

Environment

Material Flow

INPUT	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
Procurement						
Items purchased through green procurement	Million	0.9	1.5	2.0	2.6	330.1
Procurement systems assessed	Companies	5	9	0	4	8
Telecommunications Facilities						
Power	Million kWh	667.83	690.0	450.0	460.0	0.0
Fuel	Million ℓ	2.45	4.7	1.5	1.7	130.6
Gas	m ³	630,000	331,000.0	290,000.0	296,000.0	19.1
Heat	Million MJ	2.75	2.3	2.5	1.9	206.7
Offices*						
Power	Million kWh	392.2	40.0	40.0	30.0	0.0
Water	m ³	210,000	206,000.0	157,000.0	96,000.0	5.9
Paper	t	317	279.9	217.6	174.2	46.8
Sales						
Paper (brochures)	t	2,770	3,000.0	2,000.0	0.0	0.0
Invoices	t	186	152.1	138.5	112.4	143.2
Fuel (automobile)	ℓ	350,000	183,000.0	129,000.0	100,000.0	5.5
OUTPUT						
Telecommunications Facilities						
Power	t-CO ₂	230,000	241,000.0	239,000.0	213,000.0	17.2
Fuel	t-CO ₂	66,000	130,000.0	40,000.0	45,000.00	0.35
Gas	t-CO ₂	14,000	10,000.0	10,000.0	7,000.00	0.04
Heat	t-CO ₂	2,000	0.0	0.0	1,000.00	0.01
General waste generated	t	876	691.0	666.0	633.6	426.5
Industrial waste generated	t	1,531	2,960.2	4,769.6	3,140.3	3,887.9
General waste landfills	t	7	7.3	6.5	3.1	2.5
Industrial waste landfills	t	7	2.2	2.1	1.1	3.9
Offices*						
Greenhouse gases (power)	t-CO ₂	18,000	18,000.0	19,000.0	14,000.0	1.2
General waste generated	t	957	1,045.6	913.7	703.3	394.3
Industrial waste generated	t	302	524.0	366.4	433.4	62.1
General waste landfills	t	19	20.7	16.5	12.7	5.3
Industrial waste landfills	t	0	7.4	6.8	5.9	1.9
Sales						
Fuel (greenhouse gases)	t-CO ₂	1,000	400.00	300.00	200.00	0.01
Reuse						
In-house reuse of dismantled telecommunications equipment	Units	79	110	112	106	124
Equipment and packaging	Units	4,135	9,136	8,794	6,923	7,797
Collections of subscriber terminals	Units	460,000	420,000	220,000	0	0
Amount of removed fiber-optic cable reused	km	20	4.6	2.2	1.3	1.2
Recycle						
Recycling of coaxial cables	km	0	0.0	0.0	0.0	0.0
Collection of confidential documents	t	335	402.6	305.2	259.8	167.3

*We separate waste insofar as possible to improve the recycling rate.

CO ₂ Emissions by Scope and Category	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
Scope1(direct emissions of greenhouse gases from our own sources, such as fuel combustion)	t-CO ₂					0.7
Scope2(indirect emissions from the use of electricity, heat, and steam supplied by other companies)	t-CO ₂					18.7
Scope3(indirect emissions other than Scopes 1 and 2, such as emissions by others related to our activities)	t-CO ₂	4,196,545	4,343,067	5,113,533	3,446,650	380.9
Category 1. Purchased goods and services	t-CO ₂	1,243,688	1,159,083	1,520,833	270,934	88.9
Category 2. Capital goods	t-CO ₂	714,298	692,121	725,883	517,353	32.4
Category 3. Fuel and energy activities not included in Scope 1 and Scope 2	t-CO ₂	97,880	91,078	95,401	37,823	3.7
Category 4. Upstream transportation and distribution	t-CO ₂	11,560	10,811	14,157	2,584	0.8
Category 5. Waste generated through business activities	t-CO ₂	154	387	513	303	0.0
Category 6. Business travel	t-CO ₂	14,378	14,713	15,571	7,673	0.8
Category 7. Employee commutations	t-CO ₂	12,185	12,468	13,195	6,502	0.7
Category 8. Upstream leased assets	t-CO ₂	-	-	0	-	-
Category 9. Downstream transportation and distribution	t-CO ₂	-	-	0	-	-
Category 10. Processing of products sold	t-CO ₂	-	-	0	-	-
Category 11. Use of products sold	t-CO ₂	1,976,614	2,255,279	2,413,631	2,309,263	224.6
Category 12. Disposal of products sold	t-CO ₂	92,420	90,221	90,410	86,201	8.4
Category 13. Downstream leased assets	t-CO ₂	-	-	214,210	203,387	20.7
Category 14. Franchise	t-CO ₂	33,368	16,906	9,730	4,627	-
Category 15. Investments	t-CO ₂	-	-	0	-	-

Note: Scope 1 includes CO₂-equivalent emissions of greenhouse gases other than CO₂ (CFC substitutes, etc.) (Scope: NTT Communications Corporation and 15 Group companies)

Environmental Accounting: Environmental Conservation Costs (Categories and Investment Corresponding to Business Activities)	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
(1) Business area cost	Million yen	937	603	593	850	862
Pollution prevention costs	Million yen	204	73	142	231	289
Oil tank facility for power generator use						
Management of items using PCBs						
Global environmental conservation costs	Million yen	733	530	450	618	573
Measures to reduce CO ₂ emissions resulting from electricity use						
Resource circulation costs	Million yen	0	1	0	0	0
Waste disposal and reuse expenses						
(2) Upstream/downstream costs	Million yen	90	79	14	73	42
Measures to recover, recycle, and reuse telecommunications equipment						
(3) Administrative costs	Million yen	0	0	0	0	0
Environmental conservation management activities						
(4) R&D costs	Million yen	0	0	0	0	0
Allocated portion of the NTT Group's environmental R&D costs						
(5) Social activity costs	Million yen	0	0	0	0	0
Costs of supporting volunteer participation						
(6) Environmental remediation costs	Million yen	0	0	0	0	0
Total	Million yen	1,027	683	607	924	904

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Environmental Accounting: Environmental Conservation Costs (Categories and Expenses Corresponding to Business Activities)	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
(1) Business area cost	Million yen	583	739	1,064	1,206	1302
Pollution prevention costs	Million yen	80	72	80	164	145
Oil tank facility for power generator use						
Management of items using PCBs						
Global environmental conservation costs	Million yen	156	205	577	526	612
Measures to reduce CO ₂ emissions resulting from electricity use						
Resource circulation costs	Million yen	347	462	406	515	545
Waste disposal and reuse expenses						
(2) Upstream/downstream costs	Million yen	379	315	52	47	45
Measures to recover, recycle, and reuse telecommunications equipment						
(3) Administration costs	Million yen	65	66	63	70	117
Environmental conservation management activities						
(4) R&D costs	Million yen	57	32	10	1	23
Allocated portion of the NTT Group's environmental R&D costs						
(5) Social activity costs	Million yen	5	5	0	0	2
Costs of supporting volunteer participation						
(6) Environmental remediation costs	Million yen	0	0	0	0	0
Total	Million yen	1,089	1,156	1,191	1,326	1,488

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Economic Benefits Associated with Environmental Conservation Activities (Real Financial Impact)	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Revenue						
Revenues from sales (cables, metal scrap, etc.)	Million yen	104	243	423	239	315
Cost Reductions						
Reductions in expenses as a result of measures such as those related to reducing electricity use	Million yen	617	591	517	391	490
Reductions in purchase cost as a result of reusing dismantled telecommunications equipment	Million yen	494	404	380	400	442
Decrease in postal and paper costs due to use of Mypage (online account page)	Million yen	505	527	422	533	433
Other	Million yen	2	3	0	0	0
Total	Million yen	1,723	1,768	1,742	1,565	1,682

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Status of Green Procurement and Green Purchasing	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
Green procurement of goods, excluding office supplies	Thousand	900	1,540	2,040	2,570	330
Green procurement of office supplies	Thousand	200	220	210	240	33

CO ₂ Emissions from Business Activities	Unit	FY2016	FY2017	FY2018	FY2019	FY2020* ¹
Total emissions	10,000 t-CO ₂	38.4	37.4	32.2	23.5	19.2
Electricity consumption* ²	10,000 t-CO ₂	37.2	35.7	23.4	22.7	18.5
Fuel for corporate vehicles and consumption of heavy oil and gas	10,000 t-CO ₂	1.2	1.7	8.8	0.8	0.7

*1 Scope: NTT Communications Corporation and 15 Group companies in Japan

*2 CO₂ emissions were calculated using emission factors obtained from electric power companies

Other Greenhouse Gas Emissions (Converted to CO ₂ Equivalents)	Unit	FY2016	FY2017	FY2018*	FY2019*	FY2020*
Total emissions	t-CO ₂	16	13.7	13.1	12.1	3088.0
CH ₄	t-CO ₂	0.3	0.2	0.5	0.3	63.1
N ₂ O	t-CO ₂	11.2	9.1	7.2	6.4	32.8
HFC	t-CO ₂	4.5	4.4	5.4	5.4	2992.1

*Scope: NTT Communications Corporation and 15 Group companies

*Emissions from Company vehicles, telecommunications buildings (including data centers), and offices Figures retroactively adjusted to reflect changes in the scope of calculation.

Power Consumption (Scope 2)	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Power Consumption (Scope 2)	100 million kWh	7.1	7.3	4.9	4.9	4.5

*Scope: NTT Communications Corporation and 15 Group companies

Overall Amounts of Electricity Generated by Solar Panels at Data Centers	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
Overall amounts of electricity generated by solar panels at data centers	kWh	377,689	372,069	367,108	344,848	359,542

Goods Transportation Volume under the Revised Energy Conservation Law	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
Total volume	10,000 tonne-kilometers	32.9	36.0	38.6	31.7	25.4
Invoices	10,000 tonne-kilometers	5.7	5.0	4.5	3.9	4.1
Connection notes	10,000 tonne-kilometers	1.8	1.3	0.4	0.3	0.2
Sales promotion tools	10,000 tonne-kilometers	1.8	0.4	0.1	0	0
Telecommunications equipment dismantled	10,000 tonne-kilometers	3.8	6.0	11.7	7.8	9.6
Waste	10,000 tonne-kilometers	4.3	5.2	4.4	4.3	2.2
Other	10,000 tonne-kilometers	15.4	18.2	17.5	15.5	9.2

Scope: NTT Communications Corporation

Fuel Consumption by Company Vehicles	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Total volume	10,000 liters	27.1	18.3	12.9	10.1	5.7
Gasoline	10,000 liters	25.1	16.5	12.1	9.3	5.0
Diesel	10,000 liters	2	1.8	0.8	0.8	0.7

*Scope: NTT Communications Corporation and 15 Group companies in Japan

NTT Communications Group Final Waste Disposal and Total Waste Generation	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Office waste	Tonnes	26.9	37.3	31.5	22.6	10.5
Construction waste	Tonnes	105.4	183.4	187.1	282.3	287.7
Dismantled telecommunications equipment	Tonnes	6.6	0.3	0.3	0.2	3.1
Volume of Waste Generated	Tonnes	14,818.40	261,388.8	11,149.8	14,579.0	19,456

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Total Volume and Final Disposal Ratio of Dismantled Telecommunications Equipment	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Total Volume	Tonnes	1,472.6	2,704.9	4,512.9	2,892.4	3,729.5
Waste	Tonnes	0.2	0.3	0.3	0.2	3.1
Communication cables	Tonnes	293.4	430.1	617.2	444	746.1
Other	Tonnes	847.6	1,500.1	2,310.1	1,397.1	1,814
Switching equipment	Tonnes	331.5	774.4	1,585.2	1,051.20	1,164
Final disposal ratio	%	0.01	0.01	0.01	0.01	0.08

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Volume of Reused Fiber-optic Cable	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Volume of reused fiber-optic cable	km	20	4.6	2.2	1.3	1.2

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Construction Waste Generation and Final Disposal Ratio	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Waste generated	Tonnes	11,132	20,918	4,434	9668	14,685
Final disposal ratio	%	0.9	0.9	4.2	2.9	2.0

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Total Office Waste and Final Disposal Ratio	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Volume recycled	Tonnes	2,072.6	2,363.4	2,049.1	1,943.1	995.9
Total waste generated	Tonnes	2,155.3	2,516.0	2,202.8	2,018.2	1,041.3
Final disposal rate	%	1.2	1.5	1.4	1.1	1.0

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Total and Office Paper Use per Employee	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Total paper use	Tonnes	322	280	218	174.2	46.8
Recycled paper	Tonnes	-	-	-	129.8	25.8
Environmentally sound, virgin wood pulp paper	Tonnes	-	-	-	34.5	15.1
Other virgin wood pulp paper	Tonnes	-	-	-	9.9	6.0
Number of sheets	Sheets	6,383	5,480	4,224	3,585	951

*Scope: NTT Communications Corporation and 15 Group companies in Japan

NOx Emissions	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Total Emissions	Tonnes	350	279.7	225.5	193.6	155.5
Electricity consumption	Tonnes	78.0	72.7	67.8	65.4	67.3
Gas consumption	Tonnes	1.0	0.6	0.6	0.4	0.3
Heavy oil consumption	Tonnes	4.0	6.9	2.0	2.4	1.7
Gasoline and diesel consumption	Tonnes	268.0	199.5	155.2	125.3	86.1

*Scope: NTT Communications Corporation and 15 Group companies in Japan

SOx Emissions	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Total Emissions	Tonnes	40	44	26	25	25
Electricity consumption	Tonnes	35	36.4	22.6	21.8	22.4
Gas consumption	Tonnes	-	-	-	-	-
Heavy oil consumption	Tonnes	4.0	6.9	2.0	2.4	1.7
Gasoline and diesel consumption	Tonnes	2.0	1.4	1.4	1.2	0.9

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Volume of Specified Halons Used in Fire-extinguishing Equipment	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Volume of specified halons used in fire-extinguishing equipment	Tonnes	143.0	143.0	142.6	142.6	142.6

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Volume of Specified CFCs Used in Air-conditioning Systems	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
CFC	Tonnes	0	0	0	0	0
HCFC	Tonnes	14.0	14.0	12.7	3.8	3.3
HFC	Tonnes	262.0	264.0	270.4	254.3	249.9

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Asbestos Emissions	Unit	FY2016	FY2017	FY2018	FY2019	FY2020*
Asbestos emissions	Tonnes	0	0	0	0	0

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Number of Transformers Stored	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
Number of transformers stored	Units	1	0	0	0	6.0

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Number of Capacitors Stored	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
High-voltage capacitors	Units	0	0	0	0	0
Low-voltage capacitors	Units	1	0	0	0	2

Scope: NTT Communications Corporation

Number of Electric Ballasts Stored	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
Number of electric ballasts stored	Units	1,537	1,480	1,488	123	363

*Scope: NTT Communications Corporation and 15 Group companies in Japan

Society

Social Contribution Activities	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
Preservation of the Natural Environment						
Number of projects	Projects	-	16	21	28	17
Number of participants	Persons	-	1,376	1,095	1,019	577
Activity expenditure	Yen	-	17,449,529	7,523,153	7,425,925	2,191,600
Social Welfare						
Number of projects	Projects	-	34	23	37	24
Number of participants	Persons	-	1,495	7	120	249
Activity expenditure	Yen	-	5,899,112	28,065,924	3,313,607	1,593,800
Promotion of Education and Culture						
Number of projects	Projects	-	9	11	16	11
Number of participants	Persons	-	29	163	413	142
Activity expenditure	Yen	-	5,500,650	3,438,860	9,419,971	1,141,356,800
Regional Development and Exchange						
Number of projects	Projects	-	5	7	9	4
Number of participants	Persons	-	8	147	298	22
Activity expenditure	Yen	-	548,000	11,760,000	5,144,900	1,003,300
International Exchange						
Number of projects	Projects	-	0	3	3	-
Number of participants	Persons	-	0	0	0	-
Activity expenditure	Yen	-	0	5,006,000	0	-
Promotion of Sports						
Number of projects	Projects	-	6	4	2	-
Number of participants	Persons	-	287	378	2	-
Activity expenditure	Yen	-	3,203,200	11,760,000	20,000	-
Others						
Number of projects	Projects	-	5	2	3	-
Number of participants	Persons	-	85	1	41	-
Activity expenditure	Yen	-	16,257,851	33,200	12,000	-
Total						
Number of projects	Projects	0	75	71	98	56
Number of participants	Persons	0	3,280	1,791	1,893	990
Activity expenditure	Yen	0	48,858,342	67,587,137	25,336,403	1,146,145,500

Japan Rugby Top League Fundraising Led by Shining Arcs (NTT Communications)

Season	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
Money donated (yen)	404,800	About 2 million	2,306,040	2,270,170	2,252,561	805,643
Participating team(s)	NTT Communications	All Top League teams	All Top League teams	All Top League teams	All Top League teams	All Top League teams
Recipient and use of funds	Donated to the Miyagi Rugby Football Union	Invited children from disaster-affected regions to a Japanese national rugby team game held in June 2014	Held charity event for children from the city of Kamaishi, Iwate Prefecture (October 24, 2015) and invited children from Kamaishi to the LIXIL CUP 2016 rugby game	Held rugby classes in areas affected by the Kumamoto earthquake	Provided career education and rugby classes in the Tohoku region	Donated to disaster-affected regions through the Central Community Chest of Japan (Red Feather)

Season	2018-2019	2019-2020	2019-2021
Money donated (yen)	1,390,002	170,680	-
Participating team(s)	All Top League teams	NTT Communications	-
Recipient and use of funds	Donated to disaster-affected regions through the Central Community Chest of Japan (Red Feather)	Donated to help resolve global hunger-related issues through the NPO TABLE FOR TWO International	-

Employee Data	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
Number of Employees* ¹						
Non-consolidated	Persons	6,350	6,250	6,150	5,500	5,533
Male	Persons	5,350	5,250	5,150	4,600	4,552
Female	Persons	1,000	1,000	1,000	900	981
Consolidated	Persons	21,550	22,050	23,300	11,500	11,602
Ratio of basic salary and remuneration per employee by gender						
Managerial positions						
Base salary		-	-	-	-	1:1.02
Total remuneration		-	-	-	-	1:1.03
General positions						
Base salary		-	-	-	-	1:1.17
Total remuneration		-	-	-	-	1:1.17
Percentage of women in managerial positions* ³	%	4.8	5.4	6.1	6.7	7.2
Turnover rate* ⁴	%	3.4	3.2	4.1	3.6	2.4
New employees (foreign nationals)* ⁵	Persons	201 (34)	203 (16)	237 (10)	203 (7)	203 (5)
Male	Persons	128 (14)	136 (9)	163 (7)	137 (4)	137 (2)
Female	Persons	73 (20)	67 (7)	74 (3)	66 (3)	66 (3)
Number of mid-career hires	Persons	34	19	60	50	76
Percentage of mid-career hires among new hires	%	17	9	24	17	27
Rehiring rate (%)* ⁵	Persons	43	45	57	57	47
Employees with Disabilities* ⁶						
Non-consolidated	%	2.1	2.2	2.2	2.4	2.4
Non-consolidated and domestic Group companies* ⁷	%	2.0	2.2	2.1	2.3	2.3

*1 As of March 31 for each fiscal year.

*2 Same salary structure applied to both male and female employees; differences are due to age structure, grade structure, etc., and the ratio is female to male

*3 As of March 31 for each fiscal year. Scope: NTT Communications Corporation, including seconded employees.

*4 As of March 31 for each fiscal year. Scope: NTT Communications Corporation, excluding seconded employees.

*5 As of April 1 for each fiscal year. Scope: NTT Communications Corporation.

*6 As of June 1 of the following year for each fiscal year.

*7 NTT Communications Corporation and 9 domestic Group companies.

Number of Employees Who Took Maternity, Childcare, or Nursing-care Leave	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
Maternity leave	Persons	74	84	63	55	54
Childcare leave	Persons	152	89	173	121	98
Female	Persons	141	84	161	111	92
Male	Persons	11	5	12	11	6
Total number of reinstated employees from childcare leave	Persons	77	64	82	70	77
Female	Persons	67	58	72	61	60
Male	Persons	10	6	10	9	17
Total number of employees who were still with the Company as of 12 months after reinstatement from childcare leave* ¹	Persons	74	64	78	67	74
Female	Persons	65	58	68	59	58
Male	Persons	9	6	10	8	16
Reinstatement rate* ² (%) of employees after childcare leave	%					
Female	%	100.0	100.0	96.0	96.8	96.8
Male	%	100.0	100.0	90.9	100.0	100.0
Retention rate* ³ (%) of employees after childcare leave	%					
Female	%	97.0	100.0	94.4	96.7	96.7
Male	%	90.0	100.0	100.0	88.9	94.1
Nursing care leave	Persons	3	4	4	8	8
Female	Persons	2	2	3	5	4
Male	Persons	1	2	1	3	4
Average number of paid leave days taken		17.5	17.4	17.7	16.2	14.0
Average paid leave acquisition rate	%	88	87	89	81	70
Resignation without reinstatement	Persons					
Female	Persons	0	0	3	2	2
Male	Persons	0	0	1	0	0

*1 Number of reinstated employees after childcare leave in fiscal 2019 that were still with the Company 12 months later

*2 (Number of reinstated employees in fiscal 2020 ÷ (Number of reinstated employees in fiscal 2020 + Number of employees who resigned without reinstatement from childcare leave in fiscal 2020))

*3 (Number of employees who were still with the Company as of 12 months after reinstatement from childcare leave in fiscal 2019 ÷ Number of reinstated employees from childcare leave in fiscal 2019)

Number of Workplace Accidents (Occupational Accidents)	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
Number of workplace accidents (occupational accidents)	Cases	3	4	5	4	1

Governance

Information Security Training Attendance	Unit	FY2016	FY2017	FY2018	FY2019	FY2020
Information security training (total)	Persons	15,753	13,050	15,055	11,641	16,449
Companywide security training/assessment of understanding	Persons	15,635	12,928	14,941	11,527	16,291
Training programs for managers and leaders in charge of implementing security management	Persons	118	122	114	114	158