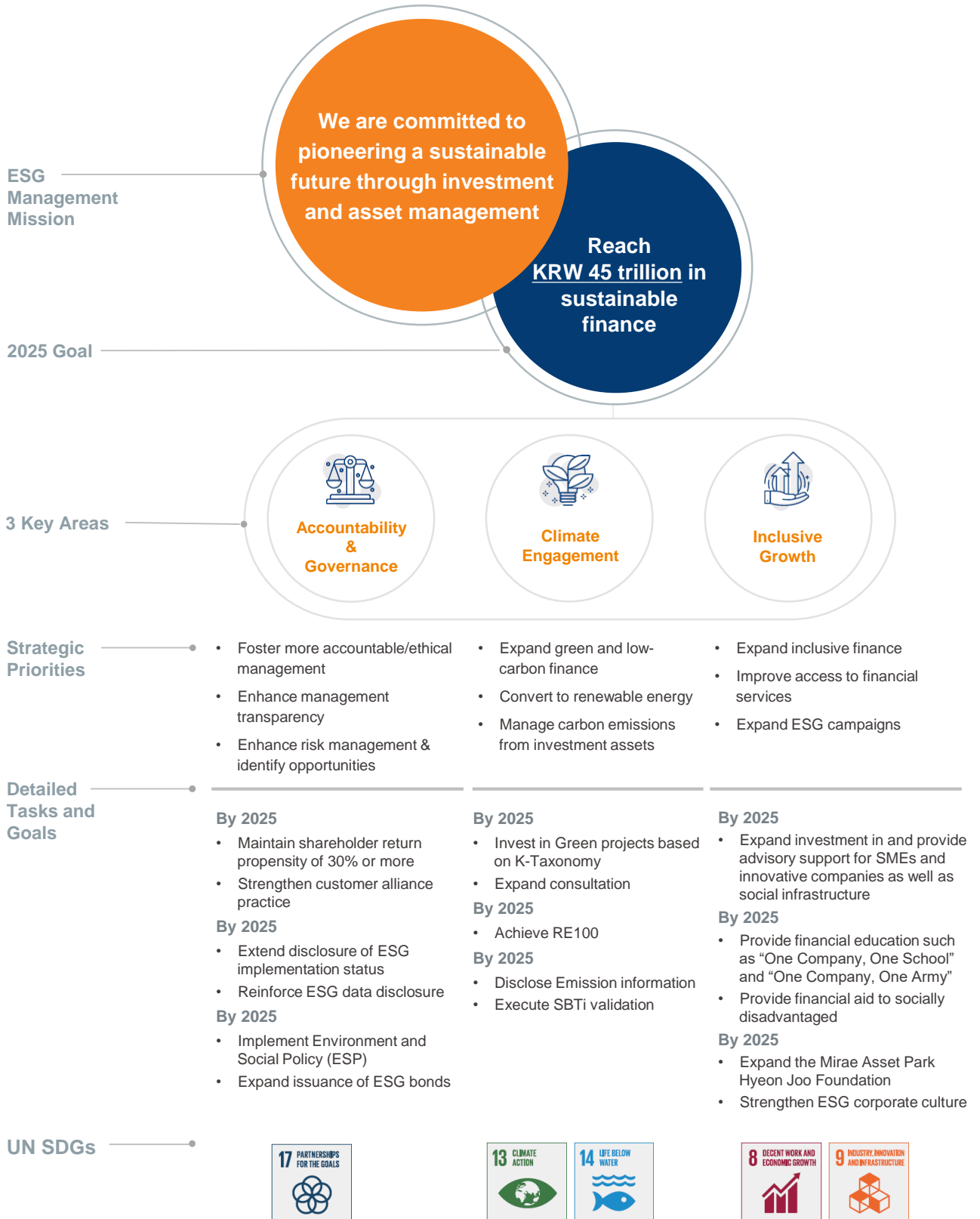


# Mirae Asset Securities

## ESG BOND ANNUAL REPORTING

July 2022

# Mid-to Long-term Strategic Direction for ESG Management

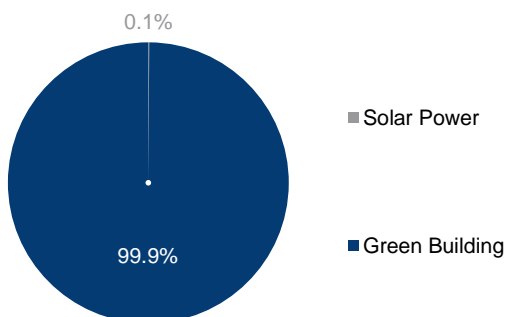


# ESG Bonds Summary

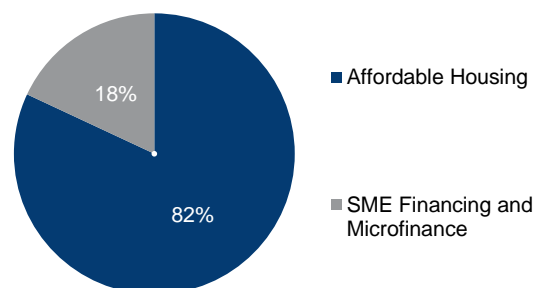
Mirae Asset Securities (“Mirae Asset”) intends to issue a series of Green, Social and Sustainability Bonds to fulfill its economic, environmental and social responsibilities. As a result, Mirae Asset issued its inaugural 3-year USD 300 million Senior Unsecured **Sustainability Bond** in April 2019 and inaugural 3-year USD 300 million Senior Unsecured **Green Bond** in June 2021.

Key Issuance Metrics		
<b>Issuer</b>	Mirae Asset Securities	
<b>Type</b>	Senior Unsecured Bond	
<b>ESG Bond</b>	<b>Sustainability Bond</b>	<b>Green Bond</b>
<b>ISIN</b>	XS1988091283	XS2357422760
<b>Issuer rating</b>	Baa2 (Moody’s) / BBB (S&P) / --	Baa2 (Moody’s) / BBB (S&P) / --
<b>Pricing date</b>	29 April 2019	29 June 2021
<b>Tenor</b>	3-year	3-year
<b>Size</b>	USD 300 million	USD 300 million
<b>Maturity</b>	7 May 2022	7 July 2024
<b>Awards</b>	<b>The Asset Country Awards 2019:</b> Best FIG bond in South Korea	-
<b>Use of Proceeds</b>	Net proceeds will be allocated to Eligible Categories in accordance with Mirae Asset’s Green, Social and Sustainability Bond Framework	

## < Green Allocation >



## < Social Allocation >



Alignment with SDGs:



Alignment with SDGs:



# Allocation Report

As of March 31, 2022, 100% of the net proceeds of the Green and Sustainability Bond were **fully allocated** to selected eligible projects in accordance with the company's Green, Social and Sustainability Bond Framework, in forms of financing and refinancing.

## Eligible Green Asset Portfolio

Green Eligible Criteria	USD 300m Sust. Bond		USD 300m Green Bond	
	Amount Allocated (USD mn)	% of Total	Amount Allocated (USD mn)	% of Total
Renewable Energy	-	-	0.6	0.2%
Green Building	266.2	100%	299.4	99.8%
<b>Total</b>	<b>266.2</b>	<b>100%</b>	<b>300.0</b>	<b>100%</b>

### Green Asset Allocation Breakdown by country:



## Eligible Social Asset Portfolio

Social Eligible Criteria	USD 300m Sust. Bond		USD 300m Green Bond	
	Amount Allocated (USD mn)	% of Total	Amount Allocated (USD mn)	% of Total
Affordable Housing	27.7	82.0%	-	-
SME Financing and Microfinance	6.1	18.0%	-	-
<b>Total</b>	<b>33.8</b>	<b>100%</b>	<b>-</b>	<b>-</b>

# Impact Report - Green

## I. Renewable Energy<sup>1</sup>

Project	Installed Capacity (MW)	Mirae Asset's Share	
		Exp. Energy Generation (MWh/year)	Exp. CO <sub>2</sub> Avoided (kg/year)
Japan Solar Power	41.4	25	11,127
Korea Solar Power A	1.7	112	52,829
Korea Solar Power B	1.7	67	31,676
<b>Total</b>	<b>44.8</b>	<b>203</b>	<b>95,633</b>

### Green Impact Calculation Methodologies:

- Following the EIB guidelines, the carbon impact of renewable energy projects is assessed against country-specific baselines for intermittent electricity generation, used for solar and wind electricity generation. ([Source: EIB Projected Carbon Footprint Methodologies, February 2022](#))

## II. Green Buildings



**BREEAM**<sup>®</sup>

Project	Location	Gross Floor Area (m2)	Green Building Certificate
Green Building A	Korea	506,318	LEED Gold
Green Building B	France	66,846	BREEAM Excellent
Green Building C	France	66,846	BREEAM Excellent
Green Building D	UK	27,714	BREEAM Excellent
Green Building E	UK	14,563	BREEAM Excellent
Green Building F	Germany	99,364	LEED Gold
Green Building G	UK	26,626	BREEAM Very Good
Green Building H	Korea	32,055	G-SEED 2
Green Building I	USA	131,519	LEED Gold
Green Building J	USA	131,519	LEED Gold
Green Building K	Korea	8,556	G-SEED 2
Green Building L	France	66,846	BREEAM Excellent
<b>Total</b>	<b>-</b>	<b>1,178,772</b>	<b>-</b>

# Impact Report - Social

## I. SME Financing and Microfinance

Project	Investment Period	Number of SMEs Financed
Venture Investment Fund A	20 Nov 2018 ~	29
Venture Investment Fund B	28 Dec 2017 ~	30
<b>Total</b>	-	<b>59</b>

## II. Affordable Housing

Project	Location	Gross Floor Area (m2)	Number of Target Households
Youth Housing Project A	Korea	8,661.0	882
Youth Housing Project B	Korea	6,735.9	922
Youth Housing Project C	Korea	-	285
Youth Housing Project D	Korea	8,661.0	882
Youth Housing Project E	Korea	8,661.0	882
Youth Housing Project F	Korea	-	285
Youth Housing Project G	Korea	-	217
Youth Housing Project H	Korea	-	252
Public Housing Project A	Korea	106,481.0	2,623
<b>Total</b>	-	<b>139,199.9</b>	<b>7,230</b>

# Case Study: Green Buildings (Domestic)

## I. IFC Seoul



### FACTS:

- **Address**  
Yeongdeungpo-gu, Seoul, Korea
- **Gross Floor Area**  
506,318m<sup>2</sup>
- **Let Lettable Area**  
454,945m<sup>2</sup>

Certification

**LEED Gold**

Avoided GHG emissions

**11,507,995**

kg CO2 equiv.

## II. Yeongdeungpo Fairfield Hotel



### FACTS:

- **Address**  
Yeongdeungpo-gu, Seoul, Korea
- **Gross Floor Area**  
32,055m<sup>2</sup>
- **Let Lettable Area**  
32,055m<sup>2</sup>

Certification

**GSEED**

Avoided GHG emissions

**2,020,525**

kg CO2 equiv.

## III. Busan Fairfield Hotel



### FACTS:

- **Address**  
Haeundae-gu, Busan, Korea
- **Gross Floor Area**  
8,556m<sup>2</sup>
- **Let Lettable Area**  
8,556m<sup>2</sup>

Certification

**GSEED**

Avoided GHG emissions

**418,698**

kg CO2 equiv.

## Case Study: Green Buildings (Overseas)

### IV. Glasgow Morgan Stanley office in London



#### FACTS:

- **Address**  
122 Waterloo St, Glasgow G2  
7DP, UK
- **Gross Floor Area**  
14,563m<sup>2</sup>
- **Let Lettable Area**  
14,563m<sup>2</sup>

Certification

**BREEAM  
Excellent**

Avoided GHG emissions

**1,091,497**  
kg CO2 equiv.

### V. Cannon Bridge House in London



#### FACTS:

- **Address**  
25 Dowgate Hill, London EC4R  
2YA, UK
- **Gross Floor Area**  
26,626m<sup>2</sup>
- **Let Lettable Area**  
26,626m<sup>2</sup>

Certification

**BREEAM  
Very Good**

Avoided GHG emissions

**616,392**  
kg CO2 equiv.



# Green, Social and Sustainability Bond Framework

## Use of Proceeds

### ➤ Eligible Green Projects

- ✓ **R**enewable Energy
- ✓ **G**reen Building
- ✓ **S**ustainable Water and Wastewater Management

### ➤ Eligible Social Projects

- ✓ **S**ME Financing and Microfinance
- ✓ **A**ffordable Housing

**Exclusion Criteria:** Luxury sectors | Child Labor | Adult Entertainment | Weapon | Alcohol | Tobacco | Fossil fuel | Nuclear power

## Project Evaluation and Selection

- Eligible projects are identified and proposed by Mirae Asset’s business units
- ▼
- Mirae Asset’s ESG Implementation Team and Working Committee assesses environmental and social impact of potential eligible projects
- ▼
- Annually, the ESG Implementation Team and Working Committee reviews allocation of the GSS Bond proceeds to the Eligible Projects and determine if any changes are necessary

## Management of Proceeds

- Mirae Asset established GSS Bond Register (the “Register”) to record issuance terms and allocations, and track the use of bond proceeds. The proceeds will be deposited in the general funding accounts and earmarked for allocation to eligible assets
- The Register will be reviewed annually by the ESG Implementation Team and Working Committee to account for any re-allocation, repayments or drawings on the Eligible Projects

## Reporting

- The reporting will be available to investors within approximately one year from the date of the bond issuance and yearly thereafter until the bond proceeds have been fully allocated
- Mirae Asset will provide annual impact reporting on relevant impact metrics for each category of Eligible Projects on a best effort basis

## Second Party Opinion

“ Sustainalytics is of the opinion that the Mirae Asset Securities Co., Ltd. Green, Social and Sustainability Bond Framework is credible and impactful, and aligns with the Green Bond Principles 2018, the Social Bond Principles 2018 and the Sustainability Bond Guidelines 2018



”

# Second Party Opinion on Reporting



WHEN TRUST MATTERS



## MIRAE ASSET SECURITIES PERIODIC REVIEW



**Document title:** Periodic Review on Mirae Asset Securities' ESG Bond Annual Reporting

**Prepared by:** DNV Business Assurance Korea Ltd.

**Location:** Seoul, Republic of Korea

**Date:** 21 July 2022

**Ref. Nr.:** PRJN-414885

This statement is valid until the ESG Bond Annual Reporting provided in July 2022 remains unchanged.