

May 20, 2024

Mitsui Sumitomo Primary Life Insurance Company, Limited.

Disclosure of European Embedded Value as of March 31, 2024

Mitsui Sumitomo Primary Life Insurance Co., Ltd. (hereafter “MSI Primary Life” or “the Company”, President: Jun Kurata), a member of MS&AD Insurance Group, hereby discloses the European Embedded Value (“EEV”) as of March 31, 2024.

Executive Summary:

The Company’s EEV at March 31, 2024 was Yen 719.4 billion, an increase of Yen 54.7 billion from the EEV at March 31, 2023. The main reason for the increase in value is due to financial market movements.

(Yen billions)

	March 31, 2023	March 31, 2024	
			Increase (decrease)
EEV	664.6	719.4	54.7
Value of net assets	429.3	424.5	(4.8)
Value of in-force business	235.2	294.8	59.5
Value of new business	4.8	0.9	(3.8)

Attachments

March 31, 2024 EEV

[Attachments]

March 31, 2024 EEV

Contents

1. Overview

- 1-1. Embedded Value
- 1-2. EEV
- 1-3. The Company's EEV
- 1-4. Use of EV

2. EEV Calculation Results

- 2-1. The Company's EEV
- 2-2. Value of Net Assets
- 2-3. Value of In-force Business
- 2-4. Value of New Business

3. Movement Analysis of EEV

4. Sensitivity Analysis

- 4-1. Sensitivity Analysis of EEV
- 4-2. Sensitivity Analysis of the Value of New Business

5. EEV Methodology

6. Principal EEV Assumptions

7. Actuarial Opinion

1. Overview

1-1. Embedded Value

Embedded value (“EV”) is calculated by adding the value of net assets at the valuation date to the discounted present value of future profits arising from the in-force business at the valuation date (“Value of In-Force”).

Business performance can be difficult to interpret using current statutory accounting which applies initial costs at the time of insurance contract sale, with profits emerging in later years. By considering the present value of future profits of in-force business, EV can be said to be a useful supplement to statutory accounting measures regarding business performance and company value.

1-2. EEV

The EEV Principles and related guidance were published in May 2004 by the CFO Forum, an organization comprising the chief financial officers of Europe's leading life insurers, in order to improve consistency and transparency in EV reporting. In October 2005, further guidance on minimum required disclosures of sensitivities and other items was provided by the CFO Forum. In May 2016, an amended version of the EEV Principles was published by the CFO Forum which permits the use of projection methods and assumptions aligned with those applied for the European Solvency II regime, which came into effect in January 2016, and equivalent market consistent solvency regimes. EEV is EV calculated following the EEV Principles and related guidance, and the calculation of EEV has been adopted by a large number of life insurers in Europe and Japan.

1-3. The Company’s EEV

The EEV disclosed herein covers only the business of the Company. As a result, the EEV disclosed herein is not the consolidated EEV of MS&AD Insurance Group, and does not cover the business of other life insurers, non-life insurers, or reinsurers within the Group

In the calculation of EEV, the Company has adopted a market-adjusted valuation approach. A market-adjusted valuation approach is based on the valuation by the market-consistent approach, while the value of fixed products are calculated using a discount rate that reflects the spread rates of actual assets held by the Company, and is based on the discussion in the Insurance Capital Standard (ICS) being developed by the International Association of Insurance Supervisors. We have chosen a market-adjusted approach to better reflect the enhancements to asset management in accordance with the characteristics of the Company’s insurance liabilities, and also, through the adoption of the EEV Principles and associated guidance, to increase the transparency and comparability of the calculation of our results.

1-4. Use of EV

In calculating the EV of the Company, numerous assumptions are required concerning the future, which is inherently uncertain. As a result, future conditions may differ, perhaps significantly, from those assumed in the calculation of the embedded value. Further, the EV is not the only indicator of the value of a company, and investors may incorporate other information into their views on the value of a company which may differ significantly from the EV. Sufficient caution should be exercised when using the EV, with the aforementioned considerations kept in mind.

2. EEV Calculation Results

2-1. The Company's EEV

The EEV of the Company at March 31, 2024 was Yen 719.4 billion, an increase of Yen 54.7 billion (+8.2%) from EEV at March 31, 2023. The overall value of net assets was Yen 424.5 billion, a decrease of Yen 4.8 billion and the value of in-force business was Yen 294.8 billion, an increase of Yen 59.5 billion.

The increase of EEV was mainly due to financial market movements.

(Yen billions)

	March 31, 2023	March 31, 2024	
			Increase (decrease)
EEV	664.6	719.4	54.7
Value of net assets	429.3	424.5	(4.8)
Value of in-force business	235.2	294.8	59.5
Value of new business	4.8	0.9	(3.8)

2-2. Value of Net Assets

The value of net assets represents the market value of assets in excess of policyholder and other liabilities.

In other words, the value of net assets is calculated by adjusting the total net assets on the balance sheet for the retained earnings in quasi-equity liabilities, unrealized gains or losses in assets or liabilities not accounted for under the mark-to-market methodology and tax effect equivalents on the items above. The breakdown of the Company's value of net assets is as follows:

(Yen billions)

	March 31, 2023	March 31, 2024	Increase (decrease)
Value of net assets	429.3	424.5	(4.8)
Net assets ^(*1)	246.6	258.6	12.0
Contingency reserve ^(*2)	73.3	98.0	24.7
Price fluctuation reserve	198.1	144.1	(54.0)
Unrealized gains/losses on securities ^(*3)	8.0	18.1	10.1
Other adjustment ^(*4)	(25.6)	(29.9)	(4.2)
Tax effects on the above	(71.0)	(64.5)	6.5

(*1): Excluding unrealized gains and losses on balance sheet.

(*2): Excluding Contingency reserve III ("CR III"), which was reserved for minimum guarantee risk for variable products.

(*3): The unrealized gains and losses on securities and certain other assets backing policy reserves (Yen (156.7) billion at March 31, 2023 and Yen (102.8) billion at March 31, 2024.) is allocated to the value of in-force rather than the value of net assets.

(*4): An adjustment regarding unamortized ceding commission of the surplus relief reinsurance has been made for EEV calculation.

2-3. Value of In-force Business

The value of in-force business corresponds to the present value of future profits arising from business in-force and the assets backing policy reserves, including the value of unrealized gains and losses on securities and certain other assets at the valuation date. The breakdown by item is as follows:

(Yen billions)

	March 31, 2023	March 31, 2024	Increase (decrease)
Value of in-force business	235.2	294.8	59.5
Present value of future profits	279.0	327.9	48.9
Time value of financial options and guarantees	(26.5)	(10.7)	15.9
Cost of holding required capital	(6.6)	(10.3)	(3.6)
Allowance for non-hedgeable risks	(10.4)	(12.1)	(1.6)

- The present value of future profits is the present value of after-tax profits based on the projected cash flows calculated on a deterministic basis. The discount rate used in discounting cash flows related to asset investment and after-tax future profits is equal to the investment yield. For variable products, the investment yield of all assets is assumed to be the risk-free rate, while for fixed products, investment yield is assumed to be the risk-free rate plus a spread based on the actual assets held by the Company. In addition, it includes the value of unrealized gains and losses on securities and certain other assets backing policy reserves.
- The time value of financial options and guarantees is the value associated with the fluctuation of future cash flows, i.e. it is the value aside from the base value which is captured in the present value of future profits.
- The cost of holding required capital arises from the taxation on investment returns on required capital assets and the related investment expenses incurred for the management of the assets.
- The allowance for non-hedgeable risks covers costs not otherwise included in the present value of future profits or the time value of financial options and guarantees, including operational risk and other risk.

2-4. Value of New Business

The value of new business is the value of new policies at the time of sale, acquired during the reporting period. Non-economic assumptions employed are the same as for the value of in-force business but point of sale economic assumptions have been used.

(Yen billions)

	Year ended March 31, 2023	Year ended March 31, 2024	Increase (decrease)
Value of new business	4.8	0.9	(3.8)
Present value of future profits	18.5	16.2	(2.3)
Time value of financial options and guarantees	(7.8)	(6.9)	0.9
Cost of holding required capital	(2.0)	(3.6)	(1.6)
Allowance for non-hedgeable risks	(3.8)	(4.6)	(0.8)

The new business margins are as follows:

(Yen billions)

	Year ended March 31, 2023	Year ended March 31, 2024	Increase (decrease)
Value of new business	4.8	0.9	(3.8)
Present value of future premium income	1,228.4	1,363.9	135.4
New business margin	0.4%	0.1%	(0.3%)

- The present value of future premium income is the future premium income discounted at the discount rate.
- The new business margin is the value of new business divided by the present value of future premium income.

3. Movement Analysis of EEV

(Yen billions)

	Value of net assets	Value of in-force	EEV
EEV at March 31, 2023	429.3	235.2	664.6
(1) Opening adjustments	(6.8)	0.0	(6.8)
EEV at March 31, 2023 after adjustment	422.5	235.2	657.8
(2) New business in reporting year	0.0	0.9	0.9
(3) Expected existing business contribution at the reference rate	0.1	4.3	4.5
(4) Expected existing business contribution above reference rate	0.1	2.2	2.4
(5) Transfers from value of in-force to value of net assets	43.5	(43.5)	0.0
Of which due to in-force at end of previous year	90.3	(90.3)	0.0
Of which due to new business	(46.8)	46.8	0.0
(6) Operating experience variances	0.0	0.1	0.1
(7) Changes in operating assumptions	0.0	(11.3)	(11.3)
(8) Economic variances and changes to economic assumptions	(41.8)	106.7	64.8
(9) Other operating movements	0.0	0.0	0.0
(10) Other non-operating movements	0.0	0.0	0.0
EEV at March 31, 2024	424.5	294.8	719.4

(1) Opening adjustments

This amount consists of shareholder dividends paid during the fiscal year ended March 31, 2024 and is deducted from the value of net assets.

(2) Value of new business

The value of new business represents the value of new policies at the time of sale, acquired during the reporting year. Non-economic assumptions employed are the same as for the value of in-force business but point of sale economic assumptions have been used. Please refer to section 2-4 for the value of new business using the calculation method.

(3) Expected existing business contribution at the reference rate

In the market consistent approach, future profits distributable to shareholders are

discounted at the reference rate to produce the value of in-force business. The expected existing business contribution at the reference rate represents the unwinding of this discounting. This item includes the unwinding of the time value of options and guarantees, the cost of required capital, and the cost of non-hedgeable risk.

(4) Expected existing business contribution above the reference rate

The market consistent approach assumes all future investment returns are equal to the reference rate, but due to the actual risk characteristics of the assets held, a return in excess of the reference rate is expected. This item represents the excess investment income expected over the reference rate. For the expected return used, please refer to section 6-1-4.

(5) Transfers from value of in-force to the value of net assets

A part of the value of in-force business as of the end of the previous year and a part of the value of new business during the reporting year (i.e. the profit associated with the current year) are transferred to the value of net assets. This item is the transferred value. The transfer does not increase or decrease the total EEV.

(6) Operating experience variances

This item is the result of differences between expected experience as at the end of the previous year, and realized experience.

(7) Changes to operating assumptions

This item represents the impact on future profits of changes in operating assumptions since the end of the previous year. The negative impact this year is mainly due to increases in expense assumptions (including future expense inflation).

(8) Economic variances and changes to economic assumptions

This is the variance due to differences between economic assumptions (market interest rates, implied volatilities, and other assumptions) as at the end of the previous year, actually realized experience, and changes in economic assumptions. The increase in the value of EEV is mainly due financial market movements.

(9) Other operating movements

This item represents the impact on future profits of operational changes, excluding changes in operating assumptions. No changes are included in this item.

(10) Other non-operating movements

No changes are included in this item.

4. Sensitivity Analysis

4-1. Sensitivity Analysis of EEV

The following table shows a sensitivity analysis of the EEV to changes in assumptions.

(Yen billions)		
Assumptions	EEV	Increase (decrease)
EEV at March 31, 2024	719.4	-
Sensitivity 1: 50bp upward parallel shift in risk-free yield curve	714.3	(5.1)
Sensitivity 2: 50bp downward parallel shift in risk-free yield curve	724.5	5.1
Sensitivity 3: 10% decline in equity and real estate values	717.4	(1.9)
Sensitivity 4: 10% decline in maintenance expenses	726.5	7.1
Sensitivity 5: 10% decline in surrender and lapse rates	717.0	(2.3)
Sensitivity 6: 5% decline in mortality and morbidity rates for life insurance products	723.2	3.8
Sensitivity 7: 5% decline in mortality and morbidity rates for annuity products	718.3	(1.0)
Sensitivity 8: Equity and property implied volatility increase of 25%	717.9	(1.4)
Sensitivity 9: Swaption implied volatility increase of 25%	716.6	(2.7)
Sensitivity 10: Required capital set at statutory minimum level	728.2	8.8
Sensitivity 11: Nil spread	602.6	(116.7)

- Sensitivity 1

The item represents the effect on EEV of an upward parallel shift of 50bp in the yield curve of risk-free forward rates. Changes in the prices of bonds and loans change the value of net assets. Also, as future expected investment yields change, the value of in-force business changes. The level of spread rates above risk-free rate for fixed products remains the same as base scenario. (Same applicable to Sensitivity 2)

- Sensitivity 2

The item represents the effect on EEV of a downward parallel shift of 50bp in the yield curve of risk-free forward rates. The risk-free forward rates are reduced by 50bp without the lower limitation of zero.

- Sensitivity 3

This item shows the effect on EEV of a decline of 10% in equity and real estate values.

- Sensitivity 4

The item represents the effect on EEV of a decrease of 10% in estimated maintenance expenses associated with maintaining in-force business.

- Sensitivity 5

The item represents the effect on EEV of a decrease of 10% in surrender and lapse rates.

- Sensitivity 6

The item represents the effect on EEV of a decrease of 5% in mortality and morbidity rates for life and medical insurance products.

- Sensitivity 7

The item represents the effect on EEV of a decrease of 5% in mortality rates for annuities.

- Sensitivity 8

The item represents the effect on EEV of an increase of 25% in the implied volatilities of equity and real estate values. This effect occurs because the value of in-force business changes as the time value of financial options and guarantees changes.

- Sensitivity 9

The item represents the effect on EEV of an increase of 25% in the implied volatilities of swaptions. This effect occurs because the value of in-force business changes as the time value of financial options and guarantees changes.

- Sensitivity 10

The item represents the effect on EEV in the event that required capital was changed to the statutory minimum level in Japan of a 200% solvency margin ratio.

- Sensitivity 11

The item represents the effect on EEV of eliminating the spread rates above risk-free rates from the economic assumption basis.

4-2. Sensitivity Analysis of the Value of New Business

(Yen billions)

Assumptions	Value of new business	Increase (decrease)
Value of new business issued in the fiscal year of 2023	0.9	-
Sensitivity 1: 50bp upward parallel shift in risk-free yield curve	3.9	3.0
Sensitivity 2: 50bp downward parallel shift in risk-free yield curve	(3.0)	(3.9)
Sensitivity 3: 10% decline in equity and real estate values	0.8	(0.0)
Sensitivity 4: 10% decline in maintenance expenses	3.2	2.2
Sensitivity 5: 10% decline in surrender and lapse rates	1.1	0.2
Sensitivity 6: 5% decline in mortality and morbidity rates for life insurance products	2.9	2.0
Sensitivity 7: 5% decline in mortality and morbidity rates for annuity products	0.8	(0.1)
Sensitivity 8: Equity and property implied volatility increase of 25%	0.8	(0.0)
Sensitivity 9: Swaption implied volatility increase of 25%	(1.6)	(2.5)
Sensitivity 10: Required capital set at statutory minimum level	3.9	3.0
Sensitivity 11: Nil spread	(88.2)	(89.2)

The calculation approach is the same as for the sensitivities of the value of in-force business shown in Section 4-1.

5. EEV Methodology

The methodology and assumptions adopted by the Company to calculate EEV are market-adjusted valuation approach and in accordance with the EEV Principles and related guidance issued by the CFO Forum.

5-1. Covered business

The covered business represents all the life insurance business of the Company at the valuation date, and the Company has no subsidiaries. Any services provided by other companies in the MS&AD Insurance Group to the Company have been treated on an arms-length basis in these EEV results, as this EEV disclosure is from the Company perspective and not MS&AD Group.

5-2. Value of net assets

The value of net assets is calculated by adjusting the total net assets on the Company's balance sheet for the following:

- In order to mark to market, differences in market value and book value of assets and liabilities other than insurance contract liabilities have been reflected on an after-tax basis. The unrealized gains and losses on securities and certain other assets backing policy reserves is allocated to the value of in-force rather than the value of net assets.
- Liabilities that are appropriate to be added to the value of net assets (the contingency reserve, excluding CR III, and reserve for price fluctuations) have been added on an after-tax basis.
- The value of net assets is shown after adjustment for the future costs of amortization of surplus relief reinsurance commission. The Company receives surplus relief reinsurance commission from the reinsurer to reduce the burden of initial costs at the time of new policy sale, and the commission is amortized over the contract period. For EEV purposes, we reclassify the future cost of amortization for surplus relief reinsurance commission from the value of in-force business to the value of net assets because we consider the reclassification more appropriately expresses the value of in-force business and the value of net assets.

The value of net assets consists of required capital and free surplus. Please refer to the amount respectively in "5-6. Cost of holding required capital".

5-3. Value of in-force business

The value of in-force business is calculated as the present value of projected after-tax profits deducting the time value of financial options and guarantees, the cost of holding required capital and allowance for non-hedgeable risks. The value of new business is calculated in the same way.

5-4. Present value of future profits

The present value of future profits is the present value of after-tax profits based on the projected cash flows calculated on a deterministic basis. The discount rate used in discounting cash flows related to asset investment and after-tax future profits is equal to the investment yield. For variable products, investment yield of all assets is assumed to be the risk-free rate, while for fixed products, the investment yield is assumed to be risk-free rate plus a spread based on the actual assets held by the Company. In addition, the value of unrealized gains and losses on securities and certain other assets. The intrinsic value of options and guarantees is included in this item. As described in “5-2. Value of net assets”, the present value of future profits is shown after the adjustment regarding the surplus relief reinsurance.

5-5. Time value of financial options and guarantees

The time value of financial options and guarantees is calculated as the difference between the present value of future profits and the average of the present value of future after-tax profits calculated by stochastic methods using economic assumptions as described in “6-1-3. Economic scenarios”.

The projected asset allocation is assumed to be the same as the asset allocation at the valuation date.

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The following options and guarantees are considered in calculating the time value of financial options and guarantees.

- Minimum guarantees for variable products

For variable products with minimum guarantees, the benefits of investment performance belong to policyholders if it is higher than minimum guarantee level, while the Company must be responsible for costs to pay minimum guarantee benefits if the performance is unfavorable.

- Automatic general account conversion at target

Automatic general account conversion at target rider is available to the policyholders of both variable products and foreign currency denominated fixed products where the fund value is automatically converted to a secure general account dominated in Japanese Yen when the surrender value reaches a target value set by the policyholder.

- Policyholder behavior

Policyholders have the option to lapse at any time. We have considered the cost of

dynamic lapse for variable products and fixed products.

5-6. Cost of holding required capital

In order to secure financial solidity, life insurance companies are required to hold additional assets in excess of the statutory liability. The cost of holding required capital is the cost incurred through the payment of taxes on the investment income of the assets backing the required capital and the related investment expenses incurred for the management of the assets.

The Company defined required capital as the capital level required to maintain a target solvency margin ratio. The target solvency margin ratio was taken to be 600% on the solvency margin basis in Japan. The required capital on the respective bases was Yen 207.0 billion at March 31, 2023 and Yen 333.8 billion at March 31, 2024. (Free surplus was Yen 222.3 billion and Yen 90.7 billion, respectively.) The solvency margin basis permits the inclusion of the excess of policyholders' contract deposits up to a definite limit, and this inclusion was similarly reflected in this calculation.

5-7. Allowance for non-hedgeable risks

EEV Principles define the EV to be the present value of distributable profits attributable to shareholders arising from assets allocated to the covered business, calculated taking into account all the risks of the covered business.

Most of the uncertainty in future cash flow is captured in the present value of future profits and the time value of options and guarantees. However, other risk factors should be considered, and we have included allowance for the cost of these risks in the EEV based on the results of simple models. The items are as follows.

- Reinsurance counterparty default risk

The Company has transferred most of the minimum guarantee risks of the variable products and coinsured a portion of fixed products to reinsurance companies. These risks are therefore considered in terms of risk to the Company of reinsurance counterparty default.

- Operational risks

- Non-recoverability of future tax losses

In the future, if a loss arises, a tax loss is created, but may not be fully recoverable in subsequent years, in which case it cannot serve to reduce the tax burden of the Company. This risk is not included in the value of future profits or in the time value of options and

guarantees, so we have considered it separately.

- Risk of uncertainty on spread assumption for fixed products

We have considered the risk of uncertainty on investment assumptions on fixed products, where the investment yield is assumed to be risk-free rates plus a spread based on the actual assets held by the Company.

5-8. Value of new business

The value of new business is shown as the value of new policies at the time of sale, acquired during the reporting year. Non-economic assumptions employed are basically the same as for the value of in-force business but point of sale economic assumptions have been used.

The value of new business is based on the definitions used for statutory reporting, and includes new premiums and additional premiums paid by existing policyholders, but does not include renewals of existing policies.

6. Principal EEV Assumptions

6-1. Economic assumptions

6-1-1. Risk-free rates

In the calculation, reference rates based on the swap rates as at the valuation date are used, taking into account assets in the Company's portfolio and the liquidity of the market. We have taken the forward rate for year's beyond which market rates are available to be the same as the forward rate for the last year for which market data is available (year 40). The table below shows, for selected terms, the Japanese Yen (JPY) swap rates (spot rates) which we have used.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 10	Year 15
March 31, 2024	0.175%	0.289%	0.366%	0.427%	0.493%	0.853%	1.154%
March 31, 2023	0.054%	0.125%	0.180%	0.230%	0.291%	0.622%	0.849%
	Year 20	Year 25	Year 30	Year 35	Year 40	Year 45	Year 50
March 31, 2024	1.395%	1.520%	1.580%	1.593%	1.586%	1.579%	1.573%
March 31, 2023	1.022%	1.077%	1.085%	1.084%	1.080%	1.077%	1.075%

(Source: Bloomberg, shown above following extrapolation and interpolation)

6-1-2. Discount rate

For fixed products, which mainly consist of Japanese Yen (JPY), US dollars (USD) and Australian Dollars (AUD) denominated products, the discount rates for each currency assume a spread above risk-free rates based on actual assets of a company. The spreads used for valuation is based on the assets actually held by the Company and calculated by the weighted-average of the spreads that exceeds risk-free rates for each currency as of each valuation date. Default rates is applied when calculating the spread above, whereby default rates are determined by duration and rating based on historical records. The table below shows the discount rate rates converted to spot rates which we have used.

Inforce Business							
JPY	Year 1	Year 3	Year 5	Year 10	Year 15	Year 20	Year 30
March 31, 2024	0.486%	0.677%	0.805%	1.165%	1.414%	1.591%	1.711%
March 31, 2023	0.560%	0.687%	0.798%	1.132%	1.272%	1.341%	1.297%
USD	Year 1	Year 3	Year 5	Year 10	Year 15	Year 20	Year 30
March 31, 2024	6.148%	5.319%	5.033%	4.883%	4.714%	4.459%	3.970%
March 31, 2023	6.214%	5.171%	4.810%	4.618%	4.393%	4.044%	3.474%
AUD	Year 1	Year 3	Year 5	Year 10	Year 15	Year 20	Year 30
March 31, 2024	5.157%	4.768%	4.746%	5.027%	5.063%	4.895%	4.442%
March 31, 2023	4.671%	4.446%	4.501%	4.851%	4.843%	4.559%	3.967%

New Business							
JPY	Year 1	Year 3	Year 5	Year 10	Year 15	Year 20	Year 30
Year ended March 31, 2024	0.572%	0.764%	0.892%	1.252%	1.555%	1.797%	1.982%
Year ended March 31, 2023	0.518%	0.645%	0.756%	1.089%	1.316%	1.491%	1.554%
USD	Year 1	Year 3	Year 5	Year 10	Year 15	Year 20	Year 30
Year ended March 31, 2024	6.352%	5.521%	5.235%	5.085%	5.076%	5.028%	4.724%
Year ended March 31, 2023	6.186%	5.143%	4.782%	4.591%	4.546%	4.460%	4.100%
AUD	Year 1	Year 3	Year 5	Year 10	Year 15	Year 20	Year 30
Year ended March 31, 2024	5.287%	4.898%	4.876%	5.157%	5.268%	5.229%	4.863%
Year ended March 31, 2023	4.737%	4.512%	4.567%	4.917%	4.960%	4.815%	4.324%

[Reference: USD and AUD swap rates (spot rates)]

USD	Year 1	Year 3	Year 5	Year 10	Year 15	Year 20	Year 30
March 31, 2024	5.099%	4.277%	3.994%	3.845%	3.853%	3.813%	3.541%
March 31, 2023	4.785%	3.755%	3.399%	3.210%	3.224%	3.169%	2.893%
AUD	Year 1	Year 3	Year 5	Year 10	Year 15	Year 20	Year 30
March 31, 2024	4.423%	4.036%	4.014%	4.293%	4.452%	4.438%	4.139%
March 31, 2023	3.751%	3.528%	3.582%	3.930%	4.077%	3.986%	3.587%

(Source: Bloomberg, shown above following extrapolation and interpolation)

6-1-3. Economic scenarios

1. Interest rate model

We have adopted a stochastic alpha beta rho LIBOR market model, in which interest rates associated with JPY, USD, AUD and Euro (EUR) are calculated. The model follows a risk-neutral approach in which JPY is set as a base currency, and correlations between the interest rates are taken into account. The interest rate model has been calibrated considering the market environment as of each reporting date, and the parameters used are estimated from the yield curve and implied volatilities of interest rate swaptions with various maturities. A set of 5,000 simulated economic scenarios are used in calculating time value of financial options and guarantees. These scenarios have been generated by Willis Towers Watson.

A selection of implied volatilities of interest rate swaptions used to calibrate the scenarios is as follows:

Interest rate swaptions

Option Term (years)	Swap Term (years)	March 31, 2023				March 31, 2024			
		JPY	USD	AUD	EUR	JPY	USD	AUD	EUR
5	5	45.3bp	98.3bp	91.2bp	95.7bp	43.0bp	96.4bp	84.7bp	84.0bp
5	7	43.7bp	94.4bp	87.7bp	93.8bp	41.9bp	93.8bp	82.9bp	82.9bp
5	10	43.1bp	89.9bp	82.1bp	90.9bp	41.9bp	90.5bp	81.2bp	81.7bp
7	5	42.0bp	89.9bp	81.0bp	88.5bp	42.5bp	91.0bp	78.5bp	80.9bp
7	7	41.0bp	86.9bp	79.0bp	86.4bp	41.4bp	88.8bp	76.6bp	79.5bp
7	10	40.8bp	82.9bp	75.2bp	83.2bp	41.3bp	85.8bp	75.0bp	77.9bp
10	5	39.9bp	79.2bp	70.0bp	81.4bp	42.2bp	83.3bp	69.8bp	76.5bp
10	7	39.2bp	76.8bp	68.8bp	79.0bp	41.3bp	81.3bp	68.6bp	74.6bp
10	10	39.2bp	73.8bp	67.0bp	75.4bp	41.2bp	78.5bp	68.3bp	72.2bp

(Source: Bloomberg)

JPY, USD, AUD and EUR derived from the "Normal Model"

2. Implied volatilities of equities and exchange rates

Volatilities of traditional equity indices and exchange rates are calibrated based on the implied volatilities of relevant options traded in the market. Selected implied volatilities used to calibrate the economic scenarios are as follows:

Equity Options

Currency	Underlying	Option Term	Implied Volatility	
			March 31, 2023	March 31, 2024
JPY	Nikkei225	3 Year	18.3%	19.4%
		4 Year	18.4%	19.5%
		5 Year	18.5%	19.6%
USD	S&P 500	3 Year	20.6%	18.3%
		4 Year	21.0%	19.1%
		5 Year	21.4%	19.9%

EUR	Euro Stoxx50	3 Year	18.5%	16.2%
		4 Year	18.6%	16.3%
		5 Year	19.0%	16.5%

(Source: Markit (interpolated/extrapolated))

Foreign Exchange Options

Currency	Option Term	Implied Volatility	
		March 31, 2023	March 31, 2024
USD	10 Year	9.0%	8.6%
AUD	10 Year	12.8%	12.8%
EUR	10 Year	10.3%	9.7%

(Source: Bloomberg)

3. Correlations

In addition to the use of the implied volatilities described above, we have calculated volatilities reflecting our asset portfolio composition and correlation factors among asset classes. The share of each asset in the portfolio is assumed to be unchanged over the projection period.

For correlation factors, we have not observed relevant market data from exotic options with sufficient liquidity. Therefore, we have estimated correlation factors based on the most recent 10 years of market data. The following table shows the correlation factors between the variables used. The following table shows the correlation factors between the variables used at March 31, 2024.

	JPY Short Rate	AUD Short Rate	USD Short Rate	EUR Short Rate	JPY/AUD Exchange Rate	JPY/USD Exchange Rate	JPY/EUR Exchange Rate	JPY Equity Index	USD Equity Index	EUR Equity Index
JPY Short Rate	100%	66%	65%	69%	21%	28%	27%	15%	-20%	-6%
AUD Short Rate	66%	100%	79%	81%	50%	43%	44%	16%	-15%	-10%
USD Short Rate	65%	79%	100%	79%	41%	57%	46%	26%	-9%	0%
EUR Short Rate	69%	81%	79%	100%	31%	36%	46%	13%	-26%	-14%
JPY/AUD Exchange Rate	21%	50%	41%	31%	100%	48%	69%	63%	55%	44%
JPY/USD Exchange Rate	28%	43%	57%	36%	48%	100%	64%	42%	-4%	10%
JPY/EUR Exchange Rate	27%	44%	46%	46%	69%	64%	100%	47%	23%	20%
JPY Equity Index	15%	16%	26%	13%	63%	42%	47%	100%	67%	71%
USD Equity Index	-20%	-15%	-9%	-26%	55%	-4%	23%	67%	100%	79%
EUR Equity Index	-6%	-10%	0%	-14%	44%	10%	20%	71%	79%	100%

(Source: Bloomberg)

6-1-4. Assumed investment yields on each asset class

The assumed investment yields on each asset class used in the calculation of the expected existing business contribution in excess of reference rate in the movement analysis are as follows:

Asset class	Assumed investment yield
Short term assets	0.00%
Domestic bonds	0.41%
Domestic equity	6.91%
Foreign bonds	2.98%
Foreign equity	7.46%

In the calculation of the expected existing business contribution in excess of reference rate, the portfolio investment yield is calculated by taking a weighted average of the assumed investment yield of each asset class above as of March 31, 2023.

6-2. Non-economic assumptions

All cash flows (including premiums, operating expenses, benefits and claims, payments of cash surrender value, taxes, and others) are projected applying best estimate assumptions up to the termination of the policies, with the assumptions set by product with consideration to past, current and expected future experience.

6-2-1. Expenses

Expense assumptions were set based on the actual experience in the latest year.

6-2-2. Expense inflation

The future expense inflation rate is set based on the break-even inflation rate incorporated in recently issued inflation-linked government bond and historical consumer price index, while taking account of the impact on future expenses based on our operating cost structure. We have set the future expense inflation rate as 1.16%.

6-2-3. Corporate tax rates

Corporate tax rates were set based on recent tax practice. In the EEV the corporate tax rate (including local tax) is 28.00%.

7. Actuarial Opinion

The Company requested Willis Towers Watson, an independent actuarial firm, to review the calculation of the Company's EEV results and obtained the following opinion.

Willis Towers Watson has reviewed the methodology and assumptions used to determine the embedded value results as at March 31, 2024 for MSI Primary Life. The review covered the embedded values as at March 31, 2024, the value of new business issued in fiscal year 2023, the analysis of movement in the embedded value during fiscal year 2023 and the sensitivities of the embedded value and new business value to changes in assumptions.

Willis Towers Watson has concluded that the methodology and assumptions used, together with the disclosure provided in this document, comply with the EEV Principles. In particular:

- The methodology makes allowance for the aggregate risks in the covered business through the Company's bottom-up methodology as described in this document, which includes a stochastic allowance for financial options and guarantees, and deductions to allow for the frictional cost of required capital and the impact of non-hedgeable risks. For fixed products, the Company uses a discount rate that takes the spreads of actual assets held into consideration; and
- The operating assumptions have been set with appropriate regard to past, current and expected future experience; and
- The economic assumptions used are internally consistent and consistent with observable market data.

Willis Towers Watson has also reviewed the results of the calculations, without however undertaking detailed checks of all the models, processes and calculations involved. On the basis of this review, Willis Towers Watson is satisfied that the disclosed results have been prepared, in all material respects, in accordance with the methodology and assumptions set out in this disclosure document.

In arriving at these conclusions, Willis Towers Watson has relied on data and information provided by the Company, including estimates for the market value of assets for which no market prices exist. This opinion is made solely to the Company in accordance with the terms of Willis Towers Watson's engagement letter. To the fullest extent permitted by applicable law, Willis Towers Watson does not accept or assume any responsibility, duty of care or liability to anyone other than the Company for or in connection with its review work, the opinions it has formed, or for any statement set forth in this opinion.