions intensity unit (*6) Thermal power plant nitrogen oxide (NOx) emissions primary unit	g/kWh	0.10	0.11	305-7
⑤	◆Rate of underground power lines Rate of underground power lines = {(Underground power cable length / (elevated power cable length + underground power cable length)) x 100 (%)				-
	Group rate of underground power lines	%	10.1	10.0	
	Rate of underground power lines for Tokyo Metropolitan area (23 wards)	%	47.1	47.0	

*6 Excludes combustion power in islands

3. Resource environment

	Item	Unit	Results		GRI Standard
			FY2016	FY2015	
①	◆Industrial waste	1,000 t	1,140.8	1,361.4	306-2
②	◆Industrial waste recycling rate/landfill treatment volume				
	Industrial waste recycling rate	%	99.5	99.4	306-2
③	◆PCB equipment treatment and management				
	PCB equipment treated (remaining units)				
	PCB contamination pole transformer	10,000 units	41	47	-
	High-voltage transformer/capacitors (high contaminated)	Units	493	1,197	
④	◆PCB waste treatment volume				
	PCB contamination pole transformer processing	10,000 units	7.0	5.7	306-2
	Insulating oil inadvertently contaminating PCB	1,000 kL	4.2	12.4	306-4
	High-voltage transformer/capacitors (high contaminated)	Units	797	1,064	

4. Environmental management

	Item	Unit	Results		GRI Standard
			FY2016	FY2015	
①	◆Building energy consumption intensity Energy consumption primary unit for office buildings applicable to Energy Conservation Law (*7)	MJ/m ²	1,427	-	302-3
②	◆Water withdrawals for power generation				
	Industrial water, etc.	10,000 m ³	993	-	303-1
	River water (for hydropower)	100Mm ³	510	-	
③	◆Total tap water used Water use at office buildings applicable to Energy Conservation Law (*7)	10,000m ³	100	106	303-1
④	◆Discharged water	10,000m ³	497	-	306-1
⑤	◆Vehicle fuel				
		km/L	12.3	13.0	302-3 302-4
⑥	◆Number of EV	Cars	478	542	302-4 302-5
⑦	◆Green procurement rate (office products, % of total amount) Green procurement rate for office products	%	94.1	92.1	-
⑧	◆Non-compliance with environmental laws and regulations The number of press releases issued (published on website) in response to written administrative judgments and recommendations received in accordance with environmental law are as follows.	No.	0	0	307-1
⑨	◆Significant spills No. of spills with a severe impact on surrounding environment due to spill of chemical substance or petroleum fuels	No.	0	0	306-3

*7 The Act on Rationalizing Energy Use