

Vale S.A.  
Form 6-K/A  
February 28, 2013  
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**United States  
Securities and Exchange Commission**

Washington, D.C. 20549

**FORM 6-K/A**

**Report of Foreign Private Issuer  
Pursuant to Rule 13a-16 or 15d-16  
of the  
Securities Exchange Act of 1934**

**For the month of**

**February, 2013**

**Vale S.A.**

**Avenida Graça Aranha, No. 26  
20030-900 Rio de Janeiro, RJ, Brazil**

(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

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(Check One) Form 20-F  Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1)

(Check One) Yes  No

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7)

(Check One) Yes  No

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

(Check One) Yes  No

If  Yes is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b). 82- .

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REASON FOR AMENDMENT

The reason for this amendment is to amend certain annual financial information for the year ended Dec 31, 2012 furnished to the SEC in a report on Form 6-K on February 27, 2013. Specifically, we included the Management's Report on Internal Control over Financial Reporting, made adjustment in the number of shares presented in consolidated Statement of Changes in Stockholders' Equity, made minor adjustments to Note 28 Board of Directors, Fiscal Council, Advisory committee and Executives Officers.

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**Consolidated Financial Statements**

**December 31, 2012**

**US GAAP**

Filed with the CVM, SEC and HKEx on

February 27, 2013

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**Report of independent registered**

**public accounting firm**

To the Board of Directors and Stockholders

Vale S.A.

In our opinion, the accompanying consolidated balance sheets and the related consolidated statements of income, of comprehensive income, of cash flows and of changes in stockholders' equity present fairly, in all material respects, the financial position of Vale S.A. and its subsidiaries (the Company) at December 31, 2012 and 2011, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2012 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2012, based on criteria established in Internal Control - Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for these financial statements, for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express opinions on these financial statements and on the Company's internal control over financial reporting based on our integrated audits. We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.



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Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

PricewaterhouseCoopers

Auditores Independentes

Rio de Janeiro, Brazil

February 27, 2013



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**Management's Report on Internal Control over Financial Reporting**

The management of Vale S.A (Vale) is responsible for establishing and maintaining adequate internal control over financial reporting.

The company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. The company's internal control over financial reporting includes those policies and procedures that: (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of the effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, and that the degree of compliance with the policies or procedures may deteriorate.

Vale's management has assessed the effectiveness of the company's internal control over financial reporting as of December 31, 2012 based on the criteria established in Internal Control - Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission - COSO. Based on such assessment and criteria, Vale's management has concluded that the company's internal control over financial reporting was effective as of December 31, 2012.

The effectiveness of the company's internal control over financial reporting as of December 31, 2012 has been audited by PricewaterhouseCoopers Auditores Independentes, an independent registered public accounting firm, as stated in their report which appears herein.

February 27th, 2013

Murilo Ferreira

Chief Executive Officer

Luciano Siani

Chief Financial Officer

Table of Contents**Consolidated Balance Sheets**

Expressed in millions of United States dollars

|  | As of December 31, |                |
|--|--------------------|----------------|
|  | 2012               | 2011           |
| <b>Assets</b>  |                    |                |
| <b>Current assets</b>  |                    |                |
| Cash and cash equivalents  | 5,832              | 3,531          |
| Short-term investments   | 246                |                |
| Accounts receivable  |                    |                |
| Related parties  | 134                | 288            |
| Third parties  | 6,661              | 8,217          |
| Loans and advances to related parties                                      | 384                | 82             |
| Inventories  | 5,052              | 5,251          |
| Deferred income tax  | 356                | 203            |
| Unrealized gains on derivative instruments                                 | 281                | 595            |
| Advances to suppliers  | 256                | 393            |
| Recoverable taxes  | 2,260              | 2,230          |
| Assets held for sale   | 479                |                |
| Others   | 956                | 946            |
|  | <b>22,897</b>      | <b>21,736</b>  |
| <b>Non-current assets</b>  |                    |                |
| Property, plant and equipment, net   | 90,744             | 88,895         |
| Intangible assets  | 1,022              | 1,135          |
| Investments in affiliated companies, joint ventures and others investments | 6,492              | 8,093          |
| Other assets   |                    |                |
| Goodwill on acquisition of subsidiaries                                    | 2,947              | 3,026          |
| Loans and advances   |                    |                |
| Related parties  | 408                | 509            |
| Third parties  | 246                | 210            |
| Prepaid pension cost   | 844                | 1,666          |
| Judicial deposits  | 1,515              | 1,464          |
| Recoverable taxes  | 658                | 587            |
| Deferred income tax  | 2,886              | 594            |
| Unrealized gains on derivative instruments                                 | 45                 | 60             |
| Deposit on incentive / reinvestment  | 160                | 229            |
| Others   | 614                | 524            |
|  | <b>108,581</b>     | <b>106,992</b> |
| <b>Total</b>   | <b>131,478</b>     | <b>128,728</b> |

Table of Contents**Consolidated Balance Sheets**

Expressed in millions of United States dollars

(Except number of shares)

|  | (Continued)<br>As of December 31, |               |
|--|-----------------------------------|---------------|
|  | 2012                              | 2011          |
| <b>Liabilities and stockholders equity</b>   |                                   |               |
| <b>Current liabilities</b>   |                                   |               |
| Suppliers  | 4,529                             | 4,814         |
| Payroll and related charges  | 1,481                             | 1,307         |
| Minimum annual remuneration attributed to stockholders   |                                   | 1,181         |
| Current portion of long-term debt  | 3,468                             | 1,495         |
| Short-term debt  |                                   | 22            |
| Loans from related parties   | 207                               | 24            |
| Provision for income taxes   | 641                               | 507           |
| Taxes payable and royalties  | 324                               | 524           |
| Employee postretirement benefits   | 205                               | 147           |
| Railway sub-concession agreement payable   | 65                                | 66            |
| Unrealized losses on derivative instruments  | 347                               | 73            |
| Provisions for asset retirement obligations  | 70                                | 73            |
| Liabilities associated with assets held for sale   | 181                               |               |
| Others   | 1,067                             | 810           |
|  | <b>12,585</b>                     | <b>11,043</b> |
| <b>Non-current liabilities</b>   |                                   |               |
| Employee postretirement benefits   | 3,256                             | 2,446         |
| Loans from related parties   | 72                                | 91            |
| Long-term debt   | 26,799                            | 21,538        |
| Provisions for contingencies (Note 21 (b))   | 2,065                             | 1,686         |
| Unrealized losses on derivative instruments  | 783                               | 663           |
| Deferred income tax  | 3,538                             | 5,654         |
| Provisions for asset retirement obligations  | 2,333                             | 1,697         |
| Stockholders debentures  | 1,653                             | 1,336         |
| Others   | 2,031                             | 2,460         |
|  | <b>42,530</b>                     | <b>37,571</b> |
| <b>Redeemable noncontrolling interest</b>  | <b>487</b>                        | <b>505</b>    |
| <b>Commitments and contingencies (Note 21)</b>   |                                   |               |
| <b>Stockholders equity</b>   |                                   |               |
| Preferred class A stock - 7,200,000,000 no-par-value shares authorized and 2,108,579,618 (2011 - 2,108,579,618) issued | 16,728                            | 16,728        |

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|  |                |                |
|--|----------------|----------------|
| Common stock - 3,600,000,000 no-par-value shares authorized and 3,256,724,482 (2011 - 3,256,724,482) issued  | 25,837         | 25,837         |
| Treasury stock - 140,857,692 (2011 - 181,099,814) preferred and 71,071,482 (2011 - 86,911,207) common shares | (4,477)        | (5,662)        |
| Additional paid-in capital   | (529)          | (61)           |
| Mandatorily convertible notes - common shares  |                | 290            |
| Mandatorily convertible notes - preferred shares   |                | 644            |
| Other cumulative comprehensive deficit   | (9,613)        | (5,673)        |
| Undistributed retained earnings  | 38,997         | 41,130         |
| Unappropriated retained earnings   | 7,298          | 4,482          |
| <b>Total Company stockholders equity</b>   | <b>74,241</b>  | <b>77,715</b>  |
| <b>Noncontrolling interests</b>  | <b>1,635</b>   | <b>1,894</b>   |
| <b>Total stockholders equity</b>   | <b>75,876</b>  | <b>79,609</b>  |
| <b>Total</b>   | <b>131,478</b> | <b>128,728</b> |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Consolidated Statements of Income**

Expressed in millions of United States dollars

(Except per share amounts)

|   | Year ended as of December 31, |                 |                 |
|---|-------------------------------|-----------------|-----------------|
|   | 2012                          | 2011            | 2010            |
| <b>Operating revenues, net of discounts, returns and allowances</b>           |                               |                 |                 |
| Sales of ores and metals  | 41,730                        | 55,156          | 41,158          |
| Aluminum products   |                               | 383             | 2,554           |
| Revenues from logistic services   | 1,644                         | 1,726           | 1,465           |
| Fertilizer products   | 3,777                         | 3,547           | 1,845           |
| Others  | 1,602                         | 1,533           | 1,195           |
|   | <b>48,753</b>                 | <b>62,345</b>   | <b>48,217</b>   |
| Taxes on revenues   | (1,059)                       | (1,399)         | (1,188)         |
| <b>Net operating revenues</b>   | <b>47,694</b>                 | <b>60,946</b>   | <b>47,029</b>   |
| <b>Operating costs and expenses</b>   |                               |                 |                 |
| Cost of ores and metals sold  | (20,581)                      | (19,854)        | (15,062)        |
| Cost of aluminum products   |                               | (289)           | (2,108)         |
| Cost of logistic services   | (1,399)                       | (1,402)         | (1,040)         |
| Cost of fertilizer products   | (2,984)                       | (2,701)         | (1,556)         |
| Others  | (1,627)                       | (1,283)         | (784)           |
|   | <b>(26,591)</b>               | <b>(25,529)</b> | <b>(20,550)</b> |
| Selling and administrative expenses   | (2,240)                       | (2,334)         | (1,701)         |
| Research and development expenses   | (1,478)                       | (1,674)         | (878)           |
| Impairment on assets  | (4,023)                       |                 |                 |
| Gain (loss) on sale of assets   | (491)                         | 1,513           |                 |
| Others  | (3,648)                       | (2,810)         | (2,205)         |
|   | <b>(38,471)</b>               | <b>(30,834)</b> | <b>(25,334)</b> |
| <b>Operating income</b>   | <b>9,223</b>                  | <b>30,112</b>   | <b>21,695</b>   |
| <b>Non-operating income (expenses)</b>  |                               |                 |                 |
| Financial income  | 401                           | 718             | 290             |
| Financial expenses  | (2,414)                       | (2,465)         | (2,646)         |
| Gains (losses) on derivatives, net  | (120)                         | 75              | 631             |
| Foreign exchange gains (losses), net  | (1,915)                       | (1,492)         | 301             |
| Indexation gains (losses), net  | 247                           | (149)           | 43              |
|   | <b>(3,801)</b>                | <b>(3,313)</b>  | <b>(1,381)</b>  |
| <b>Income before discontinued operations, income taxes and equity results</b> | <b>5,422</b>                  | <b>26,799</b>   | <b>20,314</b>   |
| <b>Income taxes</b>   |                               |                 |                 |
| Current   | (2,529)                       | (5,547)         | (4,996)         |
| Deferred  |                               |                 |                 |
| In the year   | 799                           | 265             | 1,291           |
| On impairment   | 1,327                         |                 |                 |
| Reversal of liabilities (Note 5b.)  | 1,236                         |                 |                 |

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|   |              |                |                |
|---|--------------|----------------|----------------|
|   | <b>833</b>   | <b>(5,282)</b> | <b>(3,705)</b> |
| Equity in results of affiliates, joint ventures and other investments | 640          | 1,135          | 987            |
| Impairment on investments   | (1,641)      |                |                |
| <b>Net income (loss) from continuing operations</b>                   | <b>5,254</b> | <b>22,652</b>  | <b>17,596</b>  |
| <b>Discontinued operations, net of tax</b>                            |              |                | <b>(143)</b>   |
| <b>Net income</b>   | <b>5,254</b> | <b>22,652</b>  | <b>17,453</b>  |
| <b>Net income attributable to noncontrolling interests</b>            | <b>(257)</b> | <b>(233)</b>   | <b>189</b>     |
| <b>Net income attributable to the Company's stockholders</b>          | <b>5,511</b> | <b>22,885</b>  | <b>17,264</b>  |
| <b>Earnings per share attributable to Company's stockholders:</b>     |              |                |                |
| Earnings per preferred share  | 1.07         | 4.33           | 3.23           |
| Earnings per common share   | 1.07         | 4.33           | 3.23           |
| Earnings per convertible note linked to preferred share               |              | 6.39           | 4.76           |
| Earnings per convertible note linked to common share                  |              | 8.15           | 6.52           |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Consolidated Statements of Comprehensive Income**

Expressed in millions of United States dollars

|  | 2012         | Year ended as of December 31,<br>2011 | 2010          |
|--|--------------|---------------------------------------|---------------|
| <b>Comprehensive income is comprised as follows:</b>                                 |              |                                       |               |
| <b>Company's stockholders:</b>   |              |                                       |               |
| Net income attributable to Company's stockholders                                    | 5,511        | 22,885                                | 17,264        |
| Cumulative translation adjustments   | (2,882)      | (4,985)                               | 1,519         |
| <b>Unrealized gain (loss) on available-for-sale securities</b>                       |              |                                       |               |
| Gross balance as of the year end   |              | (13)                                  | 12            |
| Tax (expense) benefit  | (1)          | 11                                    | (9)           |
|  | <b>(1)</b>   | <b>(2)</b>                            | <b>3</b>      |
| <b>Surplus (deficit) accrued pension plan</b>  |              |                                       |               |
| Gross balance as of the year end   | (1,322)      | (740)                                 | (53)          |
| Tax (expense) benefit  | 386          | 232                                   | 32            |
|  | <b>(936)</b> | <b>(508)</b>                          | <b>(21)</b>   |
| <b>Cash flow hedge</b>   |              |                                       |               |
| Gross balance as of the year end   | (113)        | 130                                   | (16)          |
| Tax (expense) benefit  | (8)          | 25                                    | (10)          |
|  | <b>(121)</b> | <b>155</b>                            | <b>(26)</b>   |
| <b>Total comprehensive income attributable to Company's stockholders</b>             | <b>1,571</b> | <b>17,545</b>                         | <b>18,739</b> |
| <b>Noncontrolling interests:</b>   |              |                                       |               |
| Income (losses) attributable to noncontrolling interests                             | (257)        | (233)                                 | 189           |
| Cumulative translation adjustments   | 46           | (210)                                 | 104           |
| Pension plan   |              | 4                                     |               |
| Cash flow hedge  |              | 1                                     | 40            |
| <b>Total comprehensive income (deficit) attributable to Noncontrolling interests</b> | <b>(211)</b> | <b>(438)</b>                          | <b>333</b>    |
| <b>Total comprehensive income</b>  | <b>1,360</b> | <b>17,107</b>                         | <b>19,072</b> |

The accompanying notes are an integral part of these financial statements.



Table of Contents**Consolidated Statements of Cash Flows**

Expressed in millions of United States dollars

|   | Year ended as of December 31, |               |               |
|---|-------------------------------|---------------|---------------|
|   | 2012                          | 2011          | 2010          |
| <b>Cash flows from operating activities:</b>                          |                               |               |               |
| <b>Net income</b>   | <b>5,254</b>                  | <b>22,652</b> | <b>17,453</b> |
| Adjustments to reconcile net income to cash from operations:          |                               |               |               |
| Depreciation, depletion and amortization                              | 4,396                         | 4,122         | 3,260         |
| Dividends received  | 460                           | 1,038         | 1,161         |
| Equity in results of affiliates, joint ventures and other investments | (640)                         | (1,135)       | (987)         |
| Deferred income taxes   | (799)                         | (265)         | (1,291)       |
| Reversal of deferred tax liability (Note 5a.)                         | (1,236)                       |               |               |
| Deferred taxes on assets Impairment                                   | (1,327)                       |               |               |
| Asset and investment impairment charge                                | 5,664                         |               |               |
| Loss on disposal of property, plant and equipment                     | 216                           | 223           | 623           |
| Loss (gain) on sale of assets held for sale                           | 491                           | (1,513)       |               |
| Discontinued operations, net of tax                                   |                               |               | 143           |
| Unrealized foreign exchange and indexation                            | 1,012                         | 2,879         | (787)         |
| Unrealized derivative losses (gains), net                             | 613                           | 490           | 594           |
| Unrealized interest (income) expense, net                             | (24)                          | 194           | 187           |
| Stockholders debentures   | 109                           | 246           | 449           |
| Others  | (310)                         | (183)         | 58            |
| <b>Decrease (increase) in assets:</b>                                 |                               |               |               |
| Accounts receivable   | 1,900                         | (821)         | (3,800)       |
| Inventories   | (296)                         | (1,343)       | (425)         |
| Recoverable taxes   | 177                           | (563)         | 42            |
| Others  | 530                           | (315)         | 307           |
| <b>Increase (decrease) in liabilities:</b>                            |                               |               |               |
| Suppliers   | (168)                         | 1,076         | 928           |
| Payroll and related charges   | 185                           | 285           | 214           |
| Income taxes  | (143)                         | (2,478)       | 1,311         |
| Others  | 531                           | (93)          | (257)         |
| <b>Net cash provided by operating activities</b>                      | <b>16,595</b>                 | <b>24,496</b> | <b>19,183</b> |
| <b>Cash flows from investing activities:</b>                          |                               |               |               |
| Short term investments  | (246)                         | 1,793         | 1,954         |
| Loans and advances receivable   |                               |               |               |
| Related parties   |                               |               |               |
| Loan proceeds   |                               |               | (28)          |
| Others  | 292                           | (178)         | (30)          |
| Judicial deposits   | (116)                         | (186)         | (94)          |
| Investments   | (474)                         | (504)         | (87)          |
| Additions to property, plant and equipment                            | (15,777)                      | (16,075)      | (12,647)      |
| Proceeds from disposal of investments                                 | 974                           | 1,081         |               |
| Acquisition (sale) of subsidiaries                                    |                               |               | (6,252)       |

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|  |                 |                 |                 |
|--|-----------------|-----------------|-----------------|
| <b>Net cash used in investing activities</b>                 | <b>(15,347)</b> | <b>(14,069)</b> | <b>(17,184)</b> |
| <b>Cash flows from financing activities:</b>                 |                 |                 |                 |
| Short-term debt  |                 |                 |                 |
| Additions  | 593             | 859             | 2,233           |
| Repayments   | (526)           | (955)           | (2,132)         |
| Loans  |                 |                 |                 |
| Related parties  |                 |                 |                 |
| Proceeds   |                 | 19              | 24              |
| Repayments   |                 | (1)             | (25)            |
| Issuances of long-term debt                                  |                 |                 |                 |
| Third parties  |                 |                 |                 |
| Proceeds   | 8,740           | 1,564           | 4,436           |
| Repayments   | (1,186)         | (2,621)         | (2,629)         |
| Treasury stock   |                 | (3,002)         | (1,510)         |
| Transactions with noncontrolling interest                    | (411)           | (1,134)         | 660             |
| Dividends and interest attributed to Company's stockholders  | (6,000)         | (9,000)         | (3,000)         |
| Dividends and interest attributed to noncontrolling interest | (45)            | (100)           | (140)           |
| <b>Net cash provided by (used in) financing activities</b>   | <b>1,165</b>    | <b>(14,371)</b> | <b>(2,083)</b>  |
| Increase (decrease) in cash and cash equivalents             | 2,413           | (3,944)         | (84)            |
| Effect of exchange rate changes on cash and cash equivalents | (112)           | (109)           | 375             |
| Cash and cash equivalents, beginning of year                 | 3,531           | 7,584           | 7,293           |
| <b>Cash and cash equivalents, end of year</b>                | <b>5,832</b>    | <b>3,531</b>    | <b>7,584</b>    |
| Cash paid during the year for:                               |                 |                 |                 |
| Interest on short-term debt                                  | (8)             | (3)             | (5)             |
| Interest on long-term debt                                   | (1,308)         | (1,143)         | (1,097)         |
| Income tax   | (1,238)         | (7,293)         | (1,972)         |
| <b>Non-cash transactions</b>                                 |                 |                 |                 |
| Income tax paid with credits                                 | (1,129)         | (681)           | 301             |
| Interest capitalized   | 335             | 234             | 164             |

Conversion of mandatorily convertible notes using 56,081,560 treasury stock (Note 18)

The accompanying notes are an integral part of these financial statements.

Table of Contents**Consolidated Statements of Changes in Stockholders' Equity**

Expressed in millions of United States dollars

(Except number of shares)

|   | 2012           | Year ended as of December 31,<br>2011 | 2010           |
|---|----------------|---------------------------------------|----------------|
| <b>Preferred class A stock (including 12 golden shares)</b>               |                |                                       |                |
| <b>Beginning of the year</b>  | <b>16,728</b>  | <b>10,370</b>                         | <b>9,727</b>   |
| Capital increase  |                | 6,358                                 |                |
| Transfer from undistributed retained earnings                             |                |                                       | 643            |
| <b>End of the year</b>  | <b>16,728</b>  | <b>16,728</b>                         | <b>10,370</b>  |
| <b>Common stock</b>   |                |                                       |                |
| <b>Beginning of the year</b>  | 25,837         | 16,016                                | 15,262         |
| Capital increase  |                | 9,821                                 |                |
| Transfer from undistributed retained earnings                             |                |                                       | 754            |
| <b>End of the year</b>  | <b>25,837</b>  | <b>25,837</b>                         | <b>16,016</b>  |
| <b>Treasury stock</b>   |                |                                       |                |
| <b>Beginning of the year</b>  | (5,662)        | (2,660)                               | (1,150)        |
| Sales (acquisitions)  | 1,185          | (3,002)                               | (1,510)        |
| <b>End of the year</b>  | <b>(4,477)</b> | <b>(5,662)</b>                        | <b>(2,660)</b> |
| <b>Additional paid-in capital</b>   |                |                                       |                |
| <b>Beginning of the year</b>  | (61)           | 2,188                                 | 411            |
| Change in the year  | (468)          | (2,249)                               | 1,777          |
| <b>End of the year</b>  | <b>(529)</b>   | <b>(61)</b>                           | <b>2,188</b>   |
| <b>Mandatorily convertible notes - common shares</b>                      |                |                                       |                |
| <b>Beginning of the year</b>  | 290            | 290                                   | 1,578          |
| Change in the year  | (290)          |                                       | (1,288)        |
| <b>End of the year</b>  |                | <b>290</b>                            | <b>290</b>     |
| <b>Mandatorily convertible notes - preferred shares</b>                   |                |                                       |                |
| <b>Beginning of the year</b>  | 644            | 644                                   | 1,225          |
| Change in the year  | (644)          |                                       | (581)          |
| <b>End of the year</b>  |                | <b>644</b>                            | <b>644</b>     |
| <b>Other cumulative comprehensive income (deficit)</b>                    |                |                                       |                |
| <b>Cumulative translation adjustments</b>                                 |                |                                       |                |
| <b>Beginning of the year</b>  | (5,238)        | (253)                                 | (1,772)        |
| Change in the year  | (2,882)        | (4,985)                               | 1,519          |
| <b>End of the year</b>  | <b>(8,120)</b> | <b>(5,238)</b>                        | <b>(253)</b>   |
| <b>Unrealized gain (loss) - available-for-sale securities, net of tax</b> |                |                                       |                |
| <b>Beginning of the year</b>  | 1              | 3                                     |                |
| Change in the year  | (1)            | (2)                                   | 3              |
| <b>End of the year</b>  |                | <b>1</b>                              | <b>3</b>       |
| <b>Surplus (deficit) of accrued pension plan</b>                          |                |                                       |                |
| <b>Beginning of the year</b>  | (567)          | (59)                                  | (38)           |
| Change in the year  | (936)          | (508)                                 | (21)           |

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|   |                      |                      |                      |
|---|----------------------|----------------------|----------------------|
| <b>End of the year</b>  | <b>(1,503)</b>       | <b>(567)</b>         | <b>(59)</b>          |
| <b>Cash flow hedge</b>  |                      |                      |                      |
| <b>Beginning of the year</b>                                    | 131                  | (24)                 | 2                    |
| Change in the year  | (121)                | 155                  | (26)                 |
| <b>End of the year</b>  | <b>10</b>            | <b>131</b>           | <b>(24)</b>          |
| <b>Total other cumulative comprehensive income (deficit)</b>    | <b>(9,613)</b>       | <b>(5,673)</b>       | <b>(333)</b>         |
| <b>Undistributed retained earnings</b>                          |                      |                      |                      |
| <b>Beginning of the year</b>                                    | 41,130               | 42,218               | 28,508               |
| Transfer from unappropriated retained earnings                  | (2,133)              | 13,221               | 15,107               |
| Transfer to capitalized earnings                                |                      | (14,309)             | (1,397)              |
| <b>End of the year</b>  | <b>38,997</b>        | <b>41,130</b>        | <b>42,218</b>        |
| <b>Unappropriated retained earnings</b>                         |                      |                      |                      |
| <b>Beginning of the year</b>                                    | 4,482                | 166                  | 3,182                |
| Net income attributable to the Company's stockholders           | 5,511                | 22,885               | 17,264               |
| Remuneration of mandatorily convertible notes                   |                      |                      |                      |
| Preferred class A stock   | (44)                 | (97)                 | (72)                 |
| Common stock  | (19)                 | (70)                 | (61)                 |
| Dividends and interest attributed to stockholders' equity       |                      |                      |                      |
| Preferred class A stock   | (1,929)              | (2,143)              | (1,940)              |
| Common stock  | (2,836)              | (3,038)              | (3,100)              |
| Appropriation to undistributed retained earnings                | 2,133                | (13,221)             | (15,107)             |
| <b>End of the year</b>  | <b>7,298</b>         | <b>4,482</b>         | <b>166</b>           |
| <b>Total Company stockholders' equity</b>                       | <b>74,241</b>        | <b>77,715</b>        | <b>68,899</b>        |
| <b>Noncontrolling interests</b>                                 |                      |                      |                      |
| <b>Beginning of the year</b>                                    | <b>1,894</b>         | <b>2,830</b>         | <b>2,831</b>         |
| Disposals (acquisitions) of noncontrolling interests            | (198)                | (631)                | 1,629                |
| Cumulative translation adjustments                              | 46                   | (210)                | 104                  |
| Cash flow hedge   |                      | 1                    | 40                   |
| Losses attributable to noncontrolling interests                 | (257)                | (233)                | 189                  |
| Net income attributable to redeemable noncontrolling interests  | 181                  | 207                  |                      |
| Dividends and interest attributable to noncontrolling interests | (74)                 | (105)                | (104)                |
| Capitalization of stockholders' advances                        | 43                   | 31                   | 27                   |
| Pension plan  |                      | 4                    |                      |
| Assets and liabilities held for sale                            |                      |                      | (1,886)              |
| <b>End of the year</b>  | <b>1,635</b>         | <b>1,894</b>         | <b>2,830</b>         |
| <b>Total stockholders' equity</b>                               | <b>75,876</b>        | <b>79,609</b>        | <b>71,729</b>        |
| <b>Number of shares issued and outstanding:</b>                 |                      |                      |                      |
| Preferred class A stock (including 12 golden shares)            | 2,108,579,618        | 2,108,579,618        | 2,108,579,618        |
| Common stock  | 3,256,724,482        | 3,256,724,482        | 3,256,724,482        |
| Buy-backs   |                      |                      |                      |
| <b>Beginning of the year</b>                                    | (268,011,021)        | (147,024,965)        | (152,579,803)        |
| Acquisitions  |                      | (120,987,980)        | (69,880,400)         |
| Conversions   | 56,081,847           | 1,924                | 75,435,238           |
| <b>End of the year</b>  | <b>(211,929,174)</b> | <b>(268,011,021)</b> | <b>(147,024,965)</b> |
|   | <b>5,153,374,926</b> | <b>5,097,293,079</b> | <b>5,218,279,135</b> |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Notes to the Consolidated Financial Statements**

Expressed in millions of United States dollars, unless otherwise stated

**1 The Company and its operations**

Vale S.A., ( Vale , Company or we ) is a limited liability company incorporated in Brazil. Operations are carried out through Vale and our subsidiary companies, joint ventures and affiliates, and mainly consist of mining, base metals production, fertilizers, logistics and steel activities.

Our principal consolidated operating subsidiaries at December 31, 2012 are the following:

| <b>Subsidiaries</b>                     | <b>% ownership</b> | <b>% voting capital</b> | <b>Location</b> | <b>Principal activity</b> |
|---|--------------------|-------------------------|-----------------|---------------------------|
| Compañia Minera Miski Mayo S.A.C.       | 40.00              | 51.00                   | Peru            | Fertilizer                |
| Ferrovía Centro-Atlántica S.A.          | 99.99              | 99.99                   | Brazil          | Logistics                 |
| Ferrovía Norte Sul S.A.                 | 100.00             | 100.00                  | Brazil          | Logistics                 |
| Mineração Corumbaense Reunida S.A.      | 100.00             | 100.00                  | Brazil          | Iron Ore and Manganese    |
| PT Vale Indonesia Tbk                   | 59.20              | 59.20                   | Indonesia       | Nickel                    |
| Sociedad Contractual Minera Tres Valles | 90.00              | 90.00                   | Chile           | Copper                    |
| Vale Australia Pty Ltd.                 | 100.00             | 100.00                  | Australia       | Coal                      |
| Vale Canada Limited                     | 100.00             | 100.00                  | Canada          | Nickel                    |
| Vale Fertilizantes S.A.                 | 100.00             | 100.00                  | Brazil          | Fertilizer                |
| Vale International Holdings GMBH        | 100.00             | 100.00                  | Austria         | Holding and Exploration   |
| Vale International S.A.                 | 100.00             | 100.00                  | Switzerland     | Trading                   |
| Vale Manganês S.A.                      | 100.00             | 100.00                  | Brazil          | Manganese and Ferroalloys |
| Vale Mina do Azul S.A.                  | 100.00             | 100.00                  | Brazil          | Manganese                 |
| Vale Moçambique S.A.                    | 95.00              | 95.00                   | Mozambique      | Coal                      |
| Vale Nouvelle-Calédonie SAS             | 80.50              | 80.50                   | New Caledonia   | Nickel                    |
| Vale Oman Pelletizing Company LLC       | 70.00              | 70.00                   | Oman            | Pellets                   |
| Vale Shipping Holding PTE Ltd.          | 100.00             | 100.00                  | Singapore       | Logistics                 |

**2 Basis of consolidation**

All majority-owned subsidiaries in which we have both share and management control are consolidated. All significant intercompany accounts and transactions are eliminated. Subsidiaries over which control is achieved through other means, such as stockholders agreement, are also consolidated even if we hold less than 51% of voting capital. Our variable interest entities in which we are the primary beneficiary are

consolidated. Investments in unconsolidated affiliates and joint ventures are accounted under the equity method (Note 15).

We evaluate the carrying value of our equity investments in relation to publicly quoted market prices when available. If the quoted market price is lower than book value, and such decline is considered other than temporary, we write-down our equity investments to the level of the quoted market value.

We define joint ventures as businesses in which we and a small group of other partners each participate actively in the overall entity management, based on a stockholders agreement. We define affiliates as businesses in which we participate as a noncontrolling interest but with significant influence over the operating and financial policies of the investee.

Our participation in hydroelectric projects in Brazil is made via consortium contracts under which we have undivided interests in the assets, and are liable for our proportionate share of liabilities and expenses, which are based on our proportionate share of power output. We do not have joint liability for any obligations. No separate legal or tax status is granted to unincorporated consortia under Brazilian law. Accordingly, we recognize our proportionate share of costs and our undivided interest in assets relating to hydroelectric projects (Note 13).

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**3 Summary of significant accounting policies**

The preparation of financial statements requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Estimates are used for, but not limited to, the selection of useful lives of property, plant and equipment, impairment, provisions necessary for contingent liabilities, fair values assigned to assets and liabilities acquired in business combinations, income tax valuation allowances, employee post retirement benefits and other similar evaluations. Actual results could differ from those estimated.

**a) Basis of presentation**

We have prepared our consolidated financial statements in accordance with United States generally accepted accounting principles ( US GAAP ), which differ in certain respects from the accounting practices adopted in Brazil ( BR GAAP ), compliant with International Financial Reporting Standards ( IFRS ) as issued by the International Accounting Standard Board ( IASB ), which are the basis for our statutory financial statements.

The Brazilian Real ( R\$ ) is the Parent Company s functional currency. We have selected the US dollar ( US\$ ) a convenience to facilitate analysis by our international investor.

In 2011, based on entity business assessment, Vale International changed its functional currency from the Brazilian Real to the US dollar. This change did not cause significant effects in the financial statements presented.

All assets and liabilities have been translated to US dollars at the closing rate of exchange at each balance sheet date (or, if unavailable, the first available exchange rate). All statement of income accounts have been translated to US dollars at the average exchange rates prevailing during the respective periods. Capital accounts are recorded at historical exchange rates. Translation gains and losses are recorded in the Cumulative Translation Adjustments account ( CTA ) in stockholders equity.

The results of operations and financial position of our entities that have a functional currency other than the US dollar, have been translated into US dollars and adjustments to translate those statements into US dollars are recorded in the CTA in stockholders equity.

The exchange rates used to translate the assets and liabilities of the Brazilian operations at December 31, 2012 and 2011, were R\$ 2.0435 and R\$1.8683, respectively.

**b) Revision of prior year revenue presentation**

For certain contracts, we carry the risks concerning the transportation of the products and determine the freight price directly to our customer. However, for these contracts in 2011 and 2010 the major part of the freight related to CFR (Incoterm for cost and freight) for iron ore and pellets sales, was recorded as if Vale was acting as an agent, resulting in the net presentation of freight revenues. We revised the 2011 and 2010 income statement presentation to appropriately reflect the revenue of such sales by the total amount billed to customers and as a consequence present the related freight costs as cost of product sold and therefore we increase the 2011 sales of ore and metals in amount of US\$ 1,955 (US\$1,735 in 2010) with the corresponding increase in cost of ores and metals sold. The revision did not result in any other changes in the income statement presentation.

**c) Information by Segment and Geographic Area**

The Company discloses information by consolidated operational business segment and revenues by consolidated geographic area, in accordance with the principles and concepts used by decision makers in evaluating performance. The information is analyzed by segment as follows:

**Bulk Material** - includes the extraction of iron ore and pellet production and the transport systems of Brazil, including railroads, ports and terminals, linked to mining operations. The manganese ore, ferroalloys and coal are also included in this segment.

**Base metals** includes the production of non-ferrous minerals, including nickel operations (co-products and by-products), copper and investment in aluminum affiliate.



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**Fertilizers** comprises three major groups of nutrients: potash, phosphate and nitrogen.

**Logistical services** includes our system of cargo transportation for third parties divided into rail transport, port and shipping services.

**Other** - comprises sales and expenses of other products and investments in joint ventures and associate in other businesses.

**d) Current and non-current assets and liabilities**

We classify assets and liabilities as current when it expects to realize the assets and to settle the liabilities, within twelve months after the reporting period. Others assets and liabilities are classified as non-current.

**e) Cash equivalents and short-term investments**

The amounts recorded as cash and cash equivalents correspond to the values available in cash, bank deposits and investments in the short-term that have immediate liquidity and original maturity within 90 days. Other investments with between 91 and 360 day maturities are recognized at fair value through income and presented in short-term investments.

**f) Accounts Receivable**

Represent receivables from sales of products and services. Receivables are initially recorded at fair value and subsequently measured at amortized cost, net of impairment losses, when applicable.

**g) Inventory**

Inventories are recorded at the average cost of purchase or production, reduced to market value (net realizable value less a reasonable margin) when lower. Stockpiled inventories are accounted in process when they are removed from the mine. The cost of finished goods is comprised of depreciation and all direct costs necessary to convert stockpiled inventories into finished goods.

We classify proven and probable reserve quantities attributable to stockpiled inventories as inventories. These reserve quantities are not included in the total proven and probable reserve quantities used in the units of production, depreciation, depletion and amortization calculations.

We periodically assess our inventories to identify obsolete or slow-moving inventories and, if needed, we record allowances as considered necessary.

**h) Stripping costs**

Stripping costs (the cost associated with the removal of overburden and other waste materials) incurred during the development of mines, before production takes place, are capitalized as part of the depreciable cost of developing the property. These costs are subsequently amortized over the useful life of the mine based on proven and probable reserves.

Post-production stripping costs are included in the cost of inventory, except when a campaign is launched to permit the access to a significant new ore body. In such cases, the cost is capitalized as non-current asset and amortized during the extraction of the ore body.

**i) Property, plant and equipment and intangible assets**

Property, plant and equipment are recorded at cost, including interest cost incurred during the construction of major new facilities. We compute depreciation on the straight-line method at annual average rates which take into consideration the useful lives of the assets, as follows: 3.73% for railroads, 1.5% for buildings, 4.23% for installations and 7.73% for other equipment. Expenditures for maintenance and repairs are charged to operating costs and expenses as incurred.

We capitalize the costs of developing major new ore bodies or expanding the capacity of operating mines and amortize these to operations on the unit-of-production method based on the total probable and proven quantity of ore to be recovered. Exploration costs are expensed. Once the economic viability of mining activities is established, subsequent development costs are capitalized.

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Separately acquired intangible assets are shown at historical cost. Intangible assets acquired in a business combination are recognized at fair value at the acquisition date. All our intangible assets have definite useful lives and are carried at cost less accumulated amortization, which is calculated using the straight-line method over their estimated useful lives.

**j) Business combinations**

We apply accounting for business combinations to record acquisitions of interests in other companies. The purchase method, requires that we reasonably determine the fair value of the identifiable tangible and intangible assets and liabilities assumed of acquired companies and segregate goodwill as an intangible asset.

We assign goodwill to reporting units and test each reporting unit's goodwill for impairment at least annually, and whenever circumstances indicating that recognized goodwill may not be fully recovered are identified. We perform the annual goodwill impairment tests during the last quarter of each year.

Goodwill is reviewed for impairment utilizing a two step process. In the first step, we compare a reporting unit's fair value with its carrying amount to identify any potential goodwill impairment loss. If the carrying amount of a reporting unit exceeds the unit's fair value, based on a discounted cash flow analysis, we carry out the second step of the impairment test, measuring and recording the amount, if any, of the unit's goodwill impairment loss.

**k) Impairment**

The Company assesses, at each reporting date whether there is evidence that the carrying amount of financial assets measured through amortized cost and long-lived non-financial asset, should be impaired.

For financial assets measured through amortized cost, Vale compares the carrying amount with expected cash flows for the asset, and if there when appropriate, the carrying value is adjusted to the cash flow value.

Vale reviews and evaluates its long-lived assets for impairment when events or changes in circumstances indicate that the related carrying amounts may not be recoverable. Long-lived assets, other than indefinite-lived intangible assets, are evaluated for impairment under the two-step

model. An impairment is considered to exist if total estimated future cash flows on an undiscounted basis are less than the carrying amount of the asset. Once it is determined that an impairment exists, an impairment loss is measured as the amount by which the asset carrying value exceeds its fair value. Fair value is generally determined using valuation techniques, such as estimated future cash flows.

The Company determines its cash flows based on approved budgets, considering mineral reserves and mineral resources calculated by internal experts, costs and investments based on the best estimate of past performance, sale prices consistent with the projections used in reports published by industry considering the market price when available and appropriate. Cash flows used are designed based on the life of each reporting unit (consumption of reserve units in the case of minerals) and considering discount rates that reflect specific risks relating to the relevant assets in each reporting unit, depending on their composition and location.

Regardless the indication of impairment of its carrying value, goodwill balances arising from business combinations and intangible assets with indefinite useful lives are tested for impairment at least once a year.

**l) Available-for-sale equity securities**

Equity securities classified as available-for-sale are recorded pursuant to accounting for certain investments in debt and equity securities. Accordingly, we classify unrealized holding gains and losses, net of taxes, as a separate component of stockholders' equity until realized.

**m) Compensated absences**

The liability for future compensation for employee vacations is fully accrued as earned.

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**n) Derivatives and hedging activities**

We apply accounting for derivative financial instruments and hedging activities, as amended. This standard requires that we recognize all derivative financial instruments as either assets or liabilities on our balance sheet and measure such instruments at fair value. Changes in the fair value of derivatives are recorded in each period in current earnings or in other comprehensive income, in the latter case depending on whether a transaction is designated as an effective hedge and has been effective during the period.

**o) Asset retirement obligations**

Our asset retirement obligations consist primarily of estimated closure costs. The initial measurement is recognized as a liability discounted to present value and subsequently accreted through earnings. An asset retirement cost equal to the initial liability is capitalized as part of the related asset's carrying value and depreciated during the asset's useful life.

**p) Revenues and expenses**

Revenue is recognized when Vale transfers to its customers all significant risks and rewards of ownership of the product sold and services rendered. Revenue excludes any applicable sales taxes and is recognized at the fair value of the consideration received or receivable to the extent that it is probable that economic benefits will flow to Vale and the revenues and costs can be reliably measured.

In most instances sales revenue is recognized when the product is delivered to the destination specified by the customer, which is typically the vessel on which it is shipped, the destination port or the customer's premises. However, when the model negotiated with the customer is transferring risks and benefits of the product in shipment, revenue is recognized at the time.

In some cases, the sale price is determined on a provisional basis at the date of sale as the final selling price is subject to escalation clauses in contracts up to the date of final pricing. Revenue from the sale of provisionally priced is recognized when risks and rewards of ownership are transferred to the customer and revenue can be measured reliably. At this date, the amount of revenue to be recognized are estimated based on the forward price of product sold.

Expenses and costs are recognized on the accrual basis.

**q) Income taxes**

The deferred tax effects of tax loss carryforwards and temporary differences are recognized pursuant to accounting for income taxes. A valuation allowance is made when we believe that it is more likely than not that tax assets will not be fully recovered in the future.

**r) Earnings per share**

Earnings per share are computed by dividing net income by the weighted average number of common and preferred shares outstanding during the year.

**s) Interest attributed to stockholders' equity (dividend)**

Brazilian corporations are permitted to distribute interest attributable to stockholders' equity. The calculation is based on the stockholders' equity amounts as stated in the statutory accounting records and the interest rate applied may not exceed the long-term interest rate (TJLP) determined by the Brazilian Central Bank. Also, such interest may not exceed 50% of net income for the year or 50% of retained earnings plus revenue reserves as determined by Brazilian corporate law.

The notional interest charge is tax deductible in Brazil. The benefit to us, as opposed to making a dividend payment, is a reduction in our income tax burden. Income tax of 15% is withheld on behalf of the stockholders relative to the interest distribution. Under Brazilian law, interest attributed to stockholders' equity is considered as part of the annual minimum mandatory dividend (Note 18). This notional interest distribution is treated for accounting purposes as a deduction from stockholders' equity in a manner similar to a dividend and the tax credit recorded in income.

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**t) Pension and other post retirement benefits**

We sponsor private pensions and other post retirement benefits for our employees which are actuarially determined and recognized as an asset or liability or both depending on the funded or unfunded status of each plan in accordance with employees' accounting for defined benefit pension and other post retirement plans. The cost of our defined benefit and prior service costs or credits that arise during the period and are not components of net periodic benefit costs are recorded in other cumulative comprehensive income (deficit).

**4 Accounting pronouncements**

**a) Newly issued accounting pronouncements**

Accounting Standards Update ( ASU ) number 2013-02: Comprehensive Income (Topic 220): Reporting of Amounts Reclassified Out of Accumulated Other Comprehensive Income: The objective of this Update is to improve the reporting of reclassifications out of accumulated other comprehensive income. The amendments in this Update seek to attain that objective by requiring an entity to report the effect of significant reclassifications out of accumulated other comprehensive income on the respective line items in net income if the amount being reclassified is required under US GAAP. The amendments in this ASU are effective for public entities for fiscal years beginning after December 15, 2012.

ASU number 2013-01: Balance Sheet (Topic 210): The main objective in developing this Update is to address implementation issues about the scope of Accounting Standards Update No. 2011-11, Balance Sheet (Topic 210): Disclosures about Offsetting Assets and Liabilities. The amendments clarify that the scope of Update 2011-11 applies to derivatives accounted for in accordance with Topic 815, Derivatives and Hedging, including bifurcated embedded derivatives, repurchase agreements and reverse repurchase agreements, and securities borrowing and securities lending transactions that are either offset in accordance with Section 210-20-45 or Section 815-10-45 or subject to an enforceable master netting arrangement or similar agreement. The effective date is the same as the effective date of Update 2011-11.

ASU number 2012-02: Intangibles - Goodwill and Other (Topic 350). The objective of this ASU is to reduce the cost and complexity of performing an impairment test for indefinite-lived intangible assets by simplifying how an entity tests those assets for impairment and to improve consistency in impairment testing guidance among long-lived asset categories. The amendments in this ASU are effective for annual and interim impairment tests performed for public entities for fiscal years and interim periods beginning after September 15, 2012.

The Company does not expect these updates to have a significant impact on its financial statements.





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**5 Major acquisitions and divestitures**

**a) Belvedere Coal Project**

In 2012, Vale concluded the purchase option on additional 24.5% participation in the Belvedere Coal Project owned by Aquila Resources Limited ( Aquila ) in the amount of AUD150 million (US\$156).

The acquisition is subject to approvals from the government of Queensland, Australia. As a result of this transaction, Vale will increase its participation in Belvedere to 100%. Additionally, Vale agreed to pay AUD20 million (US\$21) to end litigations and disputes relating to the Belvedere with Aquila.

The project is still in stage of development and, consequently, subject to approval of the Board of Directors of Vale. At the end of transaction, Vale will have paid US\$338 for 100% of Belvedere.

**b) Fertilizer Business**

In 2010, through our wholly owned subsidiary Mineração Naque S.A. ( Naque ), we acquired 78.92% of the total capital (being 99.83% of the voting capital) of Vale Fertilizantes S.A. ( Vale Fertilizantes ) and 100% of the total capital of Vale Fosfatados S.A.. In 2011 and beginning of 2012, we concluded several transactions including a public tender to acquire the free float of Vale Fertilizantes shares, and the subsequent delisting of its shares which resulted in the Company owning of 100% of the its capital.

The purchase consideration of the business combination effected in 2010, when control was obtained, amounted to US\$5,795. The purchase price allocation exercise was concluded in 2011 and generated a deferred tax liability on the fair value adjustments, determined based on the temporary differences between the accounting basis of those assets and liabilities at fair values, substantially represented by Property Plant and Equipment, and their tax basis represented by the historical carrying values at the acquired entity. Pursuant to current Brazilian tax regulations, goodwill generated in connection with a business combination as well as the fair values of assets and liabilities acquired are only tax deductible post a legal merger between the acquirer and the acquiree.

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In June 2012, we have decided to legally merge Naque and Vale Fertilizantes. As a result, the carrying amounts of acquired assets and liabilities accounted for in Naque's consolidated financial statements, represented by their amortized fair values from acquisition date, became their tax basis.

Therefore, upon concluding the merger, there are no longer differences between tax basis and carrying amounts of the net assets acquired, and consequently there is no longer deferred tax liability amount to be recognized. The outstanding balance of the initially recognized deferred tax liability (accounted for in connection with the purchase accounting) totaling US\$1,236 was entirely recycled through P&L for the year ended December 31, 2012, in connection with the legal merger of Vale Fertilizantes into Naque. In addition, Naque was then renamed as Vale Fertilizantes.

### c) **Sale of coal**

In June 2012, we concluded the sale of our thermal coal operations in Colombia to CPC S.A.S., an affiliate of Colombian Natural Resources S.A.S. ( CNR ).

The thermal coal operations in Colombia constitute a fully-integrated mine-railway-port system consisting of a coal mine and a coal deposit; a coal port facility; and an equity participation in a railway connecting the coal mines to the port.

The loss on this transaction, of US\$355 was recorded in the income statement in the line Gain (loss) on sale of assets

### d) **Acquisition of EBM shares**

As part of its strategy to optimize its corporate structure, Vale acquired additional 10.46% of Empreendimentos Brasileiros de Mineração S.A. ( EBM ) in 2012, whose main asset is an interest in Minerações Brasileiras Reunidas S.A. ( MBR ), which owns the Itabirito, Vargem Grande and Paraopeba mining properties. As a result of the acquisition, we increased our share in EBM to 96.7% and in MBR to 98.3%. We recorded US\$62 as result from operations with noncontrolling interest in Stockholders Equity .

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**e) Manganese and ferroalloys**

In October 2012, we concluded the sale of the manganese ferroalloys operations in Europe to subsidiaries of Glencore International Plc., a company listed on the London and Hong Kong Stock Exchanges, for US\$160 in cash, subject to the fulfillment of certain precedent conditions. We recognized a loss of US\$22 presented in our statement of income as gain (loss) on sale of assets .

The manganese ferroalloys operations in Europe consist of: (a) 100% of Vale Manganèse France SAS, located in Dunkirk France; and (b) 100% of Vale Manganese Norway AS, located in Mo I Rana, Norway.

**f) Participation of Vale Oman Pelletizing**

In October 2012, Vale sold 30% of participation in Vale Oman Pelletizing LLC for the Oman Oil Company, wholly owned subsidiary of the Government of the Sultanate of Oman, for US\$71. We recognized a gain of US\$63 recorded in equity.

**6 Income taxes**

We analyze the potential tax impact associated with undistributed earnings of each of our subsidiaries and affiliates. For those subsidiaries in which undistributed earnings are intended to be reinvested indefinitely, no deferred tax is recognized. Undistributed earnings of foreign consolidated subsidiaries and affiliates for which no deferred income tax has been recognized for possible future remittances to the parent company totaled approximately US\$26,800 on December 31, 2012 and US\$26,300 on December 31, 2011. These amounts are considered to be permanently reinvested in the Company's international business. It is not practicable to determine the amount of the unrecognized deferred tax liability associated with these amounts. If we did determine to repatriate these earnings, there would be various methods available to us, each with different tax consequences. There would also be uncertainty as to the timing and amount, if any, of foreign tax credits that would be available, as the calculation of the available foreign tax credit is dependent upon the timing of the repatriation and projections of significant future uncertain events. The wide range of potential outcomes that could result due to these factors, among others, makes it impracticable to calculate the amount of tax that hypothetically would be recognized on these earnings if they were repatriated.

There were no changes in the rates of taxes in the countries where we operate in the years reported. The income tax expense in the statement of income is reconciled with the Brazilian nominal statutory composite rate, as follows:

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|  | Year ended as of December 31, |                 |              |                |                 |                |                |                 |                |
|--|-------------------------------|-----------------|--------------|----------------|-----------------|----------------|----------------|-----------------|----------------|
|  | Brazil                        | 2012<br>Foreign | Total        | Brazil         | 2011<br>Foreign | Total          | Brazil         | 2010<br>Foreign | Total          |
| Income before discontinued operations, income taxes, equity results and noncontrolling interests | 6,210                         | (788)           | 5,422        | 21,267         | 5,532           | 26,799         | 16,586         | 3,728           | 20,314         |
|  | <b>6,210</b>                  | <b>(632)</b>    | <b>5,578</b> | <b>21,267</b>  | <b>5,558</b>    | <b>26,825</b>  | <b>16,586</b>  | <b>3,993</b>    | <b>20,579</b>  |
| Tax at Brazilian composite rate  | (2,111)                       | 268             | (1,843)      | (7,231)        | (1,881)         | (9,112)        | (5,639)        | (1,268)         | (6,907)        |
| <b>Adjustments to derive effective tax rate:</b>   |                               |                 |              |                |                 |                |                |                 |                |
| Tax benefit on interest attributed to stockholders   | 1,337                         |                 | 1,337        | 1,655          |                 | 1,655          | 995            |                 | 995            |
| Difference on foreign tax jurisdiction rates   |                               | 221             | 221          |                | 1,415           | 1,415          |                | 1,673           | 1,673          |
| Tax incentives   | 204                           |                 | 204          | 704            |                 | 704            | 642            |                 | 642            |
| Social contribution contingency payment  |                               |                 |              | 506            |                 | 506            |                |                 |                |
| Reversal/Constitution of allowance for tax loss carryforward                                     |                               | (228)           | (228)        | 129            | (426)           | (297)          |                |                 |                |
| Reversal of deferred tax liability (Note 5a.)  | 1,236                         |                 | 1,236        |                |                 |                |                |                 |                |
| Other non-taxable, income/non deductible expenses  | (41)                          |                 | (41)         | 48             | (192)           | (144)          | 13             | (31)            | (18)           |
| <b>Income taxes per consolidated statements of income</b>  | <b>625</b>                    | <b>208</b>      | <b>833</b>   | <b>(4,189)</b> | <b>(1,093)</b>  | <b>(5,282)</b> | <b>(3,989)</b> | <b>284</b>      | <b>(3,705)</b> |

Vale and some subsidiaries in Brazil were granted tax incentives that provide for a partial reduction of the income tax due related to certain regional operations of iron ore, railroad, manganese, copper, bauxite, alumina, aluminum, kaolin and potash. The tax benefit is calculated based on taxable profit adjusted by the tax incentive (so-called "exploration profit") taking into consideration the operational profit of the projects that benefit from the tax incentive during a fixed period. Generally these tax incentives last for 10 years. The Company's tax incentives will expire in 2020. The tax savings must be recorded in a non distributable capital (profit) reserve in the Stockholders' equity.

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We can also reinvest part of the tax savings from the acquisition of new equipment to be used in the operations, once approved, and covered by the Brazilian regulatory agencies Superintendência de Desenvolvimento da Amazônia - SUDAM and Superintendência de Desenvolvimento do Nordeste - SUDENE. When the reinvestment is approved, the tax benefit must also be accounted for in a non distributable profit reserve.

We also have income tax incentives related to our Goro project under development in New Caledonia (the Goro Project). These incentives include an income tax holiday during the construction phase of the project and throughout a 15-year period commencing in the first year in which commercial production, as defined by the applicable legislation, is achieved followed by a five-year, 50 per cent income tax holiday. The Goro Project also qualifies for certain exemptions from indirect taxes such as import duties during the construction phase and throughout the commercial life of the project. Certain of these tax benefits, including the income tax holiday, are subject to an earlier phase out, should the project achieve a specified cumulative rate of return. We are subject to a branch profit tax commencing in the first year in which commercial production is achieved, as defined by the applicable legislation. To date, we have not recorded any taxable income for New Caledonian tax purposes. The benefits of this legislation are expected to apply with respect to taxes payable once the Goro Project is in operation. We obtained tax incentives for our projects in Mozambique, Oman and Malaysia, that will take effects when those projects start their commercial operation.

The Company's income taxes are subject to audit by the tax authorities for up to five years in Brazil, up to ten years in Indonesia and up to seven years in Canada.

Tax loss carry forwards in Brazil and in most of the jurisdictions where we have tax loss carry forwards have no expiration date, though in Brazil, offset is restricted to 30% of annual taxable income.

The Company's uncertain income tax positions were as follows: (Note 21(b)) tax related actions).

|   | Year ended as of December 31, |              |              |
|---|-------------------------------|--------------|--------------|
|   | 2012                          | 2011         | 2010         |
| <b>Beginning of the year</b>                    | <b>263</b>                    | <b>2,555</b> | <b>396</b>   |
| Increase resulting from tax positions taken     | 20                            | 1,076        | 2,130        |
| Decrease resulting from tax positions taken (a) | (26)                          | (3,409)      | (24)         |
| Cumulative translation adjustments              | 7                             | 41           | 53           |
| <b>End of the year</b>                          | <b>264</b>                    | <b>263</b>   | <b>2,555</b> |

(a) The decrease in the tax positions taken in 2011, was a consequence of the payment we made as a consequence of a Brazilian court decision in a case related to the exemption of the Social Contribution (Contribuição Social sobre o Lucro Líquido).

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For the year ended December 31, 2012 and December 31, 2011 there were US\$11 and US\$12, respectively, of unrecognized tax benefits that, if recognized, would affect the Company's annual effective tax rate.

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The Company recognizes interest accrued related to unrecognized tax benefits in financial expense and penalties in other operating expenses. The interest and penalties recognized in the statement of income for the year ended December 31, 2012 and December 31, 2011 there were US\$9 and US\$(17), respectively. The Company accrued US\$84 at December 31, 2012 and US\$73 at December 31, 2011 for the payment of interest and penalties.

|   | Year ended as of  |                   |
|---|-------------------|-------------------|
|   | December 31, 2012 | December 31, 2011 |
| <b>Current deferred tax assets</b>                            |                   |                   |
| Accrued expenses deductible only when disbursed               | 356               | 203               |
| <b>Assets</b>   |                   |                   |
| Employee postretirement benefits provision                    | 855               | 640               |
| Tax loss carryforwards  | 2,610             | 1,709             |
| Fair value of financial instruments                           | 796               | 610               |
| Impairment  | 1,269             |                   |
| Assets retirement obligation                                  | 450               | 389               |
| Other temporary differences (mainly contingencies provisions) | 686               | 794               |
|   | <b>6,666</b>      | <b>4,142</b>      |
| <b>Liabilities</b>  |                   |                   |
| Prepaid retirement benefit                                    | (226)             | (509)             |
| Fair value adjustments in business combinations               | (5,622)           | (7,311)           |
| Other temporary differences                                   | (326)             | (463)             |
|   | <b>(6,174)</b>    | <b>(8,283)</b>    |
| <b>Valuation allowance</b>                                    |                   |                   |
| Beginning balance   | (126)             | (110)             |
| Translation adjustments                                       | 10                |                   |
| Change in allowance   | (1,328)           | (809)             |
| <b>Ending balance</b>   | <b>(1,444)</b>    | <b>(919)</b>      |
| <b>Net non-current deferred tax liabilities</b>               | <b>(952)</b>      | <b>(5,060)</b>    |
| <b>Assets</b>   | <b>2,586</b>      | <b>594</b>        |
| <b>Liabilities</b>  | <b>(3,538)</b>    | <b>(5,654)</b>    |
| <b>Total</b>  | <b>(952)</b>      | <b>(5,060)</b>    |

## 7 Cash and cash equivalents

|                        | As of December 31, |              |
|------------------------|--------------------|--------------|
|                        | 2012               | 2011         |
| Cash                   | 1,194              | 945          |
| Short-term investments | 4,638              | 2,586        |
|                        | <b>5,832</b>       | <b>3,531</b> |

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All the above mentioned short-term investments are made through the use of low risk fixed income securities with highly-rated institutions. The investments denominated in Brazilian Reais are mostly investments indexed to the Brazilian Interbank Interest rate ( CDI ), and those denominated in US dollars are mainly time deposits, with the original maturities of less than three months.

The increase in cash equivalents during the 2012, is mainly related to the cash provided by operating activities and the notes issued during 2012 (Note 17).

### 8 Short-term investment

|               |      | As of December 31, |  |
|---------------|------|--------------------|--|
|               | 2012 | 2011               |  |
| Time Deposits | 246  | 246                |  |



Table of Contents**9 Account receivable**

Accounts receivable from customers in the steel industry represent 71.2% and 70.36% of receivables at December 31, 2012 and December 31, 2011.

No single customer accounted for more than 10% of total revenues.

Additional allowances for doubtful accounts charged to the statement of income as expenses in 2012, 2011 and 2010 totaled US\$34, US\$ 2 and US\$ 23, respectively. We wrote-off US\$16 in 2012, US\$ 1 in 2011 and US\$ 37 in 2010.

|  | As of December 31, |              |
|--|--------------------|--------------|
|  | 2012               | 2011         |
| <b>Customers</b>                                   |                    |              |
| Denominated in Brazilian Reais                     | 849                | 1,228        |
| Denominated in other currencies, mainly US dollars | 6,060              | 7,382        |
|  | <b>6,909</b>       | <b>8,610</b> |
| Allowance for doubtful accounts                    | (114)              | (105)        |
| <b>Total</b>                                       | <b>6,795</b>       | <b>8,505</b> |

**10 Inventories**

|                                      | As of December 31, |              |
|--------------------------------------|--------------------|--------------|
|                                      | 2012               | 2011         |
| <b>Products</b>                      |                    |              |
| Nickel (co-products and by-products) | 1,662              | 1,771        |
| Iron ore and pellets                 | 1,086              | 1,137        |
| Manganese and ferroalloys            | 90                 | 240          |
| Fertilizer                           | 373                | 387          |
| Copper concentrate                   | 64                 | 72           |
| Coal                                 | 311                | 277          |
| Others                               | 11                 | 91           |
| Spare parts and maintenance supplies | 1,455              | 1,276        |
|                                      | <b>5,052</b>       | <b>5,251</b> |

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On December 31, 2012 and 2011 inventory balances include a provision for adjustment to market value of nickel, in the amount of US\$ 0 and US\$ 14, respectively, manganese in the amount of US\$ 3 and US\$9, respectively and copper in the amount of US\$ 3 and US\$0, respectively.

**11 Recoverable Taxes**

|  | As of December 31, |              |
|--|--------------------|--------------|
|  | 2012               | 2011         |
| Income tax                             | 1,161              | 814          |
| Value-added tax                        | 1,023              | 997          |
| Others brazilian federal contributions | 734                | 1,006        |
| <b>Total</b>                           | <b>2,918</b>       | <b>2,817</b> |
| Current                                | 2,260              | 2,230        |
| Non-current                            | 658                | 587          |
|  | <b>2,918</b>       | <b>2,817</b> |

Table of Contents**12 Assets and liabilities held for sale**

In December 2012, we executed an agreement with Petróleo Brasileiro S.A. (Petrobras) to sell our operation for production of nitrogens, located in Araucária, in the Brazilian state of Paraná, for US\$234. The purchase price will be paid by Petrobras through installments accrued quarterly, adjusted by 100% of the CDI, in amounts equivalent to the royalties due by Vale related to the leasing of potash assets and mining of Taquari-Vassouras and of the Carnalita project.

The major classes of assets and liabilities reclassified as held for sale as at December 31, 2012 are as follows:

|  | <b>2012</b> |
|--|-------------|
| <b>Assets held for sale</b>                        |             |
| Accounts receivable                                | 14          |
| Recoverable taxes                                  | 28          |
| Inventories  | 20          |
| Property, plant and equipment                      | 404         |
| Other  | 13          |
| <b>Total</b>                                       | <b>479</b>  |
| <b>Liabilities related to assets held for sale</b> |             |
| Suppliers  | 12          |
| Deferred income tax                                | 109         |
| Others   | 60          |
| <b>Total</b>                                       | <b>181</b>  |

**13 Property, plant and equipment and intangible assets**

By type of assets:

|               | <b>December 31, 2012</b> |                                     |            | <b>December 31, 2011</b> |                                     |            |
|---------------|--------------------------|-------------------------------------|------------|--------------------------|-------------------------------------|------------|
|               | <b>Cost</b>              | <b>Accumulated<br/>Depreciation</b> | <b>Net</b> | <b>Cost</b>              | <b>Accumulated<br/>Depreciation</b> | <b>Net</b> |
| Land          | 676                      |                                     | 676        | 695                      |                                     | 695        |
| Buildings     | 8,075                    | (2,104)                             | 5,971      | 7,912                    | (1,890)                             | 6,022      |
| Installations | 15,748                   | (4,096)                             | 11,652     | 14,886                   | (3,708)                             | 11,178     |
| Equipment     | 11,640                   | (4,373)                             | 7,267      | 12,549                   | (4,243)                             | 8,306      |

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|                          |                |                 |               |                |                 |               |
|--------------------------|----------------|-----------------|---------------|----------------|-----------------|---------------|
| Railroads                | 6,504          | (2,047)         | 4,457         | 6,574          | (1,930)         | 4,644         |
| Mine development costs   | 27,778         | (6,102)         | 21,676        | 26,955         | (5,180)         | 21,775        |
| Others                   | 14,530         | (4,535)         | 9,995         | 14,556         | (4,126)         | 10,430        |
|                          | <b>84,951</b>  | <b>(23,257)</b> | <b>61,694</b> | <b>84,127</b>  | <b>(21,077)</b> | <b>63,050</b> |
| Intangible assets        | 1,126          | (104)           | 1,022         | 1,202          | (67)            | 1,135         |
| Construction in progress | 29,050         |                 | 29,050        | 25,845         |                 | 25,845        |
| <b>Total</b>             | <b>115,127</b> | <b>(23,361)</b> | <b>91,766</b> | <b>111,174</b> | <b>(21,144)</b> | <b>90,030</b> |

Losses on disposal of property, plant and equipment totaled US\$216, US\$223 and US\$623 in December 31, 2012, 2011 and 2010 respectively. This mainly related to write-offs of ships and trucks, locomotives and other equipment, which were replaced in the normal course of business.

Assets given in guarantee of judicial processes totaled US\$ 96 as at December 31, 2012 (US\$ 97 as at December 31, 2011).

### Hydroelectric assets

We participate in several jointly-owned hydroelectric plants, already in operation or under construction, in which we record our undivided interest in these assets as Property, plant and equipment.

At December 31, 2012 the cost of hydroelectric plants in service totals US\$ 2,165 (December 31, 2011 US\$2,261) and the related depreciation in the year was US\$ 480 (December 31, 2011 US\$ 428). The cost of hydroelectric plant under construction totaled at December 31, 2012 totals US\$ 10 (December 31, 2011 US\$ 59). Income and operating expenses for such plants are not material.

Table of Contents**Intangibles**

All of the intangible assets recognized in our financial statements were acquired from third parties, either directly or through a business combination and have definite useful lives from 6 to 30 years.

At December 31, 2012 the intangibles amount to US\$ 1,022 (December 31, 2011 - US\$ 1,135), and are comprised of rights granted by the government - Ferrovia Norte Sul of US\$ 788 and off take-agreements of US\$ 234.

**14 Impairment**

In 2012 we identified evidence of impairment in relation to certain investments in affiliates and joint ventures and property, plant and equipment of the nickel, aluminum, coal and other reporting units. The following impairment charges were recorded:

| Product  | Reporting unit           | December 31, 2012 |                    | Impairment charge |
|--|--------------------------|-------------------|--------------------|-------------------|
|  |                          | Carrying amount   | Recoverable amount |                   |
| <b>Investment in affiliates and joint ventures</b> |                          |                   |                    |                   |
| Aluminum   | Norsk Hydro ASA          | 3,212             | 2,237              | 975               |
| Steel  | Thyssenkrupp CSA         | 936               | 353                | 583               |
| Energy   | Vale Soluções de Energia | 100               | 17                 | 83                |
|  |                          | <b>4,248</b>      | <b>2,607</b>       | <b>1,641</b>      |
| <b>Property, plant and equipment</b>               |                          |                   |                    |                   |
| Nickel   | Onça Puma                | 3,779             | 930                | 2,849             |
| Coal   | Australia                | 1,619             | 590                | 1,029             |
| Other  |                          | 185               | 40                 | 145               |
|  |                          | <b>5,583</b>      | <b>1,560</b>       | <b>4,023</b>      |
|  |                          | <b>9,831</b>      | <b>4,167</b>       | <b>5,664</b>      |

**(a) Investment**

- **Investment in Norsk Hydro**

Volatility of aluminum prices and uncertainties regarding the prospects of the European economy contributed to a decrease in the traded market value of our 22% stake in Norsk Hydro, a Norwegian-listed aluminum producer, to a level below our carrying value of the equity accounted investment.

At December 31, 2012 Norsk Hydro's shares at the close of trading were quoted at US\$ 4.99 per share resulting in a market value of US\$ 2,237.

- **Investment in Thyssenkrupp CSA**

We recorded an impairment charge against the carrying value of our 26.87% interest in Thyssenkrupp CSA to reflect a reduction in the investment recoverable amount. The fair value based on future cash flow and does not take into account the inherent value of our rights as the exclusive suppliers of ore to the mill which comprise an integral component of our investment strategy.

- **Investment in Vale Soluções de Energia ( VSE )**

Changes in the Company's investment strategy have altered the expected cash flows from operations of our joint venture VSE.

The recoverable amount for VSE was ascertained from the new cash flow projections from financial budgets recently approved by management for the joint venture.

**(b) Property plant and equipment**

- **Onça Puma nickel assets**

The two Onça Puma iron-nickel project furnaces developed problems which led to their total stoppage from June 2012. Vale has decided to rebuild one of the furnaces and plans to resume operations in the fourth quarter of 2013. As a result of this incident and the current market environment for iron-nickel, we recorded an impairment charge to reduce the net carrying value of Onça Puma's assets.

The recoverable amount of Onça Puma's assets once we determined these would not be recovered though undiscounted cash flow was ascertained by determining their value from discounted cash flow projections based on financial budgets approved by management over the life of the mine. The projected cash flow was adjusted to reflect the effects of the quantities sold at the commodity futures prices and on the expected demand for the product.



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The key assumptions used by management to calculate the impairment are the sales values of the commodities and the discount rate, reflecting the volatile nature of the business.

The discount rates applied to the future cash flow forecasts represent an estimate of the rate the market would apply to comply with the risk of the assets under valuation. Vale's weighted average cost of capital is used as a starting point for determining the discount rates, adjusted for the risk profile of the countries in which the individual cash-generating units operate.

- **Coal assets in Australia**

Increasing costs, falling market prices, reduced production levels and financially unfavorable regulatory changes were identified in the coal sector, leading us to carry out impairment tests.

The recoverable amount for the Australian assets was ascertained by determining through the calculation of value from discounted cash flow projections based on financial budgets approved by management over the life of the mine. The discounted net cash flows to reflect quantities expected to be sold at future commodity prices based on projected demand for the product.

The key assumptions used by management to calculate the impairment of coal assets in Australia include estimates of commodity prices and the discount rate, reflecting the volatile nature of the business.

- **Others**

Changes in the Company's strategy have altered the expected cash flows from operations for certain other operations, including oil and gas and other projects.

The recoverable amount of these assets was ascertained from new cash flow projections based on financial budgets recently revised and approved by management.





Table of Contents**15 Investments in affiliated companies, joint ventures and others investments**

|   | December 31, 2012       |       |            | Net income (loss)<br>of the year | Investment in earnings (losses) of investee adjusted<br>Year ended as of December 31, ended as of December 31, ended as of December 31, |              |            |              | Dividends Received<br>Year ended as of December 31, ended as of December 31, ended as of December 31, |            |            |            |
|---|-------------------------|-------|------------|----------------------------------|---|--------------|------------|--------------|---|------------|------------|------------|
|   | Interest in capital (%) |       |            |                                  | 2012  | 2011         | 2012       | 2011         | 2010  | 2012       | 2011       | 2010       |
|   | Voting                  | Total | Net equity |                                  |   |              |            |              |   |            |            |            |
| <b>Bulk Material</b>                                      |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| <b>Iron ore and pellets</b>                               |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| Companhia   |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| Nipo-Brasileira de<br>Pelotização - NIBRASCO<br>(1)       | 51.11                   | 51.00 | 349        | 42                               | 178   | 173          | 22         | 45           | 48  | 26         | 22         | 3          |
| Companhia   |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| Hispano-Brasileira de<br>Pelotização -<br>HISPANOBRÁS (1) | 51.00                   | 50.89 | 205        | 74                               | 104   | 115          | 38         | 19           | 40  | 36         | 20         |            |
| Companhia   |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| Coreano-Brasileira de<br>Pelotização -<br>KOBRASCO (1)    | 50.00                   | 50.00 | 214        | 52                               | 107   | 78           | 26         | 32           | 43  | 20         | 32         | 11         |
| Companhia Ítalo-Brasileira<br>de Pelotização -            |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| ITABRASCO (1)   | 51.00                   | 50.90 | 125        | 17                               | 64  | 80           | 8          | 47           | 18  | 18         | 38         | 25         |
| Minas da Serra Geral SA -<br>MSG                          |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| SAMARCO Mineração SA<br>- SAMARCO (2)                     | 50.00                   | 50.00 | 1,380      | 1,280                            | 743   | 528          | 639        | 878          | 798   | 179        | 812        | 950        |
| Baovale Mineração SA -<br>BAOVALE                         |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| Zhuhai YPM Pellet e<br>Co.Ltd - ZHUHAI                    | 50.00                   | 50.00 | 55         | 12                               | 28  | 35           | 6          | 8            | 4   | 1          |            |            |
| Tecnored<br>Desenvolvimento<br>Tecnológico SA             |                         |       |            |                                  |   |              |            |              |   |            |            |            |
|   | 49.21                   | 49.21 | 74         | (43)                             | 38  | 48           | (20)       | (7)          | (10)  |            |            |            |
|   |                         |       |            |                                  | <b>1,311</b>  | <b>1,109</b> | <b>722</b> | <b>1,025</b> | <b>956</b>  | <b>280</b> | <b>924</b> | <b>989</b> |
| <b>Coal</b>   |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| Henan Longyu Resources<br>Co Ltd                          |                         |       |            |                                  |   |              |            |              |   |            |            |            |
|   | 25.00                   | 25.00 | 1,365      | 234                              | 341   | 282          | 59         | 85           | 76  | 60         |            | 83         |
| Shandong Yankuang<br>International Company Ltd            |                         |       |            |                                  |   |              |            |              |   |            |            |            |
|   | 25.00                   | 25.00 | (239)      | (62)                             | (60)  | (43)         | (16)       | (15)         | (19)  |            |            |            |
|   |                         |       |            |                                  | <b>281</b>  | <b>239</b>   | <b>43</b>  | <b>70</b>    | <b>57</b>   | <b>60</b>  |            | <b>83</b>  |
| <b>Base Metals</b>  |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| <b>Bauxite</b>  |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| Mineração Rio do Norte<br>SA - MRN                        |                         |       |            |                                  |   |              |            |              |   |            |            |            |
|   | 40.00                   | 40.00 | 332        | 53                               | 132   | 144          | 21         | 8            | (2)   | 7          |            | 10         |
|   |                         |       |            |                                  | <b>132</b>  | <b>144</b>   | <b>21</b>  | <b>8</b>     | <b>(2)</b>  | <b>7</b>   |            | <b>10</b>  |
| <b>Copper</b>   |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| Teal Minerals Incorporated                                |                         |       |            |                                  |   |              |            |              |   |            |            |            |
|   | 50.00                   | 50.00 | 505        | (9)                              | 252   | 234          | (5)        | (6)          | (10)  |            |            |            |
|   |                         |       |            |                                  | <b>252</b>  | <b>234</b>   | <b>(5)</b> | <b>(6)</b>   | <b>(10)</b>   |            |            |            |
| <b>Nickel</b>   |                         |       |            |                                  |   |              |            |              |   |            |            |            |
| Heron Resources Inc (3)                                   |                         |       |            |                                  |   |              |            |              |   |            |            |            |
|   |                         |       |            |                                  | 6   | 6            |            |              |   |            |            |            |

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|   |       |       |       |       |              |              |              |              |             |            |              |              |
|---|-------|-------|-------|-------|--------------|--------------|--------------|--------------|-------------|------------|--------------|--------------|
| Korea Nickel Corp                                   | 25.00 | 25.00 | 96    |       | 24           | 4            |              |              | 2           |            |              |              |
| Others (3)  |       |       |       |       | 1            | 1            |              |              |             |            |              |              |
|   |       |       |       |       | <b>31</b>    | <b>11</b>    |              |              | <b>2</b>    |            |              |              |
| <b>Aluminum</b>                                     |       |       |       |       |              |              |              |              |             |            |              |              |
| Norsk Hydro ASA (4)                                 |       |       |       |       | 2,237        | 3,227        | (35)         | 99           | 47          | 52         |              |              |
|   |       |       |       |       | <b>2,237</b> | <b>3,227</b> | <b>(35)</b>  | <b>99</b>    | <b>47</b>   | <b>52</b>  |              |              |
| <b>Logistic</b>                                     |       |       |       |       |              |              |              |              |             |            |              |              |
| LOG-IN Logística                                    |       |       |       |       |              |              |              |              |             |            |              |              |
| Intermodal SA                                       | 31.33 | 31.33 | 281   | (29)  | 94           | 114          | (10)         | (7)          | 4           |            |              |              |
| MRS Logística SA                                    | 46.75 | 47.59 | 1,231 | 259   | 586          | 551          | 122          | 132          | 90          | 57         | 55           | 72           |
|   |       |       |       |       | <b>680</b>   | <b>665</b>   | <b>112</b>   | <b>125</b>   | <b>94</b>   | <b>57</b>  | <b>55</b>    | <b>72</b>    |
| <b>Others</b>                                       |       |       |       |       |              |              |              |              |             |            |              |              |
| <b>Steel</b>  |       |       |       |       |              |              |              |              |             |            |              |              |
| California Steel Industries Inc - CSI               | 50.00 | 50.00 | 334   | 31    | 167          | 161          | 16           | 14           | 12          | 9          | 7            | 7            |
| Companhia Siderúrgica do PECEM - CSP                | 50.00 | 50.00 | 998   | (13)  | 499          | 267          | (7)          | (3)          |             |            |              |              |
| THYSSENKRUPP CSA Companhia Siderúrgica do Atlântico | 26.87 | 26.87 | 5,273 | (628) | 534          | 1,607        | (169)        | (177)        | (85)        |            |              |              |
|   |       |       |       |       | <b>1,200</b> | <b>2,035</b> | <b>(160)</b> | <b>(166)</b> | <b>(73)</b> | <b>9</b>   | <b>7</b>     | <b>7</b>     |
| <b>Other affiliates and joint ventures</b>          |       |       |       |       |              |              |              |              |             |            |              |              |
| Norte Energia S.A.                                  | 9.00  | 9.00  | 1,335 | (23)  | 120          | 75           | (2)          |              |             |            |              |              |
| Vale Soluções em Energia S.A.(1)                    | 53.13 | 53.13 | 134   | (266) | 71           | 145          | (58)         | (16)         | (33)        |            |              |              |
| Others  |       |       |       |       | 177          | 209          | 2            | (4)          | (4)         |            |              |              |
|   |       |       |       |       | <b>368</b>   | <b>429</b>   | <b>(58)</b>  | <b>(20)</b>  | <b>(37)</b> |            |              |              |
| <b>Total</b>  |       |       |       |       | <b>6,492</b> | <b>8,093</b> | <b>640</b>   | <b>1,135</b> | <b>987</b>  | <b>460</b> | <b>1,038</b> | <b>1,161</b> |

(1) Although Vale held a majority of the voting interest of investees accounted for under the equity method, existing veto rights held by noncontrolling shareholders.

(2) Investment includes goodwill of US\$ 53 in December 31, 2012 and US\$58 in December, 2011.

(3) Available for sale.

(4) Investment at market value as at December, accounted for under the equity method until September. We recognized an impairment charge on this investment as described on (Note 14).

Table of Contents**16 Short-term debt**

There were no short-term borrowings outstanding on December 31, 2012.

**17 Long-term debt**

|   | Current liabilities  |                      | Non-current liabilities |                      |
|---|----------------------|----------------------|-------------------------|----------------------|
|   | December 31,<br>2012 | December 31,<br>2011 | December 31,<br>2012    | December 31,<br>2011 |
| <b>Foreign debt</b>   |                      |                      |                         |                      |
| Loans and financing denominated in the following currencies:  |                      |                      |                         |                      |
| US dollars  | 601                  | 496                  | 3,380                   | 2,693                |
| Others  | 14                   | 9                    | 261                     | 52                   |
| Fixed Rate Notes  |                      |                      |                         |                      |
| US dollars  | 124                  | 410                  | 13,457                  | 10,073               |
| EUR   |                      |                      | 1,979                   | 970                  |
| Accrued charges   | 324                  | 221                  |                         |                      |
|   | <b>1,063</b>         | <b>1,136</b>         | <b>19,077</b>           | <b>13,788</b>        |
| <b>Brazilian debt</b>   |                      |                      |                         |                      |
| Brazilian Reais indexed to Brazilian Government long-term interest rate - TJLP/CDI and General Price Index-Market (IGP-M) |                      |                      |                         |                      |
|   | 175                  | 247                  | 6,066                   | 5,245                |
| Basket of currencies  | 2                    |                      | 10                      |                      |
| Non-convertible debentures  | 1,957                |                      | 379                     | 2,505                |
| US dollars denominated  | 170                  |                      | 1,267                   |                      |
| Accrued charges   | 101                  | 112                  |                         |                      |
|   | <b>2,405</b>         | <b>359</b>           | <b>7,722</b>            | <b>7,750</b>         |
| <b>Total</b>  | <b>3,468</b>         | <b>1,495</b>         | <b>26,799</b>           | <b>21,538</b>        |

The long-term portion at December 31, 2012 was as follows:

|                |               |
|----------------|---------------|
| 2014           | 1,371         |
| 2015           | 1,204         |
| 2016           | 1,884         |
| 2017 and after | 22,340        |
|                | <b>26,799</b> |

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At December 31, 2012 annual interest rates on long-term debt were as follows:

|                  |        |
|------------------|--------|
| Up to 3%         | 5,443  |
| 3.1% to 5% (*)   | 5,691  |
| 5.1% to 7% (**)  | 12,393 |
| 7.1% to 9% (**)  | 4,921  |
| 9.1% to 11% (**) | 1,338  |
| Over 11% (**)    | 481    |
|                  | 30,267 |

---

(\*) Includes Eurobonds. For this operation we have entered into derivative transactions at a cost of 4.51% per year in US dollars.

(\*\*) Includes non-convertible debentures and other Brazilian Real denominated debt that bear interest at the CDI and TJLP plus a spread. For these operations, we have entered into derivative transactions to mitigate our exposure to the floating rate debt denominated in Brazilian Real, totaling US\$ 8,227 of which US\$ 7,890 has an original interest rate above 5.1% per year. The average cost of debts not denominated in U.S. Dollars after derivatives contracting is 3.16% per year in US dollars.

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Vale has non-convertible debentures at Brazilian Real denominated as follows:

| Non Convertible Debentures | Quantity as of December 31, 2012 |             | Maturity          | Interest          | Balance           |                   |
|----------------------------|----------------------------------|-------------|-------------------|-------------------|-------------------|-------------------|
|                            | Issued                           | Outstanding |                   |                   | December 31, 2012 | December 31, 2011 |
| 2nd Series                 | 400,000                          | 400,000     | November 20, 2013 | 100% CDI + 0.25%  | 1,973             | 2,167             |
| Tranche B - Salobo         | 5                                | 5           | No date           | 6.5% p.a + IGP-DI | 379               | 364               |
|                            |                                  |             |                   |                   | <b>2,352</b>      | <b>2,531</b>      |
| Short-term portion         |                                  |             |                   |                   | 1,957             |                   |
| Long-term portion          |                                  |             |                   |                   | 379               | 2,505             |
| Accrued charges            |                                  |             |                   |                   | 16                | 26                |
|                            |                                  |             |                   |                   | <b>2,352</b>      | <b>2,531</b>      |

The indexation indices/ rates applied to our debt were as follows:

|  | Year ended as of |        |      |
|--|------------------|--------|------|
|  | 2012             | 2011   | 2010 |
| TJLP - Long-Term Interest Rate (effective rate)      | 5.7              | 6.0    | 6.0  |
| IGP-M - General Price Index - Market                 | 7.6              | 5.0    | 10.9 |
| Appreciation (devaluation) of Real against US dollar | (8.6)            | (10.8) | 4.5  |

In October 2012, Vale issued a R\$ 2.5 billion (US\$ 1.2 billion) export credit note to a Brazilian commercial bank that will mature in 2022. As of December 31, 2012, we had withdrawn the total amount of this facility.

In September 2012, Vale entered into a R\$3.9 billion financing agreement (US\$ 1.9 billion) with Banco Nacional de Desenvolvimento Econômico Social ( BNDES ) to finance the implementation of the CLN 150 Mtpy project, which will increase Vale's northern system railway estimated nominal capacity to approximately 150 million tons per year. As of December 31, 2012, we had drawn R\$ 2.1 billion (US\$ 1 billion) under this facility.

In September 2012, Vale issued US\$ 1.5 billion notes due 2042. The notes were sold at a price of 99.198% of the principal amount and will bear a coupon of 5.625% per year, payable semi-annually.

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In August 2012, Vale International entered into a bilateral Pre-export Financing Agreement with a commercial bank in an amount of US\$ 150 maturing in five years from its disbursement date. As of December 31, 2012, Vale International had drawn down the total amount of this facility.

On July 10, 2012 we issued 750 million, equivalent to US\$919, euro-denominated notes due 2023. These notes will bear a coupon of 3.75% per year, payable annually, at 99.608% of the principal amount.

In April 2012, through our wholly-owned subsidiary Vale Overseas Limited, we received the amount related to the issue of US\$ 1,250 notes due 2022 that were priced in March at 101.345% of the principal amount. The notes will bear a coupon of 4.375% per year, payable semi-annually and will be consolidated with, and form a single series with, Vale Overseas' s US\$ 1 billion 4.375% notes due 2022 issued on January 2012. Those notes issued in January, 2012 were issued at of 98.804% of the principal amount.

All the securities issued through our 100% finance subsidiary Vale Overseas Limited, are fully and unconditionally guaranteed by Vale.

Table of Contents**Credit Lines and Revolving Credit Lines**

| Financial Institution  | Contractual<br>Currency | Date of<br>agreement | Available<br>until | Credit line<br><br>Total<br>amount<br>available | Amounts drawn at December 31, |       |      |
|--|-------------------------|----------------------|--------------------|---|-------------------------------|-------|------|
|  |                         |                      |                    |   | 2012                          | 2011  | 2010 |
| <b>Revolving Credit Lines</b>  |                         |                      |                    |   |                               |       |      |
| Revolving Credit Facility - Vale/ Vale<br>International/ Vale Canada | US\$                    | April 2011           | 5 years            | 3,000   |                               |       |      |
| <b>Credit Lines</b>  |                         |                      |                    |   |                               |       |      |
| Nippon Export and investment Insurance<br>( Nexi )                   | US\$                    | May 2008 *(a)        | 5 years **         | 2,000   | 300                           | 300   | 150  |
| Japan Bank for International<br>Cooperation ( JBIC )                 | US\$                    | May 2008 *(b)        | 5 years **         | 3,000   |                               |       |      |
| Banco Nacional de Desenvolvimento<br>Econômico Social ( BNDES )      | R\$                     | April 2008 *(c)      | 5 years **         | 3,572   | 1,753                         | 1,368 | 941  |
| <b>Loans</b>   |                         |                      |                    |   |                               |       |      |
| Export-Import Bank of China e Bank of<br>China Limited               | US\$                    | September 2010(d)    | 13 years           | 1,229   | 837                           | 467   | 291  |
| Export Development Canada ( EDC )                                    | US\$                    | October 2010(e)      | 10 years           | 1,000   | 975                           | 500   | 250  |
| Korean Trade Insurance Corporation<br>( K-Sure )                     | US\$                    | August 2011(f)       | 12 years           | 528   | 409                           | 161   |      |
| Banco Nacional de Desenvolvimento<br>Econômico Social ( BNDES )      |                         |                      |                    |   |                               |       |      |
| Vale Fertilizantes   | R\$                     | November 2009(g)     | 9 years            | 20  | 20                            | 18    | 18   |
| PSI 4.50%  | R\$                     | June 2010(h)         | 10 years           | 379   | 343                           | 258   | 100  |
| Vale Fertilizantes   | R\$                     | October 2010(i)      | 8 years            | 121   | 110                           | 109   | 91   |
| PSI 5.50%  | R\$                     | March 2011(j)        | 10 years           | 50  | 43                            | 43    |      |
| CLN 150  | R\$                     | September 2012(k)    | 10 years           | 1,900   | 1,032                         |       |      |
| Vale Fertilizantes   | R\$                     | October 2012(l)      | 6 years            | 44  | 44                            |       |      |
| PSI 2.50%  | R\$                     | December 2012(m)     | 10 years           | 89  |                               |       |      |

\* Memorandum of Understanding ( MOU ) signature date

\*\* The availability for application of projects is 5 years.

(a) Mining projects, logistics and energy generation. Vale through its subsidiary PT Vale Indonesia Tbk (PTVI) applied in the amount of US\$ 300 million for the financing of the construction of the hydroelectric plant of Karebbe, Indonesia and withdrew totally.

(b) Mining projects, logistics and energy generation.

(c) Credit Lines to finance projects.



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- (d) Acquisition of twelve large ore carriers from Chinese shipyards.
- (e) Financing investments in Canada and Canadian exports.
- (f) Acquisition of five large ore carriers and two capesize bulkers from two Korean shipyards. The maturity period is counted from each vessel delivery.
- (g) Gypsum storage in Uberaba plant.
- (h) Acquisition of domestic equipments.
- (i) Expansion of production capacity of phosphoric and sulfuric acids at Uberaba plant (Phase III).
- (j) Acquisition of domestic equipments.
- (k) Capacitação Logística Norte 150 Project (CLN 150).
- (l) Supplemental resources to expand production capacity of phosphoric and sulfuric acids at Uberaba plant (Phase III).
- (m) Acquisition of wagons by VLI Multimodal.

### **Guarantee**

On December 31, 2012, US\$1,450 (US\$648 in 2011) of the total aggregate outstanding debt was secured by property, plant and equipment and receivables.

### **Covenants**

Our principal covenants require us to maintain certain ratios, such as debt to EBITDA and interest coverage. We have not identified any events of noncompliance as of December 31, 2012.

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**18                      Stockholders equity**

**Stockholders**

Each holder of common and preferred class A stock is entitled to one vote for each share on all matters brought before stockholders meetings, except for the election of the Board of Directors, which is restricted to the holders of common stock. The Brazilian Government holds 12 preferred special golden shares which confer permanent veto rights over certain matters.

Both common and preferred stockholders are entitled to receive a mandatory minimum dividend of 25% of annual adjusted net income under Brazilian GAAP, once declared at the annual stockholders meeting. In the case of preferred stockholders, this dividend cannot be less than 6% of the preferred capital as stated in the statutory accounting records or, if greater, 3% of the Brazilian GAAP equity value per share.

In October 2012 we paid gross dividends and interest on own capital ( JCP ), the total gross amount of R\$3,405 (US\$1,670) and R\$2,710 (US\$1,330), respectively, equivalent to US\$0.324136216 and US\$0.258006563 per common and preferred share outstanding.

In April 2012, we paid interest on capital in the total amount of US\$3 billion, corresponding to US\$0.588547644 per outstanding, common or preferred share.

In November 2011, as part of the share buy-back program approved in June 2011, we concluded the acquisition of 39,536,080 common shares, at an average price of US\$26.25 per share, and 81,451,900 preferred shares, at an average price of US\$24.09 per share (including shares of each class in the form of American Depositary Receipts), for a total aggregate purchase price of US\$3 billion.

**Mandatorily convertible**

In June 2012, the notes series VALE and VALE.P-2012 were converted into American Depositary Shares ( ADS ) and represent an aggregate of 15,839,592 common shares and 40,241,968 preferred class A shares respectively. The Conversion was made using 56,081,560 treasury stocks held by the Company. The difference between the conversion amount and the book value of the treasury stocks of US\$(251) was accounted for in additional paid-in capital in the stockholder s equity.

In May 2012, Vale paid additional remuneration to holders of those mandatorily convertible notes, in the amount of US\$1.463648 and US\$1.692869 per note, respectively.

Table of Contents**Earnings per share**

Earnings per share amounts have been calculated as follows:

|  | Year ended as of December 31, |                  |                  |
|--|-------------------------------|------------------|------------------|
|  | 2012                          | 2011             | 2010             |
| <b>Net income from continuing operations</b>   | <b>5,511</b>                  | <b>22,885</b>    | <b>17,407</b>    |
| Discontinued operations, net of tax  |                               |                  | (143)            |
| <b>Net income for the year</b>   | <b>5,511</b>                  | <b>22,885</b>    | <b>17,264</b>    |
| Remuneration attributed to preferred convertible notes   | (44)                          | (97)             | (72)             |
| Remuneration attributed to common convertible notes  | (19)                          | (70)             | (61)             |
| <b>Net income for the year adjusted</b>  | <b>5,448</b>                  | <b>22,718</b>    | <b>17,131</b>    |
| <b>Earnings per share</b>  |                               |                  |                  |
| Income available to preferred stockholders   | 2,063                         | 8,591            | 6,566            |
| Income available to common stockholders  | 3,385                         | 13,842           | 10,353           |
| Income available to convertible notes linked to preferred  |                               | 205              | 153              |
| Income available to convertible notes linked to common   |                               | 80               | 59               |
|  | <b>5,448</b>                  | <b>22,718</b>    | <b>17,131</b>    |
| Weighted average number of shares outstanding (thousands of shares)                                    |                               |                  |                  |
| - preferred shares   | 1,933,491                     | 1,984,030        | 2,035,783        |
| Weighted average number of shares outstanding (thousands of shares)                                    |                               |                  |                  |
| - common shares  | 3,172,179                     | 3,197,063        | 3,210,023        |
| <b>Total</b>   | <b>5,105,670</b>              | <b>5,181,093</b> | <b>5,245,806</b> |
| Weighted average number of convertibles outstanding (thousands of shares) - linked to preferred shares |                               | 47,285           | 47,285           |
| Weighted average number of convertibles outstanding (thousands of shares) - linked to common shares    |                               | 18,416           | 18,416           |
| <b>Total</b>   |                               | <b>65,701</b>    | <b>65,701</b>    |
| Earnings per preferred share   | 1.07                          | 4.33             | 3.23             |
| Earnings per common share  | 1.07                          | 4.33             | 3.23             |
| Earnings per convertible note linked to preferred  |                               | 6.39             | 4.76             |
| Earnings per convertible note linked to common share   |                               | 8.15             | 6.52             |

**19 Pension plans**

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In Brazil, the management of the pension plans of the Company is the responsibility of the Fundação Vale do Rio Doce de Seguridade Social ( Valia ) nonprofit private entity with administrative and financial autonomy.

Certain of the Company's employees, participant in variable contribution defined benefit plan ( *Plano de Benefício Vale Mais e Plano de Benefício VALIAPREV* or the New Plan ), specific coverage for death pension and disability retirement and other defined contributions for programmable benefits. The defined benefit plan is subject to actuarial evaluations. The defined contribution plan represents a fixed amount held on behalf of the participant.

The Company also maintains sponsorship of a pension plan with defined benefit characteristics, covering almost exclusively retirees and their beneficiaries, due to the migration of more than 98% of active employees for the Vale Mais Plan in May 2000. This plan was funded by monthly contributions made by the Company and participants, calculated based on periodic actuarial valuations.

Certain former employees are entitled to payments over and above the normal Valia benefits from a Complementation Bonus plus a post-retirement benefit that covers medical, dental and pharmaceutical assistance.

Vale Fertilizantes and its wholly owned subsidiaries pay eligible employees the FGTS penalty pursuant to an union agreement and provide certain health benefits for retired eligible employees.

The Company also has defined benefit plans and other post-employment benefits administered by other foundations and social security entities benefiting all employees.

Employers' disclosure about pensions and other post retirement benefits on the status of the defined benefit elements of all plans is provided.

We use a measurement date December 31 for our pension and post retirement benefit plans.

Table of Contentsa) **Change in benefit obligation**

|  |                             | As of December 31, 2012      |                               |
|--|-----------------------------|------------------------------|-------------------------------|
|  | Overfunded<br>pension plans | Underfunded<br>pension plans | Underfunded<br>other benefits |
| <b>Benefit obligation at beginning of year</b> | <b>4,611</b>                | <b>4,562</b>                 | <b>1,694</b>                  |
| Transfers                                      | (1,500)                     | 1,500                        |                               |
| Service cost                                   |                             | 115                          | 35                            |
| Interest cost                                  | 310                         | 408                          | 102                           |
| Plan amendment                                 |                             | 4                            |                               |
| Assumptions changes                            | 432                         | 375                          | 58                            |
| Effect of curtailment                          |                             |                              | (34)                          |
| Benefits paid/ Actual distribution             | (236)                       | (435)                        | (76)                          |
| Plan settlements                               |                             | (119)                        | (26)                          |
| Effect of exchange rate changes                | (272)                       | (83)                         | 3                             |
| Actuarial loss                                 | 222                         | 717                          | 266                           |
| <b>Benefit obligation at end of year</b>       | <b>3,567</b>                | <b>7,044</b>                 | <b>2,022</b>                  |

|  |                             | As of December 31, 2011      |                               |
|--|-----------------------------|------------------------------|-------------------------------|
|  | Overfunded<br>pension plans | Underfunded<br>pension plans | Underfunded<br>other benefits |
| <b>Benefit obligation at beginning of year</b> | <b>3,623</b>                | <b>5,667</b>                 | <b>1,601</b>                  |
| Transfers                                      | 1,132                       | (1,132)                      |                               |
| Service cost                                   | 18                          | 79                           | 32                            |
| Interest cost                                  | 517                         | 272                          | 102                           |
| Plan amendment                                 |                             | 2                            | (23)                          |
| Assumptions changes                            | 141                         | 39                           | 10                            |
| Benefits paid/ Actual distribution             | (345)                       | (363)                        | (82)                          |
| Plan settlements                               |                             | (26)                         | (8)                           |
| Effect of exchange rate changes                | (539)                       | (138)                        | (67)                          |
| Actuarial loss                                 | 64                          | 162                          | 129                           |
| <b>Benefit obligation at end of year</b>       | <b>4,611</b>                | <b>4,562</b>                 | <b>1,694</b>                  |

b) **Change in plan assets**

|   |                             | As of December 31, 2012      |                               |
|---|-----------------------------|------------------------------|-------------------------------|
|   | Overfunded<br>pension plans | Underfunded<br>pension plans | Underfunded<br>other benefits |
| <b>Fair value of plan assets at beginning of year</b> | <b>6,277</b>                | <b>3,662</b>                 | <b>1</b>                      |
| Transfers   | (1,612)                     | 1,612                        |                               |
| Actual return on plan assets                          | 372                         | 745                          |                               |
| Employer contributions                                |                             | 222                          | 76                            |

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|   |              |              |          |
|---|--------------|--------------|----------|
| Benefits paid/ Actual distribution              | (236)        | (435)        | (76)     |
| Plan settlements                                |              | (109)        |          |
| Effect of exchange rate changes                 | (390)        | (93)         |          |
| <b>Fair value of plan assets at end of year</b> | <b>4,411</b> | <b>5,604</b> | <b>1</b> |

|   | Overfunded<br>pension plans | As of December 31, 2011<br>Underfunded<br>pension plans | Underfunded<br>other benefits |
|---|-----------------------------|---|-------------------------------|
| <b>Fair value of plan assets at beginning of year</b> | <b>5,585</b>                | <b>4,645</b>  | <b>13</b>                     |
| Transfers   | 1,105                       | (1,105)   |                               |
| Actual return on plan assets                          | 573                         | 125   |                               |
| Employer contributions                                | 65                          | 512   | 82                            |
| Benefits paid/ Actual distribution                    | (345)                       | (363)   | (82)                          |
| Plan settlements                                      |                             | (26)  | (11)                          |
| Effect of exchange rate changes                       | (706)                       | (126)   | (1)                           |
| <b>Fair value of plan assets at end of year</b>       | <b>6,277</b>                | <b>3,662</b>  | <b>1</b>                      |

A special contribution was made to the Vale Canada Limited defined underfunded benefit plans of US\$342 during 2011 to secure adequate funding requirements for 2011-2013.

Plan assets managed by Valia on December 31, 2012 and December 31, 2011 include investments in portfolio of our own stock of US\$300 and US\$340, investments in debentures US\$57 and US\$63 and equity investments from related parties amounting to US\$2 and US\$84, respectively. They also include at December 31, 2012 and 31 December 2011, US\$3,882 and US\$3,552 of Brazilian

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Federal Government Securities. The Vale Canada Limited pension plan assets at December 31, 2012 and 2011 included Canadian Government securities amounted to US\$483 and US\$653, respectively. The Vale Fertilizantes and Ultrafertil at December 31, 2012 and December 31, 2011 include Brazilian Federal Government in securities of US\$191 and US\$149, respectively.

c) **Funded Status and Financial Position**

|                         | Overfunded<br>pension plans | As of December 31, 2012<br>Underfunded<br>pension plans | Underfunded<br>other benefits |
|-------------------------|-----------------------------|---|-------------------------------|
| Noncurrent assets       | 844                         |   |                               |
| Current liabilities     |                             | (116)   | (89)                          |
| Non-current liabilities |                             | (1,324)   | (1,932)                       |
| <b>Funded status</b>    | <b>844</b>                  | <b>(1,440)</b>  | <b>(2,021)</b>                |

|                         | Overfunded<br>pension plans | As of December 31, 2011<br>Underfunded<br>pension plans | Underfunded<br>other benefits |
|-------------------------|-----------------------------|---|-------------------------------|
| Noncurrent assets       | 1,666                       |   |                               |
| Current liabilities     |                             | (69)  | (78)                          |
| Non-current liabilities |                             | (831)   | (1,615)                       |
| <b>Funded status</b>    | <b>1,666</b>                | <b>(900)</b>  | <b>(1,693)</b>                |

d) **Assumptions used (nominal terms)**

All calculations involve future actuarial projections for some parameters, such as salaries, interest, inflation, the behavior of INSS benefits, mortality, disability, etc. No actuarial results can be analyzed without prior knowledge of the scenario of assumptions used in the assessment.

The economic actuarial assumptions adopted were formulated considering the long life of the plan and should therefore be examined in that light. So, in the short term, they may not necessarily be realized.

For the evaluations the following economic assumptions were adopted:



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|  | <b>Brazil</b>                       |                                      |                                       |
|--|-------------------------------------|--------------------------------------|---------------------------------------|
|  | <b>As of December 31, 2012</b>      |                                      |                                       |
|  | <b>Overfunded<br/>pension plans</b> | <b>Underfunded<br/>pension plans</b> | <b>Underfunded<br/>other benefits</b> |
| Discount rate to determine benefit obligation  | 8.90% p.a.                          | 9.04% p.a.                           | 9.05% p.a.                            |
| Discount rate to determine net cost            | 8.90% p.a.                          | 9.45% p.a.                           | 9.40% p.a.                            |
| Expected return on plan assets                 | 12.48% p.a.                         | 12.55% p.a.                          | N/A                                   |
| Rate of compensation increase - up to 47 years | 8.15% p.a.                          | 8.15% p.a.                           | N/A                                   |
| Rate of compensation increase - over 47 years  | 5.00% p.a.                          | 5.00% p.a.                           | N/A                                   |
| Inflation                                      | 5.00% p.a.                          | 5.00% p.a.                           | 5.00% p.a.                            |
| Health care cost trend rate                    | N/A                                 | N/A                                  | 8.15% p.a.                            |

|  | <b>Brazil</b>                       |                                      |                                       |
|--|-------------------------------------|--------------------------------------|---------------------------------------|
|  | <b>As of December 31, 2011</b>      |                                      |                                       |
|  | <b>Overfunded<br/>pension plans</b> | <b>Underfunded<br/>pension plans</b> | <b>Underfunded<br/>other benefits</b> |
| Discount rate to determine benefit obligation  | 10,78% p.a.                         | 11,30% p.a.                          | 11,30% p.a.                           |
| Discount rate to determine net cost            | 10,78% p.a.                         | 11,30% p.a.                          | 11,30% p.a.                           |
| Expected return on plan assets                 | 14,25% p.a.                         | 13,79% p.a.                          | N/A                                   |
| Rate of compensation increase - up to 47 years | 8,15% p.a.                          | 8,15% p.a.                           | N/A                                   |
| Rate of compensation increase - over 47 years  | 5,00% p.a.                          | 5,00% p.a.                           | N/A                                   |
| Inflation                                      | 5,00% p.a.                          | 5,00% p.a.                           | 5,00% p.a.                            |
| Health care cost trend rate                    | N/A                                 | N/A                                  | 8,15% p.a.                            |

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|  |                                     | <b>Foreign<br/>As of December 31, 2012</b> |                                       |
|--|-------------------------------------|--|---------------------------------------|
|  | <b>Overfunded<br/>pension plans</b> | <b>Underfunded<br/>pension plans</b>       | <b>Underfunded<br/>other benefits</b> |
| Discount rate to determine benefit obligation  | N/A                                 | 4.16% p.a.                                 | 4.20% p.a.                            |
| Discount rate to determine net cost            | N/A                                 | 5.08% p.a.                                 | 4.20% p.a.                            |
| Expected return on plan assets                 | N/A                                 | 6.21% p.a.                                 | 6.50% p.a.                            |
| Rate of compensation increase - up to 47 years | N/A                                 | 4.04% p.a.                                 | 3.00% p.a.                            |
| Rate of compensation increase - over 47 years  | N/A                                 | 4.04% p.a.                                 | 3.00% p.a.                            |
| Inflation                                      | N/A                                 | 2.00% p.a.                                 | 2.00% p.a.                            |
| Initial health care cost trend rate            | N/A                                 | N/A  | 7.01% p.a.                            |
| Ultimate health care cost trend rate           | N/A                                 | N/A  | 4.49% p.a.                            |

|  |                                     | <b>Foreign<br/>As of December 31, 2011</b> |                                       |
|--|-------------------------------------|--|---------------------------------------|
|  | <b>Overfunded<br/>pension plans</b> | <b>Underfunded<br/>pension plans</b>       | <b>Underfunded<br/>other benefits</b> |
| Discount rate to determine benefit obligation  | N/A                                 | 5.08% p.a.                                 | 5.10% p.a.                            |
| Discount rate to determine net cost            | N/A                                 | 5.43% p.a.                                 | 5.10% p.a.                            |
| Expected return on plan assets                 | N/A                                 | 6.51% p.a.                                 | 6.50% p.a.                            |
| Rate of compensation increase - up to 47 years | N/A                                 | 4.10% p.a.                                 | 3.00% p.a.                            |
| Rate of compensation increase - over 47 years  | N/A                                 | 4.10% p.a.                                 | 3.00% p.a.                            |
| Inflation                                      | N/A                                 | 2.00% p.a.                                 | 2.00% p.a.                            |
| Initial health care cost trend rate            | N/A                                 | N/A  | 7.22% p.a.                            |
| Ultimate Health care cost trend rate           | N/A                                 | N/A  | 4.49% p.a.                            |

e) **Pension costs**

|  | <b>Year ended in December 31, 2012</b> |                                      |                                       |
|--|--|--------------------------------------|---------------------------------------|
|  | <b>Overfunded<br/>pension plans</b>    | <b>Underfunded<br/>pension plans</b> | <b>Underfunded<br/>other benefits</b> |
| Service cost - benefits earned during the year | 26                                     | 87                                   | 36                                    |
| Interest cost on projected benefit obligation  | 424                                    | 296                                  | 102                                   |
| Expected return on assets                      | (766)                                  | (312)                                |                                       |
| Amortizations and (gain) / loss                |  | 47                                   | (17)                                  |
| Transfer                                       | 4                                      | (4)                                  |                                       |
| <b>Net pension cost (credit)</b>               | <b>(312)</b>                           | <b>114</b>                           | <b>121</b>                            |

|  | <b>Year ended in December 31, 2011</b> |                                      |                                       |
|--|--|--------------------------------------|---------------------------------------|
|  | <b>Overfunded<br/>pension plans</b>    | <b>Underfunded<br/>pension plans</b> | <b>Underfunded<br/>other benefits</b> |
| Service cost - benefits earned during the year | 18                                     | 79                                   | 32                                    |
| Interest cost on projected benefit obligation  | 517                                    | 272                                  | 102                                   |
| Expected return on assets                      | (785)                                  | (258)                                |                                       |

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|                                  |              |            |           |
|----------------------------------|--------------|------------|-----------|
| Amortizations and (gain) / loss  |              | 24         | (35)      |
| <b>Net pension cost (credit)</b> | <b>(250)</b> | <b>117</b> | <b>99</b> |

|  | Year ended in December 31, 2010 |                              |                               |
|--|---------------------------------|------------------------------|-------------------------------|
|  | Overfunded<br>pension plans     | Underfunded<br>pension plans | Underfunded<br>other benefits |
| Service cost - benefits earned during the year | 2                               | 59                           | 27                            |
| Interest cost on projected benefit obligation  | 329                             | 361                          | 97                            |
| Expected return on assets                      | (531)                           | (321)                        |                               |
| Amortizations and (gain) / loss                |                                 | 18                           | (14)                          |
| Net deferral                                   | (1)                             |                              |                               |
| <b>Net pension cost (credit)</b>               | <b>(201)</b>                    | <b>117</b>                   | <b>110</b>                    |

Table of Contentsf) **Accumulated benefit obligation**

|                                | Overfunded<br>pension plans | As of December 31, 2012<br>Underfunded<br>pension plans | Underfunded<br>other benefits |
|--------------------------------|-----------------------------|---|-------------------------------|
| Accumulated benefit obligation | 3,567                       | 6,935   | 2,022                         |
| Projected benefit obligation   | 3,567                       | 7,044   | 2,022                         |
| Fair value of plan assets      | (4,411)                     | (5,604)   | (1)                           |

|                                | Overfunded<br>pension plans | As of December 31, 2011<br>Underfunded<br>pension plans | Underfunded<br>other benefits |
|--------------------------------|-----------------------------|---|-------------------------------|
| Accumulated benefit obligation | 4,610                       | 4,404   | 1,694                         |
| Projected benefit obligation   | 4,611                       | 4,562   | 1,694                         |
| Fair value of plan assets      | (6,277)                     | (3,662)   | (1)                           |

g) **Impact of 1% variation in assumed health care cost trend rate**

|  | 2012 | 1% Increase | As of December 31,<br>2011 | 2012  | 1% Decrease | 2011  |
|--|------|-------------|----------------------------|-------|-------------|-------|
| Accumulated postretirement benefit obligation (APBO) | 360  |             | 258                        | (281) |             | (206) |
| Interest and service costs                           | 31   |             | 22                         | (19)  |             | (18)  |

h) **Other Cumulative Comprehensive Income (Deficit)**

|  | Overfunded<br>pension plans | As of December 31, 2012<br>Underfunded<br>pension plans | Underfunded<br>other benefits |
|--|-----------------------------|---|-------------------------------|
| Net prior service (cost) / credit  |                             | (9)   |                               |
| Net actuarial (loss) / gain  | (1,052)                     | (1,272)   | 193                           |
| Effect of exchange rate changes  | 13                          | (5)   |                               |
| Deferred income tax  | 353                         | 346   | (70)                          |
| <b>Amounts recognized in other cumulative comprehensive income (deficit)</b> | <b>(686)</b>                | <b>(940)</b>  | <b>123</b>                    |

As of December 31, 2011

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|  | Overfunded<br>pension plans | Underfunded<br>pension plans | Underfunded<br>other benefits |
|--|-----------------------------|------------------------------|-------------------------------|
| Net prior service (cost) / credit  |                             | (15)                         |                               |
| Net actuarial (loss) / gain  | (181)                       | (885)                        | 292                           |
| Effect of exchange rate changes  | (24)                        | 3                            |                               |
| Deferred income tax  | 70                          | 249                          | (76)                          |
| <b>Amounts recognized in other cumulative comprehensive income (deficit)</b> | <b>(135)</b>                | <b>(648)</b>                 | <b>216</b>                    |

Table of Contentsi) **Change in Other Cumulative Comprehensive Income (Deficit)**

|   | Overfunded<br>pension plans | As of December 31, 2012<br>Underfunded<br>pension plans | Underfunded<br>other benefits |
|---|-----------------------------|---|-------------------------------|
| Net prior service (cost) / credit not yet recognized in NPPC (a) at beginning of year |                             | (9)   |                               |
| Net actuarial (loss) / gain not yet recognized in NPPC (a) at beginning of year       | (205)                       | (888)   | 292                           |
| Deferred income tax at beginning of year  | 70                          | 249   | (76)                          |
| <b>Effect of initial recognition of cumulative comprehensive income (deficit)</b>     | <b>(135)</b>                | <b>(648)</b>  | <b>216</b>                    |
| Amortization of net prior service (cost) / credited                                   |                             | 4   |                               |
| Amortization of net actuarial (loss) / gain   |                             | 106   | 80                            |
| Total net actuarial (loss) / gain arising during year                                 | (874)                       | (468)   | (179)                         |
| Transfers   | 18                          | (18)  |                               |
| Effect of exchange rate changes   | 13                          | (4)   |                               |
| Deferred income tax   | 292                         | 88  | 6                             |
| <b>Total recognized in other cumulative comprehensive income (deficit)</b>            | <b>(686)</b>                | <b>(940)</b>  | <b>123</b>                    |

|   | Overfunded<br>pension plans | As of December 31, 2011<br>Underfunded<br>pension plans | Underfunded<br>other benefits |
|---|-----------------------------|---|-------------------------------|
| Net prior service (cost) / credit not yet recognized in NPPC (a) at beginning of year |                             | (14)  |                               |
| Net actuarial (loss) / gain not yet recognized in NPPC (a) at beginning of year       | 242                         | (629)   | 334                           |
| Deferred income tax at beginning of year  | (82)                        | 201   | (111)                         |
| <b>Effect of initial recognition of cumulative comprehensive income (deficit)</b>     | <b>160</b>                  | <b>(442)</b>  | <b>223</b>                    |
| Amortization of net transition (obligation) / asset                                   |                             | (5)   |                               |
| Amortization of net prior service (cost) / credited                                   |                             | 5   |                               |
| Amortization of net actuarial (loss) / gain   |                             | 19  | 2                             |
| Total net actuarial (loss) / gain arising during year                                 | (423)                       | (290)   | (48)                          |
| Effect of exchange rate changes   | (24)                        | 17  | 4                             |
| Deferred income tax   | 152                         | 48  | 35                            |
| <b>Total recognized in other cumulative comprehensive income (deficit)</b>            | <b>(135)</b>                | <b>(648)</b>  | <b>216</b>                    |

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(a) Net periodic pension cost.

j) **Plan assets****Brazilian Plans**

The Investment Policy Statements of pension plans sponsored for Brazilian employees are based on a long term macroeconomic scenario and expected returns. An Investment Policy Statement was established for each obligation by following results of a strategic asset allocation study.

Plan asset allocations comply with pension funds local regulation issued by CMN - Conselho Monetário Nacional (Resolução CMN 3792/09). We are allowed to invest in six different asset classes, defined as Segments by the law, as follows: Fixed Income, Equity, Structured Investments (Alternative Investments and Infra-Structure Projects), International Investments, Real Estate and Loans to Participants.

The Investment Policy Statements are approved by the Board, the Executive Directors and two Investments Committees. The internal and external portfolio managers are allowed to exercise investment discretion under the limitations imposed by the Board and the Investment Committees.

The pension fund has a risk management process with established policies that intend to identify measure and control all kind of risks faced by our plans, such as: market, liquidity, credit, operational, systemic and legal.

#### **Foreign plans**

The strategy for each of the pension plans sponsored by Vale Canada is based upon a combination of local practices and the specific characteristics of the pension plans in each country, including the structure of the liabilities, the risk versus reward trade-off between different asset classes and the liquidity required to meet benefit payments.

Table of Contents**Overfunded pension plans****Brazilian Plans**

The Defined Benefit Plan (the "Old Plan") has the most part of its assets allocated in fixed income, mainly in Brazilian government bonds (such as TIPS) and corporate long term inflation linked corporate bonds with the objective of reducing the asset-liability volatility. The target is 55% of the total assets. This LDI (Liability Driven Investments) strategy, when considered together with the Loans to Participants segment, aims to hedge the plan's liabilities against inflation risk and volatility. The target allocation for each investment segment or asset class in the following:

|                           | December 31, 2012 | December 31, 2011 |
|---------------------------|-------------------|-------------------|
| Fixed income              | 56%               | 57%               |
| Equity                    | 25%               | 24%               |
| Structured investments    | 6%                | 6%                |
| International investments | 1%                | 1%                |
| Real estate               | 8%                | 8%                |
| Loans to participants     | 4%                | 4%                |

The Investment Policy has the objective of achieving the adequate diversification, current income and long term capital growth through the combination of all asset classes described above to fulfill its obligations with the adequate level of risk. This plan has an average nominal return of 20 % p.y. in dollars terms in the last 12 years.

The Vale Mais Plan (the "New Plan") has obligations with both characteristics of defined benefit and variable contribution, as mentioned. The most part of its investments is in fixed income. It also implemented a LDI (Liability Driven Investments) strategy to reduce asset-liability volatility of the defined benefits plan's component by using inflation linked bonds (like TIPS). The target allocation for this strategy is 55% of total assets of this sub-plan. The target allocation for each investment segment or asset class in the following:

|                           | December 31, 2012 | December 31, 2011 |
|---------------------------|-------------------|-------------------|
| Fixed income              | 55%               | 56%               |
| Equity                    | 24%               | 24%               |
| Structured investments    | 4%                | 3.5%              |
| International investments | 1%                | 0.5%              |
| Real estate               | 7%                | 6%                |
| Loans to participants     | 10%               | 10%               |



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The Defined Contribution Vale Mais component offers four options of asset classes mix that can be chosen by participants. The options are: Fixed Income 100%; 80% Fixed Income and 20% Equities, 65% Fixed Income and 35% Equities and 60% Fixed Income and 40% Equities. Loan to participants is included in the fixed income options. Equities management is done through investment fund that targets Ibovespa index.

The Investment Policy has the objective of achieving the adequate diversification, current income and long term capital growth through the combination of all asset classes described above to fulfill its obligations with the adequate level of risk. This plan has an average nominal return of 16 % p.y. in dollars terms in the last 12 years.

Table of Contents**- Fair value measurements by category - Overfunded Plans**

| Asset by category                               | As of December 31, 2012 |            |            | Total        |
|---|-------------------------|------------|------------|--------------|
|   | Level 1                 | Level 2    | Level 3    |              |
| Accounts Receivable                             | 5                       |            |            | 5            |
| Equity securities - liquid                      | 1,128                   | 1          |            | 1,129        |
| Debt securities - Corporate bonds               |                         | 272        |            | 272          |
| Debt securities - Government bonds              | 1,976                   |            |            | 1,976        |
| Investment funds - Fixed Income                 | 1,678                   |            |            | 1,678        |
| Investment funds - Equity                       | 252                     |            |            | 252          |
| International investments                       | 14                      |            |            | 14           |
| Structured investments - Private Equity funds   |                         |            | 192        | 192          |
| Structured investments - Real estate funds      |                         |            | 8          | 8            |
| Real estate                                     |                         |            | 458        | 458          |
| Loans to Participants                           |                         |            | 195        | 195          |
| <b>Total</b>                                    | <b>5,053</b>            | <b>273</b> | <b>853</b> | <b>6,179</b> |
| Funds not related to risk plans                 |                         |            |            | (1,768)      |
| <b>Fair value of plan assets at end of year</b> |                         |            |            | <b>4,411</b> |

| Asset by category                               | As of December 31, 2011 |            |              | Total        |
|---|-------------------------|------------|--------------|--------------|
|   | Level 1                 | Level 2    | Level 3      |              |
| Cash and cash equivalents                       | 2                       |            |              | 2            |
| Accounts Receivable                             | 15                      |            |              | 15           |
| Equity securities - liquid                      | 1,425                   | 83         |              | 1,508        |
| Debt securities - Corporate bonds               |                         | 560        |              | 560          |
| Debt securities - Government bonds              | 2,134                   |            |              | 2,134        |
| Investment funds - Fixed Income                 | 2,292                   |            |              | 2,292        |
| Investment funds - Equity                       | 539                     |            |              | 539          |
| International investments                       | 13                      |            |              | 13           |
| Structured investments - Private Equity funds   |                         |            | 194          | 194          |
| Structured investments - Real estate funds      |                         |            | 21           | 21           |
| Real estate                                     |                         |            | 482          | 482          |
| Loans to Participants                           |                         |            | 345          | 345          |
| <b>Total</b>                                    | <b>6,420</b>            | <b>643</b> | <b>1,042</b> | <b>8,105</b> |
| Funds not related to risk plans                 |                         |            |              | (1,828)      |
| <b>Fair value of plan assets at end of year</b> |                         |            |              | <b>6,277</b> |

**- Fair value measurements using significant unobservable inputs Level 3 (Overfunded)**

As of December 31, 2012

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|   | Private Equity<br>Funds | Real State Funds | Real State | Loans to<br>Participants | Total        |
|---|-------------------------|------------------|------------|--------------------------|--------------|
| <b>Beginning of the year</b>            | <b>194</b>              | <b>21</b>        | <b>482</b> | <b>345</b>               | <b>1,042</b> |
| Actual return on plan assets            | 13                      | (8)              | 120        | 26                       | 151          |
| Assets sold during the year             | (19)                    |                  | (31)       | (84)                     | (134)        |
| Assets purchases, sales and settlements | 75                      |                  | 27         | 93                       | 195          |
| Cumulative translation adjustment       | (15)                    | (1)              | (38)       | (17)                     | (71)         |
| Transfers in and/or out of Level 3      | (56)                    | (4)              | (102)      | (168)                    | (330)        |
| <b>End of the year</b>                  | <b>192</b>              | <b>8</b>         | <b>458</b> | <b>195</b>               | <b>853</b>   |

As of December 31, 2011

|   | Private Equity<br>Funds | Real State Funds | Real State | Loans to<br>Participants | Total        |
|---|-------------------------|------------------|------------|--------------------------|--------------|
| <b>Beginning of the year</b>            | <b>128</b>              | <b>19</b>        | <b>288</b> | <b>182</b>               | <b>617</b>   |
| Actual return on plan assets            | (8)                     |                  | 79         | 49                       | 120          |
| Assets sold during the year             | (1)                     |                  | (22)       | (117)                    | (140)        |
| Assets purchases, sales and settlements | 37                      |                  | 135        | 116                      | 288          |
| Cumulative translation adjustment       | (16)                    | (2)              | (35)       | (36)                     | (89)         |
| Transfers in and/or out of Level 3      | 54                      | 4                | 37         | 151                      | 246          |
| <b>End of the year</b>                  | <b>194</b>              | <b>21</b>        | <b>482</b> | <b>345</b>               | <b>1,042</b> |

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The target return for private equity assets in 2013 is 11% p.a. for the Old Plan and 11% p.a. for the New Plan. The target allocation is 6% for the Old Plan and 3.5% for the New Plan, ranging between 2% and 10% for the Old Plan and ranging between 1% and 10% for the New Plan. These investments have a longer investment horizon and low liquidity that aim to profit from economic growth, especially in the infrastructure sector of the Brazilian economy. The fair value of usually non-liquid assets is closed to acquisition cost or book value. Some private equity funds, alternatively, apply the following methodologies: discounted cash flows analysis or analysis based on multiples.

The target return for loans to participants in 2013 is 12% p.a. The fair value pricing of these assets includes provisions for non-paid loans, according to the local pension fund regulation.

The target return for real estate assets in 2013 is 12% p.a. Fair value for these assets is closed to book value. The pension fund hires companies specialized in real estate valuation that do not act in the market as brokers. All valuation techniques follow the local regulation.

**Underfunded pension plans**

**Brazilian Obligation**

The obligation has an exclusive allocation in fixed income. A LDI (Liability Driven Investments) was also used strategy for this plan. Most of the resources were invested in long term Brazilian government bonds (similar to TIPS) and inflation linked corporate bonds with the objective of minimizing asset-liability volatility and reduce inflation risk.

The Investment Policy Statement has the objective of achieving the adequate diversification, current income and long term capital growth to fulfill its obligations with the adequate level of risk. This obligation had an average nominal return of 17% p.y. in local currency in the last 7 years.

**Foreign plans**

All pension plans except PT Vale Indonesia TBK, have resulted in a target asset allocation of 60% in equity investments and 40% in fixed income investments, with all securities being traded in the public markets. Fixed income investments are in domestic bonds for each plan's market and involve a mixture of government and corporate bonds. Equity investments are primarily global in nature and involve a mixture of large, mid and small capitalization companies with a modest explicit investment in domestic equities for each plan. The Canadian plans also use

a currency hedging strategy (each developed currency's exposure is 50% hedged) due to the large exposure to foreign securities. For PT Vale Indonesia TBK, the target allocation is 20% equity investment and the remainder in fixed income, with the vast majority of these investments being made within the domestic market.

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- Fair value measurements by category - Underfunded Pension Plans

| Asset by category                               | As of December 31, 2012 |              |            | Total        |
|---|-------------------------|--------------|------------|--------------|
|   | Level 1                 | Level 2      | Level 3    |              |
| Cash and cash equivalents                       | 55                      | 34           |            | 89           |
| Accounts Receivable                             | 4                       |              |            | 4            |
| Equity securities - liquid                      | 1,566                   | 19           |            | 1,585        |
| Debt securities - Corporate bonds               |                         | 511          |            | 511          |
| Debt securities - Government bonds              | 509                     | 484          |            | 993          |
| Investment funds - Fixed Income                 | 1,592                   | 426          |            | 2,018        |
| Investment funds - Equity                       | 510                     | 412          |            | 922          |
| International investments                       | 4                       |              |            | 4            |
| Structured investments - Private Equity funds   |                         |              | 43         | 43           |
| Real estate                                     |                         |              | 138        | 138          |
| Loans to Participants                           |                         |              | 207        | 207          |
| <b>Total</b>                                    | <b>4,240</b>            | <b>1,886</b> | <b>388</b> | <b>6,514</b> |
| Funds not related to risk plans                 |                         |              |            | (910)        |
| <b>Fair value of plan assets at end of year</b> |                         |              |            | <b>5,604</b> |

| Asset by category                               | As of December 31, 2011 |              |         | Total        |
|---|-------------------------|--------------|---------|--------------|
|   | Level 1                 | Level 2      | Level 3 |              |
| Cash and cash equivalents                       | 17                      | 24           |         | 41           |
| Accounts Receivable                             | 11                      |              |         | 11           |
| Equity securities - liquid                      | 1,231                   | 1            |         | 1,232        |
| Debt securities - Corporate bonds               |                         | 259          |         | 259          |
| Debt securities - Government bonds              | 33                      | 627          |         | 660          |
| Investment funds - Fixed Income                 | 439                     | 568          |         | 1,007        |
| Investment funds - Equity                       | 74                      | 376          |         | 450          |
| International investments                       |                         | 2            |         | 2            |
| <b>Total</b>                                    | <b>1,805</b>            | <b>1,857</b> |         | <b>3,662</b> |
| Funds not related to risk plans                 |                         |              |         |              |
| <b>Fair value of plan assets at end of year</b> |                         |              |         | <b>3,662</b> |

- Fair value measurements using significant unobservable inputs Level 3 (Underfunded)

| Beginning of the year        | As of December 31, 2012 |                  |            |                       | Total |
|------------------------------|-------------------------|------------------|------------|-----------------------|-------|
|                              | Private Equity Funds    | Real State Funds | Real State | Loans to Participants |       |
| Actual return on plan assets | 1                       |                  | 35         | 27                    | 63    |

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|   |           |     |            |            |            |
|---|-----------|-----|------------|------------|------------|
| Assets sold during the year             | (6)       | (1) | (3)        | (71)       | (81)       |
| Assets purchases, sales and settlements | 34        |     | 12         | 106        | 152        |
| Cumulative translation adjustment       | (3)       |     | 12         | (16)       | (7)        |
| Transfers in and/or out of Level 3      | 17        | 1   | 82         | 161        | 261        |
| <b>End of the year</b>                  | <b>43</b> |     | <b>138</b> | <b>207</b> | <b>388</b> |

|                                    | As of December 31, 2011 |                  |            |                          |            |
|------------------------------------|-------------------------|------------------|------------|--------------------------|------------|
|                                    | Private Equity<br>Funds | Real State Funds | Real State | Loans to<br>Participants | Total      |
| <b>Beginning of the year</b>       | <b>15</b>               | <b>1</b>         | <b>37</b>  | <b>151</b>               | <b>204</b> |
| Transfers in and/or out of Level 3 | (15)                    | (1)              | (37)       | (151)                    | (204)      |
| <b>End of the year</b>             |                         |                  |            |                          |            |

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**Underfunded other benefits**

**- Fair value measurements by category Other Benefits**

|   | As of December 31, 2012 |         |         | Total    |
|---|-------------------------|---------|---------|----------|
|   | Level 1                 | Level 2 | Level 3 |          |
| <b>Asset by category</b>                        |                         |         |         |          |
| Cash and cash equivalents                       | 1                       |         |         | 1        |
| <b>Total</b>                                    | <b>1</b>                |         |         | <b>1</b> |
| Funds not related to risk plans                 |                         |         |         |          |
| <b>Fair value of plan assets at end of year</b> |                         |         |         | <b>1</b> |

|   | As of December 31, 2011 |         |         | Total    |
|---|-------------------------|---------|---------|----------|
|   | Level 1                 | Level 2 | Level 3 |          |
| <b>Asset by category</b>                        |                         |         |         |          |
| Cash and cash equivalents                       | 1                       |         |         | 1        |
| <b>Total</b>                                    | <b>1</b>                |         |         | <b>1</b> |
| Funds not related to risk plans                 |                         |         |         |          |
| <b>Fair value of plan assets at end of year</b> |                         |         |         | <b>1</b> |

**k) Cash flows contributions**

Employer contributions expected for 2013 are US\$407.

**l) Estimated future benefit payments**

The benefit payments, which reflect future service, are expected to be disbursed as follows:

| 2013 | As of December 31, 2012  |                           |                            |
|------|--------------------------|---------------------------|----------------------------|
|      | Overfunded pension plans | Underfunded pension plans | Underfunded other benefits |
|      | 226                      | 565                       | 95                         |



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|                     |     |       |     |
|---------------------|-----|-------|-----|
| 2014                | 223 | 457   | 96  |
| 2015                | 219 | 464   | 99  |
| 2016                | 215 | 472   | 100 |
| 2017                | 211 | 479   | 101 |
| 2018 and thereafter | 981 | 2,398 | 490 |

m) Summary of participant data

|                                       |                             | As of December 31, 2012      |                               |
|---------------------------------------|-----------------------------|------------------------------|-------------------------------|
|                                       | Overfunded<br>pension plans | Underfunded<br>pension plans | Underfunded<br>other benefits |
| <b>Active participants</b>            |                             |                              |                               |
| Number                                | 14                          | 76,511                       | 11,727                        |
| Average age - years                   | 52                          | 36                           | 40                            |
| Average service - years               | 28                          | 7                            | 7                             |
| <b>Terminated vested participants</b> |                             |                              |                               |
| Number                                |                             | 6,519                        |                               |
| Average age - years                   |                             | 47                           |                               |
| <b>Retirees and beneficiaries</b>     |                             |                              |                               |
| Number                                | 16,740                      | 19,245                       | 31,737                        |
| Average age - years                   | 67                          | 70                           | 68                            |

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|                                       |                             | As of December 31, 2011      |                               |
|---------------------------------------|-----------------------------|------------------------------|-------------------------------|
|                                       | Overfunded<br>pension plans | Underfunded<br>pension plans | Underfunded<br>other benefits |
| <b>Active participants</b>            |                             |                              |                               |
| Number                                | 202                         | 67,951                       | 74,729                        |
| Average age - years                   | 50                          | 36                           | 36                            |
| Average service - years               | 27                          | 7                            | 8                             |
| <b>Terminated vested participants</b> |                             |                              |                               |
| Number                                |                             | 5,815                        |                               |
| Average age - years                   |                             | 39                           |                               |
| <b>Retirees and beneficiaries</b>     |                             |                              |                               |
| Number                                | 18,380                      | 18,189                       | 32,663                        |
| Average age - years                   | 66                          | 71                           | 64                            |

**20 Long-term incentive compensation plan**

Under the terms of the long-term incentive compensation plan, the participants, restricted to certain executives, may elect to allocate part of their annual bonus to the plan. The allocation is applied to purchase preferred shares of Vale, through a predefined financial institution, at market conditions and with no benefit provided by Vale.

The shares purchased by each executive are unrestricted and may, at the participant's discretion, be sold at any time. However if, the shares are held for a three-year period and the executive is continually employed by Vale during that period, the participant then becomes entitled to receive from Vale a cash payment equivalent to the total amount of shares held, based on the market rates. The total shares linked to the plan at December 31, 2012 and December 31, 2011, are 4,426,046 and 3,012,538, respectively.

Additionally, as a long-term incentive certain eligible executives have the opportunity to receive at the end of the triennial cycle, a certain number of shares at market rates, based on an evaluation of their career and performance factors measured as an indicator of total return to stockholders.

We account for the compensation cost provided to our executives under this long-term incentive compensation plan, following the requirements for Accounting for Stock-Based Compensation. Liabilities are measured at each reporting date at fair value, based on market rates. Compensation costs incurred are recognized, over the defined three-year vesting period. At December 31, 2012, December 31, 2011 and December 31, 2010 we recognized a liability of US\$87, US\$109 and US\$120, respectively.

**21 Commitments and Litigation provisions**

**a) Nickel project New Caledonia**

In regards to the construction and installation of our nickel plant in New Caledonia, we have provided guarantees in respect of our financing arrangements which are outlined below.

In connection with the Girardin Act tax - advantaged lease financing arrangement sponsored by the French government, we provided guarantees to BNP Paribas for the benefit of the tax investors regarding certain payments due from Vale Nouvelle-Calédonie SAS ( VNC ), associated with the Girardin Act lease financing. Consistent with our commitments, the assets are substantially complete as of December 31, 2012. We also committed that assets associated with the Girardin Act lease financing would operate for a five year period from then on and meet specified production criteria which remain consistent with our current plans, accordingly. We believe the likelihood of the guarantee being called upon is remote.

In October 2012, we entered into an agreement with Nickel Netherland B.V. ( Sumic ), a stockholder in VNC, whereby Sumic agreed to a dilution in their interest in VNC from 21% to 14.5%. Sumic originally had a put option to sell to us the shares they own of VNC if the defined cost of the initial nickel project, as measured by funding provided to VNC, in natural currencies and converted to U.S. dollars at specified rates of exchange, exceeded US\$4.6 billion and an agreement could not be reached on how to proceed with the project. On May 27, 2010 the threshold was reached and the put option discussion and decision period was extended to July 31, 2012. As a result of the October 2012 agreement, the trigger on the put option has been changed from a cost threshold to a production threshold. The possibility to exercise the put option has been deferred to the first quarter of 2015.

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In addition, in the course of our operations we have provided letters of credit and guarantees in the amount of US\$820 million that are associated with items such as environment reclamation, asset retirement obligation commitments, insurance, electricity commitments, post-retirement benefits, community service commitments and import and export duties.

In the course of our operations, we are subject to routine claims and litigation incidental to our business and various environmental proceedings. With respect to the environmental proceedings currently pending or threatened against us, they include (i) claims for personal injuries, (ii) enforcement actions and (iii) alleged violations of, including exceeding regulatory limits relating to discharges under, certain environmental or similar laws and regulations applicable to our operations. We believe that the ultimate resolution of such proceedings, claims, and litigation will not significantly impair our operations or have material adverse effect on our financial position or results of operations.

**b) Provision for litigation**

We and our subsidiaries are defendants in numerous legal actions in the normal course of business. Based on the advice of our legal counsel, management believes that the amounts recognized are sufficient to cover probable losses in connection with such actions.

The provision for litigation and the related judicial deposits is as follows:

|                                  | December 31, 2012        |                   | December 31, 2011        |                   |
|----------------------------------|--------------------------|-------------------|--------------------------|-------------------|
|                                  | Provision for litigation | Judicial deposits | Provision for litigation | Judicial deposits |
| Labor and social security claims | 748                      | 903               | 751                      | 895               |
| Civil claims                     | 287                      | 172               | 248                      | 151               |
| Tax - related actions            | 996                      | 435               | 654                      | 413               |
| Others                           | 34                       | 5                 | 33                       | 5                 |
|                                  | <b>2,065</b>             | <b>1,515</b>      | <b>1,686</b>             | <b>1,464</b>      |

Labor and social security related actions principally comprise claims by Brazilian current and former employees for (i) payment of time spent travelling from their residences to the work-place, (ii) additional health and safety related payments and (iii) various other matters, often in connection with disputes about the amount of indemnities paid upon dismissal and the one-third extra holiday pay.

Civil actions principally relate to claims made against us by contractors in Brazil in connection with losses alleged to have been incurred by them as a result of various past Government economic plans, during which full inflation indexation of contracts was not permitted, as well as for accidents and land appropriation disputes.

Tax related actions principally comprise challenges initiated by us, on certain taxes on revenues and uncertain tax positions. We continue to vigorously pursue our interests in all these actions but recognize that we probably will incur some losses in the final instance, for which we have made provisions.

On September 2012, we has considered as probable the loss related to the deductibility of transportation expenditures in the amount upon which the Compensação Financeira pela Exploração - CFEM is calculated, increasing the provision of US\$542 (R\$ 1.1 billion). During the fourth quarter we paid US\$147. At December 31, 2012 the total liability in relation to CFEM was US\$519.

Judicial deposits are made by us following court requirements in order to be entitled to either initiate or continue a legal action. These amounts are released to us upon receipt of a final favorable outcome from the legal action, and in the case of an unfavorable outcome, the deposits are transferred to the prevailing part.

Contingencies settled during the year ended December 31, 2012 and December 31, 2011 totaled US\$182 and US\$331, respectively. Provisions net recognized in the year ended December 31, 2012 and December 31, 2011 totaled US\$694 and US\$284, respectively, classified as other operating expenses.

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In addition to the contingencies for which we have made provisions, we are defendants in claims where in our opinion, and based on the advice of our legal counsel, the likelihood of loss is reasonably possible but not probable, in the total amount of US\$21,016 at December 31, 2012, and for which no provision has been made (December 31, 2011 US\$22,449). The main categories of claims are as follows:

|                                  | December 31,<br>2012 | December 31,<br>2011 |
|----------------------------------|----------------------|----------------------|
| Labor and social security claims | 1,728                | 1,922                |
| Civil claims                     | 1,124                | 1,484                |
| Tax - related actions            | 16,492               | 17,967               |
| Others                           | 1,672                | 1,076                |
|                                  | <b>21,016</b>        | <b>22,449</b>        |

The largest individual claim classified as reasonably possible tax contingencies refers to tax assessments against us regarding the payment of Income Tax and Social Contribution calculated based on the equity method in foreign subsidiaries.

The Brazilian federal tax authority (Receita Federal do Brasil) contends that we should pay those taxes and contributions on the net income of our non-Brazilian subsidiaries and affiliates. The position of the tax authority is based on Article 74 of Brazilian Provisional Measure 2,158-35/2001, a tax regulation issued in 2001 by Brazil's President, and on implementing regulations adopted by the tax authority under Article 74. The tax authority has issued five tax assessments (*autos de infração*) against us for payment of US\$5,933 at December 31, 2012 (US\$ 6,644 at December 31 2011) in taxes in accordance with Article 74 for the tax years 1996 through 2008, plus interest and penalties of US\$9,277 at December 31, 2012 (US\$ 9,781 at December 31, 2011) through December 31, 2012, amounting to a total of US\$ 15,210 (US\$ 16,425 at December 31, 2011). The decline in the value from December 31, 2011, was caused by the cancelation by the tax authority of the claim related to the exchange variation over the foreign subsidiaries, in amount of US\$ 815.

### c) Participative Stockholders Debentures

At the time of our privatization in 1997, the Company issued debentures to its then-existing stockholders, including the Brazilian Government. The terms of these debentures were set to ensure that the pre-privatization stockholders, including the Brazilian Government, would participate in possible future financial benefits that could be obtained from exploiting certain mineral resources.

A total of 388,559,056 Debentures were issued at a par value of R\$ 0.01 (one cent), whose value will be restated in accordance with the variation in the General Market Price Index ( IGP-M ), as set forth in the Issue Deed. As at December 31, 2012 the total amount of these debentures was US\$1,653 (US\$ 1,336 in December 31, 2011).

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The debenture holders have the right to receive premiums, paid semiannually, equivalent to a percentage of net revenues from specific mine resources as set forth in the indenture.

In October 2012 we paid second semester remuneration in the amount of US\$4. In April 2012 we paid first semester remuneration on these debentures in the amount of US\$6.

### **d) Description of Leasing Arrangements**

Vale has operating lease agreements with its joint ventures Nibrasco, Itabasco, and Kobrasco, in which Vale leases its pelletizing plants. These operating lease agreements have duration between 3 and 10 years, renewable.

In July 2012 the Company entered into an operating lease agreement with its joint venture Hispanobrás. The contract has duration of 3 years, renewable.

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The following table presents of the annual future minimum lease payments required under the four pellet plants (Hispanobrás, Nibrasco, and Itabasco Kobrasco), that have initial or remaining non-cancelable lease terms in excess of one year as of December 31, 2012:

|                                 |     |
|---------------------------------|-----|
| 2013                            | 74  |
| 2014                            | 78  |
| 2015                            | 76  |
| 2016                            | 74  |
| 2017 thereafter                 | 51  |
| Total minimum payments required | 353 |

The total expenses of these operating leases for the year ended December, 31 2012, 2011 and 2010 were US\$205, US\$349 and US\$365, respectively.

Part of our railroad operation includes leased facilities. The 30-year lease is renewable for a further 30 years and expires in August 2026, and is classified as an operating lease. At the end of the lease term, we are required to return the concession and the leased assets. In most cases, management expects that in the normal course of business, leases will be renewed.

The following table presents of the annual future minimum rental payments required under the railroad operating leases that have initial or remaining non-cancelable lease terms in excess of one year as December 31, 2012.

|                                 |       |
|---------------------------------|-------|
| 2013                            | 85    |
| 2014                            | 85    |
| 2015                            | 85    |
| 2016                            | 85    |
| 2017 thereafter                 | 845   |
| Total minimum payments required | 1,185 |

The total expenses of these operating leases for the year ended December, 31 2012, 2011 and 2010 were US\$89, US\$87 and US\$ 90, respectively.

**e) Guarantee issued to affiliates**



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The Associate Norte Energia acquired in 2012 a credit line from BNDES, Caixa Economica Federal and Banco BTG Pactual in order to finance his investments in energy in the totaling up to R\$22.5 billion (US\$11.01 billion). About this facility, Vale, like other stockholders, is committed to providing a corporate guarantee on the amount withdrawn, limited to his participation of 9% in the entity. In addition to this guarantee, the Company also offered all shares in Norte Energia in pledge to financial institutions, limited to R\$4.1 billion (US\$2.0 billion).

At December 31, 2012 Vale guaranteed on the value drawn the amount of R\$282 (US\$126).

On January 2, 2013 (Subsequent Events) Norte Energia withdrawn of another installment of your loan, increasing the amount guaranteed by Vale for R\$188 (US\$92) to R\$470 (US\$218).

Table of Contents**f) Asset retirement obligations**

We use various judgments and assumptions when measuring our asset retirement obligations.

Changes in circumstances, law or technology may affect our cash flow estimates and we periodically review the amounts accrued and adjust them as necessary. Our accruals do not reflect unasserted claims because we are currently not aware of any such issues. Also the amounts provided are not reduced by any potential recoveries under cost sharing, insurance or indemnification arrangements because such recoveries are considered uncertain.

The changes in the provisions for asset retirement obligations are as follows:

|   | Year ended as of December 31, |              |              |
|---|-------------------------------|--------------|--------------|
|   | 2012                          | 2011         | 2010         |
| <b>Beginning of year</b>                | <b>1,770</b>                  | <b>1,368</b> | <b>1,116</b> |
| Accretion expense                       | 167                           | 125          | 113          |
| Liabilities settled in the current year | (25)                          | (57)         | (45)         |
| Revisions in estimated cash flows       | 560                           | 420          | 125          |
| Cumulative translation adjustment       | (69)                          | (86)         | 59           |
| <b>End of year</b>                      | <b>2,403</b>                  | <b>1,770</b> | <b>1,368</b> |
| Current liabilities                     | 70                            | 73           | 75           |
| Non-current liabilities                 | 2,333                         | 1,697        | 1,293        |
| <b>Total</b>                            | <b>2,403</b>                  | <b>1,770</b> | <b>1,368</b> |

**22 Other expenses**

|                                      | Year ended as of December 31, |              |              |
|--------------------------------------|-------------------------------|--------------|--------------|
|                                      | 2012                          | 2011         | 2010         |
| Litigation (*)                       | 694                           | 284          | 141          |
| Provision for loss assets            | 366                           | 278          | 108          |
| Fundação Vale do Rio Doce - FVRD     | 37                            | 123          | 55           |
| Damage cost                          | 65                            | 98           |              |
| Pre operating, stoppage and start up | 1,592                         | 1,293        | 1,117        |
| Others                               | 894                           | 734          | 784          |
|                                      | <b>3,648</b>                  | <b>2,810</b> | <b>2,205</b> |

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(\*) See note 21 (b)

## 23 Fair value disclosure of financial assets and liabilities

The Financial Accounting Standards Board, through Accounting Standards Codification and Accounting Standards Updates, defines fair value and sets out a framework for measuring fair value, including valuation concepts and practices and requires certain disclosures about fair value measurements.

### a) Measurements

The standards define fair value as the price that would be received for an asset, or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability, in an orderly transaction between market participants on the measurement date. In determining fair value, the Company uses various methods including market, income and cost approaches. Based on these approaches, the Company often utilizes certain assumptions that market participants would use in pricing the asset or liability, including assumptions about risk and or the inherent risks in the inputs to the valuation technique.

These inputs can be readily observable, market corroborated, or generally unobservable inputs. The Company utilizes techniques that maximize the use of observable inputs and minimize the use of unobservable inputs. Under this standard, those inputs used to measure the fair value are required to be classified on three levels. Based on the characteristics of the inputs used in valuation techniques the Company is required to provide the following information according to the fair value hierarchy. The fair value hierarchy ranks the quality and reliability of the information used to determine fair values. Financial assets and liabilities carried at fair value are classified and disclosed as follows:

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**Level 1** Unadjusted quoted prices on an active, liquid and visible market for identical assets or liabilities that are accessible at the measurement date;

**Level 2** Quoted prices for identical or similar assets or liabilities on active markets, inputs other than quoted prices that are observable, either directly or indirectly, for the term of the asset or liability;

**Level 3** Assets and liabilities, for which quoted prices do not exist, or those prices or valuation techniques are supported by little or no market activity, unobservable or illiquid. At this point, fair market valuation becomes highly subjective.

**b) Measurements on a recurring basis**

The description of the Company's valuation methodologies used for assets and liabilities measured at fair value are summarized below:

- **Available-for-sale securities**

They are securities that are not classified either as held-for-trading or as held-to-maturity for strategic reasons and have readily available market prices. We evaluate the carrying value of some of our investments in relation to publicly quoted market prices when available. When there is no market value, we use inputs other than quoted prices.

- **Derivatives**

The market approach is used to estimate the fair value of the swaps discounting their cash flows using the interest rate of the currency they are denominated in. It is also used for the commodities contracts, since the fair value is computed by using forward curves for each commodity.

- **Stockholders debentures**

The fair value is measured by the market approach method, and the reference price is available on the secondary market.

The tables below presents the balances of assets and liabilities measured at fair value on a recurring basis as follows:

|                                  | December 31, 2012  |            |         |         |
|----------------------------------|--------------------|------------|---------|---------|
|                                  | Carrying<br>amount | Fair value | Level 1 | Level 2 |
| Available-for-sale securities    | 7                  | 7          | 7       |         |
| Unrealized losses on derivatives | (804)              | (804)      |         | (804)   |
| Stockholders debentures          | (1,653)            | (1,653)    |         | (1,653) |

|                                  | December 31, 2011  |            |         |         |
|----------------------------------|--------------------|------------|---------|---------|
|                                  | Carrying<br>amount | Fair value | Level 1 | Level 2 |
| Available-for-sale securities    | 7                  | 7          | 7       |         |
| Unrealized losses on derivatives | (81)               | (81)       |         | (81)    |
| Stockholders debentures          | (1,336)            | (1,336)    |         | (1,336) |

#### c) Measurements on a non-recurring basis

The Company also has assets under certain conditions that are subject to measurement at fair value on a non-recurring basis. These assets include goodwill and assets acquired and liabilities assumed in business combinations. During the year ended at December 31, 2012, we have not recognized any impairment for those items. However, we did recognized impairment of our investee Norsk Hydro based on fair value. (Note14)

#### d) Financial Instruments

##### Long-term debt

The valuation method used to estimate the fair value of our debt is the market approach for the contracts that are quoted on the secondary market, such as bonds and debentures. The fair value of both fixed and floating rate debt is determined by discounting future cash flows of Libor and Vale's bonds curves (income approach).

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**Time deposits**

The method used is the income approach, through the prices available on the active market. The fair value is close to the carrying amount due to the short-term maturities of the instruments.

Our long-term debt is reported at amortized cost, and the income of time deposits is accrued monthly according to the contract rate. The estimated fair value measurement is disclosed as follows:

|                                     | <b>December 31, 2012</b> |                   |                |                |
|-------------------------------------|--------------------------|-------------------|----------------|----------------|
|                                     | <b>Carrying amount</b>   | <b>Fair value</b> | <b>Level 1</b> | <b>Level 2</b> |
| Long-term debt (less interests) (a) | (29,842)                 | (32,724)          | (25,817)       | (6,907)        |
| Perpetual Notes (b)                 | (72)                     | (72)              |                | (72)           |

  

|                                     | <b>December 31, 2011</b> |                   |                |                |
|-------------------------------------|--------------------------|-------------------|----------------|----------------|
|                                     | <b>Carrying amount</b>   | <b>Fair value</b> | <b>Level 1</b> | <b>Level 2</b> |
| Long-term debt (less interests) (a) | (22,700)                 | (24,312)          | (18,181)       | (6,131)        |
| Perpetual Notes (b)                 | (80)                     | (80)              |                | (80)           |

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(a) Less accrued charges of US\$ 425 and US\$ 333 as of December 31, 2012 and December 31, 2011, respectively.

(b) Classified on LT Loans and related parties (Non-current liabilities).

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The information presented to the Executive Board with the respective performance of each segment are usually derived from the accounting records maintained in accordance with the best accounting practices, with some reallocation between segments.

Consolidated net income and principal assets are reconciled as follows:

**Results by segment**

|   | 2012             |                |              |              |                |                 | Year ended as of December 31,<br>2011 |              |             |              |                |                 | Bulk<br>Material |
|---|------------------|----------------|--------------|--------------|----------------|-----------------|---------------------------------------|--------------|-------------|--------------|----------------|-----------------|------------------|
|   | Bulk<br>Material | Base Metals    | Fertilizers  | Logistic     | Others         | Consolidated    | Bulk<br>Material                      | Base Metals  | Fertilizers | Logistic     | Others         | Consolidated    |                  |
| <b>RESULTS</b>  |                  |                |              |              |                |                 |                                       |              |             |              |                |                 |                  |
| Gross revenues  | 35,662           | 7,133          | 3,777        | 1,644        | 537            | <b>48,753</b>   | 46,904                                | 9,627        | 3,547       | 1,726        | 541            | <b>62,345</b>   | 36,2             |
| Cost and expenses   | (17,542)         | (6,135)        | (3,036)      | (1,591)      | (838)          | <b>(29,142)</b> | (16,422)                              | (6,350)      | (2,753)     | (1,467)      | (958)          | <b>(27,950)</b> | (13,3            |
| Research and development                                      | (732)            | (395)          | (109)        | (12)         | (230)          | <b>(1,478)</b>  | (649)                                 | (413)        | (104)       | (121)        | (387)          | <b>(1,674)</b>  | (2               |
| Depreciation, depletion and amortization                      | (2,007)          | (1,647)        | (463)        | (238)        | (41)           | <b>(4,396)</b>  | (1,847)                               | (1,572)      | (458)       | (229)        | (16)           | <b>(4,122)</b>  | (1,5             |
| Gain (Loss) on sale of assets                                 | (377)            |                | (114)        |              |                | <b>(491)</b>    |                                       | 1,513        |             |              |                | <b>1,513</b>    |                  |
| Impairment on assets  | (1,029)          | (2,848)        |              |              | (146)          | <b>(4,023)</b>  |                                       |              |             |              |                |                 |                  |
| <b>Operating income</b>                                       | <b>13,975</b>    | <b>(3,892)</b> | <b>55</b>    | <b>(197)</b> | <b>(718)</b>   | <b>9,223</b>    | <b>27,986</b>                         | <b>2,805</b> | <b>232</b>  | <b>(91)</b>  | <b>(820)</b>   | <b>30,112</b>   | <b>21,0</b>      |
| Financial Result  | (3,902)          | 195            | (48)         | (60)         | 14             | <b>(3,801)</b>  | (2,966)                               | (1)          | (55)        | (207)        | (84)           | <b>(3,313)</b>  | (3               |
| Foreign exchange and monetary gains (losses), net             |                  |                |              |              |                |                 |                                       |              |             |              |                |                 |                  |
| Discontinued operations, net of tax                           |                  |                |              |              |                |                 |                                       |              |             |              |                |                 |                  |
| Impairment on investments                                     |                  | (975)          |              |              | (666)          | <b>(1,641)</b>  |                                       |              |             |              |                |                 |                  |
| Equity in results of affiliates and joint ventures and others |                  |                |              |              |                |                 |                                       |              |             |              |                |                 |                  |
| investments   | 765              | (19)           |              | 112          | (218)          | <b>640</b>      | 1,095                                 | 101          |             | 125          | (186)          | <b>1,135</b>    | 1,0              |
| Income taxes  | (389)            | 69             | 1,203        | (18)         | (32)           | <b>833</b>      | (4,202)                               | (954)        | (114)       | (12)         |                | <b>(5,282)</b>  | (3,9             |
| Noncontrolling interests                                      | 65               | 207            | (54)         |              | 39             | <b>257</b>      | 105                                   | 88           | (31)        |              | 71             | <b>233</b>      |                  |
| <b>Net income attributable to the</b>                         | <b>10,514</b>    | <b>(4,415)</b> | <b>1,156</b> | <b>(163)</b> | <b>(1,581)</b> | <b>5,511</b>    | <b>22,018</b>                         | <b>2,039</b> | <b>32</b>   | <b>(185)</b> | <b>(1,019)</b> | <b>22,885</b>   | <b>17,7</b>      |

Company's  
stockholders

Sales classified by  
geographic  
destination:

Foreign market

America, other than

|                     |               |              |              |              |            |               |               |              |              |              |               |               |             |
|---------------------|---------------|--------------|--------------|--------------|------------|---------------|---------------|--------------|--------------|--------------|---------------|---------------|-------------|
| United States       | 715           | 996          | 60           | 36           | 16         | <b>1,823</b>  | 1,181         | 1,380        | 44           | 21           | <b>2,626</b>  | 8             |             |
| United States       | 108           | 1,137        | 53           |              | 36         | <b>1,334</b>  | 98            | 1,571        | 1            | 2            | <b>1,672</b>  |               |             |
| Europe              | 5,834         | 2,194        | 148          |              | 23         | <b>8,199</b>  | 8,815         | 2,456        | 153          | 62           | <b>11,486</b> | 6,8           |             |
| Middle              |               |              |              |              |            |               |               |              |              |              |               |               |             |
| East/Africa/Oceania | 1,550         | 96           | 7            |              |            | <b>1,653</b>  | 1,767         | 150          | 1            | 1            | <b>1,919</b>  | 1,5           |             |
| Japan               | 4,202         | 722          |              |              | 7          | <b>4,931</b>  | 5,987         | 1,243        |              | 8            | <b>7,238</b>  | 3,8           |             |
| China               | 16,743        | 895          |              |              |            | <b>17,638</b> | 20,086        | 1,235        |              | 99           | <b>21,420</b> | 16,0          |             |
| Asia, other than    |               |              |              |              |            |               |               |              |              |              |               |               |             |
| Japan and China     | 2,947         | 1,009        | 91           |              | 2          | <b>4,049</b>  | 3,640         | 1,394        | 35           | 1            | <b>5,070</b>  | 2,7           |             |
| Brazil              | 3,563         | 84           | 3,418        | 1,608        | 453        | <b>9,126</b>  | 5,330         | 198          | 3,313        | 1,726        | 347           | <b>10,914</b> | 4,2         |
|                     | <b>35,662</b> | <b>7,133</b> | <b>3,777</b> | <b>1,644</b> | <b>537</b> | <b>48,753</b> | <b>46,904</b> | <b>9,627</b> | <b>3,547</b> | <b>1,726</b> | <b>541</b>    | <b>62,345</b> | <b>36,2</b> |



Table of Contents**Operating segment**

|                               | Year ended in December 31, 2012 |                 |               |                   |                          |                                 |                  |  |                      |                  |     |
|-------------------------------|---------------------------------|-----------------|---------------|-------------------|--------------------------|---------------------------------|------------------|--|----------------------|------------------|-----|
|                               | Revenue                         | Value added tax | Net revenues  | Cost and expenses | Research and Development | Pre Operating and Idle Capacity | Operating profit | Depreciation, depletion and amortization | Impairment on assets | Operating income | Pro |
| <b>Bulk Material</b>          |                                 |                 |               |                   |                          |                                 |                  |  |                      |                  |     |
| Iron ore                      | 27,202                          | (271)           | 26,931        | (12,519)          | (617)                    |                                 | 13,795           | (1,529)                                  |                      | 12,266           |     |
| Pellets                       | 6,776                           | (216)           | 6,560         | (2,387)           |                          | (321)                           | 3,852            | (235)                                    |                      | 3,617            |     |
| Manganese                     | 592                             | (49)            | 543           | (353)             |                          |                                 | 190              | (45)                                     |                      | 145              |     |
| Coal                          | 1,092                           |                 | 1,092         | (1,398)           | (115)                    | (28)                            | (449)            | (198)                                    | (1,029)              | (1,676)          |     |
|                               | <b>35,662</b>                   | <b>(536)</b>    | <b>35,126</b> | <b>(16,657)</b>   | <b>(732)</b>             | <b>(349)</b>                    | <b>17,388</b>    | <b>(2,007)</b>                           | <b>(1,029)</b>       | <b>14,352</b>    |     |
| <b>Base Metals</b>            |                                 |                 |               |                   |                          |                                 |                  |  |                      |                  |     |
| Nickel and other products (a) | 5,975                           |                 | 5,975         | (4,107)           | (299)                    | (1,029)                         | 540              | (1,508)                                  | (2,848)              | (3,816)          |     |
| Copper (b)                    | 1,158                           | (2)             | 1,156         | (876)             | (96)                     | (121)                           | 63               | (139)                                    |                      | (76)             |     |
| Aluminum products             |                                 |                 |               |                   |                          |                                 |                  |  |                      |                  |     |
|                               | <b>7,133</b>                    | <b>(2)</b>      | <b>7,131</b>  | <b>(4,983)</b>    | <b>(395)</b>             | <b>(1,150)</b>                  | <b>603</b>       | <b>(1,647)</b>                           | <b>(2,848)</b>       | <b>(3,892)</b>   |     |
| <b>Fertilizers</b>            |                                 |                 |               |                   |                          |                                 |                  |  |                      |                  |     |
| Potash                        | 308                             | (18)            | 290           | (171)             | (73)                     |                                 | 46               | (23)                                     |                      | 23               |     |
| Phosphates                    | 2,583                           | (76)            | 2,507         | (1,947)           | (36)                     | (93)                            | 431              | (331)                                    |                      | 100              |     |
| Nitrogen                      | 801                             | (102)           | 699           | (618)             |                          |                                 | 81               | (109)                                    |                      | (28)             |     |
| Others fertilizers products   | 85                              | (11)            | 74            |                   |                          |                                 | 74               |  |                      | 74               |     |
|                               | <b>3,777</b>                    | <b>(207)</b>    | <b>3,570</b>  | <b>(2,736)</b>    | <b>(109)</b>             | <b>(93)</b>                     | <b>632</b>       | <b>(463)</b>                             |                      | <b>169</b>       |     |
| <b>Logistics</b>              |                                 |                 |               |                   |                          |                                 |                  |  |                      |                  |     |
| Railroads                     | 1,135                           | (199)           | 936           | (1,012)           | (12)                     |                                 | (88)             | (182)                                    |                      | (270)            |     |
| Ports                         | 509                             | (58)            | 451           | (322)             |                          |                                 | 129              | (56)                                     |                      | 73               |     |
| Ships                         |                                 |                 |               |                   |                          |                                 |                  |  |                      |                  |     |
|                               | <b>1,644</b>                    | <b>(257)</b>    | <b>1,387</b>  | <b>(1,334)</b>    | <b>(12)</b>              |                                 | <b>41</b>        | <b>(238)</b>                             |                      | <b>(197)</b>     |     |
| <b>Others</b>                 | 537                             | (57)            | 480           | (781)             | (230)                    |                                 | (531)            | (41)                                     | (146)                | (718)            |     |
| <b>Loss on sale of assets</b> |                                 |                 |               | (491)             |                          |                                 | (491)            |  |                      | (491)            |     |
|                               | <b>48,753</b>                   | <b>(1,059)</b>  | <b>47,694</b> | <b>(26,982)</b>   | <b>(1,478)</b>           | <b>(1,592)</b>                  | <b>17,642</b>    | <b>(4,396)</b>                           | <b>(4,023)</b>       | <b>9,223</b>     |     |

(a) Includes nickel co-products and by-products (copper, precious metals, cobalt and others).

(b) Includes copper concentrate.

Table of Contents**Operating segment**

|                                     | Year ended in December 31, 2011 |                    |               |                      |                             |                                       |                     |  |                     |                                  |  |
|-------------------------------------|---------------------------------|--------------------|---------------|----------------------|-----------------------------|---------------------------------------|---------------------|--|---------------------|----------------------------------|--|
|                                     | Revenue                         | Value added<br>tax | Net revenues  | Cost and<br>expenses | Research and<br>development | Pre operating<br>and idle<br>capacity | Operating<br>profit | Depreciation,<br>depletion and<br>amortization | Operating<br>income | Property, plant<br>and equipment | Additions<br>property, p<br>and equipm |
| <b>Bulk Material</b>                |                                 |                    |               |                      |                             |                                       |                     |  |                     |                                  |  |
| Iron ore                            | 36,910                          | (494)              | 36,416        | (10,471)             | (497)                       |                                       | 25,448              | (1,418)  | 24,030              | 32,944                           | 7                                      |
| Pellets                             | 8,204                           | (266)              | 7,938         | (3,209)              |                             | (106)                                 | 4,623               | (196)  | 4,427               | 2,074                            |  |
| Manganese<br>and<br>ferroalloys     | 732                             | (56)               | 676           | (594)                |                             |                                       | 82                  | (69)   | 13                  | 333                              |  |
| Coal                                | 1,058                           |                    | 1,058         | (1,125)              | (152)                       | (101)                                 | (320)               | (164)  | (484)               | 4,081                            | 1                                      |
|                                     | <b>46,904</b>                   | <b>(816)</b>       | <b>46,088</b> | <b>(15,399)</b>      | <b>(649)</b>                | <b>(207)</b>                          | <b>29,833</b>       | <b>(1,847)</b>                                 | <b>27,986</b>       | <b>39,432</b>                    | <b>9</b>                               |
| <b>Base Metals</b>                  |                                 |                    |               |                      |                             |                                       |                     |  |                     |                                  |  |
| Nickel and<br>other products<br>(a) | 8,118                           |                    | 8,118         | (4,328)              | (254)                       | (976)                                 | 2,560               | (1,487)  | 1,073               | 29,097                           | 2                                      |
| Copper (b)                          | 1,126                           | (23)               | 1,103         | (702)                | (159)                       | (12)                                  | 230                 | (84)   | 146                 | 4,178                            | 1                                      |
| Aluminum<br>products                | 383                             | (5)                | 378           | (304)                |                             |                                       | 74                  | (1)  | 73                  |                                  |  |
|                                     | <b>9,627</b>                    | <b>(28)</b>        | <b>9,599</b>  | <b>(5,334)</b>       | <b>(413)</b>                | <b>(988)</b>                          | <b>2,864</b>        | <b>(1,572)</b>                                 | <b>1,292</b>        | <b>33,275</b>                    | <b>3</b>                               |
| <b>Fertilizers</b>                  |                                 |                    |               |                      |                             |                                       |                     |  |                     |                                  |  |
| Potash                              | 287                             | (14)               | 273           | (239)                | (50)                        | (26)                                  | (42)                | (45)   | (87)                | 2,137                            |  |
| Phosphates                          | 2,395                           | (95)               | 2,300         | (1,634)              | (54)                        | (72)                                  | 540                 | (297)  | 243                 | 6,430                            |  |
| Nitrogen                            | 782                             | (103)              | 679           | (557)                |                             |                                       | 122                 | (116)  | 6                   | 896                              |  |
| Others<br>fertilizers<br>products   | 83                              | (13)               | 70            |                      |                             |                                       | 70                  |  | 70                  | 364                              |  |
|                                     | <b>3,547</b>                    | <b>(225)</b>       | <b>3,322</b>  | <b>(2,430)</b>       | <b>(104)</b>                | <b>(98)</b>                           | <b>690</b>          | <b>(458)</b>                                   | <b>232</b>          | <b>9,827</b>                     | <b>1</b>                               |
| <b>Logistics</b>                    |                                 |                    |               |                      |                             |                                       |                     |  |                     |                                  |  |
| Railroads                           | 1,265                           | (222)              | 1,043         | (882)                | (121)                       |                                       | 40                  | (179)  | (139)               | 1,307                            |  |
| Ports                               | 461                             | (48)               | 413           | (315)                |                             |                                       | 98                  | (50)   | 48                  | 576                              |  |
| Ships                               |                                 |                    |               |                      |                             |                                       |                     |  |                     | 2,485                            |  |
|                                     | <b>1,726</b>                    | <b>(270)</b>       | <b>1,456</b>  | <b>(1,197)</b>       | <b>(121)</b>                |                                       | <b>138</b>          | <b>(229)</b>                                   | <b>(91)</b>         | <b>4,368</b>                     |  |
| <b>Others</b>                       |                                 |                    |               |                      |                             |                                       |                     |  |                     |                                  |  |
|                                     | 541                             | (60)               | 481           | (898)                | (387)                       |                                       | (804)               | (16)   | (820)               | 1,993                            |  |
| <b>Gain on sale<br/>of assets</b>   |                                 |                    |               |                      |                             |                                       |                     |  |                     |                                  |  |
|                                     | <b>62,345</b>                   | <b>(1,399)</b>     | <b>60,946</b> | <b>(23,745)</b>      | <b>(1,674)</b>              | <b>(1,293)</b>                        | <b>34,234</b>       | <b>(4,122)</b>                                 | <b>30,112</b>       | <b>88,895</b>                    | <b>16</b>                              |

(a) Includes nickel co-products and by-products (copper, precious metals, cobalt and others).

(b) Includes copper concentrate.



Table of Contents**Operating segment**

|                                     | Year ended in December 31, 2010 |                    |               |                      |                             |                                       |                     |  |                     |                                  |  |
|-------------------------------------|---------------------------------|--------------------|---------------|----------------------|-----------------------------|---------------------------------------|---------------------|--|---------------------|----------------------------------|--|
|                                     | Revenue                         | Value added<br>tax | Net revenues  | Cost and<br>expenses | Research and<br>development | Pre operation<br>and idle<br>capacity | Operating<br>profit | Depreciation,<br>depletion and<br>amortization | Operating<br>income | Property, plant<br>and equipment | Additions<br>property, p<br>and equipm |
| <b>Bulk Material</b>                |                                 |                    |               |                      |                             |                                       |                     |  |                     |                                  |  |
| Iron ore                            | 28,120                          | (366)              | 27,754        | (8,856)              | (226)                       | (18)                                  | 18,654              | (1,307)  | 17,347              | 30,412                           | 4                                      |
| Pellets                             | 6,402                           | (266)              | 6,136         | (2,510)              |                             | (5)                                   | 3,621               | (110)  | 3,511               | 1,445                            |  |
| Manganese<br>and<br>ferroalloys     | 922                             | (69)               | 853           | (442)                |                             |                                       | 411                 | (36)   | 375                 | 316                              |  |
| Coal                                | 770                             |                    | 770           | (684)                | (63)                        | (109)                                 | (86)                | (83)   | (169)               | 3,020                            |  |
|                                     | <b>36,214</b>                   | <b>(701)</b>       | <b>35,513</b> | <b>(12,492)</b>      | <b>(289)</b>                | <b>(132)</b>                          | <b>22,600</b>       | <b>(1,536)</b>                                 | <b>21,064</b>       | <b>35,193</b>                    | <b>4</b>                               |
| <b>Base Metals</b>                  |                                 |                    |               |                      |                             |                                       |                     |  |                     |                                  |  |
| Nickel and<br>other products<br>(a) | 4,712                           |                    | 4,712         | (2,297)              | (171)                       | (934)                                 | 1,310               | (1,145)  | 165                 | 28,623                           | 1                                      |
| Copper (b)                          | 934                             | (29)               | 905           | (475)                | (95)                        | (51)                                  | 284                 | (87)   | 197                 | 3,579                            | 1                                      |
| Aluminum<br>products                | 2,554                           | (32)               | 2,522         | (2,098)              | (11)                        |                                       | 413                 | (127)  | 286                 | 395                              |  |
|                                     | <b>8,200</b>                    | <b>(61)</b>        | <b>8,139</b>  | <b>(4,870)</b>       | <b>(277)</b>                | <b>(985)</b>                          | <b>2,007</b>        | <b>(1,359)</b>                                 | <b>648</b>          | <b>32,597</b>                    | <b>3</b>                               |
| <b>Fertilizers</b>                  |                                 |                    |               |                      |                             |                                       |                     |  |                     |                                  |  |
| Potash                              | 280                             | (11)               | 269           | (213)                | (56)                        |                                       |                     | (29)   | (29)                | 474                              |  |
| Phosphates                          | 1,211                           | (47)               | 1,164         | (1,054)              | (16)                        |                                       | 94                  | (121)  | (27)                | 7,560                            |  |
| Nitrogen                            | 337                             | (43)               | 294           | (285)                |                             |                                       | 9                   | (50)   | (41)                | 809                              |  |
| Others<br>fertilizers<br>products   | 17                              | (5)                | 12            | (11)                 |                             |                                       | 1                   |  | 1                   | 146                              |  |
|                                     | <b>1,845</b>                    | <b>(106)</b>       | <b>1,739</b>  | <b>(1,563)</b>       | <b>(72)</b>                 |                                       | <b>104</b>          | <b>(200)</b>                                   | <b>(96)</b>         | <b>8,989</b>                     |  |
| <b>Logistics</b>                    |                                 |                    |               |                      |                             |                                       |                     |  |                     |                                  |  |
| Railroads                           | 1,107                           | (183)              | 924           | (641)                | (75)                        |                                       | 208                 | (123)  | 85                  | 1,278                            |  |
| Ports                               | 353                             | (47)               | 306           | (236)                |                             |                                       | 70                  | (23)   | 47                  | 297                              |  |
| Ships                               | 5                               |                    | 5             | (13)                 |                             |                                       | (8)                 |  | (8)                 | 747                              |  |
|                                     | <b>1,465</b>                    | <b>(230)</b>       | <b>1,235</b>  | <b>(890)</b>         | <b>(75)</b>                 |                                       | <b>270</b>          | <b>(146)</b>                                   | <b>124</b>          | <b>2,322</b>                     |  |
| <b>Others</b>                       | 493                             | (90)               | 403           | (264)                | (165)                       |                                       | (26)                | (19)   | (45)                | 3,995                            | 2                                      |
|                                     | <b>48,217</b>                   | <b>(1,188)</b>     | <b>47,029</b> | <b>(20,079)</b>      | <b>(878)</b>                | <b>(1,117)</b>                        | <b>24,955</b>       | <b>(3,260)</b>                                 | <b>21,695</b>       | <b>83,096</b>                    | <b>12</b>                              |

(a) Includes nickel co-products and by-products (copper, precious metals, cobalt and others).

(b) Includes copper concentrate.



Table of Contents**25 Related party transactions**

Balances from transactions with major related parties are as follows:

|   | December 31, 2012 |             | December 31, 2011 |             |
|---|-------------------|-------------|-------------------|-------------|
|   | Assets            | Liabilities | Assets            | Liabilities |
| <b>Affiliated Companies and Joint Ventures</b>            |                   |             |                   |             |
| Companhia Hispano-Brasileira de Pelotização - HISPANOBRÁS | 2                 | 10          | 177               | 162         |
| Companhia Nipo-Brasileira de Pelotização - NIBRASCO       | 2                 | 175         | 1                 | 13          |
| Companhia Coreano-Brasileira de Pelotização - KOBRASCO    |                   | 33          |                   | 5           |
| Baovale Mineração S.A.                                    | 14                | 28          | 8                 | 20          |
| Minas da Serra Geral S.A. ( MSG )                         |                   | 8           |                   | 9           |
| MRS Logística S.A.  | 44                | 45          | 50                | 20          |
| Norsk Hydro ASA   | 405               | 72          | 489               | 80          |
| Samarco Mineração S.A.                                    | 213               |             | 47                |             |
| Mitsui & CO, LTD  | 22                | 46          |                   | 37          |
| Others  | 224               | 8           | 107               | 49          |
|   | <b>926</b>        | <b>425</b>  | <b>879</b>        | <b>395</b>  |
| Current   | 518               | 353         | 370               | 304         |
| Long-term   | 408               | 72          | 509               | 91          |
| <b>Total</b>  | <b>926</b>        | <b>425</b>  | <b>879</b>        | <b>395</b>  |

These balances are included in the following balance sheet classifications:

|                                       | December 31, 2012 |             | December 31, 2011 |             |
|---------------------------------------|-------------------|-------------|-------------------|-------------|
|                                       | Assets            | Liabilities | Assets            | Liabilities |
| <b>Current assets</b>                 |                   |             |                   |             |
| Accounts receivable                   | 134               |             | 288               |             |
| Loans and advances to related parties | 384               |             | 82                |             |
| <b>Non-current assets</b>             |                   |             |                   |             |
| Loans and advances to related parties | 408               |             | 509               |             |
| <b>Current liabilities</b>            |                   |             |                   |             |
| Suppliers                             |                   | 146         |                   | 280         |
| Loans from related parties            |                   | 207         |                   | 24          |
| <b>Non-current liabilities</b>        |                   |             |                   |             |
| Long-term debt                        |                   | 72          |                   | 91          |
|                                       | <b>926</b>        | <b>425</b>  | <b>879</b>        | <b>395</b>  |

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Income and expenses from the principal transactions and financial operations carried out with major related parties are as follows:

|   | 2012       |              | As of December 31,<br>2011 |              | 2010       |              |
|---|------------|--------------|----------------------------|--------------|------------|--------------|
|   | Income     | Expenses     | Income                     | Expenses     | Income     | Expenses     |
| <b>Affiliated Companies and Joint Ventures</b>            |            |              |                            |              |            |              |
| Companhia Nipo-Brasileira de Pelotização - NIBRASCO       |            | 80           |                            | 151          |            | 149          |
| Samarco Mineração S.A.                                    | 371        |              | 511                        |              | 448        |              |
| Companhia Ítalo-Brasileira de Pelotização - ITABRASCO     |            | 32           |                            | 150          |            | 50           |
| Companhia Hispano-Brasileira de Pelotização - HISPANOBRÁS | 266        | 265          | 729                        | 521          | 462        | 513          |
| Companhia Coreano-Brasileira de Pelotização - KOBRASCO    |            | 70           |                            | 98           |            | 117          |
| Mineração Rio Norte S.A.                                  |            |              |                            |              |            | 156          |
| MRS Logística S.A.  | 14         | 702          | 16                         | 759          | 16         | 561          |
| Others  | 142        | 101          | 103                        | 53           | 17         | 18           |
|   | <b>793</b> | <b>1,250</b> | <b>1,359</b>               | <b>1,732</b> | <b>943</b> | <b>1,564</b> |

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These amounts are included in the following statement of income line items:

|   | 2012       |              | As of December 31,<br>2011 |              | 2010       |              |
|---|------------|--------------|----------------------------|--------------|------------|--------------|
|   | Income     | Expenses     | Income                     | Expenses     | Income     | Expenses     |
| Sales / Cost of iron ore and pellets      | 624        | 468          | 1,337                      | 952          | 910        | 785          |
| Revenues / expense from logistic services | 14         | 706          | 16                         | 759          | 23         | 603          |
| Sales / Cost of aluminum products         |            |              |                            | 18           |            | 156          |
| Financial income/expenses                 | 14         | 7            | 6                          | 3            | 10         | 20           |
| Others                                    | 141        | 68           |                            |              |            |              |
|   | <b>793</b> | <b>1,249</b> | <b>1,359</b>               | <b>1,732</b> | <b>943</b> | <b>1,564</b> |

Additionally we have loans payable to Banco Nacional de Desenvolvimento Econômico Social and BNDES Participações S.A in the amounts of US\$ 3,951 and US\$ 825 respectively, accruing interest at market rates, which fall due through 2029. These operations generated interest expenses of US\$41 and US\$14. We also maintain cash equivalent balances with Banco Bradesco S.A. in the amount of US\$33 in December 31, 2012. The effect of these operations on our results was US\$1.

## 26 Derivative financial instruments

### Risk management policy

Vale considers that the effective management of risks is a key objective to support its growth strategy, strategic planning and financial flexibility. Therefore, Vale has developed its risk management strategy in order to provide an integrated approach of the risks the Company is exposed to. Vale evaluates not only the impact of market risk factors in the business results (market risk), but also the risk arising from third party obligations with Vale (credit risk), those inherent to inadequate or failed internal processes, people, systems or external events (operational risk), those arising from liquidity risk, among others.

The Board of Directors established the corporate risk management policy in order to support the growth strategy, strategic planning and business continuity of the Company, strengthening its capital structure and asset management, ensure flexibility and consistency on the financial management and strengthen corporate governance practices.



The corporate risk management policy determines that Vale measures and monitors its corporate risk on a consolidated approach in order to guarantee that the overall risk level of the Company remains aligned with the guidelines defined by the Board of Directors and the Executive Board.

The Executive Risk Management Committee, created by the Board of Directors, is responsible for supporting the Executive Board in the risk analysis and for issuing opinion regarding the Company's risk management. It is also responsible for the supervision and revision of the principles and instruments of corporate risk management.

The Executive Board is responsible for the approval of the policy deployment into norms, rules and responsibilities and for reporting to the Board of Directors about such procedures.

The risk management norms and instructions complement the corporate risk management policy and define practices, processes, controls, roles and responsibilities in the Company regarding risk management.

The Company may, when necessary, allocate specific risk limits to management activities, including but not limited to, market risk limit, corporate and sovereign credit limit, in accordance with the acceptable corporate risk limit.

### **Market Risk Management**

Vale is exposed to the various market risk factors that can impact its cash flow. The assessment of this potential impact arising from the volatility of risk factors and their correlations is performed periodically to support the decision making process and the growth strategy of the Company, ensure its financial flexibility and monitor the volatility of future cash flows.

When necessary, market risk mitigation strategies are evaluated and implemented in line with these objectives. Some strategies may incorporate financial instruments, including derivatives. The portfolios of the financial instruments are monitored on a monthly basis, enabling financial results surveillance and its impact on cash flow, and ensuring strategies adherence to the proposed

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objectives.

Considering the nature of Vale's business and operations, the main market risk factors which the Company is exposed to are:

- Interest rates;
- Foreign exchange;
- Product prices and input costs.

**Foreign exchange rate and interest rate risk**

Vale's cash flows are exposed to volatility of several currencies. While most of the product prices are indexed to US dollars, most of the costs, disbursements and investments are indexed to currencies other than the US dollar, primarily the Brazilian real and the Canadian dollar.

Derivative instruments may be used to mitigate Vale's potential cash flow volatility arising from its currency mismatch.

For hedging revenues, costs, expenses and investment cash flows, the main risk mitigation strategies used are currency forward transactions and swaps.

Vale implemented hedge transactions to protect its cash flow from market risks that arises from its debt obligations - mainly currency volatility. We use swap transactions to convert debt linked to Brazilian real into US dollar that have similar - or sometimes shorter - settlement dates than the final maturity of the debt instruments. Their notional amounts are similar to the principal and interest payments, subjected to liquidity market conditions.

Swaps with shorter settlement dates are renegotiated through time so that their final maturity matches - or becomes closer - to the debts' final maturity. At each settlement date, the results of the swap transactions partially offset the impact of the foreign exchange rate in Vale's obligations, contributing to stabilize the cash disbursements in US dollar.

In the event of an appreciation (depreciation) of the Brazilian real against the US dollar, the negative (positive) impact on Brazilian real denominated debt obligations (interest and/or principal payment) measured in US dollars will be partially offset by a positive (negative) effect from a swap transaction, regardless of the US dollar / Brazilian real exchange rate in the payment date. The same rationale applies to debt denominated in other currencies and their respective swaps.

Vale is also exposed to interest rate risks on loans and financings. Its floating rate debt consists mainly of loans including export pre-payments, commercial banks and multilateral organizations loans. In general, the US dollar floating rate debt is subject to changes in the LIBOR (London Interbank Offer Rate in US dollar). To mitigate the impact of the interest rate volatility on its cash flows, Vale considers the natural hedges resulting from the correlation of commodities prices and US dollar floating rates. If such natural hedges are not present, Vale may search for the same effect by using financial instruments.

### **Product price and Input Cost risk**

Vale is also exposed to several market risks associated with commodities prices volatility. In line with the risk management policy, risk mitigation strategies involving commodities can also be used to adjust its risk profile and reduce the volatility of cash flow. In these cases, the mitigation strategies used are primarily forward transactions, futures contracts or zero-cost collars.

### **Embedded derivatives**

The cash flow of the Company is also exposed to market risks associated with contracts that contain embedded derivatives or behave as derivatives. The derivatives may be embedded in, but are not limited to, commercial contracts, purchase agreements, leases, bonds, insurance policies and loans.

Vale's wholly-owned subsidiary Vale Canada Ltd has nickel concentrate and raw materials purchase agreements, in which there are provisions based on the movement of nickel and copper prices. These provisions are considered embedded derivatives.

Table of Contents**Hedge Accounting**

The Accounting for Derivative Financial Instruments and Hedging Activities Standard determines that all derivatives, whether designated in hedging relationships or not, are required to be recorded in the balance sheet at fair value and the gain or loss in fair value is included in current earnings, unless if qualified as hedge accounting. A derivative must be designated in a hedging relationship in order to qualify for hedge accounting. These requirements include a determination of what portions of hedges are deemed to be effective versus ineffective. In general, a hedging relationship is effective when a change in the fair value of the derivative is offset by an equal and opposite change in the fair value of the underlying hedged item. In accordance with these requirements, effectiveness tests are performed in order to assess effectiveness and quantify ineffectiveness for all designated hedges.

At December 31, 2012, Vale had outstanding positions designated as cash flow hedge. A cash flow hedge is a hedge of the exposure to variability in expected future cash flows that is attributable to a particular risk, such as a forecasted purchase or sale. If a derivative is designated as cash flow hedge, the effective portion of the changes in the fair value of the derivative is recorded in other comprehensive income and recognized in earnings when the hedged item affects earnings. However, the ineffective portion of changes in the fair value of the derivatives designated as hedges is recognized in earnings. If a portion of a derivative contract is excluded for purposes of effectiveness testing, the value of such excluded portion is included in earnings.

|   | Assets            |           |                   |           | Liabilities       |            |                   |            |
|---|-------------------|-----------|-------------------|-----------|-------------------|------------|-------------------|------------|
|   | December 31, 2012 |           | December 31, 2011 |           | December 31, 2012 |            | December 31, 2011 |            |
|   | Short-term        | Long-term | Short-term        | Long-term | Short-term        | Long-term  | Short-term        | Long-term  |
| <b><u>Derivatives not designated as hedge</u></b>     |                   |           |                   |           |                   |            |                   |            |
| <b><u>Foreign exchange and interest rate risk</u></b> |                   |           |                   |           |                   |            |                   |            |
| CDI & TJLP vs. USD fixed and floating rate swap       | 249               | 1         | 410               | 60        | 340               | 700        | 49                | 590        |
| EuroBond Swap   |                   | 39        |                   |           | 4                 | 18         | 4                 | 32         |
| Pre Dollar Swap                                       | 16                |           | 19                |           |                   | 63         |                   | 41         |
| Treasury future                                       |                   |           |                   |           |                   |            | 5                 |            |
|   | <b>265</b>        | <b>40</b> | <b>429</b>        | <b>60</b> | <b>344</b>        | <b>781</b> | <b>58</b>         | <b>663</b> |
| <b><u>Commodities price risk</u></b>                  |                   |           |                   |           |                   |            |                   |            |
| Nickel  |                   |           |                   |           |                   |            |                   |            |
| Fixed price program                                   |                   |           | 1                 |           | 2                 |            | 1                 |            |
| Bunker Oil  |                   |           | 4                 |           |                   |            |                   |            |
|   |                   |           | <b>5</b>          |           | <b>2</b>          |            | <b>1</b>          |            |
| <b><u>Embedded derivatives:</u></b>                   |                   |           |                   |           |                   |            |                   |            |
| Gas   |                   |           |                   |           |                   | 2          |                   |            |
|   |                   |           |                   |           |                   | <b>2</b>   |                   |            |
| <b><u>Derivatives designated as hedge</u></b>         |                   |           |                   |           |                   |            |                   |            |
| Bunker Oil  |                   |           |                   |           | 1                 |            |                   |            |

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|                                     |            |           |            |           |            |            |           |            |
|-------------------------------------|------------|-----------|------------|-----------|------------|------------|-----------|------------|
| Strategic Nickel                    | 13         |           | 161        |           |            |            |           |            |
| Foreign exchange cash flow<br>hedge | 3          | 5         |            |           |            |            | 14        |            |
|                                     | <b>16</b>  | <b>5</b>  | <b>161</b> |           | <b>1</b>   |            | <b>14</b> |            |
| <b>Total</b>                        | <b>281</b> | <b>45</b> | <b>595</b> | <b>60</b> | <b>347</b> | <b>783</b> | <b>73</b> | <b>663</b> |

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|   | Gain or (loss) recognized as financial income |             |             |  |              |                | Gain or (loss) recognized in OCI |            |             |
|---|---|-------------|-------------|--|--------------|----------------|----------------------------------|------------|-------------|
|   | (expense)                                     |             |             | Financial settlement (Inflows)/ Outflows |              |                | Year ended as of December 31,    |            |             |
|   | Year ended as of December 31,<br>2012         | 2011        | 2010        | Year ended as of December 31,<br>2012    | 2011         | 2010           | 2012                             | 2011       | 2010        |
| <b><u>Derivatives not designated as hedge</u></b>     |   |             |             |  |              |                |                                  |            |             |
| <b><u>Foreign exchange and interest rate risk</u></b> |   |             |             |  |              |                |                                  |            |             |
| CDI & TJLP vs. USD fixed and floating rate swap       | (315)   | (92)        | 451         | (325)                                    | (337)        | (956)          |                                  |            |             |
| EURO floating rate vs. USD floating rate swap         |   |             | (1)         |  |              | 1              |                                  |            |             |
| USD floating rate vs. fixed USD rate swap             |   |             | (2)         |  | 4            | 3              |                                  |            |             |
| EuroBond Swap   | 50  | (30)        | (5)         | 4  | 1            | (1)            |                                  |            |             |
| Pre Dollar Swap                                       | (7)   | (23)        | 4           | (19)                                     | (1)          | (2)            |                                  |            |             |
| Swap USD fixed rate vs. CDI                           |   | 69          |             |  | (68)         |                |                                  |            |             |
| South African Rande Forward                           |   | (8)         |             |  | 8            |                |                                  |            |             |
| AUD floating rate vs. fixed USD rate swap             |   |             | 3           |  | (2)          | (9)            |                                  |            |             |
| Treasury Future                                       | 9   | (12)        |             | (3)                                      | 6            |                |                                  |            |             |
| Swap Convertibles                                     |   |             | 37          |  |              | (37)           |                                  |            |             |
|   | <b>(263)</b>                                  | <b>(96)</b> | <b>487</b>  | <b>(343)</b>                             | <b>(389)</b> | <b>(1,001)</b> |                                  |            |             |
| <b><u>Commodities price risk</u></b>                  |   |             |             |  |              |                |                                  |            |             |
| <b>Nickel</b>   |   |             |             |  |              |                |                                  |            |             |
| Fixed price program                                   | (1)   | 39          | 4           | 2  | (41)         | (7)            |                                  |            |             |
| Strategic program                                     |   | 15          | (87)        |  |              | 105            |                                  |            |             |
| Copper  |   | 1           |             |  |              |                |                                  |            |             |
| Aluminum  |   |             |             |  | 7            | 16             |                                  |            |             |
| Bunker Oil  | 1   | 37          | 4           | (5)                                      | (48)         | (34)           |                                  |            |             |
| Coal  |   |             | (4)         |  | 2            | 3              |                                  |            |             |
| Maritime Freight Protection Program                   |   |             | (5)         |  | 2            | (24)           |                                  |            |             |
|   |   | <b>92</b>   | <b>(88)</b> | <b>(3)</b>                               | <b>(78)</b>  | <b>59</b>      |                                  |            |             |
| <b><u>Embedded derivatives:</u></b>                   |   |             |             |  |              |                |                                  |            |             |
| Gas   | (2)   |             |             |  |              |                |                                  |            |             |
| Energy - Aluminum options                             |   | (7)         | (51)        |  |              |                |                                  |            |             |
|   | <b>(2)</b>                                    | <b>(7)</b>  | <b>(51)</b> |  |              |                |                                  |            |             |
| <b><u>Derivatives designated as hedge</u></b>         |   |             |             |  |              |                |                                  |            |             |
| Bunker Oil  |   |             |             | (1)                                      |              | 47             | (1)                              |            |             |
| Aluminum  |   |             |             |  |              |                |                                  | 4          | 31          |
| Strategic Nickel                                      | 172   | 49          | (1)         | (172)                                    | (48)         |                | (149)                            | 211        | (52)        |
| Foreign exchange cash flow hedge                      | (27)  | 37          | 284         | 26                                       | (50)         | (330)          | 29                               | (60)       | (5)         |
|   | <b>145</b>                                    | <b>86</b>   | <b>283</b>  | <b>(147)</b>                             | <b>(98)</b>  | <b>(283)</b>   | <b>(121)</b>                     | <b>155</b> | <b>(26)</b> |
| <b>Total</b>  | <b>(120)</b>                                  | <b>75</b>   | <b>631</b>  | <b>(493)</b>                             | <b>(565)</b> | <b>(1,225)</b> | <b>(121)</b>                     | <b>155</b> | <b>(26)</b> |



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Unrealized gains (losses) in the period are included in our income statement under the gains (losses) on derivatives, net.

Final maturity dates for the above instruments are as follows:

|                             |              |
|-----------------------------|--------------|
| Interest rates / Currencies | January 2023 |
| Gas                         | April 2016   |
| Nickel                      | April 2013   |
| Copper                      | April 2013   |

**27 Subsequent events**

**Sales of Gold by-product**

At February 5, 2013, Vale informed that it has entered into an agreement with Silver Wheaton Corp. ( SLW ), to sell 25% of the payable gold by-product stream from the Salobo copper mine for the life of the mine and 70% of the payable gold by-product stream from its Sudbury nickel mines Coleman, Copper Cliff, Creighton, Garson, Stobie, Totten and Victor for 20 years.

Vale will receive an initial cash payment of US\$ 1.9 billion plus ten million warrants of SLW with a strike price of US\$ 65 and a 10-year term, valued at US\$ 100. US\$ 1.33 billion will be paid for 25% of the gold by-product stream from Salobo while US\$ 570 plus ten million SLW warrants will be paid for 70% of the Sudbury gold by-product stream.

In addition, Vale will also receive future cash payments for each ounce (oz) of gold delivered to SLW under the agreement, equal to the lesser of US\$ 400 per oz (plus a 1% annual inflation adjustment from 2016 in the case of Salobo) and the prevailing market price. Vale may also receive an additional cash payment contingent on its decision to expand the capacity to process Salobo copper ores to more than 28 Mtpy before 2031. The additional amount would range from US\$ 67 to US\$ 400 depending on timing and size of the expansion.

There is no firm commitment from Vale to quantities of gold delivered SLW is entitled not to specific volumes but to a percentage of the gold by-product stream from Salobo and Sudbury. Company will be subject to gold price risk for the SLW's deliveries only if the price of gold drops below the US\$ 400/oz trailing payment.





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**28 Board of Directors, Fiscal Council, Advisory committees and Executive Officers**

**Board of Directors**

Dan Antônio Marinho Conrado

**Chairman**

Mário da Silveira Teixeira Júnior

**Vice-President**

Fuminobu Kawashima

José Mauro Mettrau Carneiro da Cunha

Luciano Galvão Coutinho

Marcel Juvinião Barros

Nelson Henrique Barbosa Filho

Oscar Augusto de Camargo Filho

Paulo Soares de Souza

Renato da Cruz Gomes

Robson Rocha

**Alternate**

Deli Soares Pereira

Eduardo de Oliveira Rodrigues Filho

Eustáquio Wagner Guimarães Gomes

Hajime Tonoki

Luiz Carlos de Freitas

Luiz Maurício Leuzinger

Marco Geovanne Tobias da Silva

Paulo Sergio Moreira da Fonseca

Raimundo Nonato Alves Amorim

Sandro Kohler Marcondes

**Advisory Committees of the Board of Directors**

**Controlling Committee**

Luiz Carlos de Freitas

Paulo Ricardo Ultra Soares

Paulo Roberto Ferreira de Medeiros

**Executive Development Committee**

José Ricardo Sasseron

Luiz Maurício Leuzinger

Oscar Augusto de Camargo Filho

**Strategic Committee**

**Governance and Sustainability Committee**

Gilmar Dalilo Cezar Wanderley

Renato da Cruz Gomes

Ricardo Simonsen

**Fiscal Council**

Marcelo Amaral Moraes

**Chairman**

Aníbal Moreira dos Santos

Antonio Henrique Pinheiro Silveira

Arnaldo José Vollet

**Alternate**

Cícero da Silva

Oswaldo Mário Pêgo de Amorim Azevedo

Paulo Fontoura Valle

**Executive Officers**

Murilo Pinto de Oliveira Ferreira

**President & CEO**

Vânia Lucia Chaves Somavilla

**Executive Director, HR, Health & Safety, Sustainability and Energy**

Luciano Siani Pires

**Chief Financial Officer**

Roger Allan Downey

**Executive Director, Fertilizers and Coal**

José Carlos Martins

**Executive Director, Ferrous and Strategy**

Galib Abrahão Chaim

**Executive Director, Capital Projects Implementation**

Humberto Ramos de Freitas

**Executive Director, Logistics and Mineral Research**

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Murilo Pinto de Oliveira Ferreira  
Dan Antônio Marinho Conrado  
Luciano Galvão Coutinho  
Mário da Silveira Teixeira Júnior  
Oscar Augusto de Camargo Filho

**Finance Committee**

Luciano Siani Pires  
Eduardo de Oliveira Rodrigues Filho  
Luciana Freitas Rodrigues  
Luiz Maurício Leuzinger

Gerd Peter Poppinga  
**Executive Director, Base Metals and IT**

Marcel Botelho Rodrigues  
**Global Controller Director**

Marcus Vinicius Dias Severini  
**Chief Officer of Accounting and Control Department**

Vera Lucia de Almeida Pereira Elias  
**Chief Accountant**  
**CRC-RJ - 043059/O-8**

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**Signatures**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Vale S.A.  
(Registrant)

Date: February 28, 2013

By:

/s/ Roberto Castello Branco  
Roberto Castello Branco  
Director of Investor Relations

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