ESG Data

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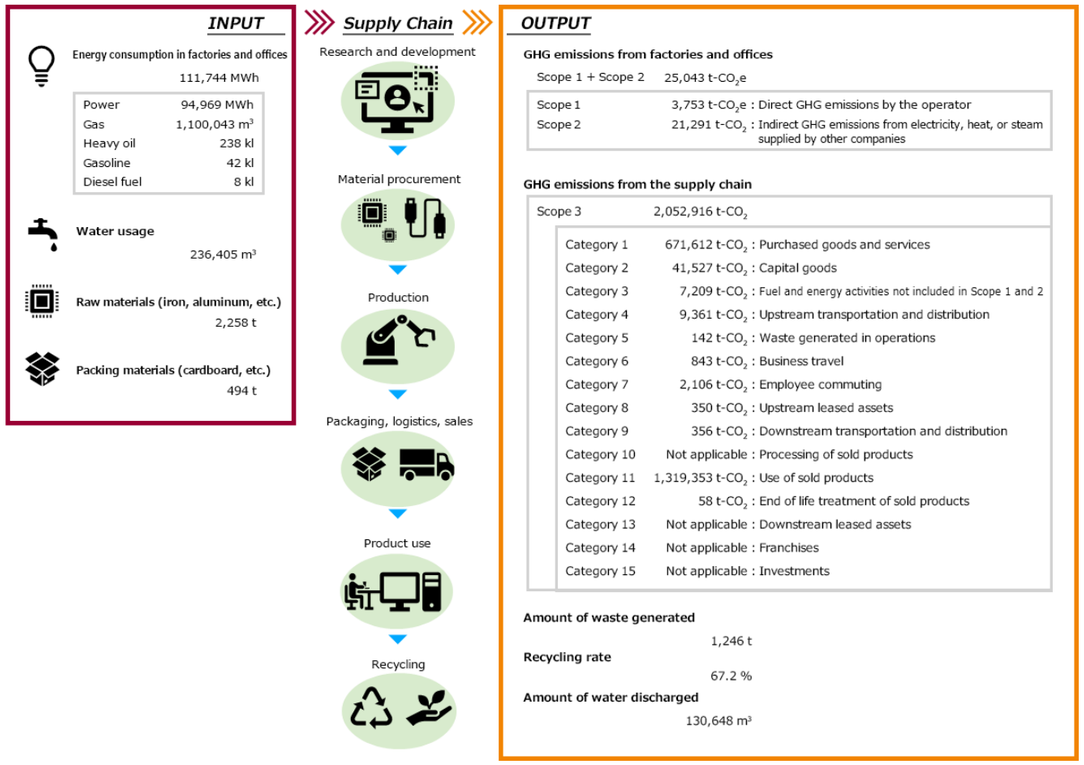
Material Flow

This shows Advantest's material flow.

Material Flow (FY2021)



Data Collection

We are collecting data on sustainability and provide them in Excel format.

Environmental Data

Energy

	Item	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Energy Consumption and Power Generation	Energy consumption	Japan	MWh	42,827	45,338	42,903	44,609	43,537
		Overseas	MWh	47,767	55,159	61,141	63,507	68,206
		Total	MWh	90,594	100,497	104,044	108,116	111,744
	Electricity consumption	Japan	MWh	34,771	37,361	37,334	40,038	40,321
		Overseas	MWh	36,430	39,932	44,726	50,620	54,648
		Total	MWh	71,201	77,294	82,059	90,658	94,969
	Gas consumption	Japan	m^3	331,076	316,752	131,864	21,773	21,440
		Overseas	m^3	897,425	1,224,000	1,322,043	1,044,524	1,078,604
		Total	m^3	1,228,501	1,540,751	1,453,906	1,066,296	1,100,043
	Heavy oil consumption	Japan	kl	268	277	263	312	190
		Overseas	kl	45	40	41	24	48
		Total	kl	313	317	304	337	238
	Gasoline consumption	Japan	kl	47	46	53	43	42
		Overseas	kl	0	0	0	0	0
		Total	kl	47	46	53	43	42
	Diesel fuel consumption	Japan	kl	11	13	12	9	8
		Overseas	kl	0	0	0	0	0
		Total	kl	11	13	12	9	8
	Renewable power purchased	Japan	MWh	0	0	0	8,327	16,859
		Overseas	MWh	0	0	0	0	0
		Total	MWh	0	0	0	8,327	16,859
	Amount of Tradable Green Certificate purchases	Japan	MWh	0	0	0	0	0
		Overseas	MWh	9,200	9,200	23,072	31,629	33,994
		Total	MWh	9,200	9,200	23,072	31,629	33,994

	Item	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
	Total quantity of renewable power	Japan	MWh	0	0	0	8,327	16,859
		Overseas	MWh	9,200	9,200	23,072	31,629	33,994
		Total	MWh	9,200	9,200	23,072	39,956	50,853
	Renewable Power Percentage	Japan	%	0.0	0.0	0.0	20.8	41.8
		Overseas	%	25.3	23.0	51.6	62.5	62.2
		Total	%	12.9	11.9	28.1	44.1	53.5
	Power generation of solar power generation systems (Electricity sold)	Japan	MWh	0	0	0	0	0
		Overseas	MWh	1,494	525	0	0	0
		Total	MWh	1,494	525	0	0	0

* Values for the total quantity of renewable power are a tally of renewable power purchased and amount of tradable green certificate purchases.

GHG Emissions

	Item	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
GHG Emissions	Scope1 + Scope2 (* Scope 2 refers to the market based)	Japan	1,000t-CO_2e	18.88	19.68	19.14	16.25	11.83
		Overseas	1,000t-CO_2e	16.26	18.45	14.71	11.93	13.21
		Total	1,000t-CO_2e	35.14	38.13	33.85	28.18	25.04
	Scope1 *1	Japan	1,000t-CO_2e	1.71	1.86	1.44	1.43	1.23
		Overseas	1,000t-CO_2e	2.12	2.83	3.04	2.39	2.53
		Total	1,000t-CO_2e	3.83	4.68	4.48	3.81	3.75
	Scope2 (Location-Based)	Japan	1,000t-CO_2	17.80	18.68	18.22	18.82	17.46
		Overseas	1,000t-CO_2	18.34	19.61	21.33	18.91	20.40
		Total	1,000t-CO_2	36.14	38.29	39.54	37.73	37.86
	Scope2 (Market-Based)	Japan	1,000t-CO_2	17.17	17.82	17.70	14.83	10.60
		Overseas	1,000t-CO_2	14.14	15.62	11.67	9.54	10.69
		Total	1,000t-CO_2	31.31	33.45	29.37	24.37	21.29
	Scope3	Category1	1,000t-CO_2	-	489.53	400.46	482.02	671.61
		Category2	1,000t-CO_2	-	15.19	22.73	31.55	41.53
		Category3	1,000t-CO_2	-	3.58	3.71	6.94	7.21
		Category4	1,000t-CO_2	-	6.20	5.27	6.88	9.36
		Category5	1,000t-CO_2	-	0.18	0.15	0.16	0.14
		Category6	1,000t-CO_2	-	0.64	0.72	0.75	0.84
		Category7	1,000t-CO_2	-	1.84	2.04	1.81	2.11
		Category8	1,000t-CO_2	-	0.40	0.39	0.26	0.35

	Item	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
		Category9	1,000t-CO_2	-	0.55	0.33	1.01	0.36
		Category10	1,000t-CO_2	N/A				
		Category11	1,000t-CO_2	-	1,175.02	855.01	1,151.98	1,319.35
		Category12	1,000t-CO_2	-	0.04	0.04	0.05	0.06
		Category13	1,000t-CO_2	N/A				
		Category14	1,000t-CO_2	N/A				
		Category15	1,000t-CO_2	N/A				
		Total	1,000t-CO_2	-	1,693.16	1,290.84	1,683.41	2,052.92
	Total Emissions *2		1,000t-CO_2	-	1,731.30	1,324.69	1,711.59	2,077.96

* 1 : From FY2018 onward, GHG emissions (PFCs and SF_6), excluding those from energy sources, are included in the calculations.

* 2 : Total emissions, including Scope 3, have been calculated from FY2018 onward. The quantity of total emissions is calculated with Scope 2 as the market-based method.

* Referenced guidelines, electricity and fuel CO_2 emissions factors, and heat conversion coefficient

・Ministry of the Environment, "Basic Guidelines on Accounting for Greenhouse Gas Emissions throughout the Supply Chain"

・Ministry of the Environment, List of calculation methods and emission factors for calculating, reporting, and disclosure systems of Greenhouse Gas Emissions.

・CO_2 emission factors for overseas power consumption: Based on the emission factors announced by each electric company and government authorities of each country as well as those by country announced in IEA Emissions Factors 2021, which was issued by the International Energy Agency (IEA).

* Scope of calculations (Scope) of GHG emissions

・Scope 1: Direct GHG emissions by businesses themselves (fuel combustion, industrial processes)

・Scope 2: Indirect emissions due to use of electricity or heat/steam supplied by other companies

・Scope 3: Other indirect emissions, excluding those of Scopes 1 and 2 (emissions of other companies related to business activities)

Item	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
GHG emissions, excluding those from energy source	PFCs	t-CO_2e	47.15	9.04	5.94	9.54	12.31
	SF_6	t-CO_2e	291.84	146.49	170.72	304.27	440.33
	Total	t-CO_2e	338.99	155.53	176.65	313.80	452.64

Water, Waste

	Item	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Water	Water use	Japan	m^3	181,758	178,897	174,146	166,075	155,707
		Drinking water	m^3	53,596	59,601	58,073	58,722	55,646
		Ultra pure water (including in the total amount of drinking water)	m^3	1,191	1,639	1,754	1,540	1,264
		Industrial water	m^3	128,162	119,296	116,073	107,353	100,061
		Groundwater	m^3	0	0	0	0	0
		Overseas	m^3	66,987	101,429	86,692	84,196	80,698
		Total	m^3	248,746	280,325	260,838	250,271	236,405
	Drainage amount	Japan	m^3	54,324	59,927	62,001	58,389	49,950
		Drainage to sewage	m^3	15,993	17,611	16,894	17,258	16,384
		Drainage to public waters	m^3	38,331	42,316	45,107	41,131	33,566
		Overseas	m^3	66,987	101,429	86,692	84,196	80,698
		Total	m^3	121,311	161,355	148,693	142,585	130,648

* Overseas drainage amount has been calculated with the same values as the water use.

	Item	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Waste	Amount of waste generated	Japan	t	1,008	1,088	1,011	1,005	960
		Overseas	t	190	231	230	277	287
		Total	t	1,199	1,319	1,241	1,282	1,246
	Amount of hazardous waste generated	Japan	t	6	10	12	11	6
		Overseas	t	0	0	0	18	2
		Total	t	6	10	12	29	8
	Amount of waste recycled	Japan	t	633	694	618	634	616
		Overseas	t	115	136	155	200	222
		Total	t	749	830	773	834	837
	Recycling rate	Japan	%	62.8	63.8	61.1	63.1	64.1
		Overseas	%	60.6	58.8	67.6	72.1	77.3
		Total	%	62.5	62.9	62.3	65.1	67.2

* Waste generated and recycled in Japan are disclosed by weight, including valuable resources.
* As for one overseas office, it was excluded from the scope of waste generation and recycling from FY2021 due to the difficulty of aggregation, and the data has been recalculated retroactively.

Atmospheric emissions and chemicals

	Item	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Number of cases that exceeded air and water quality standard values	Emissions to the atmosphere	Japan	Cases	0	0	0	0	0
	Emissions to bodies of water	Japan	Cases	0	0	0	0	0

	Item	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Amount of air and water pollutants emitted	Emissions to the atmosphere Nox	Japan	kg	909	701	322	392	89
	Emissions to the atmosphere Sox	Japan	kg	663	450	224	302	37
	Emissions to the atmosphere Soot and smoke	Japan	kg	9	8	10	26	5
	Emissions to bodies of water (BOD)	Japan	kg	234	201	264	176	183
	Emissions to bodies of water (COD)	Japan	kg	160	173	220	215	145

	Item	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
PRTR data	PRTR substances released	Japan	t	0.31	0.46	0.19	0.08	0.21
	PRTR substances transferred	Japan	t	0.31	0.35	0.22	0.20	0.40

* Calculations include applicable substances whose annual use is less than the reported amount under the PRTR Law.

	Item	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
VOC data	Amount of VOCs used	Japan	t	2.75	2.75	2.75	2.58	2.39

* Applicable targets for calculation are substances subject to VOC surveys at Four Electrical and Electronic Industry Associations.

Environmental Communication

Item		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Environmental complaints	Complaints from stakeholders	Advantest Group	Cases	0	0	0	0	0
	Major violations of environmental laws and regulations		Cases	0	0	0	0	0

Environmental Education

Item	Boundary	Target (Persons)	Participants (Persons)	Participation ratio (%)
Participation in general environmental education	Japan	2,741	2,741	100.0
	Overseas	2,802	2,638	94.1
	Total	5,543	5,379	97.0

Environmental accounting

Japan

Targets: Seven bases in Japan (including consolidated subsidiaries), data collection period: April 2021 to March 2022

Environmental conservation costs

Unit: Mil. Yen

Cost classification	Main initiatives	Environmental capital investment	Cost
		FY2021	FY2021
1) Cost within the business area			
(1) Pollution control costs	Installation/repair of pollution prevention facilities, environmental measurement, and maintenance/inspection	0	54
(2) Global environmental conservation costs	Installation of energy-saving equipment/facilities	421	141
(3) Resource recycling costs	Waste processing/recycling and construction of water supply facilities	7	36
2) Upstream/downstream costs	Green procurement/purchasing and introduction/development of recycled packaging materials	0	5
3) Costs of management activities	Operation of environmental management systems, biotopes, and disclosure of environmental information	0	180
4) R&D costs	R&D of environmentally friendly products and manufacturing technologies	0	48,402
5) Social activity costs	Greening activities in surrounding areas	0	8
6) Environmental damage costs	Fines/lawsuits related to environmental remediation and conservation	0	0
Total		428	48,826

Environmental conservation effects

Unit: Mil. Yen

Effect classification	Main initiatives	Economic benefits
		FY2021
1) Economic impact		
(1) Reduction of energy usage fees	Reduction of energy usage fees by incorporating energy-saving equipment/facilities and energy-saving initiatives	0.85
(2) Gain from recycling sales	Gain from the sale of valuables (metal scrap, etc.)	21.92
(3) Decrease in treatment costs due to waste reduction	Decrease in waste liquid treatment costs due to wastewater processing facilities, etc.	0.88
Total		23.65

Effect classification	Main initiatives	Amount reduced/effectively used	
		FY2021	
2) Quantitative effects			
(1) Reduction of electricity consumption	Reduced electricity consumption due to the installation of energy-saving equipment/facilities and operational adjustments	Facilities :	59(MWh)
(2) Reduction of energy consumption	Reduced energy consumption due to the installation of energy-saving equipment/facilities and operational adjustments	Facilities :	212(GJ)
(3) Reduction of CO_2 emissions	Reduced CO_2 emissions due to the installation of energy-saving equipment/facilities and operational adjustments	Facilities :	27.69(t-CO_2)
(4) Effective utilization ofresources	Amount of recycled metal scrap, office paper, and waste plastics, etc.		784(t)
(5) Effective waste utilization ratio	Ratio of recycling versus total emissions of waste produced at business sites		64(%)

Overseas

Target: Nine overseas consolidated subsidiaries, data collection period: April 2021 to March 2022

Environmental conservation costs

Unit: Mil. Yen

Cost classification	Main initiatives	Cost
		FY2021
Global environmental conservation costs	Installation of energy-saving equipment/facilities and improvement of facilities, etc.	3.61
Resource recycling costs	Waste processing costs, etc.	14.07
Costs of management activities	Operation of environmental management systems, fees for environment-related seminars, etc.	17.90
Social activity costs	Greening activities in surrounding areas, donations to social organizations, etc.	26.78
Total		62.36

Environmental conservation effects

Unit: Mil. Yen

Effect classification	Main initiatives	Economic benefits
		FY2021
1) Economic impact		
(1) Reduction of electricity usage fees	Reduction of electricity usage fees by incorporating energy-saving equipment/facilities	14.79
(2) Gain from recycling sales	Gain from the sale of valuables	0.43
Total		15.22

Effect classification	Main initiatives	Amount reduced/ effectively used
		FY2021
2) Quantitative effects		
(1) Reduction of electricity usage fees	Reduction of electricity usage fees by incorporating energy-saving equipment/facilities	986(MWh)
(2) Reduction of CO_2 emissions	Reduced CO_2 emissions due to the installation of energy-saving equipment/facilities	468.90(t-CO_2)

Social Data

Human Resources

	Boundary	Item	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Employee by region	Japan	Male	Person	2,153	2,152	2,146	2,213	2,220
		Female	Person	400	416	466	490	504
		Total	Person	2,553	2,568	2,612	2,703	2,724
		Ratio of Female	%	15.7	16.2	17.8	18.1	18.5
		Ratio by region	%	54.1	52.0	47.5	47.0	42.1
	Asia	Male	Person	710	771	836	905	959
		Female	Person	217	236	273	290	321
		Total	Person	927	1,007	1,109	1,195	1,280
		Ratio of Female	%	23.4	23.4	24.6	24.3	25.1
		Ratio by region	%	19.6	20.4	20.2	20.8	19.8
	Europe	Male	Person	580	613	676	720	763
		Female	Person	125	128	143	153	157
		Total	Person	705	741	819	873	920
		Ratio of Female	%	17.7	17.3	17.5	17.5	17.1
		Ratio by region	%	14.9	15.0	14.9	15.2	14.2
	North America	Male	Person	448	512	764	756	1,178
		Female	Person	88	108	199	229	362
		Total	Person	536	620	963	985	1,540
		Ratio of Female	%	16.4	17.4	20.7	23.2	23.5
		Ratio by region	%	11.4	12.6	17.5	17.1	23.8
	Overseas Total	Male	Person	1,738	1,896	2,276	2,381	2,900
		Female	Person	430	472	615	672	840
		Total	Person	2,168	2,368	2,891	3,053	3,740
		Ratio of Female	%	19.8	19.9	21.3	22.0	22.5
		Ratio by region	%	45.9	48.0	52.5	53.0	57.9
	Total	Male	Person	3,891	4,048	4,422	4,594	5,120
		Female	Person	830	888	1,081	1,162	1,344
		Total	Person	4,721	4,936	5,503	5,756	6,464
		Ratio of Female	%	17.6	18.0	19.6	20.2	20.8

* Boundary: Advantest Group

	Scope	Item	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Number of employees by employment type	Regular Employees	Male	Person	3,705	3,827	4,108	4,242	4,739
		Female	Person	752	803	940	1,019	1,202
		Total	Person	4,457	4,630	5,048	5,261	5,941
	Non-regular Employees	Male	Person	186	221	314	352	381
		Female	Person	78	85	141	143	142
		Total	Person	264	306	455	495	523
	Total	Male	Person	3,891	4,048	4,422	4,594	5,120
		Female	Person	830	888	1,081	1,162	1,344
		Total	Person	4,721	4,936	5,503	5,756	6,464

* Boundary: Advantest Group

	Boundary	Item	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Number of employees in management positions	Japan	Male	Person	513	503	483	486	465
		Female	Person	11	12	13	15	18
		Total	Person	524	515	496	501	483
		Ratio of Female	%	2.1	2.3	2.6	3.0	3.7
		Ratio by region	%	46.0	44.5	42.1	41.4	38.0
		Of which, were hired locally	Person	522	514	495	501	483
		Ratio of locally-hired employees appointed	%	99.6	99.8	99.8	100.0	100.0
	Asia	Male	Person	202	210	218	226	225
		Female	Person	40	40	40	43	45
		Total	Person	242	250	258	269	270
		Ratio of Female	%	16.5	16.0	15.5	16.0	16.7
		Ratio by region	%	21.3	21.6	21.9	22.2	21.2
		Of which, were hired locally	Person	227	233	244	255	257
		Ratio of locally-hired employees appointed	%	93.8	93.2	94.6	94.8	95.2

	Boundary	Item	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
	Europe	Male	Person	163	170	183	200	214
		Female	Person	14	16	17	19	23
		Total	Person	177	186	200	219	237
		Ratio of Female	%	7.9	8.6	8.5	8.7	9.7
		Ratio by region	%	15.6	16.1	17.0	18.1	18.6
		Of which, were hired locally	Person	174	184	194	215	232
		Ratio of locally-hired employees appointed	%	98.3	98.9	97.0	98.2	97.9
	North America	Male	Person	176	187	204	198	246
		Female	Person	19	19	21	24	36
		Total	Person	195	206	225	222	282
		Ratio of Female	%	9.7	9.2	9.3	10.8	12.8
		Ratio by region	%	17.1	17.8	19.1	18.3	22.2
		Of which, were hired locally	Person	175	197	217	217	276
		Ratio of locally-hired employees appointed	%	89.7	95.6	96.4	97.7	97.9
	Overseas Total	Male	Person	541	567	605	624	685
		Female	Person	73	75	78	86	104
		Total	Person	614	642	683	710	789
		Ratio of Female	%	11.9	11.7	11.4	12.1	13.2
		Ratio by region	%	54.0	55.5	57.9	58.6	62.0
		Of which, were hired locally	Person	576	614	655	687	765
		Ratio of locally-hired employees appointed	%	93.8	95.6	95.9	96.8	97.0
	Total	Male	Person	1,054	1,070	1,088	1,110	1,150
		Female	Person	84	87	91	101	122
		Total	Person	1,138	1,157	1,179	1,211	1,272
		Ratio of Female	%	7.4	7.5	7.7	8.3	9.6
		Of which, were hired locally	Person	1,098	1,128	1,150	1,188	1,248
		Ratio of locally-hired employees appointed	%	96.5	97.5	97.5	98.1	98.1

* Boundary: Advantest Group

* Definition of "management position": Level 7 or higher in a 10-level status system. Of the 10 levels, job levels 1 to 6 are general employees, while levels 7 to 10 are designated as management positions.

	Item		Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Number of employees by age group	Age - 29	Male	Person	283	329	380	443	627
		Female	Person	116	118	156	156	215
		Total	Person	399	447	536	599	842
	Age 30 - 39	Male	Person	693	692	752	793	969
		Female	Person	179	197	225	258	291
		Total	Person	872	889	977	1,051	1,260
	Age 40 - 49	Male	Person	1,499	1,411	1,394	1,347	1,328
		Female	Person	293	297	318	334	356
		Total	Person	1,792	1,708	1,712	1,681	1,684
	Age 50 - 59	Male	Person	1,099	1,236	1,355	1,415	1,519
		Female	Person	142	163	208	228	289
		Total	Person	1,241	1,399	1,563	1,643	1,808
	Age 60 -	Male	Person	131	159	227	244	296
		Female	Person	22	28	33	43	51
		Total	Person	153	187	260	287	347
	Total	Male	Person	3,705	3,827	4,108	4,242	4,739
		Female	Person	752	803	940	1,019	1,202
		Total	Person	4,457	4,630	5,048	5,261	5,941

* Boundary: Advantest Group (regular employees only)

Recruitment and turnover

	Boundary	Item	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Number of new hires	Japan	Male	Person	8	20	43	41	49
		Female	Person	0	4	14	15	18
		Total	Person	8	24	57	56	67
		Ratio of Female	%	0.0	16.7	24.6	26.8	26.9
		Ratio by region	%	4.1	7.2	9.7	14.7	6.2
	Asia	Male	Person	93	102	97	110	147
		Female	Person	20	24	47	30	45
		Total	Person	113	126	144	140	192
		Ratio of Female	%	17.7	19.0	32.6	21.4	23.4
		Ratio by region	%	57.7	37.6	24.5	36.7	17.7
	Europe	Male	Person	26	54	62	58	67
		Female	Person	14	10	18	17	12
		Total	Person	40	64	80	75	79
		Ratio of Female	%	35.0	15.6	22.5	22.7	15.2
		Ratio by region	%	20.4	19.1	13.6	19.7	7.3
	North America	Male	Person	29	95	223	77	563
		Female	Person	6	26	84	33	181
		Total	Person	35	121	307	110	744
		Ratio of Female	%	17.1	21.5	27.4	30.0	24.3
		Ratio by region	%	17.9	36.1	52.2	28.9	68.8
	Overseas Total	Male	Person	148	251	382	245	777
		Female	Person	40	60	149	80	238
		Total	Person	188	311	531	325	1,015
		Ratio of Female	%	21.3	19.3	28.1	24.6	23.4
		Ratio by region	%	95.9	92.8	90.3	85.3	93.8
	Total	Male	Person	156	271	425	286	826
		Female	Person	40	64	163	95	256
		Total	Person	196	335	588	381	1,082
		Ratio of Female	%	20.4	19.1	27.7	24.9	23.7

* Boundary: Advantest Group (regular employees only)

	Boundary	Item	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Number of employee turnover	Japan	Male	Person	32	28	32	13	21
		Female	Person	8	5	12	2	4
		Total	Person	40	33	44	15	25
		Ratio of Female	%	20.0	15.2	27.3	13.3	16.0
		Ratio by region	%	31.7	23.6	30.3	8.6	7.3
	Asia	Male	Person	30	37	34	37	89
		Female	Person	4	4	11	16	15
		Total	Person	34	41	45	53	104
		Ratio of Female	%	11.8	9.8	24.4	30.2	14.4
		Ratio by region	%	27.0	29.3	31.0	30.5	30.2
	Europe	Male	Person	24	22	18	9	17
		Female	Person	1	7	1	4	6
		Total	Person	25	29	19	13	23
		Ratio of Female	%	4.0	24.1	5.3	30.8	26.1
		Ratio by region	%	19.8	20.7	13.1	7.5	6.7
	North America	Male	Person	21	32	29	84	144
		Female	Person	6	5	8	9	48
		Total	Person	27	37	37	93	192
		Ratio of Female	%	22.2	13.5	21.6	9.7	25.0
		Ratio by region	%	21.4	26.4	25.5	53.4	55.8
	Overseas Total	Male	Person	75	91	81	130	250
		Female	Person	11	16	20	29	69
		Total	Person	86	107	101	159	319
		Ratio of Female	%	12.8	15.0	19.8	18.2	21.6
		Ratio by region	%	68.3	76.4	69.7	91.4	92.7
	Total	Male	Person	107	119	113	143	271
		Female	Person	19	21	32	31	73
		Total	Person	126	140	145	174	344
		Ratio of Female	%	15.1	15.0	22.1	17.8	21.2
	Turnover ratio	Male	%	2.90	3.21	2.95	3.48	6.39
		Female	%	2.65	2.79	3.99	3.30	7.16
		Total	%	2.85	3.14	3.13	3.45	6.54

* Boundary: Advantest Group (regular employees only)

* From December 2019 onward, the method of including employees who leave at the end of the month within that month's tally was changed to include them in the count for the following month.

Diversity and Inclusion, Working Style

	Boundary		Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Number of re-employment system users [*1]	Advantest Corporation (standalone)		Person	30	33	54	60	74
Employment rate of people with disabilities	Advantest Corporation, Advantest Green, Advanfacilities		%	2.49	2.48	2.66	2.79	2.83
(Legal ratio of employment of people with disabilities)			%	2.00	2.20	2.20	2.20	2.30
(Average ratio of employment of people with disabilities in the private sector nationwide)			%	1.97	2.05	2.11	2.15	2.20
Number of employees taking childcare leave	Advantest Corporation (standalone)	Male	Person	1	1	4	2	4
		Female	Person	34	31	25	27	24
		Total	Person	35	32	29	29	28
Number of employees who applied for shortened working hours for childcare	Advantest Corporation (standalone)	Male	Person	0	1	2	3	3
		Female	Person	61	60	71	76	75
		Total	Person	61	61	73	79	78
Number of employees taking nursing/care leave	Advantest Corporation (standalone)	Nursing leave	Person	37	54	38	40	41
		Care leave	Person	11	21	4	3	10
		Total	Person	48	75	42	43	51
Ratio of employees taking paid leave	Advantest Corporation (standalone)		%	71.3	70.7	68.7	68.7	73.7
Number of employees taking accumulated leave	Advantest Corporation (standalone)		Person	95	81	87	124	317
Average amount of overtime per individual [*2]	Advantest Group (Japan/China/South Korea)		Hours	13.0	15.0	14.3	16.9	19.7
Ratio of occupational accidents [*3]	Advantest Corporation (standalone)		Frequency rate	0.4	0.4	0.2	0.0	0.0
	Advantest Group		Frequency rate	0.5	0.3	0.2	0.1	0.1

* 1: The number of individuals who have newly started to use the re-employment system. (Those who have continued to use the system from the previous year were not included.)

* 2: Overtime hours for management positions with no subordinates are included for South Korea only.

* 3: The number of fatalities and injuries due to occupational accidents per one million working hours. The data includes temporary employees from FY2019 onward.

Employee Education

	Training Category	Target	Participants (Persons)	Training hours (hours)
Status of education and training implementation	Business training (human resource management, etc.)	Management / General employees	726	6,158
	Technical training (technology)	Management / General employees	1,045	2,454
	E-learning (human resource management, etc.)	Management / General employees	2,573	1,573
	New recruit training (per level)	Management / General employees	44	17,019
	Languages/TOEIC (global)	Management / General employees	890	9,641
	External seminars (business skills, etc.)	Management / General employees	158	3,271
	Total		5,436	40,116

* Boundary: Advantest Corporation (standalone)

	Education Category	Target	Number of participants (total No. of individuals)	Hours of education (hours)
Status of safety and health education implementation	General education	Management / General employees	4,870	2,600
	Technical education	Management / General employees	1,136	3,167

* Boundary: Advantest Group

Governance Data

Governance System (As of June 24, 2022)

Structure	Company with an Audit and Supervisory Committee
Number of Directors	11 (male : 10 / female : 1)
Number of Outside Directors	5 (45.5%)
Number of Non-Japanese Directors	2 (18.2%)
Term of Office for Directors Who Are Not Audit and Supervisory Committee Members	1 year
Number of Directors Who Are Audit and Supervisory Committee Members	3
Number of Outside Directors	2
Term of Office for Directors Who Are Audit and Supervisory Committee Members	2 years
Nomination and Compensation Committee	Inplace
Nomination and Compensation Committee Members	3 Directors (Two of which are outside Directors)
Nomination and Compensation Committee Chair	Outside Director
Performance-based Compensation System	In Place
Executive Officer System	In Place
Executive Officers	24
Non-Japanese Executive Officers	11

Executive Compensation

Officer Category	Total Compensation (Mil. yen)	Total Compensation by category (Mil. yen)					Number of Eligible Directors
		Cash Compensation		Non-cash Compensation			
		Fixed Compensation	Performance-based Compensation	Stock Options	Restricted stock compensation	Performance-based Stock remuneration	
Directors (excluding Audit and Supervisory Committee members) (excluding Outside Directors)	800	186	239	66	95	214	5
Directors (Audit and Supervisory Committee members) (excluding Outside Directors)	43	43	—	—	—	—	1
Outside Directors (excluding Audit and Supervisory Committee members)	40	40	—	—	—	—	3
Outside Directors (Audit and Supervisory Committee members)	29	29	—	—	—	—	2

1. As of March 31, 2022, the number of directors (excluding outside directors and directors who are Audit and Supervisory Committee members) and outside directors were five and five.
2. Performance-based bonuses are paid to directors (excluding outside directors and directors who are Audit and Supervisory Committee members) as performance-based compensation.
3. For stock options granted by FY2020, the amount of stock options are recorded as expenses for FY2021 in accordance with generally accepted accounting principles in Japan. No stock options were granted in FY2021. Restricted stock compensation and performance-based stock remuneration are recorded as expenses in accordance with generally accepted accounting principles in Japan for FY2021.

Approach to Data Aggregation and Third-Party Verification

We have defined our approach to data aggregation and have subjected our obtained data to third-party verification in order to strengthen the reliability of the data we disclose.

Approach to and Methods for Environmental Data Collection

Targets and period of environmental data collection

Period	April 1, 2021, to March 31, 2022
Targets	Advantest Corporation and its major domestic/overseas consolidated subsidiaries

Item	Region	2017	2018	2019	2020	2021
Aggregation range (Those in Japan includes including affiliated companies)	Japan	8 bases	8 bases	7 bases	7 bases	7 bases
	Overseas	Major overseas affiliates 9 companies				
Employee coverage	Global	–	–	–	–	85.6%

Approach and methods for GHG-related data collection

Quantity of GHG emissions from business facilities

Calculations are based on usage of electricity, heat, and fuel at business facilities, and usage of GHGs (for manufacturing processes, equipment, etc.)

CO_2 emissions (from energy) accompanying the use of energy	Calculations are performed by multiplying the usage amount of electricity, heat, and fuel (including fuel for vehicles, etc.) at each business facility against the CO_2 emission factors. When using renewable energy (including certificates), the CO_2 emission factors is set to zero.
GHG emissions from PFCs, etc. (with a non-energy origin)	Calculations are performed by multiplying the GHG emissions at each business facility against global warming potential values to convert into quantities of CO_2.

Referenced guidelines as well as energy and fuel CO_2 emission factors and heat conversion coefficient

Japan	Ministry of the Environment, "Basic Guidelines on Accounting for Greenhouse Gas Emissions throughout the Supply Chain" Ministry of the Environment, "Amount of Greenhouse Gas Emissions—List of Calculation Methods and Emission Coefficients within the Calculation/Reporting/ Disclosure System"
Overseas	Based on the emission factors announced by each electric company and government authorities of each country as well as those by country announced in IEA Emissions Factors, which was issued by the International Energy Agency (IEA).

Quantity of CO_2 emissions from purchased products and services ≪ Scope 3, Category 1 ≫

The quantity of CO_2 emissions from products and services purchased by Advantest is calculated by multiplying the corresponding primary unit in the "Global Embodied Energy and Emission Intensity based on the Standard Purchaser Price" (issued by the National Institute for Environmental Studies) per purchased item.
For items for which we are unable to separate transportation costs from the purchase prices, the quantity of emissions including transportation is not tallied under Category 4 "CO_2 emissions during transport from primary suppliers to our company," but such emissions are included in Category 1 emissions for calculation.

Quantity of CO_2 emissions during product usage ≪ Scope3, Category 11 ≫

The amount of CO_2 emissions during product usage is calculated by multiplying the emissions coefficients from the World category in "IEA Emissions Factors" against the lifetime electricity consumption of products on the market this fiscal year. The amount of CO_2 emissions during product use is calculated according to the following formula.

Numbers of units sold × Electricity consumption at operation × Annual hours of operation × Years used × CO_2 emissions coefficient

Among the semiconductor testing devices sold by the Advantest Group, CO_2 emissions calculations are for the SoC test systems and memory test systems.
The lifetime electricity consumption quantity assumes each product is used for 10 years, and calculations are performed by multiplying the amount of electricity consumed based on the product specification calculations for the target system against the number of units sold for the relevant product.

Scope3 calculation summary

	Category classification	Calculation summary
Category1	Purchased goods and services	The quantity of emissions of some datacenter usage, along with emissions from the resource collection stage up to the manufacturing stage for raw materials/ components sold by the Advantest Group and its purchased items
Category2	Capital goods	Emissions from manufacturing facilities, etc. in which the Advantest Group has invested
Category3	Fuel- and energy-related activities (not included in scope 1 or scope 2)	Emissions accompanying the procurement of fuel and energy used at Advantest Group business facilities
Category4	Upstream transportation and distribution	Emissions accompanying the transport of procured components and purchased products by the Advantest Group, and those accompanying the storage of such products
Category5	Waste generated in operations	Emissions accompanying the treatment of waste generated at business facilities of the Advantest Group
Category6	Business travel	Emissions due to business trips made by Advantest Group employees
Category7	Employee commuting	Emissions due to commuting by Advantest Group employees
Category8	Upstream leased assets	Emissions accompanying leased assets of the Advantest Group * Excludes those calculated under Scope 2
Category9	Downstream transportation and distribution	Emissions accompanying the transport of products sold by the Advantest Group
Category10	Processing of sold products	(N/A)
Category11	Use of sold products	Emissions accompanying electricity consumption due to use of Advantest Group products in customer businesses
Category12	End-of-life treatment of sold products	Emissions accompanying the disposal of products sold by the Advantest Group
Category13	Downstream leased assets	(N/A)
Category14	Franchises	(N/A)
Category15	Investments	(N/A)

Approach to and methods for data collection related to resources

Quantity of waste generated

The total weight of industrial waste and general waste generated from business facilities.
The amount of waste generated in Japan is tabulated and disclosed as weight including valuable materials.

Quantity of water used and discharged

Quantity of water used	The quantity of water used at business facilities (drinking water, industrial water, and groundwater). The purchased quantity is substituted for drinking water and industrial water.
Quantity of water discharged	The quantity of water generated at business facilities discharged to sewage and public waters. For business facilities for which the amount of water discharged cannot be readily determined, the amount of water used is considered to be the amount of water discharged.

Approach to and methods for data collection for other environmental data

Management of chemical substances

To ensure safe management of and compliance with laws and regulations on chemical substances, we implement registration, safety reviews, and control per bottle/package unit for chemical substances used in-house. Furthermore, SDSs, which are the foundation of chemical substance handling, are always available for viewing.

Quantity of chemical substances handled	The quantity of chemical substances purchased and used at each business facility is monitored and calculated.
Quantity of chemical substances emissions/transfers	The quantity of chemical substances emitted/transferred due to operations is calculated by multiplying the handled amount by coefficients.

Quantity of water pollutant discharge (BOD, COD)

The quantity is calculated by multiplying the discharged water concentration by the discharged quantity. This applies to business facilities with legal or other requirements (such as contracts).

Quantity of air pollutant emissions (NOx, SOx)

The quantity is calculated by multiplying the exhaust concentration by the exhaust quantity. This applies to business facilities with legal or other requirements (such as contracts).

Third-Party Assurance

Third-party assurance

Third-party assurance has been obtained from KPMG AZSA Sustainability Co., Ltd. to ensure increased reliability of selected social and environmental performance indicators included in the ESG Data on our website.

Independent Assurance Report