

May 18, 2011

Koichiro Watanabe  
President and Representative Director  
The Dai-ichi Life Insurance Company, Limited  
Code: 8750 (TSE First section)

---

## Disclosure of European Embedded Value as of March 31, 2011

---

The Dai-ichi Life Insurance Company, Limited (hereinafter “Dai-ichi Life”) hereby discloses the European Embedded Value (“EEV”) of Dai-ichi Life and Dai-ichi Frontier Life Insurance Co., Ltd (hereinafter “Dai-ichi Frontier Life” or “DFL”) (collectively, the “Group”) as of March 31, 2011.

## **Contents**

### **1. Outline**

- 1-1 About EEV
- 1-2 EEV Methodology

### **2. EEV as of March 31, 2011**

- 2-1 EEV Results of the Group
  - 2-1-1 Adjusted Net Worth
  - 2-1-2 Value of In-force Business
  - 2-1-3 Value of New Business
- 2-2 EEV by Company

### **3. Movement Analysis**

- 3-1 Movement Analysis of Group EEV
- 3-2 Movement Analysis by Company

### **4. Sensitivity Analysis**

- 4-1 Sensitivity Analysis of Group EEV
- 4-2 Sensitivity Analysis by Company

### **5. Note on Using EV**

Appendix A: EEV Methodology

Appendix B: Principal EEV Assumptions

Appendix C: Actuarial Opinion

Appendix D: Glossary

## **1. Outline**

### **1-1 About 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.

### **1-2 EEV Methodology**

In the calculation of EEV, the Group has adopted a market-consistent approach – an approach which values cash flows from both assets and liabilities of a company consistently with comparable financial instruments traded in the market. A number of insurers, mainly in Europe, have implemented similar market-consistent approaches, and in response to such trends, the CFO Forum published the European Insurance CFO Forum Market Consistent Embedded Value Principles<sup>1</sup> (the “MCEV Principles”) in June 2008. However, in light of severe market conditions, the principles were revised in October 2009, and the mandatory MCEV reporting from year-end 2011 was withdrawn by the CFO Forum in April 2011.

Taking into consideration the current situation, the Group has fully adopted the EEV Principles, while also taking into account a market-consistent approach, in calculating its EV.

The impact of the major earthquake and related tsunami that occurred in northeastern Japan on March 11, 2011 (“Earthquake”) is as follows;

- The estimated payments of claims and benefits to be incurred in relation to the Earthquake (the estimated total amount of claims and benefits is ¥30.5 billion) and the asset valuation, where Earthquake effects are taken into account, are reflected in the adjusted net worth.
- The impact on value of in-force business and value of new business is limited, although future cash flows include the impact of the Earthquake.

---

<sup>1</sup> Copyright © Stichting CFO Forum Foundation 2008

## 2. EEV as of March 31, 2011

### 2-1 EEV Results of the Group

The EEV of the Group as of March 31, 2011 is as follows:

	(billions of yen)		
	March 31, 2010	March 31, 2011	Increase (Decrease)
EEV	2,836.3	2,440.3	(396.0)
Adjusted net worth	1,863.5	1,454.2	(409.2)
Value of in-force business	972.8	986.0	13.2
Value of new business	118.9	158.1	39.1

*(Note 1) The Group EEV is calculated as follows: Dai-ichi Life's EEV plus DFL's EEV attributable to Dai-ichi Life's equity stake in DFL less Dai-ichi Life's carrying amount of equity of DFL.*

*(Note 2) Dai-ichi Life held 90.0% of the shares of DFL as of March 31, 2010 and as of March 31, 2011.*

*(Note 3) Dai-ichi Life's carrying amount of DFL's equity was ¥163.4 billion as of March 31, 2010 and as of March 31, 2011.*

#### 2-1-1 Adjusted Net Worth

Adjusted net worth represents the net assets attributed to shareholders and represents the market value of assets in excess of policyholder liabilities, represented by statutory reserves (excluding contingency reserve), and other liabilities (excluding reserve for price fluctuations).

In other words, adjusted net worth is calculated by adjusting the total net assets on the balance sheet for the retained earnings in liabilities, general reserve for possible loan losses, unrealized gains/losses in assets/liabilities not accounted for under the mark-to-market methodology, unfunded retirement benefit obligations, and tax effect equivalent of the items above. The breakdown of the Group's adjusted net worth is as follows:

(billions of yen)

	March 31, 2010	March 31, 2011	Increase (Decrease)
Adjusted net worth	1,863.5	1,454.2	(409.2)
Total net assets on the balance sheet <sup>(Note1)</sup>	720.9	664.7	(56.1)
Retained earnings in liabilities <sup>(Note2)</sup>	698.5	628.3	(70.1)
General reserve for possible loan losses	4.8	4.5	(0.3)
Unrealized gains (losses) on securities and miscellaneous items <sup>(Note3)</sup>	1,068.2	693.4	(374.8)
Unrealized gains (losses) on loans	209.3	196.0	(13.3)
Unrealized gains (losses) on real estate <sup>(Note4)</sup>	105.0	(2.7)	(107.8)
Unrealized gains (losses) on liabilities <sup>(Note5)</sup>	(19.7)	(28.6)	(8.8)
Unfunded retirement benefit obligation <sup>(Note6)</sup>	(28.5)	(37.6)	(9.1)
Tax effect equivalent of above items	(715.6)	(506.8)	208.8
Adjustment for the Trust Fund for Employee Stock Holding Partnership and Stock Granting Trust <sup>(Note7)</sup>	-	17.4	17.4
Consolidation adjustment <sup>(Note8)</sup>	(163.4)	(163.4)	0.0
Minority interest in DFL's adjusted net worth <sup>(Note9)</sup>	(16.2)	(10.9)	5.2

(Note 1) The total amount of valuation and translation adjustments are excluded. Effective the fiscal year ended March 31, 2011, an adjustment regarding the surplus relief reinsurance has been made for DFL's EEV calculation. The effect of the adjustment as of March 31, 2011 is (¥43.3) billion.

(Note 2) The sum of reserve for price fluctuations, contingency reserve, and the unallocated portion of reserve for policyholder dividends is reported.

(Note 3) For purposes of EEV calculations, domestic listed stocks are recorded at their market value as of the end of the reporting period, whereas for accounting purposes under Japanese GAAP, they are recorded on the balance sheet at their average value during the last month of the reporting period. The difference (the value for purposes of EEV calculations less the value recorded on our balance sheet) (after tax) was ¥85.2 billion as of March 31, 2010, and (¥8.7) billion as of March 31, 2011. The decrease in unrealized gains (losses) on securities and miscellaneous items is mainly attributed to the decrease in unrealized gains on stocks.

(Note 4) With respect to land, the difference between fair value and carrying value before revaluation is posted.

(Note 5) The figure represents the unrealized gains (losses) in subordinated debt that Dai-ichi Life issued.

(Note 6) The sum of unrecognized gains on plan amendments and unrecognized actuarial differences is reported.

(Note 7) The fair value of the Trust Fund for the Employee Stock Holding Partnership and Stock Granting Trust (collectively, the "Trust") is reported (the fair value of the Trust Fund for the Employee Stock Holding Partnership does not exceed the loan amount of the trust fund). The adjustment is made because, although Dai-ichi Life stock which the Trust owns is expected to be sold and excluded from the amount of treasury stock in the future, the book value ((¥20.4) billion) of such stocks is deducted from "Total net assets on the balance sheet" as treasury stock.

(Note 8) Dai-ichi Life's carrying amount of equity of DFL, which is reported in "Total net assets on the balance sheet", is deducted to offset.

(Note 9) Minority interest in DFL's adjusted net worth is deducted. Effective the fiscal year ended March 31, 2011, an adjustment regarding the surplus relief reinsurance of DFL has been included. The effect of the adjustment as of March 31, 2011 is ¥4.3 billion.

[Unofficial translation]

(Note 10) All the items from “Total net assets on the balance sheet” to “Tax effect equivalent of above items” display the sum of the figures for Dai-ichi Life and DFL.

Reconciliations between the Group’s adjusted net worth and total net assets are as follows:

(billions of yen)

	March 31, 2010	March 31, 2011	Increase (Decrease)
Total Net Assets <sup>(Note1)</sup>	558.7	548.9	(9.7)
<b>PLUS</b> Retained earnings in liabilities <sup>(Note2)</sup>	698.5	628.3	(70.1)
<b>PLUS</b> General reserve for possible loan losses	4.8	4.5	(0.3)
<b>PLUS</b> Unrealized gains/losses <sup>(Note3)</sup>	1,345.5	817.0	(528.5)
<b>PLUS</b> Unfunded retirement benefit obligation <sup>(Note4)</sup>	(28.5)	(37.6)	(9.1)
<b>PLUS</b> Tax effect equivalent of above items	(715.6)	(506.8)	208.8
<b>LESS</b> Book value of businesses not covered	0.0	0.0	0.0
Adjusted net worth	1,863.5	1,454.2	(409.2)

(Note 1) The total amount of valuation and translation adjustments and minority interest are excluded.

(Note 2) The sum of reserve for price fluctuations, contingency reserve, and the unallocated portion of reserve for policyholder dividends is reported.

(Note 3) The sum of the unrealized gains/losses in securities and miscellaneous items, loans, real estate and liabilities is reported. Due to the consolidation adjustment with regard to consolidated subsidiaries and affiliated companies accounted for under the equity method, unrealized gains/losses on equity within this item is different from the sum of the unrealized gains/losses on equity in Dai-ichi Life and DFL. The fair value of the Trust is also reported in this item for adjustment (the fair value of the Trust Fund for the Employee Stock Holding Partnership does not exceed the loan amount of the trust fund), because the book value (¥20.4 billion) of Dai-ichi Life stock which the Trust owns is deducted from “Total net assets on the balance sheet” as treasury stock. Effective the fiscal year ended March 31, 2011, an adjustment regarding the surplus relief reinsurance has been made for DFL’s EEV calculation. The effect of the adjustment as of March 31, 2011 is (¥39.0) billion.

(Note 4) The sum of unrecognized gains on plan amendments and unrecognized actuarial differences is reported.

## 2-1-2 Value of In-force Business

The value of in-force business is the amount of (i) certainty equivalent present value of future profits, less (ii) time value of financial options and guarantees, less (iii) cost of holding required capital, less (iv) allowance for non-financial risks. The breakdown by item is as follows:

[Unofficial translation]

(billions of yen)

	March 31, 2010	March 31, 2011	Increase (Decrease)
Value of in-force business	972.8	986.0	13.2
Certainty equivalent present value of future profits <sup>(Note)</sup>	1,182.3	1,162.9	(19.4)
Time value of financial options and guarantees	(123.3)	(108.4)	14.8
Cost of holding required capital	(38.2)	(19.3)	18.8
Allowance for non-financial risks	(48.0)	(49.1)	(1.1)

(Note) Effective the fiscal year ended March 31, 2011, an adjustment regarding the surplus relief reinsurance has been made for DFL's EEV calculation. The adjustment increases the certainty equivalent present value of future profits as of March 31, 2011 by ¥39.0 billion.

### 2-1-3 Value of New Business

The value of new business is the value at the time of sale, after all acquisition-related costs, of new policies (including net increase by conversion) obtained during the reporting period. The value of new business for the fiscal year ended March 31, 2011 is as follows:

(billions of yen)

	Year ended March 31, 2010	Year ended March 31, 2011	Increase (Decrease)
Value of new business	118.9	158.1	39.1
Certainty equivalent present value of future profit	162.7	164.4	1.6
Time value of financial options and guarantees	(34.1)	(1.6)	32.4
Cost of holding required capital	(7.0)	(2.0)	5.0
Allowance for non-financial risks	(2.6)	(2.5)	0.0

The new business margins (the ratio of the value of new business to the present value of premium income) are as follows:

(billions of yen)

	Year ended March 31, 2010	Year ended March 31, 2011	Increase (Decrease)
Value of new business	118.9	158.1	39.1
Present Value of Premium Income <sup>(Note1)</sup>	2,989.5	2,916.4	(73.0)
New Business Margin	3.98%	5.42%	1.44 points

(Note 1) Future premium income is discounted by the risk-free rate used for the value of new business calculation.

## 2-2 EEV by Company

### (1) Dai-ichi Life

(billions of yen)

	March 31, 2010	March 31, 2011	Increase (Decrease)
EEV <sup>(Note1)</sup>	2,868.0	2,479.6	(388.4)
Adjusted net worth	1,880.9	1,518.7	(362.1)
Total net assets <sup>(Note2)</sup>	604.6	592.8	(11.8)
Retained earnings in liabilities <sup>(Note3)</sup>	653.6	591.7	(61.8)
General reserve for possible loan losses	4.8	4.4	(0.3)
Unrealized gains (losses) on securities and miscellaneous items <sup>(Note4)</sup>	1,066.4	691.2	(375.1)
Unrealized gains (losses) on loans	209.3	196.0	(13.3)
Unrealized gains (losses) on real estate <sup>(Note5)</sup>	105.0	(2.7)	(107.8)
Unrealized gains (losses) on liabilities <sup>(Note6)</sup>	(19.7)	(28.6)	(8.8)
Unfunded retirement benefit obligation <sup>(Note7)</sup>	(28.5)	(37.6)	(9.1)
Tax effect equivalent of above items	(714.9)	(506.0)	208.9
Adjustment for the Trust Fund for Employee Stock Holding Partnership and Stock Granting Trust <sup>(Note8)</sup>	-	17.4	17.4
Value of in-force business	987.1	960.9	(26.2)
Certainty equivalent present value of future profits	1,141.5	1,098.7	(42.7)
Time value of financial options and guarantees	(71.4)	(71.3)	0.0
Cost of holding required capital	(35.9)	(18.4)	17.4
Allowance for non-financial risks	(47.0)	(48.1)	(1.1)
Value of new business	135.6	158.5	22.8
Certainty equivalent present value of future profits <sup>(Note9)</sup>	143.6	164.6	21.0
Time value of financial options and guarantees	(1.5)	(1.6)	(0.1)
Cost of holding required capital	(4.5)	(2.0)	2.4
Allowance for non-financial risks	(1.8)	(2.4)	(0.5)

(Note 1) Dai-ichi Life's share of DFL is valued on a book value basis. The EEV of the Group is adjusted for consolidation.

(Note 2) Total of valuation and translation adjustments are excluded.

(Note 3) The sum of reserve for price fluctuations, contingency reserves, and the unallocated portion of reserve for policyholder dividends is reported.

(Note 4) For purposes of EEV calculations, domestic listed stocks are recorded at their market value as of the end of the reporting period, whereas for accounting purposes under Japanese GAAP, they are recorded on the balance sheet at their average value during the last month of the reporting period. The difference (the value for purposes of EEV calculations less the value recorded on our balance sheet) (after tax) is ¥85.2 billion as of March 31, 2010, and (¥8.7) billion as of March 31, 2011.

(Note 5) With respect to land, the difference between fair value and carrying value before revaluation is posted.

(Note 6) The figure represents the unrealized gains (losses) in subordinated debt that Dai-ichi Life issued.



[Unofficial translation]

*(Note 7) The sum of unrecognized gains on plan amendments and unrecognized actuarial differences is reported.*

*(Note 8) The fair value of the Trust is reported. The adjustment is made because, although Dai-ichi Life stock which the Trust owns is expected to be sold and excluded from the amount of treasury stocks in the future, the book value ((¥20.4) billion) of such stock is deducted from “Total net assets on the balance sheet” as treasury stock.*

*(Note 9) The increase in certainty equivalent present value of future profits in value of new business is mainly attributed to the improvement of the surrender and lapse rate.*

The new business margins (the ratio of the value of new business to the present value of premium income) are as follows:

(billions of yen)

	Year ended March 31, 2010	Year ended March 31, 2011	Increase (Decrease)
Value of new business	135.6	158.5	22.8
Present Value of Premium Income <sup>(Note 1)</sup>	2,265.4	2,730.2	464.8
New Business Margin	5.99%	5.81%	(0.18)points

*(Note 1) Future premium income is discounted by the risk-free rate used for the value of new business calculation.*

## (2) Dai-ichi Frontier Life

(billions of yen)

	March 31, 2010	March 31, 2011	Increase (Decrease)
EEV <sup>(Note1)</sup>	146.3	137.8	(8.4)
Adjusted net worth	162.2	109.9	(52.3)
Total net asset <sup>(Note2)(Note3)</sup>	116.2	71.9	(44.2)
Retained earnings in liabilities <sup>(Note4)</sup>	44.8	36.5	(8.2)
General reserve for possible loan losses	0.0	0.0	0.0
Unrealized gains (losses) on securities and miscellaneous items	1.8	2.1	0.3
Unrealized gains (losses) on loans	0.0	0.0	0.0
Unrealized gains (losses) on real estate	0.0	0.0	0.0
Unrealized gains (losses) on liabilities	0.0	0.0	0.0
Unfunded retirement benefit obligation	0.0	0.0	0.0
Tax effect equivalent of above items	(0.6)	(0.7)	(0.1)
Value of in-force business	(15.9)	27.9	43.8
Certainty equivalent present value of future profits <sup>(Note3)</sup>	45.4	71.3	25.8
Time value of financial options and guarantees	(57.6)	(41.2)	16.4
Cost of holding required capital	(2.5)	(1.0)	1.5
Allowance for non-financial risks	(1.1)	(1.1)	0.0
Value of new business	(18.5)	(0.4)	18.0
Certainty equivalent present value of future profits	21.3	(0.2)	(21.5)
Time value of financial options and guarantees <sup>(Note5)</sup>	(36.2)	0.0	36.2
Cost of holding required capital	(2.8)	0.0	2.7
Allowance for non-financial risks	(0.8)	(0.1)	0.6

(Note 1) This table shows the full value of DFL as an independent entity. When used in the calculation of Group EEV, the value is in proportion to Dai-ichi Life's shareholding in DFL (90.0%).

(Note 2) The total of valuation and translation adjustments is excluded.

(Note 3) Effective the fiscal year ended March 31, 2011, an adjustment regarding the surplus relief reinsurance has been made for DFL's EEV calculation. The effects on "Total net asset" and "Certainty equivalent present value of future profits" as of March 31, 2011 are (¥43.3) billion and ¥43.3 billion, respectively. If the same adjustment had been made as of March 31, 2010, the effects on "Total net asset" and "Certainty equivalent present value of future profits" would have been (¥46.7) billion and ¥46.7 billion, respectively, and the adjusted net worth and value of in-force business would have been ¥115.5 billion and ¥30.7 billion, respectively.

(Note 4) The sum of the reserve for price fluctuations and contingency reserve is reported.

(Note 5) The increase (decrease) in time value of financial options and guarantees is mainly attributed to the utilization of reinsurance for the minimum guarantee risk of new contracts of variable annuities.

[Unofficial translation]

The new business margins (the ratio of the value of new business to the present value of premium income) are as follows:

(billions of yen)

	Year ended March 31, 2010	Year ended March 31, 2011	Increase (Decrease)
Value of new business	(18.5)	(0.4)	18.0
Present Value of Premium Income <sup>(Note1)</sup>	804.5	206.8	(597.6)
New Business Margin	(2.31%)	(0.24%)	2.07 points

*(Note 1) Future premium income is discounted by the risk-free rate used for the value of new business calculation.*

(Reference) Dai-ichi Life Insurance Company of Vietnam

Dai-ichi Life Insurance Company of Vietnam, Limited (hereinafter “DLVN”), a consolidated life insurance subsidiary in Vietnam, is assumed to have a limited impact on the Group EEV. Accordingly in the EEV calculation process, the Group considers the EV of DLVN calculated using traditional embedded value (“TEV”) methodology to be the fair value of Dai-ichi Life’s ownership interest, which has been included in the Group’s adjusted net worth. The TEV of DLVN as of December 31 is as follows:

(billions of yen)

	December 31, 2009	December 31, 2010	Increase (Decrease)
TEV	6.1	5.4	(0.6)
Adjusted net worth	5.1	4.4	(0.6)
Value of in-force business	1.0	0.9	0.0

*(Note 1) The closing date of DLVN is 31 December, whereas that of Dai-ichi Life and DFL is 31 March. In calculating the Group EEV, the TEV of DLVN as of the most recent closing date is used.*

*(Note 2) The figures were converted into yen at the prevailing exchange rate on the final day in each period (1VND = 0.0050 yen as of December 31, 2009 and 1VND = 0.0042 yen as of December 31, 2010).*

The Group intends to consider the future adoption of EEV-based reporting by its overseas subsidiaries depending on their materiality.

### 3. Movement Analysis

#### 3-1 Movement Analysis of Group EEV

(billions of yen)

	Adjusted net worth	Value of in-force business	EEV
Values as of March 31, 2010	1,863.5	972.8	2,836.3
(1) Adjustments to the values as of March 31, 2010	(52.0)	42.0	(10.0)
Adjusted values as of March 31, 2010	1,811.4	1,014.8	2,826.3
(2) Value of new business	0.0	158.1	158.1
(3) Expected existing business contribution (risk-free rate)	(4.1)	11.1	6.9
(4) Expected existing business contribution (in excess of risk-free rate)	13.4	327.7	341.2
(5) Expected transfer from VIF to adjusted net worth	43.1	(43.1)	0.0
on in-force at beginning of year	193.5	(193.5)	0.0
on new business	(150.3)	150.3	0.0
(6) Non-economic experience variances	(11.0)	4.5	(6.5)
(7) Non-economic assumptions changes	0.0	13.2	13.2
(8) Economic variances	(398.6)	(500.3)	(899.0)
Values as of March 31, 2011	1,454.2	986.0	2,440.3

#### (1) Adjustments to the values as of March 31, 2010

Adjusted net worth of Dai-ichi Life decreased by ¥10.0 billion, as it paid out shareholder dividends during the fiscal year ended March 31, 2011.

DFL reduces the risk of failing to recover the initial cost related to new business by a surplus relief reinsurance <sup>(Note)</sup>. Effective the fiscal year ended March 31, 2010, an adjustment regarding the surplus relief reinsurance has been made for DFL's EEV calculation. The adjustment does not affect the total EEV amount, because it is a reclassification of the future cost for the reinsurance from value of in-force business (VIF) to adjusted net worth (ANW). The effects on DFL's ANW and VIF as of March 31, 2010 are (¥46.7) billion and ¥46.7 billion, respectively. The effects on Group's ANW and VIF are (¥42.0) billion and ¥42.0 billion, respectively, in proportion to Dai-ichi Life's shareholding in DFL (90.0%).

*(Note) Under current statutory accounting practices applicable to life insurance companies in Japan, the initial cost is recognized at the time of sale, and the profit is collected gradually over the contract period. Because the ability of an insurance company to recover the initial cost is subject to the future economic environment, DFL reduces the risk of failing to recover the cost by a surplus relief reinsurance. DFL receives commission to cover the initial cost at the time of sale, and the commission is amortized over the contract period. As a result, DFL can reduce the capital cost of new business.*

[Unofficial translation]

*In past disclosures, the commission was reported in ANW and the future cost for reinsurance was regarded as a part of VIF. However, we have decided to reclassify the future cost for reinsurance from VIF to ANW in this and future disclosures, because the reclassification more appropriately expresses VIF and ANW.*

(2) Value of new business

The value of new business represents the value at the time of sale, after all acquisition-related costs, attributable to new business obtained during the year ended March 31, 2011.

(3) Expected existing business contribution (risk-free rate)

In calculating EEV, future expected returns are discounted back using risk-free rates. Thus, the discounted value is assumed to earn the expected return over time. Moreover, this item includes the release for the fiscal year ended March 31, 2011 of time value of financial options and guarantees, cost of holding required capital and allowance for non-financial risks.

Dai-ichi Frontier Life utilizes derivative transactions to reduce minimum guarantee risks of variable annuities. Effective the fiscal year ended March 31, 2011, the expected profit/loss over time derived from such transactions is included in this item, taking into account the materiality of such transactions.

(4) Expected existing business contribution (in excess of risk-free rate)

Rates of future expected returns are assumed to be risk-free rates in calculating EEV. However, the Group holds (and will hold) risky assets and expects higher rates of returns on these assets than the risk-free rates. In calculating this item, the Group uses the expected rates of returns described in Appendix B.

Effective the fiscal year ended March 31, 2011, this item includes the expected profit/loss derived from derivative transactions for reducing minimum guarantee risks of variable annuities by Dai-ichi Frontier Life, taking the importance of such transactions into account.

(5) Expected transfer from VIF(value of in-force business) to adjusted net worth

The total expected profit during a fiscal year on a statutory accounting basis is transferred to the adjusted net worth. This item includes both the profit expected to emerge from business in force at the start of the reporting period, as well as the expected emergence in adjusted net worth during the fiscal year of statutory losses, including the impact of acquisition costs, and a corresponding increase in the value of in-force business, arising from the new business issued in the fiscal year.

Note that the transferred amounts do not affect the total amount of Group EEV.

(6) Non-economic experience variances

[Unofficial translation]

This item represents the difference between (i) the non-economic assumptions, which were used for calculating EEV as of March 31, 2010 and (ii) the actual experience during the fiscal year ended March 31, 2011 corresponding to such assumptions.

This item includes the effects of the estimated payments of claims and benefits to be incurred in relation to the Earthquake.

(7) Non-economic assumptions changes

This item quantifies the amount of change attributable to increase/decrease in future profits/losses after March 31, 2011 due to changes made to the assumptions.

(8) Economic variances

This item represents the impact of actual to assumed differences in economic assumptions, such as market interest rate and implied volatilities. This item includes the effects of the asset valuation, where Earthquake effects are taken into account, and the effects on future estimated differences attributable to changes in assumptions.

[Unofficial translation]

### 3-2 Movement Analysis by Company

#### (1) Dai-ichi Life

(billions of yen)

	Adjusted net worth	Value of in-force business	EEV
Values as of March 31, 2010	1,880.9	987.1	2,868.0
Adjustments to the values as of March 31, 2010	(10.0)	0.0	(10.0)
Adjusted values as of March 31, 2010	1,870.9	987.1	2,858.0
Value of new business	0.0	158.5	158.5
Expected existing business contribution (risk-free rate)	1.2	4.1	5.4
Expected existing business contribution (in excess of risk-free rate)	23.2	306.8	330.1
Expected transfer from VIF to adjusted net worth	20.3	(20.3)	0.0
on in-force at beginning of year	165.4	(165.4)	0.0
on new business	(145.1)	145.1	0.0
Non-economic experience variances	(11.3)	4.6	(6.6)
Non-economic assumptions changes	0.0	9.4	9.4
Economic variances	(385.6)	(489.6)	(875.2)
Values as of March 31, 2011	1,518.7	960.9	2,479.6

#### (2) Dai-ichi Frontier Life

(billions of yen)

	Adjusted net worth	Value of in-force business	EEV
Values as of March 31, 2010	162.2	(15.9)	146.3
Adjustments to the values as of March 31, 2010	(46.7)	46.7	0.0
Adjusted values as of March 31, 2010	115.5	30.7	146.3
Value of new business	0.0	(0.4)	(0.4)
Expected existing business contribution (risk-free rate)	(6.0)	7.7	1.7
Expected existing business contribution (in excess of risk-free rate)	(10.8)	23.1	12.3
Expected transfer from VIF to adjusted net worth	25.4	(25.4)	0.0
on in-force at beginning of year	31.2	(31.2)	0.0
on new business	(5.8)	5.8	0.0
Non-economic experience variances	0.3	(0.1)	0.1
Non-economic assumptions changes	0.0	4.2	4.2
Economic variances	(14.5)	(11.9)	(26.4)
Values as of March 31, 2011	109.9	27.9	137.8

#### 4. Sensitivity Analysis

##### 4-1 Sensitivity Analysis of Group EEV

The following table shows a sensitivity analysis of Group EEV to changes in assumptions. Although each figure in the table indicates the sensitivity in response to a change in one parameter, it should be noted that the sum of two or more figures in the table do not indicate the sensitivity to a change in two or more parameters corresponding to such figures.

The sensitivities are calculated based on the assumption that the Group's management actions would remain unaffected by changes in parameters.

(billions of yen)

Assumptions	EEV	Increase (decrease)
Values as of March 31, 2011	2,440.3	-
Sensitivity 1: 50bp upward parallel shift in risk-free yield curve	2,727.9	287.5
Sensitivity 2: 50bp downward parallel shift in risk-free yield curve	2,074.9	(365.3)
Sensitivity 3: 10% decline in equity and real estate values	2,179.8	(260.4)
Sensitivity 4: 10% decline in maintenance expenses	2,585.0	144.7
Sensitivity 5: 10% decline in surrender and lapse rate	2,580.6	140.3
Sensitivity 6: 5% decline in mortality and morbidity rates for life insurance products	2,562.5	122.2
Sensitivity 7: 5% decline in mortality and morbidity rates for annuities	2,432.5	(7.7)
Sensitivity 8: Setting required capital at statutory minimum level	2,459.5	19.1
Sensitivity 9: 25% increase in implied volatilities of equity and real estate values	2,417.2	(23.1)
Sensitivity 10: 25% increase in implied volatilities of swaptions	2,425.8	(14.4)

The sensitivities in the above table show the effect on the total EEV but only the Group's value of in-force business is affected in sensitivities 4 through 10. The following table shows the effect on the Group's adjusted net worth of sensitivities 1 through 3.

(billions of yen)

	Increase (decrease)
Sensitivity 1: 50bp upward parallel shift in risk-free yield curve	(690.7)
Sensitivity 2: 50bp downward parallel shift in risk-free yield curve	667.6
Sensitivity 3: 10% decline in equity and real estate values	(270.5)



## Sensitivity analysis of the Group's value of new business

(billions of yen)

Assumptions	Value of new business	Increase (decrease)
Values as of March 31, 2011	158.1	-
Sensitivity 1: 50bp upward parallel shift in risk-free yield curve	191.2	33.0
Sensitivity 2: 50bp downward parallel shift in risk-free yield curve	119.7	(38.3)
Sensitivity 3: 10% decline in equity and real estate values	158.3	0.1
Sensitivity 4: 10% decline in maintenance expenses	170.6	12.4
Sensitivity 5: 10% decline in surrender and lapse rate	182.5	24.4
Sensitivity 6: 5% decline in mortality and morbidity rates for life insurance products	162.3	4.2
Sensitivity 7: 5% decline in mortality and morbidity rates for annuities	158.1	0.0
Sensitivity 8: Setting required capital at statutory minimum level	160.1	2.0
Sensitivity 9: 25% increase in implied volatilities of equity and real estate values	157.6	(0.4)
Sensitivity 10: 25% increase in implied volatilities of swaptions	157.9	(0.1)

- 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. As prices of bonds and loans change, the adjusted net worth changes. Also, as future expected investment yields change, the value of in-force business changes.

In accordance with the EEV principles, life insurers are required to disclose their EEV sensitivities to a 100bp shift in the yield curve. However, taking into consideration the low level of interest rates in Japan, we disclosed our sensitivities to a 50bp shift in the yield curve.

- 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 lower limit of the risk-free forward rates is assumed to be zero.

[Unofficial translation]

- Sensitivity 3

This item shows the effect on EEV of a decline of 10% in equity and real estate values. Adjusted net worth would be directly affected by the decline. On the other hand, the value of in-force business would also be affected by the decline, as the decline would affect the economic assumption.

- 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 and morbidity rates for annuities.

- Sensitivity 8

The item represents the effect on EEV in the event that required capital was changed to the statutory minimum level, a solvency margin ratio of 200%. As items such as policy reserves in excess of surrender values are regarded as admissible assets in the Japanese solvency margin requirement, the cost of holding required capital is not proportional to the level of capital, and the cost to satisfy the statutory minimum level can be nil.

- Sensitivity 9

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

- Sensitivity 10

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

## 4-2 Sensitivity Analysis by Company

### (1) Dai-ichi Life

(billions of yen)

Assumptions	EEV	Increase (decrease)
Values as of March 31, 2011	2,479.6	-
Sensitivity 1: 50bp upward parallel shift in risk-free yield curve	2,760.5	280.8
Sensitivity 2: 50bp downward parallel shift in risk-free yield curve	2,121.7	(357.8)
Sensitivity 3: 10% decline in equity and real estate values	2,219.6	(259.9)
Sensitivity 4: 10% decline in maintenance expenses	2,623.3	143.6
Sensitivity 5: 10% decline in surrender and lapse rate	2,622.1	142.5
Sensitivity 6: 5% decline in mortality and morbidity rates for life insurance products	2,601.8	122.2
Sensitivity 7: 5% decline in mortality and morbidity rates for annuities	2,471.8	(7.8)
Sensitivity 8: Setting required capital at statutory minimum level	2,498.0	18.4
Sensitivity 9: 25% increase in implied volatilities of equity and real estate values	2,471.7	(7.9)
Sensitivity 10: 25% increase in implied volatilities of swaptions	2,464.5	(15.1)

The sensitivities in the above table show the effect on the total EEV but only Dai-ichi Life's value of in-force business is affected in sensitivities 4 through 10. The following table shows the effect on the adjusted net worth of sensitivities 1 through 3.

(billions of yen)

	Increase (decrease)
Sensitivity 1: 50bp upward parallel shift in risk-free yield curve	(680.3)
Sensitivity 2: 50bp downward parallel shift in risk-free yield curve	659.6
Sensitivity 3: 10% decline in equity and real estate values	(261.8)

[Unofficial translation]

### Sensitivity analysis of Dai-ichi Life's value of new business

(billions of yen)

	Value of new business	Increase (decrease)
Values as of March 31, 2011	158.5	-
Sensitivity 1: 50bp upward parallel shift in risk-free yield curve	191.2	32.7
Sensitivity 2: 50bp downward parallel shift in risk-free yield curve	120.4	(38.1)
Sensitivity 3: 10% decline in equity and real estate values	158.8	0.2
Sensitivity 4: 10% decline in maintenance expenses	170.8	12.3
Sensitivity 5: 10% decline in surrender and lapse rate	183.0	24.4
Sensitivity 6: 5% decline in mortality and morbidity rates for life insurance products	162.8	4.2
Sensitivity 7: 5% decline in mortality and morbidity rates for annuities	158.5	0.0
Sensitivity 8: Setting required capital at statutory minimum level	160.5	2.0
Sensitivity 9: 25% increase in implied volatilities of equity and real estate values	158.1	(0.4)
Sensitivity 10: 25% increase in implied volatilities of swaptions	158.4	(0.1)

[Unofficial translation]

(2) Dai-ichi Frontier Life

(billions of yen)

	EEV	Increase (decrease)
Values as of March 31, 2011	137.8	-
Sensitivity 1: 50bp upward parallel shift in risk-free yield curve	145.3	7.4
Sensitivity 2: 50bp downward parallel shift in risk-free yield curve	129.5	(8.3)
Sensitivity 3: 10% decline in equity and real estate values	137.4	(0.4)
Sensitivity 4: 10% decline in maintenance expenses	139.0	1.1
Sensitivity 5: 10% decline in surrender and lapse rate	135.4	(2.4)
Sensitivity 6: 5% decline in mortality and morbidity rates for life insurance products	137.8	0.0
Sensitivity 7: 5% decline in mortality and morbidity rates for annuities	137.9	0.1
Sensitivity 8: Setting required capital at statutory minimum level	138.7	0.8
Sensitivity 9: 25% increase in implied volatilities of equity and real estate values	121.0	(16.8)
Sensitivity 10: 25% increase in implied volatilities of swaptions	138.6	0.7

The sensitivities in the above table show the effect on the total EEV but only Dai-ichi Frontier Life's value of in-force business is affected in sensitivities 4 through 10. The following table shows the effect on the adjusted net worth of sensitivities 1 through 3.

(billions of yen)

	Increase (decrease)
Sensitivity 1: 50bp upward parallel shift in risk-free yield curve	(11.5)
Sensitivity 2: 50bp downward parallel shift in risk-free yield curve	8.9
Sensitivity 3: 10% decline in equity and real estate values	(9.6)

## Sensitivity analysis of Dai-ichi Frontier Life's value of new business

(billions of yen)

	Value of new business	Increase (decrease)
Values as of March 31, 2011	(0.4)	-
Sensitivity 1: 50bp upward parallel shift in risk-free yield curve	0.0	0.4
Sensitivity 2: 50bp downward parallel shift in risk-free yield curve	(0.7)	(0.2)
Sensitivity 3: 10% decline in equity and real estate values	(0.5)	0.0
Sensitivity 4: 10% decline in maintenance expenses	(0.2)	0.2
Sensitivity 5: 10% decline in surrender and lapse rate	(0.5)	0.0
Sensitivity 6: 5% decline in mortality and morbidity rates for life insurance products	(0.4)	0.0
Sensitivity 7: 5% decline in mortality and morbidity rates for annuities	(0.4)	0.0
Sensitivity 8: Setting required capital at statutory minimum level	(0.4)	0.0
Sensitivity 9: 25% increase in implied volatilities of equity and real estate values	(0.4)	0.0
Sensitivity 10: 25% increase in implied volatilities of swaptions	(0.4)	0.0

**5. Note on Using EV**

In calculating the embedded value of the Group, numerous assumptions (some of which are shown in Appendix B) are required concerning the Group's lines of business with respect to industry performance, business and economic conditions and other factors, many of which are outside the Group's control. Although the assumptions used represent estimates that the Group believe are appropriate for the purpose of embedded value reporting, future operating conditions may differ, perhaps significantly, from those assumed in the calculation of the embedded value. Consequently, the inclusion of embedded value herein should not be regarded as a statement by the Group, Towers Watson or any other entity, that the stream of future after-tax profits discounted to produce the embedded value will be achieved.

## **Appendix A: EEV Methodology**

The methodology and assumptions adopted by the Group to calculate EEV are market-consistent and in accordance with the EEV Principles and related guidance issued by the CFO Forum in May 2004 and further EEV guidance on minimum required disclosures of sensitivities and other items issued by the Forum in October 2005.

### **1. Covered Business**

The covered business represents all of the life insurance business of the Group (all the businesses and subsidiaries are covered in the EEV calculations).

### **2. Adjusted Net Worth**

Adjusted net worth 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 have been reflected, specifically differences of bonds held to maturity, policy-reserve-matching bonds, loans, land, building, debt and borrowings etc., after adjusting for unrealized gains/losses after tax. For retirement benefits, the sum of unrecognized gains on plan amendments and unrecognized actuarial differences has been used after adjustment for tax.
- Consolidated subsidiaries/affiliated companies operating life insurance businesses are treated as follows:
  - Dai-ichi Frontier Life  
EEV of the company is calculated and included in the Group's EEV.
  - Dai-ichi Life Insurance Company of Vietnam, Limited  
As the company has a limited impact on Group EEV, its TEV is included in the Group's adjusted net worth as the fair value of Dai-ichi Life's ownership interest.
  - Affiliated companies accounted for under the equity method  
EEV is not calculated, and differences in market value and book value of assets have been reflected as unrealized gains (losses) in adjusted net worth.
- Liabilities that are appropriate to be added to the adjusted net worth (contingency reserve, reserve for price fluctuations, unallocated portion of reserve for policyholder dividends, and general reserve for possible loan losses) have been added on an after-tax basis.
- Effective the fiscal year ended March 31, 2011, adjusted net worth of DFL is shown after the adjustment regarding the surplus relief reinsurance.
- The fair value of the Trust is reported (the fair value of the Trust Fund for Employee Stock Holding Partnership does not exceed the loan amount of the trust

fund). The adjustment is made because, although Dai-ichi Life stock which the Trust owns is expected to be sold and excluded from the amount of treasury stock in the future, the book value of such stock is deducted from “Total net assets on the balance sheet” as treasury stock.

### **3. Value of in-force business**

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

Future profits for each year are estimated based on the assumption that policy reserves are held on a statutory basis. There are no projected residual assets at the end of the projection period.

With regard to reinsurance, both reinsured and reinsuring parts are reflected.

### **4. Certainty equivalent present value of future profits**

The certainty equivalent present value of future profits is the present value of after-tax profits based on the projected cash flows, calculated on a deterministic basis. All cash flows are discounted at the risk-free rate, assuming the investment yield of all assets is equivalent to the risk-free rate.

The certainty equivalent present value of future profits reflects the intrinsic value of options and guarantees.

### **5. Time value of financial options and guarantees**

The time value of financial options and guarantees is calculated as the difference between (i) the average of the present value of future after-tax profits calculated by stochastic methods where economic assumptions are consistent with current market prices for traded assets, and (ii) the certainty equivalent present value of future profits. Asset allocation is assumed to be the same as the one at the valuation date over the projection periods and any discretion of management in terms of investment strategy is not incorporated.

There are various options in the insurance contracts. The following options and guarantees are considered in calculating the time value of financial options and guarantees of the Group using stochastic methods.

#### **- Participating policies options**

When profits arise, policyholder dividends are paid out. On the other hand, when losses arise, the cost of guarantees is not attributed to policyholders. Such asymmetric nature emerges in the net surplus after distribution of policyholder dividends. The value of this option is calculated in the time value of financial options and guarantees by assuming future policyholder dividends along with future profits by stochastic scenarios.



- Minimum guarantees for variable life insurance

When investment performance is good, policyholders will be entitled to the full amount of the account. On the other hand, when investment performance is poor, an insurance company will bear the cost of guarantees attached to variable life insurance policies. The value of this option is calculated in the time value of financial options and guarantees of the Group

- Minimum interest-rate guarantee for interest rate-sensitive products

When interest rates rise, high interest rates are credited to interest rate-sensitive products. On the other hand, even when interest rates decline, the minimum interest rate is guaranteed in some cases. Such asymmetric nature emerges in future cash flows. The value of this option is calculated in the time value of financial options and guarantees of the Group

- Policyholder behavior

Policyholders have options depending on the movement of financial markets. The cost of selective lapses, such as the lapses based on the “moneyness” in variable annuities or the relation between assumed interest rate and interest rate in saving products, is reflected in the time value of financial options and guarantees of the Group.

## **6. Cost of holding required capital**

This is referred to as “frictional cost” in market-consistent methodology.

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 EEV Principles define the minimum required capital to be equal to the statutory minimum capital requirement, and if the required capital calculated by an internal model exceeds the statutory requirement, an internal model may be used. The Group defines required capital as the level required to maintain 600% level of solvency margin ratio. The values of required capital as of March 31, 2010 and March 31, 2011 are ¥913.5 billion and ¥752.4 billion, respectively (free surplus as of March 31, 2010 and March 31, 2011 are ¥950.0 billion and ¥701.8 billion, respectively).

MCEV Principles define required capital as the amount of assets, which is calculated by an internal model and should be held in addition to the assets corresponding to the statutory liability. The Group will continue investigation in reviewing the definition of required capital, taking into account worldwide trends and discussions on economic

value based solvency assessment.

### **7. Allowance for non-financial 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 including non financial-risks.

The uncertainty around the return on most non-financial risks can be diversified away. Thus, provided the best estimate assumptions are set to provide the mean expected financial outcome to shareholders, no further allowance for non-financial risk such as mortality is required.

There are some non-financial risks where the existing best estimate experience assumptions do not reflect the mean expected financial outcome to shareholders. These are typically operational risks.

When profits arise, the company pays tax. On the other hand, when losses arise, tax can not be negative. In such cases, carrying losses on a tax accounting basis are collectable in most cases. However, there is a risk of uncollectibility within in the deferrable period.

The Group quantified non-financial risks by a simplified model.

### **8. Value of new business**

The value of new business for the fiscal year ended March 31, 2011 is the value of new policies issued during the 12 month period, and is calculated by the same method as the value of in-force business. The value of new business is the value at the time of sale of new policies. The profit during the fiscal year ended March 31, 2011 from new business is calculated based on the same assumptions used for the value of in-force business.

For Dai-ichi Life, the value of new business is calculated at the end of the fiscal year, based on economic and non-economic assumptions as of the end of the fiscal year.

For DFL, the value of new business is calculated separately for the new business acquired during the 1st and the 2nd half of the fiscal year, based on economic and non-economic assumptions as of the end of each period.

In addition to the new policies, net increases in conversions and addition of riders have been included in the value of new business, while renewal of policies is not included. With regard to the corporate insurance, such as group insurance, corporate pension and workers compensation insurance, the increase of the proportion underwritten by an insurance company in a group scheme, the increase of members in a group scheme and the increase of the sum insured by members in a group scheme are included. This definition of the new business is consistent with statutory financial reporting except for

[Unofficial translation]

the corporate insurance.

## Appendix B: Principal EEV Assumptions

### 1. Economic assumptions

#### (1) Risk-free rate

In the certainty equivalent calculation, the Japanese Government Bond (JGB) is used as a proxy for risk-free rates, taking assets in the Group's portfolio and the liquidity in the market into account.

Issues such as the proxy for risk-free rates, liquidity premium and extrapolation beyond the last liquid data point, are discussed broadly, for example, in the 5<sup>th</sup> Quantitative Impact Study (QIS5) of European Solvency II, CRO Forum and so on. For extrapolation under QIS5 technical specification purposes, term structures of interest rates for various currencies are set based on a method using the ultimate forward rate.

We have also been studying extrapolation models for risk-free rates due to the low liquidity of ultralong-term bonds in the market beyond a 30 year maturity, for which no standard model exists. In the past, we assumed that forward rates in the 31st year and beyond were equal to the JGB rate observed in the 30th year. Since EEV reporting as of September 30, 2010 we have made some changes to the method used for setting the forward risk-free rates from the 31st year to also take into account the shape of the swap rate yield curve. The table below shows, for selected terms, the risk-free rates (spot rates) which are used in the calculations.

Term	March 31, 2010	March 31, 2011
1 Year	0.108%	0.151%
2 Year	0.157%	0.198%
3 Year	0.289%	0.281%
4 Year	0.416%	0.408%
5 Year	0.575%	0.492%
10 Year	1.454%	1.268%
15 Year	2.024%	1.884%
20 Year	2.338%	2.198%
25Year	2.418%	2.278%
30Year	2.444%	2.335%
35Year	2.464%	2.384%
40Year	2.478%	2.427%
45Year	2.489%	2.468%
50Year	2.498%	2.536%

(Source: Bloomberg, after interpolation/extrapolation)

## (2) Principal dynamic assumption

### i. Interest rate model

As an interest rate model, the Group has adopted a single-factor Hull-White model, in which interest rates associated with Japanese yen, U.S. dollars, Euro and British pounds are calculated. The model has been adjusted to be in line with a risk-neutral approach in which Japanese yen is set as a base currency, and correlations between the interest rates have been also taken into account. The interest rate model has been calibrated consistently with the market environment as of each reporting date, and parameters used are estimated from the yield curve and implied volatilities of interest rate swaptions with various maturities. 5,000 scenarios are used in calculating time value of financial options and guarantees through stochastic method. These scenarios have been generated by Towers Watson.

Summary of implied volatilities of interest rate swaptions used to calibrate the scenarios are as follows:

#### Interest rate swaptions

		March 31, 2010				March 31, 2011			
Option Term	Swap Term	JPY	USD	EUR	GBP	JPY	USD	EUR	GBP
5Year	5Year	27.3%	21.0%	16.4%	14.9%	32.5%	22.9%	19.2%	16.5%
5Year	7Year	25.2%	20.2%	16.0%	14.3%	30.1%	21.9%	18.7%	15.8%
5Year	10Year	23.6%	19.2%	15.9%	13.5%	28.2%	21.0%	18.6%	15.1%
7Year	5Year	23.1%	19.1%	14.6%	13.1%	26.7%	20.7%	17.5%	14.4%
7Year	7Year	22.2%	18.4%	14.6%	12.7%	25.7%	20.0%	17.2%	14.0%
7Year	10Year	21.6%	17.8%	14.9%	12.5%	25.3%	19.4%	17.5%	13.8%
10Year	5Year	20.9%	16.6%	13.6%	11.6%	23.6%	18.3%	15.9%	13.0%
10Year	7Year	20.7%	16.3%	13.8%	11.5%	23.6%	17.9%	16.0%	13.1%
10Year	10Year	20.6%	16.0%	14.4%	11.7%	24.0%	17.7%	16.5%	12.7%

(Source: Bloomberg)

ii. Implied volatilities of equities and currencies

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

Stock Options

Currency	Underlying Asset	Option Term	Volatility	
			March 31, 2010	March 31, 2011
JPY	Nikkei 225	3Year	21.5%	21.4%
		4Year	21.9%	21.5%
		5Year	22.1%	21.7%
USD	S&P 500	3Year	21.2%	20.7%
		4Year	22.5%	21.5%
		5Year	23.6%	22.4%
EUR	EuroStoxx 50	3Year	21.7%	20.6%
		4Year	21.9%	20.7%
		5Year	22.3%	21.1%
GBP	FTSE 100	3Year	19.9%	18.8%
		4Year	20.2%	19.4%
		5Year	20.5%	20.1%

(Source: Investment Bank)

Currency Options

Currency	Option Term	Volatility	
		March 31, 2010	March 31, 2011
USD	10Year	18.1%	20.2%
EUR	10Year	20.3%	23.8%
GBP	10Year	17.5%	17.8%

(Source: Bloomberg)

iii. Volatilities of real estate and other asset classes

Market-consistent implied volatilities have not been observed with regard to real estate. Therefore, the volatility of real estate has been derived by multiplying the historical volatility ratio (110.5%) of Tokyo Stock Exchange REIT index to TOPIX (Tokyo Stock Exchange Stock Price Index) by the implied volatility of Japanese equity.

In addition, foreign real estate and emerging equity/bond markets are modeled as an asset class in stochastic calculation for variable type products. Volatilities of those asset classes have been derived in the same manner.

iv. Correlations

In addition to implied volatilities described above, Dai-ichi Life has calculated implied volatilities reflecting its asset portfolio and correlation factors. The share of each asset is assumed to be unchanged over the projection periods.

With regard to correlation factors, market-consistent data from exotic options with sufficient liquidity have not been observed in the market. Therefore, we estimated correlation factors based on historical market data. Specifically, the monthly data for 10 years to most recent have been used. The following table shows correlation factors between major variables.

	Short Rate /JPY	Short Rate /USD	Short Rate /EUR	Exchange Rate /USD	Exchange Rate /EUR	Stock Index /JPY	Stock Index /USD	Stock Index /EUR	REIT Index /TSE REIT Index
Short Rate /JPY	1.00	0.31	0.33	0.22	0.09	0.35	0.13	0.12	0.18
Short Rate /USD	0.31	1.00	0.74	0.42	0.14	0.39	0.42	0.48	0.21
Short Rate /EUR	0.33	0.74	1.00	0.33	0.31	0.40	0.52	0.53	0.29
Exchange Rate /USD	0.22	0.42	0.33	1.00	0.53	0.37	0.15	0.20	0.20
Exchange Rate /EUR	0.09	0.14	0.31	0.53	1.00	0.44	0.40	0.30	0.37
Stock Index /JPY	0.35	0.39	0.40	0.37	0.44	1.00	0.66	0.63	0.66
Stock Index /USD	0.13	0.42	0.52	0.15	0.40	0.66	1.00	0.89	0.61
Stock Index /EUR	0.12	0.48	0.53	0.20	0.30	0.63	0.89	1.00	0.55
REIT Index /TSE REIT Index	0.18	0.21	0.29	0.20	0.37	0.66	0.61	0.55	1.00

(Source: Bloomberg)

(3) Assumed investment yield on each asset used for the expected return calculation  
Assumed investment yield on each asset used for the calculation of “Expected existing business contribution (in excess of risk-free rate)” in “3. Movement Analysis” is as follows:

	Assumed investment yield
Cash and deposits, call loans	0.11%
Fixed income assets	1.61%
Domestic stocks	4.61%
Foreign bonds	3.61%
Other assets	2.61%
Total	2.05%

The assumed investment yield used for the calculation of “Expected existing business contribution (in excess of risk-free rate)” is calculated by multiplying the share of each asset as of March 31, 2010 by the assumed investment yield of each asset above.

## 2. Non-economic assumptions

All cash flows (premium, operating expense, benefits and claims, cash surrender value, tax, etc.) are projected applying the best estimate assumptions up to the termination of the policies, by product, referring to past, current and expected future experience.

### - Operating expenses (maintenance expenses)

Operating expenses are set based on the experience of Dai-ichi Life and Dai-ichi Frontier Life. The look-through basis is applied in terms of operating expenses of insurance business in the Group.

- For Dai-ichi Life, adjustment is made for one-time expenses which are considered to be non-recurrent in the future. The amount excluded from the expense assumption analysis is ¥8.3 billion (FY2010 figure) which corresponds to the one-time cost for demutualization, listing and adoption of the accounting for asset retirement obligations. At the same time, future expenses such as the workplace reorganization cost and the cost incurred in relation to the Earthquake are deducted from the value of in-force business as one-time expenses.
- For Dai-ichi Frontier Life, operating expenses are assumed to decrease for a certain period of time, because it has operated for only a short period of time and the improvement of operating efficiency is expected in the future. Therefore, the assumption for operating expenses incorporates recent developments, and based on future new business and future operating expenses along with the



mid-long term business plan, decrease of unit-cost (by 8% per annum on average) for 8 years is assumed.

- Future inflation rate is assumed zero.

- Policyholder dividends

(1) Dai-ichi Life

Policyholder dividend rates are set based on the current dividend policy. It is consistent with the post-demutualization policyholder dividend policy, stated in the plan for demutualization.

Dai-ichi Life revised the policyholder dividend policy for group annuity in the last fiscal year, and this revision is reflected in the EEV calculation.

(2) Dai-ichi Frontier Life

No assumption of policyholder dividend rate is set, as it sells only non-participating policies.

- Effective tax rate

Set based on the most recent effective tax rate for each company (no change from the previous year)

Dai-ichi Life: 36.08%

Dai-ichi Frontier Life: 36.21%

## **Appendix C: Actuarial Opinion**

Dai-ichi Life requested Towers Watson, an independent actuarial firm, to review the calculation of the Group's EEV and obtained the following opinion.

Towers Watson has reviewed the methodology and assumptions used to determine the embedded value results as at March 31, 2011 for Dai-ichi Life Group. The review covered the embedded value as at March 31, 2011, the value of new business issued in fiscal 2010, the analysis of movement in the embedded value during fiscal 2010 and the sensitivities of the embedded value and new business value to changes in assumptions.

Towers Watson has concluded that the methodology and assumptions used comply with the EEV Principles. In particular:

- The methodology makes allowance for the aggregate risks in the covered business through Dai-ichi Life's bottom-up methodology as described in Appendix A of 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-financial risks;
- The operating assumptions have been set with appropriate regard to past, current and expected future experience;
- The economic assumptions used are internally consistent and consistent with observable market data; and
- For participating business, the assumed policyholders' dividend rates, and the allocation of profit between policyholders and shareholders, are consistent with the projection assumptions, established company practice and local market practice.

The methodology and assumptions also comply with the EEV Guidance, with the disclosed exception of showing the sensitivity of a 0.5% change in interest rates (rather than 1%).

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, 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.

[Unofficial translation]

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

## Appendix D: Glossary

Allowance for Non-financial Risks	Explicit cost for asymmetric non-financial risks such as operational risks.
Best Estimate Assumption	An assumption that represents the mean expected financial outcome to shareholders from the range of possible outcomes for future experience of that assumption.
Certainty Equivalent Present Value of Future Profits	The present value of future statutory after-tax profits, projected over the life time of the policies in a scenario where all investments are assumed to earn the risk-free rate.
CFO Forum	The CFO Forum is a high-level discussion group formed and attended by the Chief Financial Officers of major European insurance companies. Its aim is to discuss issues relating to financial reporting developments for their businesses and how they can create greater transparency for investors. The CFO Forum was created in 2002.
Cost of Holding Required Capital	The additional investment and taxation costs incurred by shareholders through investing required capital in the company rather than directly.
EEV Principles	European Embedded Value (EEV) Principles were published by the CFO Forum in May 2004, together with additional guidance on disclosures in October 2005, addressed the treatment of options and guarantees and provided the insurance industry with improved sensitivities and disclosures.
Implied Volatility	The implied volatility of an option contract is the volatility implied by the market price of the option.
Look-through Basis	A basis via which the impact of an action on the whole group, rather than on a particular part of the group, is measured.
Market-consistent Approach	A measurement approach where economic assumptions are such that projected asset cash flows are valued consistently with current market prices for traded assets.

<p>MCEV Principle</p>	<p>The European Insurance CFO Forum Market Consistent Embedded Value Principles (Copyright© Stichting CFO Forum Foundation 2008) were published by CFO Forum in June 2008 to ensure the valuation to be on a market consistent basis and to improve comparability between companies. However, in October 2009, in light of severe market conditions, the principles were revised and it was decided to defer mandatory MCEV reporting for all members until year-end 2011, and in April 2011, the mandatory MCEV reporting from year-end 2011 was withdrawn by the CFO Forum.</p>
<p>Required Capital</p>	<p>The amount of assets, over and above the value placed on liabilities in respect of covered business, whose distribution to shareholders is restricted.</p>
<p>Risk-free Rate</p>	<p>Prospective yields on securities to be considered to be free of default or credit risk.</p>
<p>Solvency II QIS5</p>	<p>Solvency II is an economic capital based new regulatory framework for insurance companies in Europe. It is expected to be introduced in 2012 and a quantitative impact study (QIS) is underway. The 5<sup>th</sup> study (QIS5) started in August 2010, and the result was disclosed in March 2011.</p>
<p>Stochastic Method</p>	<p>Techniques that incorporate the potential future variability in assumptions affecting their outcome.</p>
<p>Swaption</p>	<p>A swaption is an option giving the holder the right to enter into a certain interest rate swap at a certain time in the future.</p>
<p>Time Value of Financial Options and Guarantees</p>	<p>An option feature has two elements of value, the time value and intrinsic value. Intrinsic value is that of the most valuable benefit under the option under conditions at the valuation date. Time value is the additional value ascribable to the potential for benefits under the option to increase in value prior to expiry.</p>