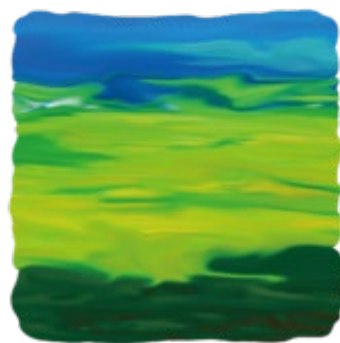


Dedicated to sustaining all life.

The Norinchukin Bank Green Bond Annual Investor Report

(As of 31 March 2024)



NORINCHUKIN

September 2024

Initiatives for Sustainability

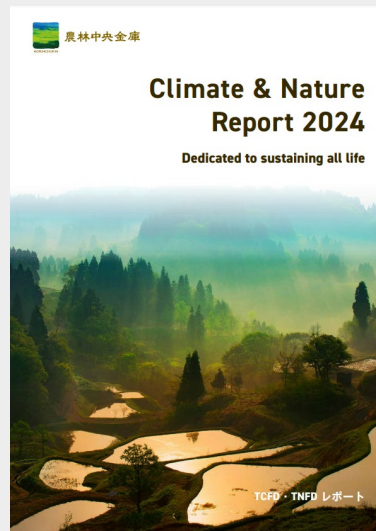
- The Bank continues to strengthen its efforts and disclosure on climate change, natural capital, and biodiversity
- To achieve net zero by 2050, the Bank expands its GHG reduction targets and promotes engagement with investees and loan clients

Integrated Response to Climate and Nature-related Issues

- As a Task Force member of the TNFD (Taskforce on Nature-related Financial Disclosures), the Bank contributed to the development and dissemination of the TNFD disclosure standard, whose recommendation was announced in September 2023. The Bank also progressed to be the early adopter of this recommendation, as announced in November 2023.
- In March 2024, the Bank issued the "Climate & Nature Report 2024" which provides integrated disclosure of our response to climate change, natural capital, and biodiversity, based on the TCFD and TNFD recommendations.

Climate & Nature Report 2024

With the aim of understanding the nature-related risks and opportunities of our portfolio, the report includes our exploratory analysis of our dependence and impact on nature, along with our efforts toward net zero by 2050. The analysis takes into consideration of the value chains of our investees and loan clients.



Report URL: https://www.nochubank.or.jp/sustainability/backnumber/pdf/2024/climate_nature.pdf

*currently in Japanese only

Efforts Toward Net Zero by 2050

- Sector policies for "oil and gas," "coal" and "steel" are added to the Bank's loan portfolio, in addition to "electricity" sector that was announced in March 2023.
- The Bank continues strengthening its solution functions including financing and promotes engagement with investees and loan clients.

Investment and Loan Portfolio GHG Emissions		FY2019 (Base year result)	FY2021 (Result)	FY2030 (Target)
Addition	Power	213 gCO ₂ e/kWh	209 gCO ₂ e/kWh	138 - 165 gCO ₂ e/kWh
	Oil and gas (Scope 1, 2)	8.9 gCO ₂ e/MJ	14.5 gCO ₂ e/MJ	3.1 gCO ₂ e/MJ
	Oil and gas (Scope 3)	0.51 Mt CO ₂ e	0.20 Mt CO ₂ e	Vs. FY2019 ▲27.3%
	Coal	Responses and engagement based on the sector policy		
Loans	Steel	1.99 tCO ₂ e/t	2.06 tCO ₂ e/t	1.54 - 1.73 tCO ₂ e/t
	Stocks and bonds	0.66 tCO ₂ e/million yen	0.54 tCO ₂ e/million yen	Vs. FY2019 ▲49%

Other	FY2021 (Result)	FY2022 (Result)	FY2030 (Target)
Forest-derived CO ₂ absorption together with members	6.12 million tCO ₂	TBC	9 million tCO ₂
GHG emitted at the Norinchukin Bank Group sites	20,487 tCO ₂	17,052 tCO ₂	Net Zero

Initiatives for Sustainability

- To achieve nature positive, the Bank progresses its solution function enhancement and exploratory efforts in collaboration initiatives with members
- Sustainable finance aiming at creation of positive impacts for the environment, society, and the economy

Efforts Related to Natural Capital and Biodiversity

- Enhancements of solution function for investees and loan clients to achieve nature positive, through cooperation with external companies and participation in initiatives etc.
- Exploratory efforts in collaboration initiatives with members for the coexistence of the AFF industries with nature

Contribution to the 30 by 30 goal (*1)

- JF Yamagawa Town (Kagoshima Prefecture) and its cooperative members applied some sea areas around the Yamagawa Fishing Port as "Natural Coexistence Site(*2)" to the Ministry of the Environment, which were certified in February. The Bank supported throughout their application process
- This initiative contributes to the 30 by 30 goal set by the Kunming-Montreal Global Biodiversity Framework



JF Yamagawa Town/ Cooperative members (Fishermen)

- Operates fixed fish nets in Yamagawa, Ibusuki City
- Known for its seagrass bed preservation activities for many years with the keyword "blue carbon"



NORINCHUKIN

- Provides sustainability knowledge, including 30 by 30
- Coordination and advice for relevant parties during the application process

Japan's first certification of the applications by JF/fishermen

Ibusuki City,
Kagoshima Prefecture

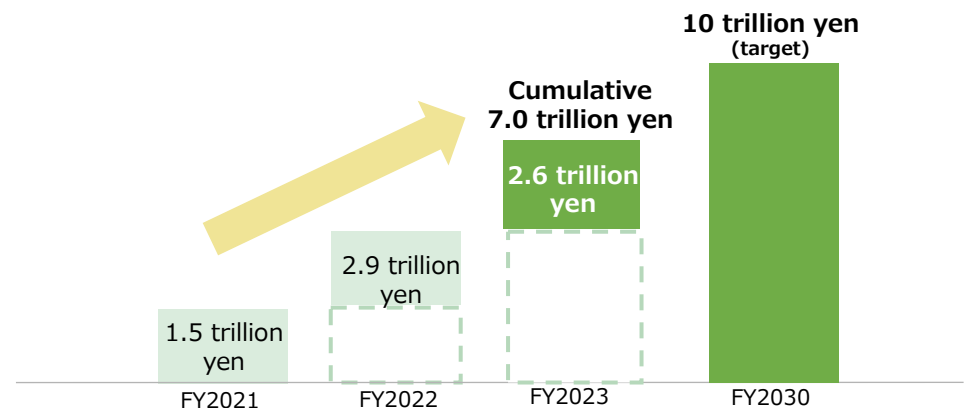


(*1) Efforts aimed at preserving and managing at least 30% of land and sea areas by 2030
 (*2) Locations certified by the government as "areas where biodiversity conservation is being promoted by private efforts, etc." (from the Ministry of the Environment website)

Efforts Related to Sustainable Finance

- Sustainable finance with a positive impact on the environment and society (new execution of 7.0 trillion yen cumulatively by FY2023)
- Further focus on measuring and managing environmental and social impacts through business activities

Cumulative new execution amount *3



(*3) Cumulative new execution amount for FY2021 - FY2030

Breakdown of sustainable finance (cumulative amount)

Investments and Loans	Market investment assets, etc.	4.3 trillion yen
	Project finance	1.5 trillion yen
	ESG loans	1.0 trillion yen
Funding	Green bonds and green deposits	0.3 trillion yen

Increasing the income of farmers, fishermen and foresters

- The Bank pursues to increase the income of farmers, fishermen and foresters through consulting activity for AFF corporations and leaders

Contributing to Sustainable AFF Industries and Regions

Initiatives to increase the income of AFF corporations and leaders

- The Bank defines “Added Value Amount” as an indicator to measure the extent of income growth of AFF corporations and leaders, and it aims to continuously contribute to increasing the income of workers in the industries and regions.
- The Bank offers proposals to resolve a wide variety of management issues that relevant local leaders face, in collaboration with JA Shinnoren and Japan Agricultural Cooperatives (JA).

<JA Bank's Annual Consulting Cases>

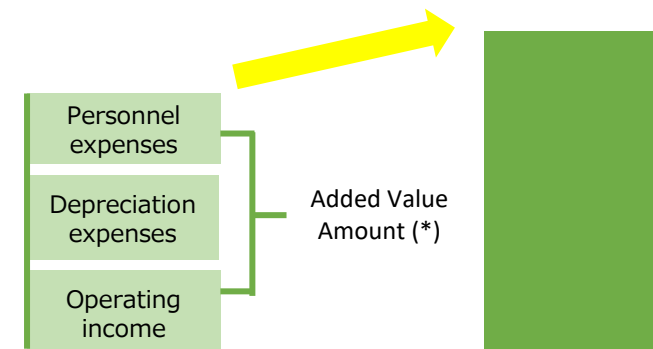
FY 2021	FY 2022	FY 2023
186 cases	301 cases	306 cases

- In addition to providing proposals and solutions to the AFF corporations and leaders, the Bank contributes to following the progress and resulting effects of formulated action plans.

[Case] Consulting activity for AFF corporations and leaders

- The Bank started a consultation project with its client Y.K Company Co., Ltd. (the “company”), an agricultural corporation in Karatsu City, Saga Prefecture since FY2021.
- The Bank proposed the diversification of sales channels, as well as reconstruction of aged plastic greenhouses whose productivity has deteriorated significantly, which was identified by its data analysis. In addition, as a measure to expand the financial base for future growth investment, the Bank also proposed to raise capital from the Agribusiness Investment & Consultation Co., Ltd.
- The company is making progress of assessment/implementation of proposed solutions and succeeded in raising capital from the investment fund operated by the Agribusiness Investment & Consultation Co., Ltd. in FY2023. The Bank continues to track the progress of the solution implementations and provide both financial and non-financial support as the whole JA Group to further increase added value.

Conceptual Increase in Added Value



(*) Added Value Amount is defined as the sum of operating income, depreciation expenses and personnel expenses to include not only the perspective of “profit improvement” but also concepts such as “appropriate capital expenditure” and “investment in human resources.”

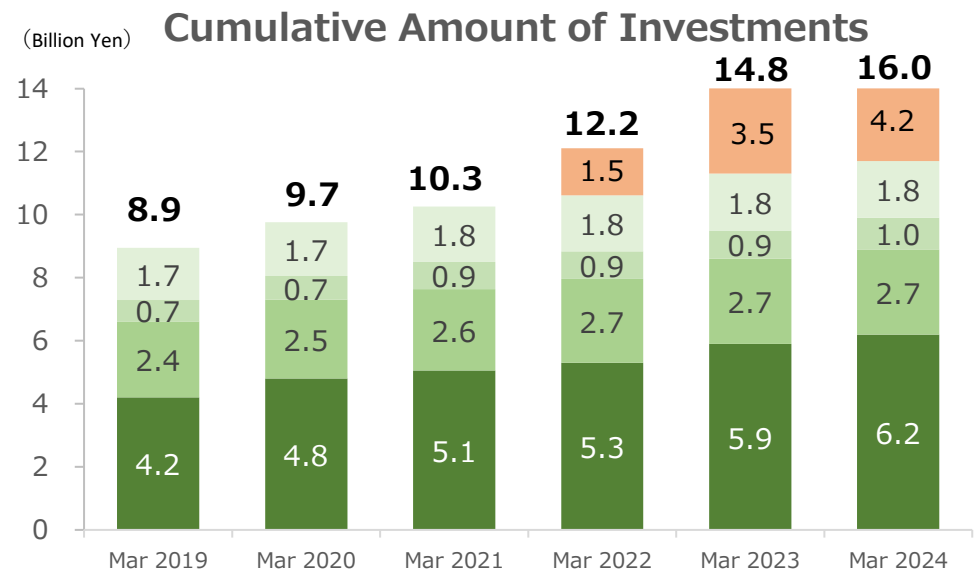
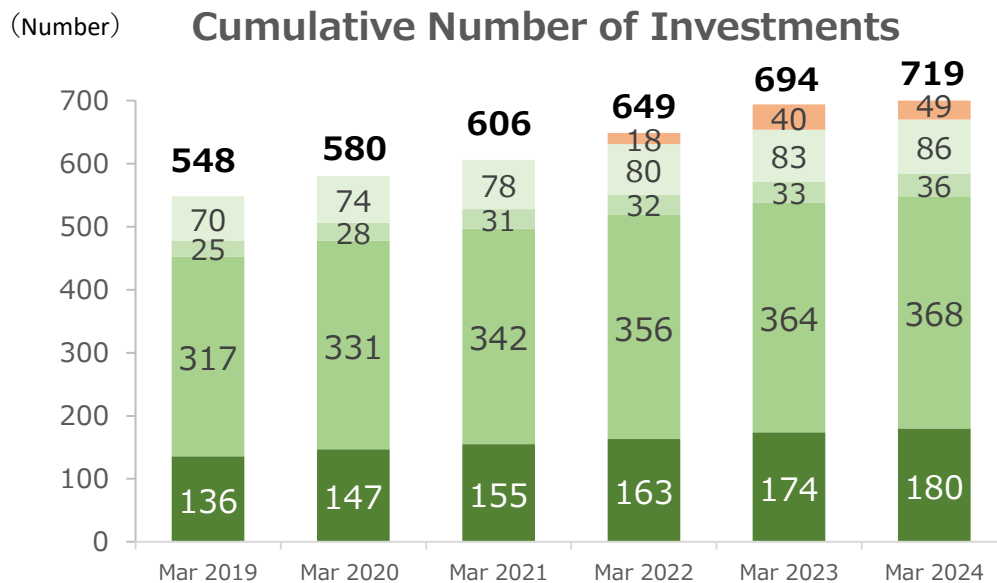


Growing spinach inside the company's plastic greenhouse

Equity Financing to Agricultural Corporations

- The Bank supports financial needs of AFF industry leaders at various growth stage. Cumulative equity investments to agricultural corporation etc. through the Agribusiness Investment & Consultation Co., Ltd. reached 719 deals and JPY 16.0 billion

Investments in agricultural corporations through the Agribusiness Investment & Consultation Co., Ltd.



(Note) The sum of the figures may not match due to rounding. The figures related to food and agriculture-related corporations include the transfer portion from the Bank.

The Agribusiness Investment & Consultation Co., Ltd.

invests in agricultural corporations nationwide and in companies involved in the supply chains to help secure the financial stability and growth of the agricultural leaders of tomorrow

Investment in agricultural corporations

Agri-Seed Fund

invests in agricultural corporations that have technological expertise but insufficient capital to stabilize their financial position (each investment size capped at than JPY 10 million)

Agricultural Leaders Support Fund

invests in agricultural corporations that plan capital expenditures for their business scale expansion (each investment size is JPY 10 million at minimum)

Reconstruction Fund

provides capital support for the AFF business entities suffered from a natural disaster

Investment in food and agriculture-related corporations

Supporting Customers in the post-2024 Noto Peninsula Earthquake

- The Bank took actions to support JA / JF Marine Bank users affected by the 2024 Noto Peninsula Earthquake

Actions taken by JA Bank and JF Marine Bank

Disaster-affected customer support desk etc.

- JA Bank and JF Marine Bank have implemented efforts to support affected users, such as promptly informing users immediately after the earthquake of access to the disaster support desk and financial mitigation measures on the website etc.
- In addition to establishing disaster response funds to quickly respond to the recovery funding needs of those affected by the disaster, the Bank also provided support to existing loan clients about the use of the natural disaster guidelines and loan forbearance etc.

Emergency withdrawal of savings

- JA Bank and JF Marine Bank took emergency measures to allow users directly affected by the disaster to withdraw from his/her saving accounts without accompanying bank passbook or registered signature stamps.
- In addition, JA Bank also handled the affected users' account freeze requests and re-issuance of passbook/cash cards due to lost/damage/stolen passbooks/cards at JAs other than users'(*1), resulting more than 2,000 total request cases as of the end of March 2024. JA Bank has come together to provide financial services that are specifically tailored to support the affected users.

	Withdrawal of savings	Account freeze request	Passbook/ cash card reissuance(*2)	Total
Handling results	242 cases	1,557 cases	399 cases	2,198 cases

*1 Each JA/JF Marine member bank is an independent depository institution therefore opening/freeze/closure of accounts are not processed normally at other member banks outside of the jurisdiction of the original JA/JF Marine Bank at which a user opened his/her saving account.

*2 Reissuance of passbooks and cash cards was only accepted at JA in Ishikawa Prefecture.

Dispatch of mobile branch vehicles

- JA Bank has introduced 138 mobile branch vehicles nationwide as of March 2024 from the perspectives of demonstrating its role of "providing financial services that connect agriculture, the region and users, and contributing to the region" and business continuity management.
- Starting from FY2016 a mechanism was established to have a neighbor JA dispatch their mobile branch vehicles upon request to a JA that faces difficulties branch operations due to physical damage caused by natural disasters.
- In the case of the Noto Peninsula earthquake, vehicles were dispatched from JA Kamiina in Nagano Prefecture to JA Noto in Ishikawa Prefecture to provide financial services to users of the damaged branches.



Mobile branch vehicle at JA Kamiina (in front of dispatched branch, JA Noto)

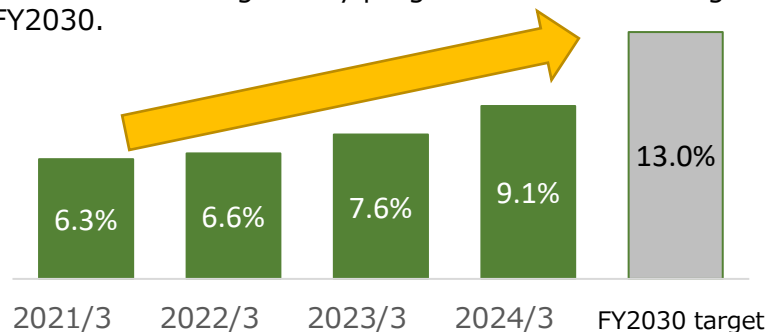
Promoting DE&I (Diversity, Equity & Inclusion)

- The Bank promotes initiatives in various areas of DE&I to become an organization where everyone can continue to be active and grow

Initiatives to Promote DE&I

Promote the empowerment of women

- In its multifaceted efforts to empower female employees, the Bank sends them to external mentoring programs for next-generation leaders and cross-industry external trainings. In addition, the Bank provides tailored communication and mentoring programs with senior management for female employees at leadership/management positions to foster their empowerment further.
- As of the end of March 2024, the proportion of female managers was 9.1%. The Bank continues making steady progress toward achieving the target of 13% by FY2030.



Autonomous Career Development without Time/Location Constraints

- To establish an environment that enables sustainable and autonomous workstyles, the Bank introduced pre-selection system by employees about relocation transfer assignment preference, flexible leave system (e.g. long-term spouse-relocation leave, hourly leave), and a flextime system with no core time.
- Male employee's childcare leave rate maintained 100% in FY2023. Together with the introduction of a corporate childcare facility and fertility-treatment leave etc., the Bank was certified as "Platinum Kurumin Plus" in November 2023.
- In the pursuit of a workstyle that embraces heightened productivity awareness, the Bank visualized work-related indicators such as total hours worked and work-hour intervals etc., aggregated at division levels.



Embrace active participation of more diverse employees

Regardless of nationality...

- Overseas employees and head office executive (Chief Diversity Officer) exchange opinions on the theme of "What can be done to raise DE&I globally and locally?" and actively share ideas such as AI assisted communication and cross-cultural training opportunities to deepen mutual understanding

Regardless of whether or not you have a disability...

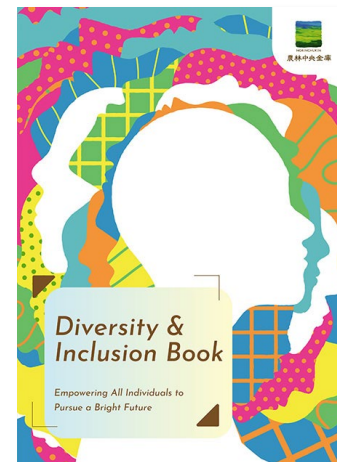
- The Bank signed a sponsorship agreement with the Japan Agricultural Welfare Association and actively participates in efforts to develop agriculture-welfare collaborations and social problem solutions.

Regardless of sexual orientation, gender identity, etc...

- To help employees deepen LGBTQ+ understandings and create workplace that embrace diversity, the Bank holds seminars by external experts for executives and employees. The Bank expressed support for "Pride 1000."

Regardless of age and generation...

- The Bank holds seminars to deepen understanding the issues of work-nursing care balance.



The Bank's Diversity & Inclusion Book URL:
<https://www.nochubank.or.jp/en/sustainability/social/diversity/>

Allocation & Impact Reporting (1/4)

Proceeds from Issuance of Green Bond

Senior Note USD500,000,000 1.284% Due 22 September 2026

Category	Sub-Category	Last Financing Date	Currency	Country	Balance (USD mn)*	CO ₂ Emissions Reduction (t-CO ₂)	of which Norinchukin Financed
Renewable Energy	Offshore Wind	January 2022	GBP	UK	199	840,624	45,562
Renewable Energy	Offshore Wind	October 2019	GBP	UK	46	692,278	14,875
Renewable Energy	Offshore Wind	March 2020	EUR	Germany	46	761,992	27,343
Renewable Energy	Offshore Wind	December 2019	EUR	Germany	33	769,689	36,520
Renewable Energy	Onshore Wind	January 2020	CAD	Canada	44	273,039	20,625
Renewable Energy	Solar	December 2019	JPY	Japan	43	27,354	12,906
Renewable Energy	Solar	December 2019	JPY	Japan	41	31,690	13,941
Renewable Energy	Solar	December 2019	JPY	Japan	30	19,681	9,274
Green Building	Office/CASBEE S	February 2020	JPY	Japan	20	4,757	264
Green Building	Office/DBJ 5 Stars	December 2019	JPY	Japan	17	5,798	38
Total					520	3,426,900	181,347

* Translated into USD at the exchange rates as of 31 March 2024

Net Proceeds from Bond Issuance (USD mn)	500
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Allocation & Impact Reporting (2/4)

Proceeds from Issuance of Green Bond

Senior Note USD500,000,000 2.080% Due 22 September 2031

Category	Sub-Category	Last Financing Date	Currency	Country	Balance (USD mn)*	CO ₂ Emissions Reduction (t-CO ₂)	of which Norinchukin Financed
Renewable Energy	Offshore Wind	December 2023	GBP	UK	292	533,337	45,051
Renewable Energy	Offshore Wind	June 2021	GBP	UK	59	1,434,005	8,826
Renewable Energy	Offshore Wind	January 2020	EUR	Germany	41	727,356	16,056
Renewable Energy	Solar	March 2020	JPY	Japan	55	74,722	19,389
Renewable Energy	Solar	February 2021	JPY	Japan	35	22,950	8,965
Renewable Energy	Solar	August 2020	JPY	Japan	24	15,211	4,919
Total					506	2,807,581	103,206

* Translated into USD at the exchange rates as of 31 March 2024

Net Proceeds from Bond Issuance (USD mn)	500
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Allocation & Impact Reporting (3/4)

Proceeds from Issuance of Green Bond

Senior Note USD500,000,000 4.867% Due 14 September 2027

Category	Sub-Category	Last Financing Date	Currency	Country	Balance (USD mn)*	CO2 Emissions Reduction (t-CO2)	of which Norinchukin Financed
Renewable Energy	Offshore Wind	August 2023	GBP	UK	169	1,412,813	99,648
Renewable Energy	Offshore Wind	June 2022	GBP	UK	159	1,118,477	67,120
Renewable Energy	Offshore Wind	November 2022	GBP	UK	150	1,012,516	100,319
Renewable Energy	Solar	June 2021	JPY	Japan	45	29,348	10,125
* Translated into USD at the exchange rates as of 31 March 2024			Total		524	3,573,154	277,212

Net Proceeds from Bond Issuance (USD mn)	500
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Allocation & Impact Reporting (4/4)

Proceeds from Issuance of Green Bond

Senior Note USD500,000,000 5.430% Due 9 March 2028

Category	Sub-Category	Last Financing Date	Currency	Country	Balance (USD mn)*	CO ₂ Emissions Reduction (t-CO ₂)	of which Norinchukin Financed
Renewable Energy	Offshore Wind	September 2023	USD	US	178	1,036,063	58,024
Renewable Energy	Onshore Wind	October 2021	CAD	Canada	89	303,376	32,699
Renewable Energy	Solar	June 2021	JPY	Japan	84	172,128	20,264
Renewable Energy	Solar	March 2022	JPY	Japan	58	157,117	15,649
Renewable Energy	Solar	December 2021	USD	US	87	131,050	21,432
Renewable Energy	Solar	June 2021	USD	US	25	38,791	8,332
Total					521	1,838,524	156,400

* Translated into USD at the exchange rates as of 31 March 2024

Net Proceeds from Bond Issuance (USD mn)	500
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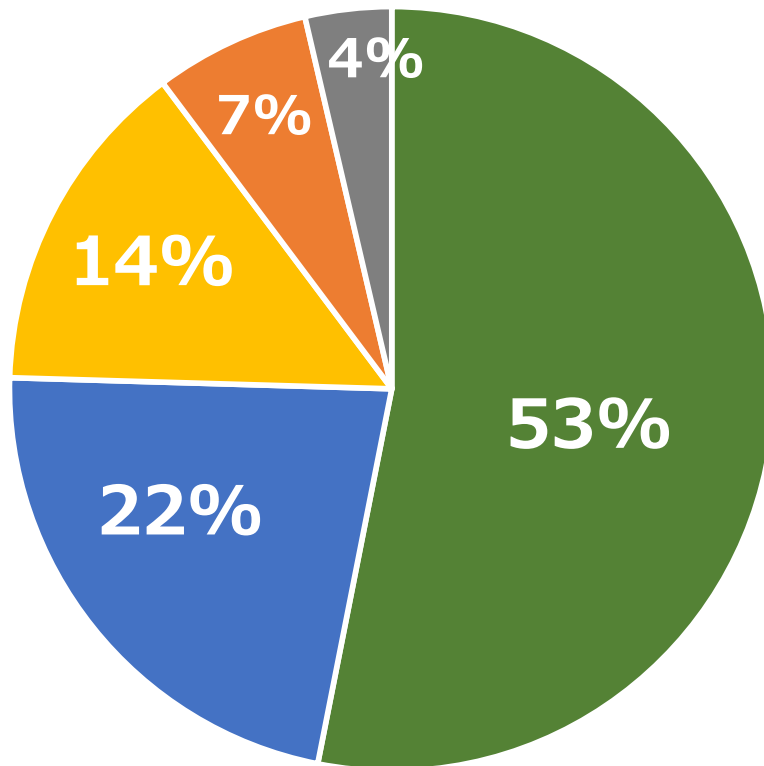
Impact Reporting : Total

Category	Sub-Category	Country	Number of Projects	Annual Power Generation (MWh)	CO2 Emissions Reduction (t-CO2)	of which Norinchukin Financed
Renewable Energy	Offshore Wind	Germany UK US	11	29,275,394	10,339,148	519,344
Renewable Energy	Onshore Wind	Canada	2	1,847,484	576,415	53,323
Renewable Energy	Solar	Japan US	11	1,710,629	720,042	145,196
Green Bulding	Office	Japan	2	-	10,554	302

Total	26	32,833,508	11,646,159	718,166
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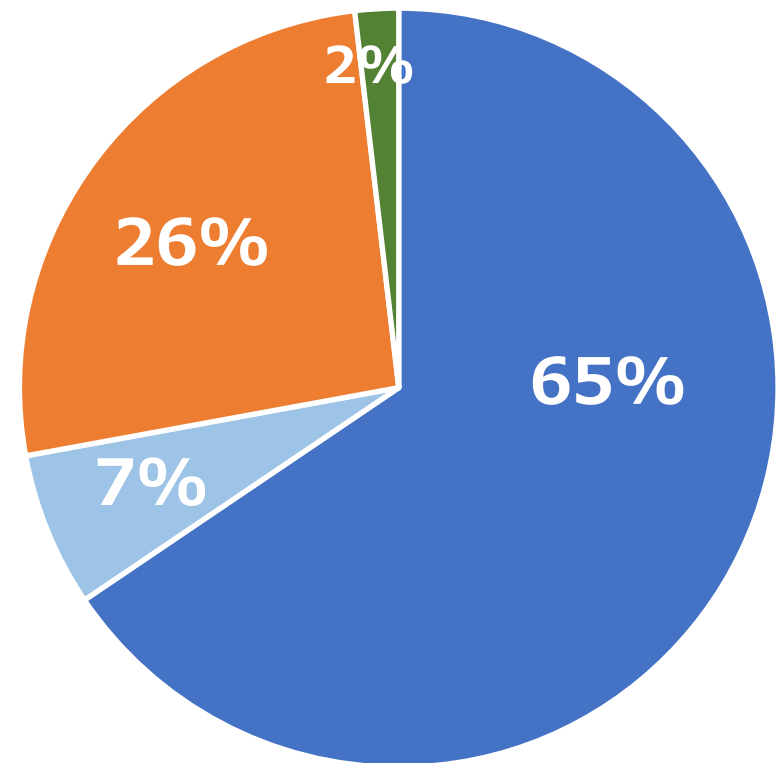
Use of proceeds by Country and Sub-category

By Country



■ UK
■ Japan
■ US
■ Canada
■ Germany

By Sub-Category



■ Offshore Wind
■ Solar
■ Onshore Wind
■ Green Building

Example of Eligible Assets

Offshore Wind Power Generation Project

The Norinchukin Bank signed a loan agreement to finance an offshore wind power generation project in the UK.

The power plant is located 120km from the Yorkshire coast and is now commercially operational.

It has a total generation capacity of 1,218MW, which is enough to provide power for well over 1 million ordinary households in the UK.



Hornsea One Offshore Wind Farm Project

Solar Power Generation Project

The Norinchukin Bank provided project financing for a solar power generation project in Fukushima Prefecture, Japan.

The power plant has a total generation capacity of 44MW and commenced commercial operation in 2020.



Fukushima Ishikawa Solar Project

Calculation Method of CO₂ Emission Reduction

Renewable Energy

Annual Power Generation (MWh)

= Facility Capacity (MW) × 24hours × 365days × Capacity Factor (*1)

Annual CO₂ Emissions Reduction

= Annual Power Generation (MWh) × CO₂ emission factor (t-CO₂/MWh : *2)

*1 Capacity factor

The capacity factor is quoted from “Renewable Power Generation Costs in 2022” released by International Renewable Energy Agency (IRENA).

Generation type	Capacity factor
Offshore Wind	42%
Onshore Wind	37%
Solar	17%

Green Building

Annual CO₂ Emissions Reduction

= Actual CO₂ emissions of eligible projects - Benchmark CO₂ emissions (*3)

Benchmark CO₂ emissions (*3)

Total floor area (m²) × Benchmark energy consumption (MJ/m² : *4) × Carbon intensity (t-CO₂/MJ)

*4 Benchmark energy consumption is published by Comprehensive Assessment System for Built Environment Efficiency (CASBEE)

*2 CO₂ emission factor

CO₂ emission factors are derived from “EIB Project Carbon Footprint Methodologies” (January 2023) released by European Investment Bank.

Country	CO ₂ Emission factor
Canada	0.312
Germany	0.523
Japan	0.448
UK	0.320
US	0.352