# ESG Data Book FY2022

Rakuten Group, Inc.



Data marked with  $\checkmark$  are subject to third-party assurance. Independent third-party assurance statement for FY2022 is available <u>here</u>.

### Notation in the Data Book

- Rakuten Group: Rakuten Group, including Rakuten Group, Inc.
- · Rakuten Group, Inc.: Rakuten Group, Inc. (non-consolidated)

Item					Coverage	Unit	FY2020	FY2021	FY2022	FY2022 Assurance
Environmento	ıl Data									
CO <sub>2</sub> emissions				Total*2	Rakuten Group	t-CO <sub>2</sub>	1,114,326	2,074,625	9,471,995	V
		•	Scope 1		Rakuten Group	t-CO <sub>2</sub>	2,705	1,647	1,745	V
		•	Saana 2	Location-based	Rakuten	+ 00	93,192	241,308	307,140	V
		_	Scope 2	Market-based	Group	t-CO <sub>2</sub>	66,494	169,935	268,476	V
			Scope 3		Rakuten Group	t-CO <sub>2</sub>	1,045,127	1,903,043	9,201,773	>
		Purchased good	ds and services	Category 1		t-CO <sub>2</sub>	176,669	673,142	1,606,349*3	V
		Capital goods		Category 2		t-CO <sub>2</sub>	572,413	N/A*1	967,391	<b>V</b>
		Fuel- and energ activities	y-related	Category 3		t-CO <sub>2</sub>	18,295	980,444	1,218,355	V
		Upstream trans distribution	sportation and	Category 4		t-CO <sub>2</sub>	138,039	N/A*1	478,254	V
		Waste generate operations	ed in	Category 5		t-CO <sub>2</sub>	772	416	11,585*4	V
	Scope 3 breakdown	Business travel		Category 6	Rakuten Group	t-CO <sub>2</sub>	5,507	550	3,982* <sup>5</sup>	V
		Employee comn	nuting	Category 7		t-CO <sub>2</sub>	5,968	6,820	7,581	V
		Upstream lease	ed assets	Category 8		t-CO <sub>2</sub>	37,464	N/A	1,457 <sup>*6</sup>	V
		Use of sold prod	ducts	Category 11		t-CO <sub>2</sub>	4,860	5,825	5,198	V
		End-of-life treat	tment of	Category 12		t-CO <sub>2</sub>	736	71	2,477 <sup>*7</sup>	V
		Franchises		Category 14		t-CO <sub>2</sub>	528	N/A	N/A	
		Investments		Category 15		t-CO <sub>2</sub>	83,875	235,775	4,899,145 <sup>*8</sup>	V
Energy consur	nption			Total		MWh	192,777	466,683	706,332	V
		Gas				MWh	10,264	8,171	8,436	V
	Fuel	Oil				MWh	3,568	691	874	V
				Total	Rakuten Group	MWh	178,909	457,822	697,022	V
	Electricity	•		Renewable	-: 300	MWh	34,337	94,477	81,103	V
			F	Renewable ratio		%	19.2	20.6	11.6	~
	Cooling					MWh	37	N/A	N/A	
Water withdro	Water withdrawal Total			Rakuten Group	1,000m <sup>3</sup>	215	142	193 <sup>*9</sup>	V	
Waste genera	tion			Total	Rakuten	t	5,231	1,288	3,370*10	~
	Recycled				Group	t	3,979	544	87 <sup>*11</sup>	V

<sup>\*1</sup> Scope 3 categories 2 and 4 from FY2021 were combined into category 1 as part of procurement.

<sup>\*&</sup>lt;sup>\*11</sup> For FY2022, only the amount of waste whose actual recycling was verified by documentation or other means is included.



<sup>\*2</sup> The scope 2 data used are market-based.

<sup>&</sup>lt;sup>3</sup> The increase in FY2022 is due to the change in the scope of data collection from 17 subsidiaries to Rakuten Group.

<sup>\*4</sup> The increase in FY2022 is due to the change in the scope of data collection from 4 sites to Rakuten Group.

<sup>\*5</sup> The increase in FY2022 is due to the change in the scope of data collection from 15 subsidiaries to Rakuten Group.

<sup>\*6</sup> Starting in FY2022, the calculation of emissions for category 8 includes emissions from the operation of event venues and some of the data centers that the Company rent.

<sup>&</sup>lt;sup>7</sup> The increase of 2,406t-CO<sub>2</sub> in FY2022 relating to Rakuten-branded products is due to the change in the scope of calculation, from disposal of packaging materials only, to the disposal of packaging and products themselves..

<sup>\*8</sup> The increase of 4,334,689t-CO<sub>2</sub> in FY2022 is due to the change in the scope of data collection which includes investment in listed equity, bonds, business loans, project finance, etc. For FY2021 reporting, the scope included investments in and loans to listed companies and project finance for businesses with investments of ¥1 billion or more (excluding consumer mortgages and motor vehicle loans). Additionally, the increase of 328,681t-CO<sub>2</sub> in FY2022 was due to the inclusion of Rakuten General Insurance and Rakuten Life Insurance in the scope of collection. The data collected are for Rakuten Bank, Rakuten Card, Rakuten General Insurance, and Rakuten Life Insurance. We exclude emissions from the LULUCF emissions.

<sup>&</sup>lt;sup>\*9</sup> The scope of data collection was expanded from 4 to 24 sites, resulting in a water withdrawal increase of 55,000m<sup>3</sup> in FY2022 for the newly added sites.

<sup>\*10</sup> The scope of data collection was expanded from 4 to 23 sites, resulting in a waste generation of 1,822t in FY2022 for the newly added sites.

### **■** Collection Period

FY2022 (January 1, 2022 – December 31, 2022)

### **■** Collection Scope

Rakuten Group (total of 55 domestic subsidiaries and 92 overseas subsidiaries) \*\* Comments are left in the applicable sections where scope of collection varies.

Major companies are listed below. For major consolidated subsidiaries, click <u>here</u>.

Segment	Domestic	Overseas
Internet Service	<ul> <li>Rakuten Group, Inc.</li> <li>Rakuten Baseball, Inc.</li> <li>Rakuten Vissel Kobe, Inc.</li> <li>Rakuten Farm, Inc.</li> <li>Rakuten Seiyu Netsuper, Inc.</li> </ul>	<ul> <li>Ebates Performance Marketing, Inc.</li> <li>Rakuten Marketing LLC</li> <li>Rakuten Kobo Inc.</li> <li>Rakuten USA, Inc.</li> <li>RAKUTEN FRANCE S.A.S.</li> <li>Ebates Inc.</li> <li>Taiwan Rakuten Sports Entertainment, Inc.</li> </ul>
FinTech	<ul> <li>Rakuten Card Co., Ltd.</li> <li>Rakuten Bank, Ltd.</li> <li>Rakuten Securities Holdings, Inc.</li> <li>Rakuten Securities, Inc.</li> <li>Rakuten General Insurance Co., Ltd.</li> <li>Rakuten Life Insurance Co., Ltd.</li> </ul>	Rakuten Europe Bank S.A.     Rakuten Securities Hong Kong Limited     Rakuten International Commercial Bank Co., Ltd.
Mobile	<ul> <li>Rakuten Mobile, Inc.</li> <li>Rakuten Communications Corp.</li> <li>Rakuten Energy, Inc.</li> <li>Rakuten Symphony, Inc.</li> </ul>	<ul> <li>Altiostar Networks, Inc.</li> <li>Robin Systems, Inc.</li> <li>Rakuten Symphony Singapore Pte Ltd</li> </ul>

### **■** Referenced Guidelines

- Act on Rationalizing Use of Energy and Shifting to Non-fossil Energy
- · Act on Special Measures Concerning Procurement of Electricity from Renewable Energy Sources by Electricity Utilities
- Act on Promotion of Global Warming Countermeasures
- Waste Management and Public Cleansing Act
- Ministry of the Environment and Ministry of Economy, Trade and Industry's Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain
- WBSC/WRI GHG Protocol
- The Global GHG Accounting and Reporting Standard by the Partnership for Carbon Accounting Financials (PCAF)

### ■ Calculation Scope and Methodology

From FY2022, the calculation targets and methods have been changed to improve the accuracy of CO<sub>2</sub> emissions, energy consumption, water withdrawal, and waste generation. Please refer to page 2 for the significant impact of the change. No retroactive adjustments have been made to past data.

	Item		Calculation Scope	Calculation Methodology			
	Sc	ope1	Direct GHG emissions from in-house fuel use. Only energy-derived CO <sub>2</sub> . Major offices, factories, warehouses, sports stadiums, company vehicles, and data centers (5 domestic and 4 overseas companies)	Calculated by multiplying the annual fuel consumption or purchase volume by the $\mathrm{CO}_2$ emission factor for each energy source. Emission factors for both domestic and overseas consumption are based on the Greenhouse Gas Accounting, Reporting, and Publication System under the Act on Promotion of Global Warming Countermeasures.			
	Scope 2	Location- based	Indirect GHG emissions from the use of purchased electricity. Only energy-derived CO <sub>2</sub> .  Major offices*, data centers, factories*, sports stadiums*, group centers, base stations, distribution centers*, warehouses* (14 domestic, 15 overseas companies)  *Scope: Facilities that meet any of the following  1. Contract Electricity: High voltage (50~2,000kW) or extra high voltage (2,000kW~)  2. Estimated annual electricity use: over 131,400kWh	Calculated by multiplying annual electricity consumption by regional $CO_2$ emission factors. For Japanese operations, we use alternative emission factor for each electric power provider based on the Act on Promotion of Global Warming Countermeasures. For overseas operations, we use country-based emission factors by the International Energy Agency (IEA).			
		Market- based	Same as above	Calculated by multiplying the annual electricity consumption by the $CO_2$ emission factor for each electric power provider.  For Japanese operations, we use the adjusted emission factors for each electric power provider based on the Act on Promotion of Global Warming Countermeasures.  For overseas operations, we use emission factors according to the hierarchy of the GHG Protocol Scope 2 Guidance. The emission factor for renewable energy is assumed to be zero.			
CO <sub>2</sub> emission		Category 1	Manufacture of purchased products and services (collected for the businesses accounting for 70% of consolidated cost of sales with the remainder as estimates)	Calculated by multiplying the GHG emissions of major suppliers' own company and supply chain by the ratio of our purchase amount. If the supplier's GHG emissions are unavailable, the amount paid is multiplied by the emissions intensity based on the input-output table. We use the Ministry of the Environment's emissions intensity DB to calculate the GHG emissions of organizations through their supply chains.			
					Category 2	Construction or manufacture of capital goods purchased or acquired	Calculated by multiplying total capital investment by industry-based emission intensity.  We use the Ministry of the Environment's emissions intensity DB to calculate the GHG emissions of organizations through their supply chains.
	Scope 3	Category 3	Extraction, production and transportation of purchased fuel and electricity not included in Scope 1 and 2, as well as procurement and sales in the electricity retail business (Rakuten Energy)	Calculated by multiplying fuel and electricity consumption and Rakuten Energy's electricity procurement and sales by emission intensity by energy type.  We use the Ministry of the Environment's emissions intensity DB and IDEA (Inventory Database for Environmental Analysis) of the National Institute of Advanced Industrial Science and Technology (AIST) to calculate the GHG emissions of organizations through their supply chains.			
		Category 4	Procurement logistics and shipping logistics for which we are the shipper (collected for the businesses accounting for 70% of consolidated cost of sales with the remainder as estimates)	Calculated by multiplying transported weight and distance by emission intensity of each means of transportation and vehicle type. If transportation weight is unavailable, emission intensity is calculated by multiplying the amount paid by the emission intensity based on the input-output table.  We use the Ministry of the Environment's emissions intensity DB to calculate the GHG emissions of organizations through their supply chains.			
		Category 5	Disposal and processing of industrial and general waste generated in factories, warehouses, sports stadiums, and offices	Calculated by multiplying waste emissions by type-based and treatment method-based emissions intensities.  We use the Ministry of the Environment's emissions intensity DB and IDEA (Inventory Database for Environmental Analysis) of the National Institute of Advanced Industrial Science and Technology (AIST) to calculate the GHG emissions of organizations through their supply chains.			

### ■ Calculation Scope and Methodology

Item			Calculation Scope	Calculation Methodology	
			Category 6	Business travel	Calculated by multiplying the amount of business travel expenses by the emissions intensity of each means of transportation. If the amount of business travel expenses is unavailable, the value is calculated by multiplying the number of employees by the emission intensity per employee.  We use the Ministry of the Environment's emissions intensity DB to calculate the GHG emissions of organizations through their supply chains.
		Category 7	Employee commuting	Calculated by multiplying the number of employees by the number of operating days per year, and then by the emission intensity for each city category.  We use the Ministry of the Environment's emissions intensity DB to calculate the GHG emissions of organizations through their supply chains.	
		Category 8	Operation of event venues and data centers the Company rents	Calculated by multiplying the proprietary size of the venue by the emission intensity for each building usage purpose. Some data center's electricity consumption was multiplied by the CO <sub>2</sub> emission factors for each electric power provider.  We use the Ministry of the Environment's emissions intensity DB to calculate the GHG emissions of organizations through their supply chains, as well as adjusted emission factors for each electric power provider based on the Act on Promotion of Global Warming Countermeasures.	
CO <sub>2</sub> emission	Scope 3	Category 11	Use of sold products	Calculated by multiplying the electricity consumption per unit quantity over the useful life of the product by the $CO_2$ emission factor and then multiplying by the annual sales quantity of the product in question. We use alternative emission factor for each electric provider based on the Act on Promotion of Global Warming Countermeasures.	
		Category 12	End-of-life treatment of sold products	Calculated by multiplying the amount of emissions from products and packaging materials by the emissions intensity for each waste type and disposal method.  We use the Ministry of the Environment's emissions intensity DB to calculate the GHG emissions of organizations through their supply chains.	
		Category 14	Scope 1 and 2 of major mobile store franchisees (for stores with electricity usage of 131,400 kWh and over)	Calculated by multiplying the electricity consumption of the subject store by the CO <sub>2</sub> emission factor. We use alternative emission factor for each electric provider based on the Act on Promotion of Global Warming Countermeasures.	
		Category 15	Investment in listed equity and corporate bonds, business loans, project finance, etc. of Rakuten Bank, Rakuten Card, Rakuten General Insurance, and Rakuten Life Insurance, which provide investment and financial services (excluding consumer mortgages and motor vehicle loans)	In accordance with PCAF standards, we use the following formula for each asset class. Financed emissions = $\Sigma$ (GHG emissions of the investee x Attribution Factor)  The response for each asset class is as follows. <investments and="" bonds="" loans="" non-sovereign="" to=""> GHG emissions of the borrower: Calculated by multiplying the GHG emissions of the borrower by the company's published GHG emissions or by the GHG emission factor per net sales. Attribution Factor: Calculated by dividing the balance of investments and loans by the total amount of funding (EVIC or Total company equity+debt) of the investee. <sovereign debt=""> GHG emissions of the investee: We use country-based GHG emissions. Attribution Factor: calculated by dividing outstanding investments by purchase power parity-adjusted GDP.</sovereign></investments>	



### ■ Calculation Scope and Methodology

	Item		Calculation Scope	Calculation Methodology
		Gas		Sum of actual consumption (or purchase amount if consumption is unknown) of various fossil fuels.  Conversion factors to MWh are as follows:  City gas 12.4MWh/1000Nm² Gasoline 9.6MWh/kL Diesel oil 10.5MWh/kL
Energy	Fuel	Oil	Major offices, factories, warehouses, sports stadiums, company vehicles, and data centers (5 domestic and 4 overseas companies)	LP gas 14.1MWh/kL Kerosene 10.2MWh/kL Heavy oil 10.9MWh/kL Heavy oil 10.9MWh/kL  Calculated based on the heating value by fuel type in the system for calculating, reporting, and announcing greenhouse gas emissions based on the Act on Promotion of Global Warming Countermeasures, and the standard heating value by energy source of the Ministry of Economy, Trade and Industry.
Consumption	Electrici	Total	Major offices*, data centers, factories*, sports stadiums*, group centers, base stations, distribution centers*, warehouses* (14 domestic, 15 overseas companies)  *Scope: Facilities that meet any of the following 1. Contract Electricity: High voltage (50~2,000kW) or extra high voltage (2,000kW~) 2. Estimated annual electricity use: over 131,400kWh	Sum of purchased electricity and on-site power generation (solar). The conversion factor to MWh is as follows; Purchased electricity 0.584MWh/kVA Calculated assuming a load factor of 80%, 1 year = 8,760h.
		Renewable	Same as above	Sum of the amount of electricity used from on-site power generation (solar), the amount of electricity purchased from renewable energy menus, and the amount of renewable electricity from J-Credits and FIT Non-Fossil Certificates.
Wat	Water withdrawal		Offices*, factories, warehouses, sports stadiums  Scope*: Facilities with top 90% of employees (12 domestic, 3 overseas facilities)	Water withdrawal whose quantities can be verified by documentation or other means.
Recycled Waste Generation		Recycled	Offices*, factories, warehouses, sports stadiums  Scope*: Facilities with top 90% of employees (11 domestic, 2 overseas facilities)	Amount recycled whose weight can be verified by documentation or other means. Plastic bottles, bottles, cans, mixed beverage containers, cardboard, newspapers, magazines, pamphlets, used paper, and plastics are included. Waste whose unit conversion to weight could not be verified by documentation or other means is excluded.
		Total	Same as above	Sum of general waste, industrial waste, and recyclables whose weight can be confirmed by documentation or other means.



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### Notation in the Data Book

- Rakuten Group: Rakuten Group, including Rakuten Group, Inc. Rakuten Group, Inc.: Rakuten Group, Inc. (Non-consolidated)

Item			Coverage	Unit	FY2020	FY2021	FY2022	FY2022 Assurance
Social Data								
Total no. of en	nployees			people	23,841	28,261	32,079	
		Japan		people	18,128	20,433	25,931	
	Dagion	APAC (ex. Japan)		people	1,893	4,231	2,598	
	Region -	Americas	Rakuten Group	people	2,939	3,072	2,994	
	-	EMEA		people	881	525	556	
	Continue	Permanent		people	22,078	26,606	30,666	
	Contract -	Temporary		people	1,763	1,655	1,413	
Employment r	ate of people w	ith disabilities	Rakuten Group <sup>*1</sup>	%	2.32	2.47	2.38	1
Total no. of en	nployees in eacl	h of the following diversity categories		people	9,090	10,067	10,931	
		Under 30		people	3,178	3,606	4,113	
	Age	30 – 50		people	5,677	6,179	6,473	
		Over 50	<b>-</b>	people	234	282	344	
		Female	Rakuten Group, Inc.	people	3,598	4,052	4,420	
	Gender	Male		people	5,492	6,015	6,509	
		Unregistered		people	-	-	2	
		Japanese		people	7,116	8,012	8,595	
	Nationality	Non-Japanese		people	1,974	2,055	2,336	
Total no. of new full-time employees hired			people	2,099	1,770	2,099		
				people	811	684	769	
		Female	Rakuten	%	38.6	38.6	36.6	
	Gender		Group, Inc.	people	1,288	1,086	1,328	
		Male		%	61.4	61.4	63.3	
	-	Unregistered		people	-	-	2	
Total no. of m	anagers in each	of the following diversity categories		people	2,165	2,356	2,493	
		Female		people	611	678	750	
	Gender	Male	Rakuten	people	1,554	1,678	1,742	
		Unregistered	Group, Inc.	people	-	-	1	
		Japanese		people	1,780	1,949	2,049	
	Nationality	Non-Japanese		people	385	407	444	
Total no. of en	nployees that w	rere entitled to parental leave		people	350	503	477	
		Female	Rakuten Group, Inc.	people	83	174	192	
	Gender -	Male	Group, Inc.	people	267	329	285	
Total no. and p	percentage of e	mployees that took parental leave		people	128	300	320	
			<b>-</b>	people	79	186	200	
		Female	Rakuten Group Inc	%	95.2	106.9	104.2	
	Gender -		Group, Inc.	people	49	114	120	
		Male		%	18.4	34.7	42.1	
Return to worl	k rate after par	ental leave			1	1	1	1
		Female	Rakuten	%	98	95	97	
	Gender -	Male	Group, Inc.	%	100	98	98	



# Social

Item		Coverage	Unit	FY2020	FY2021	FY2022	FY2022 Assurance		
			Days granted		days	13.1	15.9	16.1	
Average annual paid vacation per employee Days taken			Rakuten	days	8	11	13		
	Taken/Granted ratio			Group, Inc.	%	61.2	71.3	78.7	
Average hours	Average hours of training per employee				hours	54.9	70.3	65.0	
Ratio of employ career develops		ceived a regular performance c	and	Rakuten Group, Inc.	%	100	100	100	
Average age			Rakuten Group, Inc.	years	33.8	34.3	33.7		
	Allemployees					_	_	75.6	✓
Gender pay gap	ratio	Permanent employees*2		Rakuten Group, Inc.	%	_	_	82.0	
		Contract employees*3				_	_	71.1	
Average length	of service					4.5	4.7	4.7	1
	0	Female		Rakuten Group, Inc.	years	4.6	4.8	4.9	
	Gender	Male		1		4.4	4.6	4.6	
Total no. of employee fatalities			Rakuten Group, Inc.	people	0	0	0	1	
Lost-time occupational injury frequency rate			Rakuten Group, Inc.	n/million hours worked	0	0	0.06	/	
Lost-time occupational disease frequency rate			Rakuten Group, Inc.	n/million hours worked	0	0.06	0.06	1	

Coverage includes Rakuten Group, Inc., Rakuten Socio Business, Inc., and Rakuten Communications Corp. among Rakuten Group
 Permanent employees are full-time employees with no fixed term.
 Contract employees are part-time employees and employees with a fixed term.

### ■ Collection Period

FY2022 (January 1, 2022 – December 31, 2022)

### ■ Collection Scope

Rakuten Group, Inc. (non-consolidated)

 $\frak{\%}$  Comments are left in the applicable sections where scope of collection varies.

### Calculation Scope and Methodology for Major Social Metrics

Item	Calculation Scope	Calculation Methodology		
Average length of service (total for both genders)	Permanent employees	Average length of service = Total number of years of service of permanent employees / Number of permanent employees		
(common gones, g		The base date is the last day of the subject period.		
Gender pay gap ratio	Permanent and contract employees, excluding executive officers and	Calculated based on the methods of calculating wage differentials between men and women published by the Ministry of Health, Labor and Welfare.		
(all employees)	employees seconded to other companies.	The number of employees is calculated using the average number of people at the end of each month from the beginning to the end of the subject period.		
Employment rate of people with disabilities	Permanent and contract employees, excluding employees with less than	Calculated in the same way as the calculation method based on the Act to Facilitate the Employment of Persons with Disabilities of the Ministry of Health, Labor and Welfare, with December 1 as the base date.		
	20 work hours per week.	The number of people with disabilities is calculated in accordance with the method used to count the number of people with disabilities in the calculation of the statutory employment rate.		
Total no. of employee fatalities	Permanent and contract employees.	Sum of fatalities claiming worker's insurance under the Industrial Accident Compensation Insurance Act out of those reported in the "Workers' Accident Situation List".		
Lost-time occupational injury frequency rate	Permanent and contract employees, excluding employees seconded to other companies.	Lost-time occupational injury frequency rate  = Number of injured workers due to occupational accidents resulting in one or more days of absence from work and loss of body parts or functions/Total number of actual working hours x 1,000,000 hours		
	other companies.	Sum of injured persons who claim workers' insurance based on the Industrial Accident Compensation Insurance Act out of those reported in the "Workers' Accident Situation List".		
Lost-time occupational disease frequency rate	Permanent and contract employees, excluding employees seconded to	Lost-time occupational disease frequency rate = Number of diseased workers due to occupational accidents resulting in one or more days of absence from work/Total number of actual working hours x 1,000,000 hours		
Troquelley rute	other companies.	Sum of diseased persons who claim workers' insurance based on the Industrial Accident Compensation Insurance Act among those reported in the "Workers' Accident Situation List".		



# Governance

### **Collection Period**

As of March 30 of each year  $\,$ 

**Collection Scope** Rakuten Group, Inc. (non-consolidated)

Item		Unit	FY2020	FY2021	FY2022
Governanc	e Data				
Board of Di	rectors				
	No. of directors	people	7	9	9
	No. of female directors	people	1	1	1
	No. of external directors	people	4	5	5
	No. of independent directors	people	4	5	5
Board of Au	iditors				
	No. of directors	people	4	4	4
	No. of external directors	people	3	3	3
	No. of independent directors	people	3	3	3

