

Yen-denominated Bonds Allocation Report 2024

(Millions of yen)		Sustainability Bonds (unsecured straight bonds)					Aggregate amount of outstanding bonds	Percentage
#		1st	2nd	3rd	4th/5th	6th		
Issue Date		2020.1.27	2021.1.25	2022.1.21	2023.1.20	2024.1.19		
Eligibility Criteria	1) Railway business	29,889	26,052		2,195	9,956	68,092	51%
	2) Renewable energy		3,837				3,837	3%
	3) Green building			20,000	32,688		52,688	39%
	4) Hospital			9,121			9,121	7%
Proceeds Unallocated				768			768	1%
Total		29,889	29,889	29,889	34,883	9,956	134,506	100%
(Refinancing)		-	(3,837)	(20,000)	(32,688)	(9,532)		

The unallocated proceeds are managed in cash or cash equivalents.

Yen-denominated Bonds Impact Report 2024 (※1)

Eligibility Criteria	Eligible Projects	1st Sustainability Bonds (unsecured straight bonds)	2nd Sustainability Bonds (unsecured straight bonds)	3rd Sustainability Bonds (unsecured straight bonds)	4th and 5th Sustainability Bonds (unsecured straight bonds)	6th Sustainability Bonds (unsecured straight bonds)	ESG Category	Impact Indicators	Achievements
1) Railway business	Series EV-E801	○					Common	Number of train cars introduced	Introduced : 6 cars
							Green	Impact of CO ₂ emissions reduction (Compared to conventional diesel trains)	60% reduction
								Impact of exhaust gas reduction (Compared to conventional diesel trains)	100% reduction
							Social	Impact of noise reduction (Compared to conventional diesel train cars)	30dB reduction
								Number of vehicles (train cars) equipped with barrier-free toilets	6 cars
	Series E235	○	○		○	○	Common	Record of introducing train cars	Introduced : 83 cars
							Green	Energy-saving by using VVVF inverter (Compared to conventional products)	19.8% of energy saving (※2)
								Energy-saving by using LED lighting (vs. conventional fluorescent lighting)	40% of energy saving
							Social	Number of cars equipped with emergency power supplies	43 cars
								Number of cars with space for wheelchairs	83 cars
	Railway facilities (renewal of interlocking devices)					○	Green	Details of maintenance, renovation and renewal of the railway facility (FY2021)	Renewal of interlocking devices To place in service : 19 stations
2) Renewable energy	Solar power generation (Keiyo Rolling Stock Center Solar Cell Power Plant, Uchihara No.1 and No.2 Solar Power Plants, Aomori Ishie Solar Power Plant)		○				Green	FY2023 Power Generation (kWh) / Cumulative Power Generation (kWh)	7,788,794kWh/ 28,984,334kWh
								FY 2023 CO ₂ reduction rate/ Cumulative CO ₂ reduction rate	2,991t-CO ₂ / 12,070t-CO ₂
	JR Akita Shimohama Wind Power Generation Station		○				Green	FY 2023 Power Generation (kWh) /Cumulative Power Generation (kWh)	5,057,420kWh/ 17,651,810kWh
								FY 2023CO ₂ reduction rate/ Cumulative CO ₂ reduction rate	1,947t-CO ₂ / 8,123t-CO ₂
3) Green building	KAWASAKI DELTA (※3)			○	○		Green	Type and rank of environmental certifications obtained : CASBEE-construction (new)	Superior (S) grade (expires April 2024)
								Type and rank of environmental certifications obtained : BELS	5 Stars (ZEB Ready/ZEB Oriented)
								Primary energy consumption : Electricity (2023/10~2024/9)	11,695,620kWh
								Primary energy consumption : Fuel gas (2023/10~2024/9)	1,772,980m ³
								CO ₂ emissions (2023/10~2024/9)	7,453t-CO ₂
							Social	Pedestrian walkways network : premises open to the public (inc. ground floor)	4,956m ²
4) Hospital	Rebuilding of JR Tokyo General Hospital(※4)			○			Social	Total number of patients (inpatients and outpatients)	—
								Number of ambulances accepted	—
								Equipment included in new wards and health care buildings (Building e)	Building e : Medical Examination Center/ Higher Nursing School of JR Tokyo General Hospital
								National exam pass rate for nurses at the Higher Nursing School of JR Tokyo General Hospital	—

※1 The Sustainability Finance Framework published in 2022, and 2024 differs from the Sustainability Bond Framework published in 2019, 2020, and 2021 in terms of reporting items and their timeframes,

but the allocation and impact reporting have been prepared in consideration of reporting continuity.

※2 The energy consumption of Series E235 in Yamanote Line depends on sections of trains and running pattern

※3 Property Information : [KAWASAKI DELTA「サステナブルなまちづくり」の実践 \(ireast.co.jp\)](#) (June 25, 2021 Press Release)

※4 The Health care building (tentative name), known as the "Building e", is scheduled to open ahead of schedule in April 2024, and the new Inpatient Building is scheduled to open in the spring of 2025, hence reporting is scheduled to begin when the figures for reporting indicators become available after the completion of the buildings.

Euro and Pound-denominated Bonds Allocation Report 2024

(Millions of yen) (※1)		Euro and Pound-denominated Green Bonds (unsecured straight bonds)			Aggregate amount of outstanding bonds	Percentage
#		EUR-1st	EUR-2nd/3rd	EUR-4th/GBP-1st		
Issue Date		2023.2.22	2023.9.5	2024.9.4		
Eligibility Criteria	1) Clean transportation and Climate Change Response (Operating Expenditure)	106,764	157,774	155,672	420,210	78%
	2) Renewable energy		16,728	5,141	21,869	4%
	Proceeds Unallocated		30,813	65,657	96,470	18%
Total		106,764	205,315	226,470	538,549	100%
(Refinancing)		(91,831)	(117,958)	(160,813)		

The unallocated proceeds are managed in cash or cash equivalents.

※1 Calculated to yen at the exchange rate at the time of issuance.

Euro and Pound-denominated Bonds Impact Report 2024 (※2)

Eligibility Criteria	EU taxonomy Activity	Eligible Projects	EUR-1st Green Bonds (unsecured straight bonds)	EUR-2nd and 3rd Green Bonds (unsecured straight bonds)	EUR-4th and GBP-1st Green Bonds (unsecured straight bonds)	ESG Category	Impact Indicators	Achievements
GBP2021 Clean transportation	No.6.1 Passenger interurban rail transport (※3)	Shinkansen Series E7 train	○			Green	Number of train cars introduced	Introduced : E7 train 20 cars
		Shinkansen Series E5 train		○		Green	Number of train cars introduced	Introduced : E5 train 6 cars
		Shinkansen Series E8 train		○	○	Green	Number of train cars introduced	Introduced : E8 train 6 cars
		Conventional railcars Series E131 train		○		Green	Number of train cars introduced	Introduced : E131 train 35 cars
		Conventional railcars Series E235,E233 trains		○	○	Green	Number of train cars introduced	Introduced : E235 train 83 cars E233 train —
	No.3.19 Manufacture of rail rolling stock constituents	Shinkansen modification (installation of bogies monitoring equipment)			○	Green	Number of train cars modified	Modified : 37 cars
GBP2021 Clean transportation Climate Change Response	No.6.14 Infrastructure for rail transport	Railway facilities (to increase and maintain the resilience of railway)	○ (Shinkansen railway facilities)	○ (Shinkansen and conventional railway facilities)		Green	Details of investment in disaster countermeasure for the railway facility, project progress	Seismic reinforcement of railway facilities Overhead bridge pillar 5,605 units
		Railway facilities (investments and expenses for maintenance, renovation, and renewal)			○	Green	Details of maintenance, renovation and renewal of the railway facility (FY2022)	Rail replacements : 341km Electricity cable repairs : 186km
GBP2021 Renewable energy	No.4.1 Electricity generation using solar photovoltaic technology	Solar power generation		○	○	Green	Annual electricity generated by solar power (kWh/year) The amount of CO ₂ emissions reduction (t-CO ₂ /year) (FY2023)	Power generation : 113,974,821 (kWh/year) The amount of CO ₂ emissions reduction : 49,921 (t-CO ₂ /year)
GBP2021 Renewable energy	No.4.3 Electricity generation from wind power	Wind power generation		○	○	Green	Annual electricity generated by wind power (kWh/year) The amount of CO ₂ emissions reduction (t-CO ₂ /year) (FY2023)	Power generation : 36,589,452 (kWh/year) The amount of CO ₂ emissions reduction : 16,026 (t-CO ₂ /year)

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but the allocation and impact reporting have been prepared in consideration of reporting continuity.

※3 Train cars with zero direct CO₂ emissions that meet climate change mitigation standards in the EU taxonomy.