REGISTERED NUMBER: 00137114 (England and Wales)

#### Strategic Report, Report of the Directors and

Financial Statements for the Year Ended 31 December 2018

<u>for</u>

Vale Europe Limited



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## Company Information for the Year Ended 31 December 2018

DIRECTORS:

S D Stacey

B Tipping M McCann G Gilpin

SECRETARY:

Jordan Company Secretaries Limited

REGISTERED OFFICE:

Suite 1, 3rd Floor 11-12 St. James's Square

London SW1Y 4LB

REGISTER ED NUMBER:

00137114 (England and Wales)

SENIOR STATUTORY AUDITOR:

Jeremy Thomas

**AUDITOR:** 

KPMG LLP, Statutory Auditor Chartered Accountants 3 Assembly Square Britannia Quay Cardiff CF10 4AX

#### Strategic Report for the Year Ended 31 December 2018

#### REVIEW OF BUSINESS

#### **Products**

The company produces and sells a variety of refined metal products, which can be summaries as follows:

Nickel - pellets and powders: produced not sold

Platinum Group Metals ("PGM")- platinum, palladium, other precious metals.

#### GENERAL MARKET CONDITIONS

#### **Nickel**

London Metals Exchange (LME) nickel prices declined during 4Q18 to an average of US\$ 11,516/t, from US\$ 13,266/t, in 3Q18. Despite this decline, nickel prices were still higher in 2018 at an average US\$ 13,122/t compared to 2017's average of US\$ 10,411/t. Total exchange inventories LME and Shanghai Futures Exchange (SHFE) continued to decline, closing at 223 kt by the end of 2018, down 46% since the end of 2017 indicated tighter fundamentals.

Supply increased approximately 2.3% in 2018 relative to 2017, maintaining its divergent trends among product quality levels: Class I material supply declined (-5.0%) whereas Class II Nickel Pig Iron (NPI) showed material growth (+8.8%) in the same period.

Global stainless-steel production decreased 0.7% in 4Q18 relative 4Q17, while sales of Electric Vehicles (EVs) worldwide grew 63% in 4Q18 relative to 4Q17. Demand for nickel in other applications is mixed, with a positive super alloy sector and underperformed plating sector.

Macroeconomic factors and political uncertainty such as the ongoing trade dispute between major powers introduce volatility to the Base Metals price complex, nickel included. Our near term outlook remains cautiously optimistic as physical market fundamentals remain positive with continued deficits.

Clydach operates as a tolling refinery and therefore the fluctuations in nickel price do not directly the revenues of Vale Europe Limited given all costs are reimbursed. However, over the longer term the nickel price outlook will be a factor in the decision of how to allocate ore feed within the Vale network of operations.

#### **Platinum Group Metals**

Platinum and palladium are heavily used in the production of auto catalysts but are also used in jew ellery. Auto catalysts are used to reduce vehicle emissions and thus demand is tied to both automotive sales as well as policy shift towards low / zero emission.

In 2018, platinum supply reduced by approximately 3.7% predominately on the mine production side which was down approximately 5.5% while recycling increased by 5%. Although supply reduced, demand reduced as well in 2018 by approximately 5.1%. As a result, the market surplus widened in 2018 with platinum prices reflecting fundamentals with a decline in 2018 of 7.2% (from US\$ 948/tr.oz in 2017 to US\$ 879 /tr.oz in 2018).

Palladium on the other hand saw supply increase approximately 5% mainly on the mine production side but also recycling. Demand for palladium decreased approximately 2.3%. Despite this, the market continued to see a deficit in 2018. As a result, palladium prices increased 18.5% (from US\$ 869/tr.oz in 2017 to US\$ 1,030/tr.oz in 2018).

Over the near term, we expect the market dynamics to continue along the same path. We expect demand from automotive to continue to grow but at a slower rate compared to recent years. Physical fundamentals in the market are expected to remain relatively the same with platinum in surplus and palladium in deficit, albeit both much smaller versus 2018 as supply adjusts to demand.

Longer term, we see the rise of EVs as a threat to demand for platinum and palladium as the need for auto catalysts lowers.

Platinum group metals are refined at the Acton site with feed coming both from Vale sources (tolling service) and 3rd parties.

#### Strategic Report for the Year Ended 31 December 2018

#### PRINCIPAL RISKS AND UNCERTAINTIES

From the perspective of the company, the principal risks and uncertainties are largely integrated with the principal risks and uncertainties of the ultimate parent undertaking. However, from a UK perspective there are nevertheless certain risks that the company is exposed to as a result of its operations.

#### Price risk

Company revenues are exposed to commodity price risk. The directors monitor market movements in commodity prices (principally platinum group metals) on a regular basis but do not undertake any further hedging arrangements.

#### Credit risk

The company has implemented policies that require appropriate credit checks on potential customers before sales are made as well as regularly reviewing existing customers' creditworthiness.

#### Liquidity risk

The company actively maintains short-term debt finance that is designed to ensure the company has sufficient funds for operations.

#### Brexit risk

At the time of signing the Directors report no agreement has been reached as to the terms of exit from the EU, and hence there are still risks that at this stage are difficult to quantify reliably. There are still a number of possible outcomes for Brexit, all of which have the potential to change the risk profile of the Company. Although the UK government continue to state that the risk of 'no deal' is unlikely, prudence requires the Company to consider this risk and plans for appropriate mitigation.

Every business in the UK will face similar risks and the main ones are as follows:

With regard to disruption to supply chains the risk in particular is that goods imported are disrupted by additional Customs formalities. If, for example, goods are delayed in clearing customs this could have a knock on effect on production if the necessary feed is not readily available. This in turn could have a knock on effect when shipping refined metals to end customers.

The company has undertaken a review of its supply chain, including meeting with key suppliers, to identify the risks and taken steps to increase inventories in the short term of key raw materials. This will allow operations to continue without any impact to production in the event of a no deal and disruption at the port of entry. The company has also reviewed plans with hauliers to manage through any disruption and identified alternative shipping lines that can be activated within a few days. Furthermore the company has a planned shutdown during May and June this year for maintenance which reduces the demand for supplies during the initial post Brexit period.

With regards to customer supplies the company has already taken steps to move some inventory holdings into warehousing in the Netherlands to provide a buffer during any port disruption.

With regard to people, the Company employs some EU nationals in the UK but does not anticipate any disruption to the operations in the event that restrictions are introduced limiting the ability of EU Nationals to work in the UK.

#### Health, safety and environment (HSE)

The company operates two refineries in the UK and these operations are subject to numerous laws and regulations relating to health, safety and environment. Although we believe that our current operations are in compliance with current regulations, violations of such laws and regulations can lead to fines and penalties. The company's operations are qualified to ISO 14001 (Environmental Management) and OHSAS 1800 (Occupational Health & Safety) Standard. The company is committed to the highest standards of Health, Safety and Environmental practice and HSE managers in each of the operations are tasked with ensuring such practices are maintained. Specialist third party and internal auditors make regular site visits to ensure compliance with local regulations.

#### NICKEL MARKET OUTLOOK 2019

Our long-term outlook for nickel is positive. Nickel in electric vehicle batteries will become an increasingly important source of demand growth particularly as battery chemistries favor higher nickel content due to lower cost and higher energy density. Although capital is starting to flow back into the industry, the timing of investments may increase the lag and widen future deficits.

#### Strategic Report for the Year Ended 31 December 2018

#### KEY PERFORMANCE INDICATORS (KPI'S)

The directors of Vale Europe Limited manage the company's business on a divisional platform, in line with strategic decisions that are made on a global basis by Vale Canada Limited. The directors of Vale Europe Limited provide input to the global decision making process.

Vale Europe Limited essentially acts as an intermediary for the group's global nickel and PGM activities. For this reason, the company's directors believe that an in-depth analysis using key performance indicators is not necessary nor appropriate for an understanding of the development, performance or position of the business of Vale Europe Limited.

Notwithstanding the above, a key element of the performance of Vale Europe Limited relates to the levels of turnover and gross profit. This issue to a reduction of the estimate in relation to the decommissioning liability.

The company's turnover can be split between Nickel sales at the Clydach refinery and PGM sales at the Acton refinery. The turnover was greater at Acton although Clydach achieved a higher level of gross profit due to a reduction of the estimate in relation to the decommissioning liability.

	Clydach	Acton
	£,000	£'000
Turnover	60,425	85,443
Gross Profit	29,070	7,293
Gross Profit.%	48%	9%

#### FUTURE DEVELOPMENTS AND SIGNIFICANT EVENTS

The Company is confident that it will continue to trade and meet its financial obligations for the foreseeable future.

On the 29th June 2018 the company closed the Acton refinery, and is in the process of decommissioning the site.

On the 8th February 2019, it agreed the sale of the Acton land to a 3rd party. The transaction takes the form of a sale and leaseback agreement, with the lease running for the duration of the decommissioning process at zero cost.

Vale Europe will receive the proceeds from the sale less a retention value in February 2019, and expects to conclude the decommissioning and finish the lease period in the early part of 2021.

Acton will be shown in the financial statements as a discontinued operation.

ON BEHALF OF THE BOARD:

B Tipping - Director

Date:

Suite 1, 3<sup>rd</sup> Floor 11-12 St. James's Square London SW1Y 4LB

#### Vale Europe Limited (Registered number: 00137114)

### Report of the Directors for the Year Ended 31 December 2018

The directors present their report with the financial statements of the company for the year ended 31 December 2018.

#### PRINCIPAL ACTIVITY

The principal activities of Vale Europe Limited ("the company") during the year were the refining of nickel and the refining and selling of platinum group metals.

#### DIVIDENDS

No dividends will be distributed for the year ended 31 December 2018.

#### RESEARCH AND DEVELOPMENT

The company continues to be involved in research and development programmes within its various fields of activity, particularly in the development of new and improved production processes.

#### DIRECTORS

S D Stacey has held office during the whole of the period from 1 January 2018 to the date of this report.

Other changes in directors holding office are as follows:

MJ Cox - resigned 31 December 2018 C F Spollen - resigned 15 September 2018 C B Thomson - resigned 31 December 2018 B Tipping - appointed 24 September 2018 M McCann - appointed 24 September 2018

G Gilpin was appointed as a director after 31 December 2018 but prior to the date of this report.

#### FINANCIAL RESULTS AND DIVIDEND

The financial profit for the year ended 31 December 2018 was £29 million (2017: £97 thousand loss). Turnover was £146 million (2017: £147 million).

The retained profit for the year has been transferred to revenue reserves.

#### CHARITABLE AND POLITICAL CONTRIBUTIONS

Contributions to United Kingdom charitable, educational and scientific organisations in 2018 amounted to £16,860 (2017: £30,165). No political contributions were made.

#### **EMPLOYEE PARTICIPATION**

The company continued to consult employees, to provide them systematically with information and to achieve a common awareness of economic and financial factors, by a variety of means including regular meetings between senior management and all employees, a network of consultative committees and the regular publication of financial and other information.

The company has in place profit-sharing or bonus arrangements related to financial performances, in which all employees participate.

#### DISABLED PERSONS

It is the company's policy to give full and fair consideration to applications for employment made by disabled persons, to continue whenever possible the employment of those who have become disabled and to provide equal opportunities for the training and career development of disabled employees. If members of staff become disabled the company continues employment, either in the same or an alternative position, with appropriate retraining being given if necessary.

#### STATEMENT AS TO DISCLOSURE OF INFORMATION TO AUDITOR

So far as the directors are aware, there is no relevant audit information (as defined by Section 418 of the Companies Act 2006) of which the the company's auditor is unaware, and each director has taken all the steps that he ought to have taken as a director in order to make himself aware of any relevant audit information and to establish that the company's auditor is aware of that information.

#### Vale Europe Limited (Registered number: 00137114)

#### Report of the Directors for the Year Ended 31 December 2018

#### **AUDITOR**

The auditors, PWC, Statutory Auditor, will be proposed for appointment at the forthcoming Annual General Meeting.

ON BEHALF OF THE BOARD:

B Tipping - Director

Date:

Suite 1, 3<sup>rd</sup> Floor 11-12 St. James's Square London SW1Y 4LB

#### Statement of Directors' Responsibilities for the Year Ended 31 December 2018

The directors are responsible for preparing the Strategic Report, the Directors' Report and the financial statements in accordance with applicable law and regulations.

Company law requires the directors to prepare financial statements for each financial year. Under that law they have elected to prepare the financial statements in accordance with UK accounting standards and applicable law (UK Generally Accepted Accounting Practice), including FRS 102 The Financial Reporting Standard applicable in the UK and Republic of Ireland.

Under company law the directors must not approve the financial statements unless they are satisfied that they give a true and fair view of the state of affairs of the company and of the profit or loss of the company for that period. In preparing these financial statements, the directors are required to:

- select suitable accounting policies and then apply them consistently;
- make judgements and estimates that are reasonable and prudent;
- state w hether applicable UK accounting standards have been followed, subject to any material departures disclosed and explained in the financial statements;
- assess the company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern; and
- use the going concern basis of accounting unless they either intend to liquidate the company or to cease operations, have no realistic alternative but to do so.

The directors are responsible for keeping adequate accounting records that are sufficient to show and explain the company's transactions and disclose with reasonable accuracy at any time the financial position of the company and enable them to ensure that the financial statements comply with the Companies Act 2006. They are responsible for such internal control as they determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error, and have general responsibility for taking such steps as are reasonably open to them to safeguard the assets of the company and to prevent and detect fraud and other irregularities.

### Report of the Independent Auditor to the Members of Vale Europe Limited

#### Opinion

We have audited the financial statements of Vale Europe Limited ("the company") for the year ended 31 December 2018 which comprise the Income Statement, Statement of Other Comprehensive income, Balance Sheet, Statement of Changes in Equity and related notes, including the accounting policies in note 3.

In our opinion the financial statements:

- give a true and fair view of the state of the company's affairs as at 31st December 2018 and of its profit for the year then ended;
- have been properly prepared in accordance with UK accounting standards, including FRS 102 The Financial Reporting Standard applicable in the UK and Republic of Ireland; and
- have been prepared in accordance with the requirements of the Companies Act 2006.

#### Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (UK) ("ISAs (UK)") and applicable law. Our responsibilities are described below. We have fulfilled our ethical responsibilities under, and are independent of the company in accordance with, UK ethical requirements including the FRC Ethical Standard. We believe that the audit evidence we have obtained is a sufficient and appropriate basis for our opinion.

#### The impact of uncertainties due to the UK exiting the European Union on our audit

Uncertainties related to the effects of Brexit are relevant to understanding our audit of the financial statements. All audits assess and challenge the reasonableness of estimates made by the directors and related disclosures and the appropriateness of the going concern basis of preparation of the financial statements. All of these depend on assessments of the future economic environment and the company's future prospects and performance.

Brexit is one of the most significant economic events for the UK, and at the date of this report its effects are subject to unprecedented levels of uncertainty of outcomes, with the full range of possible effects unknown. We applied a standardised firm-wide approach in response to that uncertainty when assessing the company's future prospects and performance. However, no audit should be expected to predict the unknowable factors or all possible future implications for a company and this is particularly the case in relation to Brexit.

#### Going concern

The directors have prepared the financial statements on the going concern basis as they do not intend to liquidate the company or to cease its operations, and as they have concluded that the company's financial position means that this is realistic. They have also concluded that there are no material uncertainties that could have cast significant doubt over its ability to continue as a going concern for at least a year from the date of approval of the financial statements ("the going concern period").

We are required to report to you if we have concluded that the use of the going concern basis of accounting is inappropriate or there is an undisclosed material uncertainty that may cast significant doubt over the use of that basis for a period of at least a year from the date of approval of the financial statements. In our evaluation of the directors' conclusions, we considered the inherent risks to the company's business model, including the impact of Brexit, and analysed how those risks might affect the company's financial resources or ability to continue operations over the going concern period. We have nothing to report in these respects.

However, as we cannot predict all future events or conditions and as subsequent events may result in outcomes that are inconsistent with judgements that were reasonable at the time they were made, the absence of reference to a material uncertainty in this auditor's report is not a guarantee that the company will continue in operation.

#### Report of the Independent Auditor to the Members of Vale Europe Limited

#### Strategic report and directors' report

The directors are responsible for the strategic report and the directors' report. Our opinion on the financial statements does not cover those reports and we do not express an audit opinion thereon.

Our responsibility is to read the strategic report and the directors' report and, in doing so, consider whether, based on our financial statements audit work, the information therein is materially misstated or inconsistent with the financial statements or our audit know ledge. Based solely on that work:

- we have not identified material misstatements in the strategic report and the directors' report;
- in our opinion the information given in those reports for the financial year is consistent with the financial statements; and
- in our opinion those reports have been prepared in accordance with the Companies Act 2006.

#### Matters on which we are required to report by exception

Under the Companies Act 2006 we are required to report to you if, in our opinion:

- adequate accounting records have not been kept, or returns adequate for our audit have not been received from branches not visited by us; or
- the financial statements are not in agreement with the accounting records and returns; or
- · certain disclosures of directors' remuneration specified by law are not made; or
- we have not received all the information and explanations we require for our audit.

We have nothing to report in these respects

#### Directors' responsibilities

As explained more fully in their statement set out on page 7, the directors are responsible for: the preparation of the financial statements and for being satisfied that they give a true and fair view; such internal control as they determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error, assessing the company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern, and using the going concern basis of accounting unless they either intend to liquidate the company or to cease operations, or have no realistic alternative but to do so.

#### Auditor's responsibilities

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue our opinion in an auditor's report. Reasonable assurance is a high level of assurance, but does not guarantee that an audit conducted in accordance with ISAs (UK) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of the financial statements.

A fuller description of our responsibilities is provided on the FRC's website at <a href="https://www.frc.org.uk/auditorsresponsibilities.">www.frc.org.uk/auditorsresponsibilities</a>.

#### The purpose of our audit work and to whom we owe our responsibilities

This report is made solely to the company's members, as a body, in accordance with Chapter 3 of Part 16 of the Companies Act 2006. Our audit work has been undertaken so that we might state to the company's members those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the company and the company's members, as a body, for our audit work, for this report, or for the opinions we have formed.

Jeremy Thomas (Senior Statutory Auditor) for and on behalf of KPMG LLP, Statutory Auditor

Chartered Accountants 3 Assembly Square Britannia Quay Cardiff CF10 4AX

Date: 1 March 2019

## Income Statement for the Year Ended 31 December 2018

	Notes	2018 Continuing £'000	2018 Discontinued £'000	2018 Total £'000
TURNOVER Cost of sales	4 .	60,425 <u>(31,355</u> )	85,443 (78,204)	145,868 <u>(109,559</u> )
GROSS PROFIT		29,070	7,239	36,309
Distribution costs Administrative expenses		(57) (286)	(74) (4,895)	(131) <u>(5,181</u> )
OPERATING PROFIT		28,727	2,270	30,997
Interest receivable and similar income Interest payable and similar expenses	6 7	1,845 <u>(935</u> )	135 	1,980 <u>(935</u> )
PROFIT BEFORE TAXATION Tax on profit	8	29,637 (1,428)	2,405 (1,406)	32,042 (2,834)
PROFIT FOR THE FINANCIAL YEAR		28,209	<u>999</u>	29,208

## Income Statement for the Year Ended 31 December 2018

	Notes	,	2017 Continuing £'000	2017 Discontinued £'000	2017 Total £'000
TURNOV ER Cost of sales	4		59,061 _(51,277)	87,998 <u>(78,819</u> )	147,059 (130,096)
GROSS PROFIT			7,784	9,179	16,963
Distribution costs Administrative expenses			(286) (862)	(178) <u>(17,290</u> )	(464) <u>(18,152</u> )
			6,636	(8,289)	(1,653)
Other operating income			730	-	730
OPERATING PROFIT/(LOSS)			7,366	(8,289)	(923)
Interest receivable and similar income Interest payable and similar expenses	6 7		1,219 <u>(817</u> )	34 (403)	1,253 (1,220)
PROFIT/(LOSS) BEFORE TAXATION Tax on profit/(loss)	8		7,768 <u>(865</u> )	(8,658) 1,658	(890) <u>793</u>
PROFIT/(LOSS) FOR THE FINANCIAL	YEAR		6,903	(7,000)	<u>(97</u> )

## Statement of Other Comprehensive Income for the Year Ended 31 December 2018

	Notes	2018 £'000	2017 £'000
PROFIT/(LOSS) FOR THE YEAR	•	29,208	(97)
OTHER COMPREHENSIVE INCOME Actuarial gain/ (loss) on pension scheme Deferred tax movement relating to other comprehensive income	18	3,844 (849)	(1,151) (2,966)
OTHER COMPREHENSIVE INCOME FOR THE YEAR, NET OF INCOME TAX		2,995	
TOTAL COMPREHENSIVE INCOME FOR THE YEAR	*	32,203	(4,214)

## Balance Sheet 31 December 2018

, , , , , , , , , , , , , , , , , , , ,		•			
	Notes	2018 £'000	£'000	£'000	2017 £'000
FIXED ASSETS			•		
Tangible assets	10		32,878		33,007
Investments	11		215	•	215
			<del></del>		
		•	33,093		33,222
CURRENT ASSETS					
Stocks	12	2,808		3,647	
Debtors	13	145,289		147,992	
Cash at bank		22,840		20,325	
Caon at bank				20,020	
CREDITORS		170,937	•	171,964	
	4.4	40.050		40.505	
Amounts falling due within one year	14 .	10,950		16,565	
NET CURRENT ASSETS	•		159,987		155,399
TOTAL ASSETS LESS CURRENT LIABILITIES			193,080	<del>-</del>	188,621
PROVISIONS FOR LIABILITIES	· 16		(130,334)		(149,586)
PENSION LIABILITY	18		_(16,999)		(25,491)
NET ASSETS			45,747		<u>13,544</u>
•					<del></del>
CAPITAL AND RESERVES					
Called up share capital	17		35,500		35,500
Share premium			32,393		32,393
Retained earnings			(22,146)		(54,349)
SHAREHOLDERS' FUNDS			45,747		13,544

The financial statements were approved by the Board of Directors on th

#### Statement of Changes in Equity for the Year Ended 31 December 2018

	Called up share capital £'000	Retained earnings £'000	Share premium £'000	Total equity £'000
Balance at 1 January 2017	35,500	(50,135)	32,393	17,758
Changes in equity Loss for the year	· -	(97)	· -	(97)
Other Comprehensive Income	<del>-</del>	(4,117)		(4,117)
Balance at 31 December 2017	35,500	(54,349)	32,393	13,544
Changes in equity Profit for the year	-	29,208		29,208
Other Comprehensive Income	· , <u>-</u>	2,995		2,995 ,
Balance at 31 December 2018	35,500	(22,146)	32,393	45,747

#### Notes to the Financial Statements for the Year Ended 31 December 2018

#### 1. STATUTORY INFORMATION

Vale Europe Limited is a private company, limited by shares. It is domiciled in England and Wales, registration number 00137114. The registered office is Suite 1, 3rd Floor, 11-12 St. James's Square, London SW1Y 4LB.

#### 2. STATEMENT OF COMPLIANCE

These financial statements have been prepared in accordance with Financial Reporting Standard 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland" and the Companies Act 2006.

#### 3. ACCOUNTING POLICIES

#### Basis of preparing the financial statements

The financial statements have been prepared under the historical cost convention.

The financial statements contain information about Vale Europe Limited as an individual company and do not contain consolidated financial information as the intermediate parent of a group. The company is exempt under the provisions of S401 of the Companies Act 2006 from the requirement to prepare consolidated financial statements as it and its subsidiary undertakings are included by full consolidation in the consolidated financial statements of its ultimate parent, Vale S.A., a company incorporated in Brazil.

#### Financial Reporting Standard 102 - reduced disclosure exemptions

The company has taken advantage of the following disclosure exemptions in preparing these financial statements, as permitted by FRS 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland":

- the requirements of Section 4 Statement of Financial Position paragraph 4.12(a)(iv);
- the requirements of Section 7 Statement of Cash Flows:
- the requirements of Section 11 Financial Instruments paragraphs 11.39 to 11.48A;
- the requirements of Section 12 Other Financial Instruments paragraphs 12.26 to 12.29;
- the requirement of Section 33 Related Party Disclosures paragraph 33.7.

#### Revenue recognition

Turnover is measured at the fair value of the consideration received or receivable, excluding discounts, rebates, value added tax and other sales taxes.

Turnover comprises revenue from the sale of refined precious metals, income from third party toll refining agreements, the net proceeds from back to back precious metal sales and income from tolling arrangements relating to intergroup metal processing.

Sales of precious metal are recorded as revenue upon transfer of title. Revenue in respect of third party tolling agreements is recognised when the refining contract is substantially complete. Revenue in respect of intergroup tolling arrangements is recognised on a straight-line basis over the period of the agreements. Revenue is recorded net of value added tax.

### Notes to the Financial Statements - continued for the Year Ended 31 December 2018

#### 3. ACCOUNTING POLICIES - continued.

#### Fixed assets

The cost of fixed assets is their purchase cost, together with any incidental cost of acquisition. Land and buildings cost includes capitalised elements of the decommissioning and closure provision which relate to the dismantling and removal of relevant assets. Changes in the estimate of these costs are recognised through fixed assets.

Depreciation is calculated so as to write off the cost of tangible fixed assets, less their estimated residual values, on a straight-line basis over the expected useful economic lives of the assets concerned. The principal annual rates used for this purpose are:

Land and buildings - 2.5 - 10%

Plant and machinery - 4 - 20%

Fixtures, fittings, tools and equipment - 4 - 14%

Freehold land is not depreciated.

Assets in the course of construction include costs incurred in the design and planning of assets prior to the commencement of their construction, where the construction of the asset can be anticipated with reasonable certainty.

#### Impairment of value

At each reporting date fixed assets and investments are reviewed to determine whether there is any indication that those assets/investments have suffered an impairment loss. If there is an indication of possible impairment, the recoverable amount of any affected asset/investment is estimated and compared with its carrying amount. If the estimated recoverable amount is lower, the carrying amount is reduced to its estimated amount, and an impairment loss is recognised immediately in the profit and loss account.

If an impairment loss subsequently reverses, the carrying amount of the asset/investment is increased to the revised estimate of its recoverable amount, but not in excess of the amount that would have been determined had no impairment loss been recognised for the asset/investment in prior years. A reversal of an impairment loss is recognised immediately in the profit and loss account.

#### Stocks

Stocks are valued at the lower of cost and estimated selling price less costs to sell. Cost includes an appropriate share of production overheads.

#### **Taxation**

Taxation for the year comprises current and deferred tax. Tax is recognised in the Income Statement, except to the extent that it relates to items recognised in other comprehensive income or directly in equity.

Current or deferred taxation assets and liabilities are not discounted.

Current tax is recognised at the amount of tax payable using the tax rates and laws that have been enacted or substantively enacted by the balance sheet date.

#### Taxation

Deferred tax is recognised in respect of all timing differences that have originated but not reversed at the balance sheet date.

Timing differences arise from the inclusion of income and expenses in tax assessments in periods different from those in which they are recognised in financial statements. Deferred tax is measured using tax rates and laws that have been enacted or substantively enacted by the year end and that are expected to apply to the reversal of the timing difference.

Unrelieved tax losses and other deferred tax assets are recognised only to the extent that it is probable that they will be recovered against the reversal of deferred tax liabilities or other future taxable profits.

#### Research and development

Research and development costs are charged to the profit and loss account as incurred.

#### Exchange rates

Transactions in foreign currencies are translated into sterling at the foreign exchange rate ruling at the date of the transaction. Assets and liabilities in foreign currencies are translated into sterling at rates ruling at the year end. Exchange differences are taken to the profit and loss account.

### Notes to the Financial Statements - continued for the Year Ended 31 December 2018

#### 3. ACCOUNTING POLICIES - continued

#### Pension costs

The company operates a defined benefit scheme. Pension scheme assets are measured using market value. Pension scheme liabilities are measured using the projected unit actuarial method and are discounted at the current rate of return on a high quality corporate bond of equivalent terms and currency to the liability. The difference between the market value of the assets of the scheme and the present value of the accrued pension liabilities are shown as a liability on the balance sheet and is presented separately after other net assets on the face of the balance sheet. The increase in the present value of the liabilities of the company's defined benefit pension scheme expected to arise from employee service in the period is charged to operating profit. The expected return on the schemes' assets and the increase during the year in the present value of the schemes' liabilities arising from the passage of time are included in other finance income. Actuarial gains and losses are recognised in the other comprehensive income statement.

Pension schemes' surpluses, to the extent that they are considered recoverable, or deficits are recognised in full and presented on the face of the balance sheet.

The company operates a defined contribution plan. This is a post-employment benefit plan under which the company pays fixed contributions into a separate entity and will have no legal or constructive obligation to pay further amounts. Obligations for contributions to defined contribution pension plans are recognised as an expense in the profit and loss account in the periods during which services are rendered by employees.

#### Going concern

The company's business activities, together with the factors likely to affect its future development and position, are set out in the Strategic and Directors' Report.

The company has significant financial resources and the directors believe that the company will be able to manage its business risks successfully despite the current economic outlook.

The directors have a reasonable expectation that the company has adequate resources to continue in business for the foreseeable future. Thus, they continue to adopt the going concern basis of accounting in preparing the financial statements.

#### Basic financial instruments

#### 1. Trade and other debtors / creditors

- Trade and other debtors are recognised initially at transaction price less attributable transaction costs.
- Trade and other creditors are recognised initially at transaction price plus attributable transaction costs
- Subsequent to initial recognition they are measured at amortized cost using the effective interest
  method, less any impairment losses in the case of trade debtors.

#### 2. Cash and cash equivalents

· Cash and cash equivalents comprise cash balances and call deposits.

#### Investments

Investments are stated at cost less any provision for impairment.

### Notes to the Financial Statements - continued for the Year Ended 31 December 2018

#### 3. ACCOUNTING POLICIES - continued

#### **Provisions**

Provisions are recognised only when there is a present obligation (legal or constructive) resulting from a past event, and it is probable that the settlement of this obligation will result in an outflow of resources, and the amount of the obligation can be reasonably estimated. Provisions are measured at the present value of the expenditure expected to be required to settle an obligation using a pre-tax rate which reflects current market assessments of the time value of money and risks specific to the obligation.

Provision obligations relating to the dismantling and removal of fixed assets that do not relate to production are included in the cost of the asset; other provision obligations are expensed.

Provisions are recognised for annual leave accrued by employees as a result of services rendered in the current period, and which employees are entitled to carry forward and use within the next 12 months. The provision is measured at the salary cost payable for the period of absence.

#### Discontinued operations

Discontinued operations are components of the company that have been closed down and are part of a single co-ordinated plan to dispose of a separate major line of business or geographical area of operation.

They are included in the profit and loss account in a separate column for the current period, and re-presented for the prior period so that the disclosure relates to all operations that have been discontinued by the end of the reporting period.

#### 4. TURNOVER

The turnover and profit (2017 - loss) before taxation are attributable to the one principal activity of the company.

An analysis of turnover by class of business is given below:

	Nickel, platinum group metals	£'000 145,868	£'000 147,059
	;	145,868	147,059
•	An analysis of turnover by geographical market is given below:		
		2018 £'000	2017 £'000
	Europe	38,587	42,973
	Asia	1,857	1,566
	Americas	105,411	102,452
	Other	13	68
		145,868	147,059
5.	EMPLOYEES AND DIRECTORS		
		2018	2017
	•	£'000	£'000
	Wages and salaries	14,043	16,632
	Social security costs	1,912	2,060
	Other pension costs	4,279	4,042
		20,234	22,734
	The average number of employees during the year was as follows:		
		2018	2017
	Nickel, platinum group metals		304

2018

2017

# Notes to the Financial Statements - continued for the Year Ended 31 December 2018

#### 5. EMPLOYEES AND DIRECTORS - continued

٠	Directors' remuneration Directors' long term incentive schemes	2018 £ 535,016 24,703	2017 £ 726,075 70,286
	J The number of directors to whom retirement benefits were accruing was as follows:	~	<del></del> .
	Money purchase schemes Defined benefit schemes	2 2	· 1 · 2
	Information regarding the highest paid director is as follows:	2018	2017
	Emoluments etc Accrued pension at 31 December 2018	£ 209,353	£ 348,332 90,737
6.	INTEREST RECEIVABLE AND SIMILAR INCOME		
	, , , , , , , , , , , , , , , , , , ,	2018 £'000	2017 £'000
	Interest receivable from group undertakings Interest receivable from third parties	1,832 	1,208 45
		1,980	<u>1,253</u>
7.	INTEREST PAYABLE AND SIMILAR EXPENSES		•
		2018 £'000	2017 £'000
	Interest on pension scheme liabilities Expected return on pension scheme assets	4,801 (3,867)	5,087 <u>(3,867</u> )
	Net interest expense on net defined benefit pension liability ( note 18 ) Other charges	934 1	1,220 -
		935	1,220
8.	PROFITI(LOSS) BEFORE TAXATION		
	Profit/(loss) before taxation is stated after charging/(crediting) the following amounts:		
		2018 £'000	2017 £'000
	Depreciation (owned assets) Hire of plant and machinery - operating leases Foreign exchange (gain)/loss on operating activities Impairment of assets Stock write off	2,914 442 2,102 0 . 0	7,336 425 818 15,580 862
•.	Auditor's remuneration: Audit of these financial Statements Audit of UK Pension Scheme	. 84 10	79 10

## Notes to the Financial Statements - continued for the Year Ended 31 December 2018

#### 9. TAXATION

Analysis of the tax charge/(credit)			
The tax charge/(credit) on the profit for the year was as follow	ws:	2018	2017
•		£'000	£'000
Current tax:	•	4 674	0.067
UK corporation tax Adjustment in respect of	•	1,671	2,367
prior period		<u>198</u>	317
Total current tax		1,869	2,684
Deferred tax	•	965	(3,477)
Tax on profit/(loss)		2,834	<u>(793</u> )
		•	
UK corporation tax has been charged at 19% (2017 - 19.25%	6).		
Reconciliation of total tax charge/(credit) included in pro The tax assessed for the year is lower than the standard explained below:		x in the UK. The	difference i
·		2018	2017
•		£'000	£'000
Profit/(loss) before tax		32,042	<u>(890</u> )
Profit/(loss) multiplied by the standard rate of corporation tax	in the UK of		
19% (2017 - 19.250%)		6,088	(171)
Effects of:	•		•
Expenses not deductible for tax purposes		(4,417)	2,679 <sup>-</sup>
Income not taxable for tax purposes  Adjustments to tax charge in respect of previous periods		- 198	(141) 317
deferred tax balances			011
Adjustment for deferred tax		<u>965</u>	<u>(3,477)</u>
Total tax charge/(credit)		2,834	<u>(793</u> )
Tax effects relating to effects of other comprehensive in	come		
	•	2018	
	Gross	Tax	Net
•	£'000	£'000	£'000
Actuarial gain/ (loss) on pension scheme	<u>3,844</u>	<u>(849</u> )	2,995
		2017	
	Gross	Tax	Net
	£'000	£'000	£'000

The current UK tax rate that has been used for the period is 19%.

Actuarial gain/ (loss) on pension scheme

A reduction in the UK corporation tax rate from 20% to 19% (effective from 1 April 2017) was substantively enacted on 26 October 2015. Further reductions to 18% (effective 1 April 2020) were substantively enacted on 26 October 2015, and an additional reduction to 17% (effective 1 April 2021) was substantively enacted on 6 September 2016. This will reduce the company's future current tax charge accordingly. The deferred tax asset at 31 December 2018 has been calculated based on these rates.

(4,117)

(2,966)

(1,151)

### Notes to the Financial Statements - continued for the Year Ended 31 December 2018

#### 10. TANGIBLE FIXED ASSETS

TANGIBLE TIALD ASSETS					•
	Freehold	Plant and	Fixtures and	Assets in course of	
	property £'000	machinery £'000	fittings £'000	construction £'000	Totals £'000
COST					
At 1 January 2018	36,217	101,267	7,526	1,436	146,446
Additions	· -	· -	, <u>-</u>	4,654	4,654
Disposals	٠ ـ	(260)	-	·	(260)
Change in estimate of		, ,		•	` ′
decommissioning obligation	(1,867)	-	-	-	(1,867)
Reclassification/transfer	835	3,769	41	(4,645)	
				•	
At 31 December 2018	<u>35,185</u>	<u> 104,776</u>	7,567	1,445	148,973
DEPRECIATION					
At 1 January 2018	29,300	79,712	4,427	_	113,439
Charge for year	566	1,986	362	_	2,914
Eliminated on disposal	-	(258)	-		(258)
Emmated on disposal					(200)
At 31 December 2018	29,866,	81,440	4,789	-	116,095
.,,					
NET BOOK VALUE			•		
At 31 December 2018	5,319	23,336	2,778	1,445	32,878
					<del></del>
At 31 December 2017	6,917	21,555	3,099 `	1,436	33,007
	<del></del>				

#### 11. FIXED ASSET INVESTMENTS

Investment in subsidiary undertakings:

Subsidiary undertaking £'000

Cost and net book value at 31 December 2017 and 31 December 2018

215

At 31 December 2018 the company's investment in subsidiary undertakings comprised the following:

	Country of incorporation	Business activity	-	at 31 December 2018	Loss year to 31 December 2018
			%	£'000	£'000
Vale Taiwan Ltd	Taiw an	Nickel Refining	100	<u>-1,511</u>	nil

In the opinion of the directors, the investment in Vale Taiw an Limited is not worth less that its carrying value in the financial statements.

#### 12. STOCKS

•				2010	2017
				£'000	£'000
Stocks	,	• •		2,808	<u>3,647</u>
			74		

In the opinion of the directors there is no material difference between the stated amount of stocks and their replacement value.  $\sim$ 

# Notes to the Financial Statements - continued for the Year Ended 31 December 2018

		•	
13.	DEBTORS	2018	2017
		£'000	£'000
	Amounts falling due within one year: Trade debtors	44	134
	Amounts ow ed by group undertakings	125,912	108,330
	Other debtors	399	1,070
	Corporation Tax Debtor	409	
	Deferred tax asset VAT	1,788 16,737	3,602 25,933
		<u>145,289</u>	<u>139,069</u>
	Amounts falling due after more than one year:		•
	Other debtors		8,923
	Aggregate amounts	145,289	147,992
	Aggregate amounts	140,203	141,352
	Amounts owed by group undertakings includes loans made to Vale Canada The loans are considered short term, repayable on demand and accrue interest The elements of deferred tax asset are as follows:		
•		. 2018 £'000	2017 £'000
	Difference between accumulated depreciation and amortisation and		
	capital allowances	, 1,359	988
	Other timing differences	(257)	(257)
	Deferred tax on pension liability	(2,890)	(4,333)
	Deferred tax asset	(1,788)	(3,602)
•			
	The movement on the deferred tax asset in relation to the pension liability is set out below:		
			Deferred tax
			on pension liability
			£'000
	A4.1 January 2010	•	(4 222)
	At 1 January 2018 Charged to the profit and loss account during the year		(4,333) 594
	Charged to the other comprehensive statement		849
	4104 B 1 2040		(0.000)
	At 31 December 2018		(2,890)
14.	CREDITORS: AMOUNTS FALLING DUE WITHIN ONE YEAR		
	<i>*</i>	2018	2017
	Trade creditors	£'000 2,371	£'000 3,858
	Corporation Tax Creditor	-	425
	Social security and other taxes	801	509 .
	Other creditors Amounts owed to group	7,664	11,659
	undertakings	114	114
		40.050	40 505
		<u>10,950</u>	16,565
	·		

### Notes to the Financial Statements - continued for the Year Ended 31 December 2018

#### 15. LEASING AGREEMENTS

16.

At 31 December 2018 the company has non-cancellable, operating lease commitments payable as follows:

			2018 £'000	2017 £'000
Within one year Within two to five years After five years	,		371 961 <u>392</u>	465 514
			1,724	979
Further capital expenditure not provided in	financial statements:			
	. ,		2018 £'000	2017 £'000
Contracts placed			<u>3,336</u>	9,007
PROVISIONS FOR LIABILITIES	t			
	Decommissioning and closure	Holiday Pay	Total	
At 1 January 2018 Utilised during the year	£'000 149,310 -	£'000 276 (97)	£'000 149,586 (97)	
Charged to the profit and loss account: Change in estimate of obligation Deducted from cost of fixed assets	(17,850). (1,305)	- 	(17,850) (1,305)	
At 31 December 2018	130,155	179	130,334	

The decommissioning and closure provision relates to the environmental clean-up and decommissioning costs that the Company will incur upon closure of the sites.

The discount rates used in discounting the decommissioning and closure provision to its present value is 0%, reflecting a risk free rate that matches the expected timing of the cash-flows.

The holiday pay provision represents holiday balances accrued as a result of services rendered in the current period and which employees are entitled to carry forward. The provision is measured as the salary cost payable for the period of absence.

#### 17. CALLED UP SHARE CAPITAL

Allotted, issue	ed and fully paid:			•	
Number:	Class:	•	Nominal	2018	2017
		•	value:	£'000	£'000
71,000,000	Ordinary	•	50p	35,500	35,500
	•				

## Notes to the Financial Statements - continued for the Year Ended 31 December 2018

#### 18. EMPLOYEE BENEFIT OBLIGATIONS

#### Defined benefit scheme

The company sponsors a defined benefit pension scheme (the Vale Europe Pension Plan) for its employees in the UK. The Scheme is funded by payment of contributions from the company to a trustee administered fund. Benefits were built up in the Scheme during the year on a "final earnings" basis, whereby the associated pension benefits are calculated with reference to a member's Final Pensionable Earnings at retirement or on leaving the Scheme, if earlier.

On leaving the Scheme the benefits allow for revaluation to retirement in line with price inflation as measured by the Retail Prices Index, subject to a maximum of 5% per annum compound. In addition to the benefits under the Plan, the company pays discretionary pension increases directly to certain pensioners. The present values of these discretionary pensions are included in these disclosures, as are the payments and corresponding company contributions.

The last full actuarial valuation was for 31st December 2015.

Present value of funded defined benefits obligations         178,025 (161,026)         186,446 (161,026)         186,446 (160,955)           Deficit         16,999         25,491           Movement in present value of defined benefit obligation         2018 £017 £000 £000         2017 £000 £000           At 1 January         186,446 £183,279 £000 £000         3,837 £000 £000           At 1 January         186,446 £183,279 £000 £000         3,837 £000 £000           Actuarial losses and (gains)         (9,607) £013 £013 £013 £013 £013 £013 £013 £013		2018 £'000	2017 £'000
Movement in present value of defined benefit obligation         2018 £000 £000           At 1 January         186,446 183,279           Service cost         3,970 3,837           Interest cost         4,801 5,087           Actuarial losses and (gains)         (9,607) 4,613           Curtailment gain         0 (3,300)           Benefits paid         ) (7,585) (7,070)           At 31 December         178,025 186,446           Movement in fair value of plan assets         2018 2017 £000           Expected return on plan assets         3,867 3,867 3,867 3,867 3,867 3,867 Actuarial (losses) / gains         (5,763) 3,463 (0,7070)           Actuarial (losses) / gains         (5,763) 3,463 (0,7070)           Actuarial paid         (7,585) (7,070)           At 31 December         161,026 160,955           Expense recognised in the profit and loss account         2018 2017 £000           Expense recognised in the profit and loss account         2018 2017 £000           Current service cost         3,970 3,837 (0,700)           Net interest on defined benefit liability         934 1,220 (0,330)           Cuttailment gain         0 (3,300)			•
At 1 January         186,446         183,279           Service cost         3,970         3,837           Interest cost         4,801         5,087           Actuarial losses and (gains)         (9,607)         4,613           Curtailment gain         0         (3,300)           Benefits paid         (7,585)         (7,070)           At 31 December         178,025         186,446           Movement in fair value of plan assets         2018         2017           £'000         £'000         £'000           At 1 January         160,955         149,673           Expected return on plan assets         3,867         3,867           Actuarial (losses) / gains         (5,763)         3,463           Contributions by employer         9,552         11,022           Benefits paid         (7,585)         (7,070)           At 31 December         161,026         160,955           Expense recognised in the profit and loss account         2018         2017           £'000         £'000         £'000           Current service cost         3,970         3,837           Net interest on defined benefit liability         934         1,220           Curtailment gain         0	Deficit	<u>16,999</u>	25,491
At 1 January         186,446         183,279           Service cost         3,970         3,837           Interest cost         4,801         5,087           Actuarial losses and (gains)         (9,607)         4,613           Curtailment gain         0         (3,300)           Benefits paid         (7,585)         (7,070)           At 31 December         178,025         186,446           Movement in fair value of plan assets         2018         2017           £'000         £'000         £'000           At 1 January         160,955         149,673           Expected return on plan assets         3,867         3,867           Actuarial (losses) / gains         (5,763)         3,463           Contributions by employer         9,552         11,022           Benefits paid         (7,585)         (7,070)           At 31 December         161,026         160,955           Expense recognised in the profit and loss account         2018         2017           £'000         £'000         £'000           Current service cost         3,970         3,837           Net interest on defined benefit liability         934         1,220           Curtailment gain         0		•	
Service cost Interest	Movement in present value of defined benefit obligation		
Interest cost         4,801         5,087           Actuarial losses and (gains)         (9,607)         4,613           Curtailment gain         0         (3,300)           Benefits paid         )         (7,585)         (7,070)           At 31 December         178,025         186,446           Movement in fair value of plan assets         2018         2017           K 1 January         160,955         149,673           Expected return on plan assets         3,867         3,867           Actuarial (losses) / gains         (5,763)         3,463           Contributions by employer         9,552         11,022           Benefits paid         (7,585)         (7,070)           At 31 December         161,026         160,955           Expense recognised in the profit and loss account         2018         2017           Expense recognised in the profit and loss account         2018         2017           Evaluation of the profit and loss account         2018         2017           Evaluation of the profit and loss account         2018         2017           Evaluation of the profit and loss account         2018         2017           Evaluation of the profit and loss account         2018         2017 <td< td=""><td></td><td></td><td></td></td<>			
Actuarial losses and (gains)         (9,607)         4,613           Curtailment gain         0         (3,300)           Benefits paid         (7,585)         (7,070)           At 31 December         178,025         186,446           Movement in fair value of plan assets         2018         2017           É'000         £'000         £'000           At 1 January         160,955         149,673           Expected return on plan assets         3,867         3,867           Actuarial (losses) / gains         (5,763)         3,463           Contributions by employer         9,552         11,022           Benefits paid         (7,585)         (7,070)           At 31 December         161,026         160,955           Expense recognised in the profit and loss account         2018         2017           Expense recognised in the profit and loss account         2018         2017           E'000         £'000         £'000           Current service cost         3,970         3,837           Net interest on defined benefit liability         934         1,220           Curtailment gain         0         (3,300)			
Curtailment gain Benefits paid         0 (3,300) (7,585)         (7,070)           At 31 December         178,025         186,446           Movement in fair value of plan assets         2018 £000         2017 £000           At 1 January         160,955         149,673           Expected return on plan assets         3,867 3,867         3,867           Actuarial (losses) / gains         (5,763) 3,463         3,463           Contributions by employer         9,552 11,022         11,022           Benefits paid         (7,585) (7,070)         (7,070)           At 31 December         161,026 160,955           Expense recognised in the profit and loss account         2018 2017 2000         2000           Current service cost         3,970 500         3,837 200           Net interest on defined benefit liability         934 1,220 200         1,220 200           Curtailment gain         0 (3,300)         0 (3,300)			
Benefits paid         (7,585)         (7,070)           At 31 December         178,025         186,446           Movement in fair value of plan assets         2018         2017           £'000         £'000         £'000           At 1 January         160,955         149,673           Expected return on plan assets         3,867         3,867           Actuarial (losses) / gains         (5,763)         3,463           Contributions by employer         9,552         11,022           Benefits paid         (7,585)         (7,070)           At 31 December         161,026         160,955           Expense recognised in the profit and loss account         2018         2017           £'000         £'000         £'000           Current service cost         3,970         3,837           Net interest on defined benefit liability         934         1,220           Curtailment gain         0         (3,300)			
Movement in fair value of plan assets         2018 £000         £000           At 1 January         160,955         149,673           Expected return on plan assets         3,867 3,867         3,867           Actuarial (losses) / gains         (5,763) 3,463         2018         2017           Contributions by employer         9,552 11,022         11,022           Benefits paid         (7,585) (7,070)         (7,585)         (7,070)           At 31 December         161,026 160,955         160,955           Expense recognised in the profit and loss account         2018 2017 £000         2000           Current service cost         3,970 3,837         3,837           Net interest on defined benefit liability         934 1,220         1,220           Curtailment gain         0 (3,300)         1,300		-	
£ 1 January       £ 000       £ 000         Expected return on plan assets       3,867       3,867         Actuarial (losses) / gains       (5,763)       3,463         Contributions by employer       9,552       11,022         Benefits paid       (7,585)       (7,070)         At 31 December       161,026       160,955         Expense recognised in the profit and loss account       2018       2017         £'000       £'000         Current service cost       3,970       3,837         Net interest on defined benefit liability       934       1,220         Curtailment gain       0       (3,300)	At 31 December	<u> 178,025</u>	<u> 186,446</u>
At 1 January       £'000       £'000         Expected return on plan assets       3,867       3,867         Actuarial (losses) / gains       (5,763)       3,463         Contributions by employer       9,552       11,022         Benefits paid       (7,585)       (7,070)         At 31 December       161,026       160,955         Expense recognised in the profit and loss account       2018       2017         £'000       £'000         Current service cost       3,970       3,837         Net interest on defined benefit liability       934       1,220         Curtailment gain       0       (3,300)	Movement in fair value of plan assets	2018	2017
Expected return on plan assets       3,867       3,867         Actuarial (losses) / gains       (5,763)       3,463         Contributions by employer       9,552       11,022         Benefits paid       (7,585)       (7,070)         At 31 December       161,026       160,955         Expense recognised in the profit and loss account       2018       2017         £'000       £'000         Current service cost       3,970       3,837         Net interest on defined benefit liability       934       1,220         Curtailment gain       0       (3,300)		£'000	£'000
Expected return on plan assets       3,867       3,867         Actuarial (losses) / gains       (5,763)       3,463         Contributions by employer       9,552       11,022         Benefits paid       (7,585)       (7,070)         At 31 December       161,026       160,955         Expense recognised in the profit and loss account       2018       2017         £'000       £'000         Current service cost       3,970       3,837         Net interest on defined benefit liability       934       1,220         Curtailment gain       0       (3,300)	At 1 January	160,955	149,673
Contributions by employer Benefits paid         9,552 (7,585)         11,022 (7,070)           At 31 December         161,026         160,955           Expense recognised in the profit and loss account         2018 £'000         2017 £'000           Current service cost Net interest on defined benefit liability         934 1,220 (3,300)         1,220 (3,300)	Expected return on plan assets	3,867	3,867
Benefits paid         (7,585)         (7,070)           At 31 December         161,026         160,955           Expense recognised in the profit and loss account         2018 £'000         2017 £'000           Current service cost         3,970         3,837           Net interest on defined benefit liability         934         1,220           Curtailment gain         0         (3,300)			
At 31 December         161,026         160,955           Expense recognised in the profit and loss account         2018 £'000         2017 £'000           Current service cost         3,970         3,837           Net interest on defined benefit liability         934         1,220           Curtailment gain         0         (3,300)			
Expense recognised in the profit and loss account	Benefits paid	<u>(7,585</u> )	<u>(7,070</u> )
£'000         £'000           Current service cost         3,970         3,837           Net interest on defined benefit liability         934         1,220           Curtailment gain         0         (3,300)	At 31 December	<u>161,026</u>	160,955
£'000         £'000           Current service cost         3,970         3,837           Net interest on defined benefit liability         934         1,220           Curtailment gain         0         (3,300)			
Net interest on defined benefit liability 934 1,220 Curtailment gain 0 (3,300)	Expense recognised in the profit and loss account		
Net interest on defined benefit liability 934 1,220 Curtailment gain 0 (3,300)	Current service cost	3 970	3 837
Curtailment gain		•	
Total 4,904 1,757			
	Total	4,904	1,757

The total amount recognised in the other comprehensive income statement in respect of actuarial gains and losses is £3,844,000 gain (2017: £1,151,000 loss).

### Notes to the Financial Statements - continued for the Year Ended 31 December 2018

#### 18. EMPLOYEE BENEFIT OBLIGATIONS (Cont.)

Cumulative actuarial losses reported in the other comprehensive income statement are £105,384,000 (2017: £109,228,000).

The major categories of scheme assets as a percentage of total scheme assets are:

·			2018	2017
Equities Fixed interest gilts Index-Linked gilts Corporate bonds		Ÿ	40.3% 19.9% 10.2% 29.6%	45% 18% 9% <u>28</u> %
			100% 100%	·
Actual return on scheme assets		-	(1,896)	7,330
Principal assumptions			٠	
The principal actuarial assumptions at the balance	ce sheet date were:			
	2018			2017
Discount Rate	2.90%			2.60%
Interest on assets	2.60%			2.60%
Inflation (RPI)	3.55%			3.50%
Inflation (CPI)	2.55%			2.50%
Rate of increase of salaries	4.30%		-	4.25%
Rate of increase of pensions in payment:				
Fixed	0.00%			0.00%
RPI (Max 5%)	3.40%			3.35%
RPI (Max 2.5%)	2.35%			2.30%
			PA YOB, CMI	
•	S2 PA YOB, CMI 2017 Rate of			
Dec and an area of the	improvement of 1.25% Pa for		formales and	
Pre-retirement mortality	males and 1% pa for females		, DV 70D 044	females
	S2 PA YOB, CMI 2017 rate of		PA YOB, CM	
	improvement of 1.25% pa for		mprovement o formales and	
Post retirement mortality	males and 1% pa for females		TOT TIMES AND	females
Withdraw als	Scheme scale		Sche	me scale
	Members are assumed to	Me	mbers are ass	
	commute pension benefits at	comn	nute pension b	enefits at
•	retirement for cash lump sums	re	etirement for c	ash lump
	equal to 75% of the maximum	5	sums equal to	75% of the
Cash Commutation	permitted		maximum p	ermitted
	•			

#### Defined contribution scheme

The company operates a defined contribution pension scheme. The pension cost charge for the period represents contributions payable by the company to the scheme and amounted to £230,584 (2017: £275,384).

#### 19. POST BALANCE SHEET EVENT

On 8th February we agreed the sale of the Acton land to a 3rd party. The transaction takes the form of a sale and leaseback agreement with the lease running for the duration of the decommissioning process. Vale Europe will receive the proceeds from the sale less a retention value in 2019 and expects to conclude the decommissioning and finish the lease period in the early part of 2021. The value of the sale was £67 million, plus VAT.

2010

2017

### Notes to the Financial Statements - continued for the Year Ended 31 December 2018

#### 20. ACCOUNTING ESTIMATES AND JUDGEMENTS

In preparing these financial statements, the company has made judgements, estimates and assumptions that affect the application of the accounting policies and the reported amounts of assets, liabilities, income and expenses. Actual results may differ from these estimates. Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to estimates are recognised prospectively.

Key Estimates and assumptions have been made in the following areas:

Useful life of tangible assets - this has been based on past experience of the life of an asset.

Recoverability of debtors - this has been based on past experience.

Shelf life of stock - this has been based on a review of the items and condition.

Deferred tax asset - this has been based on a review of the balance.

Decommissioning and closure provision - this has been based on advice from external experts.

#### 21. IMMEDIATE AND ULTIMATE PARENT UNDERTAKING

The immediate parent undertaking is Vale Inco Europe Holdings. The ultimate parent undertaking and controlling party is Vale S.A., a company incorporated in Brazil.

Vale S.A. is the parent undertaking of the largest group of undertakings to consolidate these financial statements at 31 December 2018. The consolidated financial statements of Vale S.A. can be obtained from Vale S.A. Praia De Botafogo 186 Offices 701 - 1901, Botafogo 22250-145, Rio de Janeiro, Brazil.

Vale Canada Limited is the parent undertaking of the smallest group of undertakings to consolidate these financial statements.