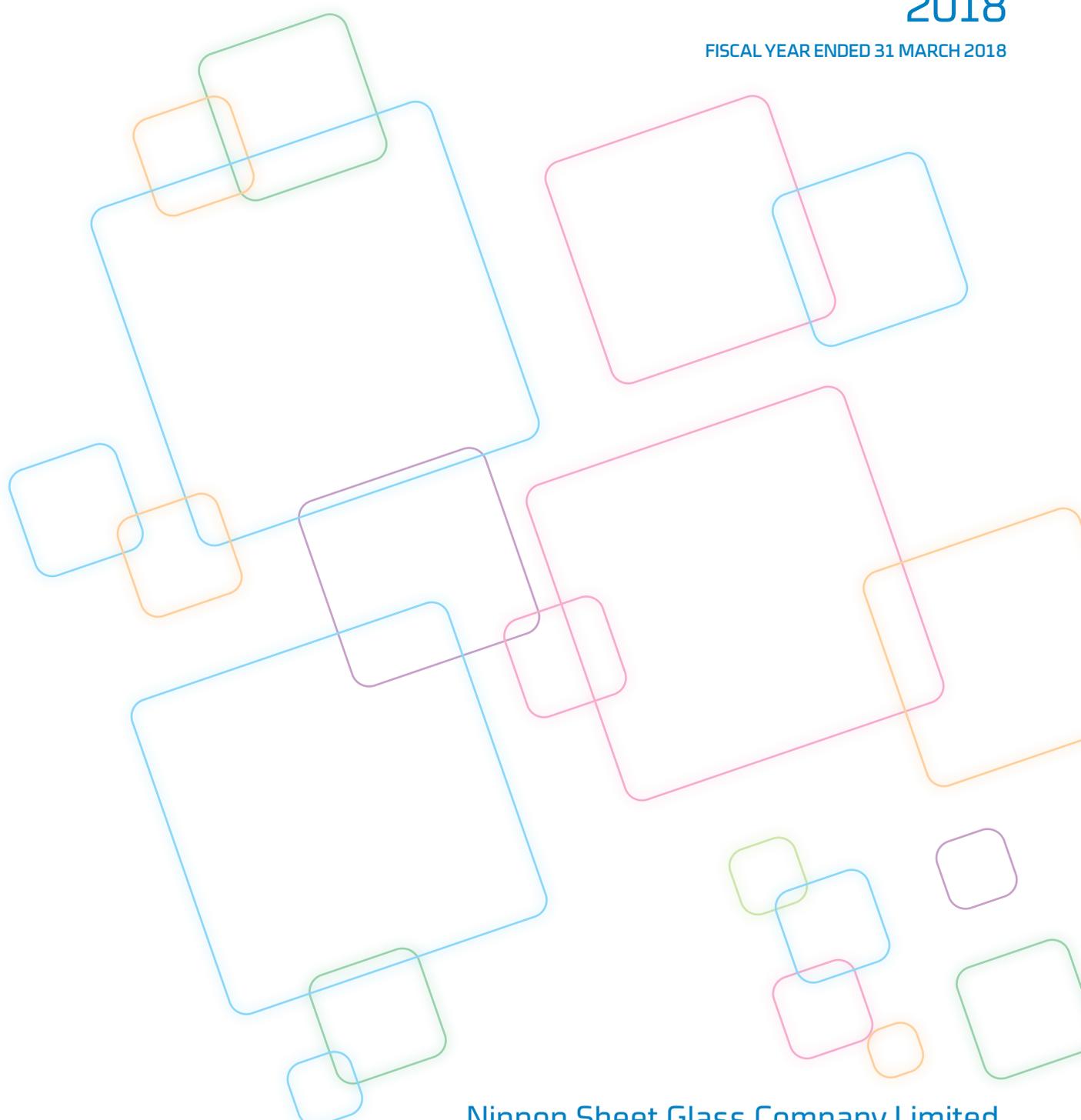


ANNUAL CONSOLIDATED FINANCIAL STATEMENTS

2018

FISCAL YEAR ENDED 31 MARCH 2018



BUSINESS AND OTHER RISKS

This information does not form part of the audited consolidated financial statements of the Nippon Sheet Glass Company, Limited and is provided purely for the information of the investors.

Business and other risks

The Group regularly reviews the principal financial and operating risk factors considered relevant to its current business activities and financial position. An updated analysis of the principal financial and operating risk factors facing the Group is presented below. Any references to future events in the below are based on what the Group judged as effective as at the end of this financial year.

There were no material issues or events occurring during the year that cast doubt on the ability of the Group to continue to operate as a going concern for the foreseeable future.

Economic conditions

The majority of the Group's products are sold in the Japanese, European and North American markets, with these markets representing 24 percent, 40 percent and 19 percent, respectively, of net sales for the year ended 31 March 2018. The majority of sales made outside of these three areas are in emerging markets such as South America. Over the long-term, the Group expects that its growth in emerging markets is likely to exceed its growth in more mature markets, and therefore the proportion of Group sales recorded in such markets is likely to increase in the future. Such markets may be considered to have a more significant level of risk than the more mature markets in which the Group operates. Changes in the business environments of the Group's customers and any geopolitical issues around the world might affect the Group's business, and if economic conditions or particular business environments in these regions of the Group's major markets and emerging markets deteriorate, this could have a significant negative effect on the Group's financial performance and financial position.

Dependency on certain specified industries and sectors

The Group's Architectural and Automotive businesses together account for over 90 percent of Group revenues for the year ended 31 March 2018. In FY2018, the Group's Architectural and Automotive business accounted for 40 percent and 52 percent of sales to external customers respectively. Products are principally provided to customers in the construction, housing and automotive industries. These industries have historically experienced swings in demand in response to cyclical changes in consumer confidence, and this is likely to continue to be the case in the future.

The Group is working to increase its revenues generated from value-added glass products that generate higher than average margins, and are typically sold into markets with significant growth prospects. Such products would normally have a lower level of cyclical volatility than commodity products, and are therefore less likely to be effected by deteriorating economic conditions. However there can be no assurance that such products will continue to enjoy higher than average margins, or that the markets for such products will continue to grow at higher than average rates. In addition, technological advances by other glass manufacturers in these areas could lead to an increased level of competition with a resulting erosion of profit margins for value-added products.

The Automotive business is also working to diversify its customer base. In recent years there has been a significant level of consolidation in the Automotive industry, leading to increased purchasing power for the Group's automotive customers. If such consolidation continues then this could mean that the Group's automotive customer base becomes more concentrated.

Competition

The Group competes with domestic and overseas glass product manufacturers. The Group also competes with material manufacturers of various plastic, metal and other materials used in the Architectural, Automotive and/or IT sectors. Although the Group endeavors to ensure a competitive edge in the provision of original technologies and products in these markets, if the Group is unable to ensure a competitive advantage due to changes in market needs or due to the emergence of a manufacturer providing low-cost products, or due to a manufacturer with a solid customer base and a high level of name recognition, or if our competitors receive governmental subsidies which are not available to us, there could be an adverse effect on the Group's financial performance and financial position.

Development of new products and technological innovation

The Group focuses on developing original technologies and products in its existing business fields and on developing new products in non-exploited business fields. The new product development process could require considerable time and expenses, and the Group might be requested to invest considerable amounts of capital and resources before achieving revenues from the sale of new products. Should any competitor launch a similar product in the target market earlier than the Group, or if alternative technologies and products are preferred by the market, the previous investment in the Group's product development might not produce the profits initially expected. Should the Group be unable to predict or respond to an anticipated technological innovation and/or succeed in the development of a new product that sufficiently meets customers' needs, such failure in product development or technological innovation could adversely affect the Group's businesses, financial performance and financial position.

Funds necessary for future business operations

The Group might have additionally to raise funds to 1) launch new products, 2) conduct business or R&D projects, 3) extend manufacturing capacity, 4) acquire a supplementary business, technology or service, 5) implement cost-saving initiatives and restructuring projects, or 6) repay maturing debt. If such funds cannot be raised under the intended conditions or at all, the Group might not be able to invest in the expansion, development or reinforcement of any product or service, capitalize on an opportunity for business development, or ensure higher competitiveness to its competitors, or the Group's financial position could be negatively affected.

Overseas operations

The Group has many production facilities in numerous areas around the world including Japan, elsewhere in Asia, Europe, North America, and South America.

The Group has various joint venture operations, investments, alliances and subsidiary operations in emerging markets such as South America, Russia, China. The Group believes that the stakes it holds in these operations are an important part of its strategy to keep its manufacturing capacities in these regions. In recent years the Group has impaired certain of these investments, resulting in an exceptional charge within the Group's income statement. There can be no assurance that there will not be a further deterioration in the underlying markets faced by the Group's affiliates and subsidiaries in these regions. Consequently, there can be no assurance that the Group will not have to recognize further impairments with respect to these businesses in the future. In addition, the Group could face

unexpected losses from these investments if it becomes difficult to continue an operation as a result of disagreements with its joint venture partners or other partners regarding business operation policy or for other reasons.

Risk involved in the suspension of production

The Group undertakes regular anti-disaster inspections and the maintenance of facilities in order to minimize the potential adverse effects that might be caused by the suspension of production activity. Nevertheless, the potential adverse effects on production facilities due to a natural disaster (including an earthquake, an electric power outage or any other type of event that causes a suspension of the Group's or of its customers' production) cannot always be prevented or mitigated. In some cases, certain types of products manufactured at a Group facility might not be able to be produced by another facility. Consequently, in case that production activity is suspended at a facility due to an earthquake or any other similar event, the possibility of considerably reduced production capacity for certain specific product(s) could adversely affect the Group's financial performance and financial position. The Group insures against such events but there can be no guarantee that such insurance will fully compensate the Group in all circumstances.

Fluctuations in foreign exchange and interest rates

The Group has manufacturing operations in a variety of different countries around the world. Consequently, the Group is exposed to the risk of fluctuations in foreign exchange and interest rates associated with those countries. In addition, as the assets and liabilities denominated in local currencies are translated into yen when consolidated financial statements are prepared, the Group might be exposed to the risk of fluctuations in foreign exchange rates. Furthermore, fluctuations in interest rates might affect the values of interest expenses, interest income or financial assets and liabilities. Although the Group aims to hedge these risks, such fluctuations in foreign exchange and interest rates could adversely affect the Group's businesses, financial performance and financial position.

Changes in supply of raw materials and fuel, and distribution of products

Specific raw materials, such as silica sand and soda ash, and fuels, such as fuel oil and natural gas, are critical to the glass manufacturing process. Fluctuations in the cost of supplying raw materials and fuel may adversely affect the Group's financial performance and financial condition. The Group uses commodity derivatives and swap contracts to hedge the effect of fluctuations in the market prices for raw materials and fuel. However, there can be no assurance that such measures can eliminate the impact of future increases in the prices of raw materials and fuel.

The Group has entered into purchase agreements with selected suppliers of raw materials and fuel for medium and long-term fixed prices. The Group also sells its products through third party distributors in addition to its own distribution channels. If, for some reason, the Group's relationship with a major supplier or distributor ended, or such suppliers failed to perform their contractual obligations, the Group may have to enter into agreements with less favorable terms and conditions, or the supply of raw materials and the distribution of products may be impeded. This may result in the Group's financial performance and financial condition being adversely affected.

Retirement Benefit Obligations

The Group operates numerous corporate pension plans and healthcare benefit plans for retiring employees. In the event of large fluctuations in the market value of the Group's pension assets, discount rates used to calculate pension liabilities, or mortality assumptions used in the calculation of pension liabilities, the Group may be obliged to contribute additional funds into the schemes.

While providing appropriate retirement benefit plans for our employees, the Group regularly reviews its retirement benefit obligations in order to reduce the risk to the Group. In recent years the Group has taken actions such as reducing the risk profile of assets within asset backed schemes, hedging longevity risks of certain groups of pensioners, and capping pensionable salaries for certain groups of active employees. However, there can be no assurance that such actions will be completely effective in eliminating the risk of increasing cash outflows into the Group's pension schemes in the future.

Legal restrictions

The Company and its subsidiaries and affiliates are subject to local and international regulations regarding investments, imports and exports, fair competition rules, regulations for environmental conservation, and other laws regarding business transactions, labor, intellectual property rights, income tax, currency control and so forth of the respective countries and regions where they operate. Any change to these laws and regulations or operation thereof could adversely affect the Group's financial performance and financial position through limitation of the Group's business activities or imposition of expenses to be disbursed regarding legal compliance or penalty fees, and their subsequent claims for damages based on civil liability, to the Group by reason of infringement of any of the relevant laws and regulations.

Business strategies

The Group's business strategies are affected by a variety of factors, including the economic environment, the price of raw materials, foreign exchange rates, and the development and provision of new technologies and products. However, there can be no assurances that, under these conditions, the Group's business plan will be successful, or that the intended results of the business strategies through the success of the strategy will be achieved. Furthermore, it is possible that the proposed execution of the Group's business plan will not be delivered, or that the intended effects will not be realized.

The Group invests intensively in shifting from relatively low margin products to value-added products which require advanced technology in order to keep its competitive advantages. However, there can be no assurance that the Group can succeed in development of higher technology earlier than its competitors, or, as a result, can ensure higher competitiveness than its competitors.

Intellectual property rights

Patents and other intellectual property rights are an important competitive factor in the Group's operation. However, there can be no assurance that the Group will always be successful in adequately protecting our intellectual property rights. In addition, the Group conducts its operations globally, which increases the risk of disputes between the Group and third parties over intellectual property rights. Any such infringements or disputes could have a negative impact on the Group's business, financial performance and financial condition.

BUSINESS AND OTHER RISKS

Civil liability

If individuals are injured as a result of defects in the Group's products, the Group could be subject to claims for damages based on product liability. In addition, the occurrence of the claim could negatively affect the Group's reputation.

The Group strives to ensure that its products are of the highest quality. However, if unexpected quality problems occur, the Group may need to conduct a major recall. If this happens, the Group's reputation may be harmed and its financial performance and financial position may be adversely affected.

Environmental laws and regulations

The Group is subject to a variety of environmental laws and regulations. Although the Group makes efforts to implement a variety of measures in regard to product development and manufacturing process in order to have a beneficial environmental impact and comply with the relevant laws and regulations, there can be no assurance that the Group can achieve expected results through those measures. Also, any change to these laws and regulations or operation thereof could adversely affect the Group's financial performance and financial position through limitation of the Group's business activities or imposition of expenses to be disbursed regarding legal compliance or penalty fees to the Group by reason of infringement of any of the relevant laws and regulations.

Evaluation and impairment of balance sheet assets

The Group has a considerable value of assets included on its balance sheet that must be tested annually for impairment. Such assets include, but are not limited to, goodwill and intangible assets arising on the acquisition of Pilkington plc, and deferred taxation assets arising largely from historic taxable losses generated in certain territories. In recent years, the Group has concluded that an impairment of goodwill was required with respect to its Automotive Rest of World cash generating unit. There can be no assurance that

further impairments of goodwill with respect to that cash generating unit will not be required in the future, and there can also be no assurance that goodwill held with respect to other cash generating units will not also be required in the future. In particular, if the performance of the Group in the future does not improve to the extent that has been assumed in previous impairment tests, then impairments of such assets in the future will be more likely.

Whilst the Group has recorded various write-downs of deferred tax assets following its annual review of the realization profile of such assets in recent years, there can be no assurance that there will not be further similar write downs in the future. In particular the current tax environment globally is one of falling corporate tax rates. In FY2018, the Group incurred a deferred tax write-down in the U.S.A following a reduction in federal tax rates in that country. Whilst such reductions are generally beneficial for the Group, they result in a reduction in the Group's net asset balance in the short-term. There may be further accounting write-downs in the future arising on the application of reduced tax rates to the deferred tax assets recognized on the Group's balance sheet.

Information security

The Group owns and uses various kinds of confidential information and data related to its business activities. Controls over information technology systems are increasingly important to enable the Group to control such information and data appropriately and manage the operations efficiently. The Group makes efforts in sufficiently protecting such confidential information and its information systems, but in case the information system and the business activities are disrupted or any confidential information leaks externally due to any events such as natural disasters, telecommunications failures, computer viruses and cyber-attacks, it could have a material adverse effect on the Group's financial performance and financial position.

CONSOLIDATED INCOME STATEMENT

Nippon Sheet Glass Company, Limited and consolidated subsidiaries
For the period ended 31 March 2018

		Millions of yen	
	Note	2018	2017
Revenue	2	603,852	580,795
Cost of sales		(441,887)	(429,122)
Gross profit		161,965	151,673
Other income	3	2,571	1,874
Distribution costs		(54,536)	(51,834)
Administrative expenses		(66,613)	(64,922)
Other expenses	4	(7,724)	(6,929)
Operating profit before exceptional items	2	35,663	29,862
Exceptional items	6	(1,265)	2,921
Operating profit after exceptional items		34,398	32,783
Finance income	8	1,080	1,380
Finance expenses	8	(15,704)	(20,554)
Share of post-tax profit of joint ventures and associates accounted for using the equity method	15	2,403	1,142
Profit before taxation		22,177	14,751
Taxation	9	(4,714)	(7,459)
Adjustment in respect of US tax rate change	9	(9,590)	—
Profit for the period		7,873	7,292
Profit attributable to non-controlling interests	40	1,743	1,687
Profit attributable to owners of the parent		6,130	5,605
		7,873	7,292
Earnings per share attributable to owners of the parent:			
Basic earnings per share (yen)	36	47.90	62.04
Diluted earnings per share (yen)	36	38.65	61.49

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME

Nippon Sheet Glass Company, Limited and consolidated subsidiaries
For the period ended 31 March 2018

		Millions of yen	
	Note	2018	2017
Profit for the period		7,873	7,292
Other comprehensive income:			
Items that will not be reclassified to profit or loss:			
Re-measurement of retirement benefit obligations (net of taxation)	27	1,749	(1,833)
Revaluation of Assets held at Fair Value through Other Comprehensive Income – equity investments (net of taxation)		(6,357)	(6,182)
Share of other comprehensive income of joint ventures and associates accounted for using the equity method		—	33
Sub total		(4,608)	(7,982)
Items that may be reclassified to profit or loss:			
Foreign currency translation adjustments		6,484	(19,190)
Revaluation of Assets held at Fair Value through Other Comprehensive Income – other investments (net of taxation)		(302)	95
Cash flow hedges – fair value gains, net of taxation		1,407	3,073
Sub total		7,589	(16,022)
Other comprehensive income for the period, net of taxation		2,981	(24,004)
Total comprehensive income for the period		10,854	(16,712)
Attributable to non-controlling interests		735	1,388
Attributable to owners of the parent		10,119	(18,100)
		10,854	(16,712)

CONSOLIDATED BALANCE SHEET

Nippon Sheet Glass Company, Limited and consolidated subsidiaries
As at 31 March 2018

	Note	2018	Millions of yen 2017
Assets			
Non-current assets			
Goodwill	11	112,455	105,972
Intangible assets	12	57,389	56,288
Property, plant and equipment	13	252,778	245,157
Investment property	14	413	523
Investments accounted for using the equity method	15	17,655	13,773
Retirement benefit asset	27	27,144	19,227
Trade and other receivables	16	16,310	17,170
Financial assets			
assets held at fair value through other comprehensive income	17	17,290	26,568
derivative financial instruments	18	445	248
Deferred tax assets	20	36,115	41,622
Tax receivables		912	1,270
		538,906	527,818
Current assets			
Inventories	21	108,975	105,514
Construction work-in-progress	22	641	625
Trade and other receivables	16	73,952	68,010
Financial assets			
assets held at fair value through other comprehensive income	17	100	572
derivative financial instruments	18	938	963
Cash and cash equivalents	23	64,801	84,920
Tax receivables		3,569	1,644
		252,976	262,248
Assets held for sale or included in a disposal group held for sale	24	-	126
		252,976	262,374
Total assets		791,882	790,192

CONSOLIDATED BALANCE SHEET

	Note	2018	2017
Millions of yen			
Liabilities and equity			
Current liabilities			
Financial liabilities			
borrowings	25	96,470	78,417
derivative financial instruments	18	1,093	1,393
Trade and other payables	26	133,538	123,794
Taxation liabilities		4,655	2,797
Provisions	28	16,416	14,091
Deferred income	29	2,973	2,733
		255,145	223,225
Non-current liabilities			
Financial liabilities			
borrowings	25	274,185	317,981
derivative financial instruments	18	906	1,595
Trade and other payables	26	752	443
Deferred tax liabilities	20	18,567	15,005
Taxation liabilities		2,307	1,536
Retirement benefit obligations	27	71,937	70,826
Provisions	28	15,903	16,903
Deferred income	29	9,323	8,970
		393,880	433,259
Total liabilities		649,025	656,484
Capital and reserves attributable to the owners of the parent			
Called up share capital	31	116,546	116,463
Capital surplus	32	166,661	166,578
Retained earnings	33	(52,140)	(59,646)
Retained earnings (translation adjustment at the IFRS transition date)		(68,048)	(68,048)
Other reserves	34	(28,685)	(31,201)
Total shareholders' equity		134,334	124,146
Non-controlling interests	40	8,523	9,562
Total equity		142,857	133,708
Total liabilities and equity		791,882	790,192

The financial statements on pages 5 to 68 were approved by the Executive Officers on 29 June 2018.

Executive Officers

Shigeki Mori

Representative Executive Officer
President and Chief Executive Officer

Kenichi Morooka

Representative Executive Officer
Chief Financial Officer

CONSOLIDATED STATEMENT OF CHANGES IN EQUITY

Nippon Sheet Glass Company, Limited and consolidated subsidiaries
For the period ended 31 March 2018

Millions of yen

	Note	Called up share capital 31	Capital surplus 32	Retained earnings 33	Retained earnings (translation adjustment at the IFRS transition date)	Other reserves 34	Total shareholders' equity	Non-controlling interests 40	Total equity
Balance at 31 March 2016		116,449	127,511	(63,502)	(68,048)	(9,301)	103,109	8,902	112,011
Profit for the period		—	—	5,605	—	—	5,605	1,687	7,292
Other comprehensive income		—	—	(1,800)	—	(21,905)	(23,705)	(299)	(24,004)
Total comprehensive income		—	—	3,805	—	(21,905)	(18,100)	1,388	(16,712)
Transactions with owners									
Issuance of preference shares		20,000	20,000	—	—	—	40,000	—	40,000
Share issuance costs		—	(946)	—	—	—	(946)	—	(946)
Transfer of share capital to capital surplus		(20,000)	20,000	—	—	—	—	—	—
Stock options		14	(12)	76	—	8	86	—	86
Dividends paid		—	—	—	—	—	—	(728)	(728)
Issuance and purchase of treasury stock		—	—	—	—	(3)	(3)	—	(3)
Transfer from retained earnings to capital surplus		—	25	(25)	—	—	—	—	—
Balance at 31 March 2017		116,463	166,578	(59,646)	(68,048)	(31,201)	124,146	9,562	133,708
Profit for the period		—	—	6,130	—	—	6,130	1,743	7,873
Other comprehensive income		—	—	1,749	—	2,240	3,989	(1,008)	2,981
Total comprehensive income		—	—	7,879	—	2,240	10,119	735	10,854
Transactions with owners									
Stock options		83	83	—	—	(95)	71	—	71
Dividends paid		—	—	—	—	—	—	(1,774)	(1,774)
Issuance and purchase of treasury stock		—	—	—	—	(2)	(2)	—	(2)
Transfer from other reserves to retained earnings		—	—	(373)	—	373	—	—	—
Balance at 31 March 2018		116,546	166,661	(52,140)	(68,048)	(28,685)	134,334	8,523	142,857

CONSOLIDATED STATEMENT OF CASH FLOWS

Nippon Sheet Glass Company, Limited and consolidated subsidiaries
For the period ended 31 March 2018

		Millions of yen	
	Note	2018	2017
Cash flows from operating activities			
Cash generated from operations	35	53,489	54,523
Interest paid		(11,596)	(20,666)
Interest received		1,021	1,567
Income tax paid		(5,751)	(4,995)
Net cash generated from operating activities		37,163	30,429
Cash flows from investing activities			
Dividends received from joint ventures and associates		2,508	1,104
Purchase of joint ventures and associates		(575)	—
Proceeds on disposal of joint ventures and associates		—	2,005
Proceeds on disposal of business		156	—
Purchases of property, plant and equipment		(31,582)	(24,130)
Proceeds on disposal of property, plant and equipment		4,065	10,403
Purchase of intangible assets		(2,166)	(1,855)
Proceeds on disposal of intangible assets		944	46
Purchase of assets held at fair value through other comprehensive income		(208)	(7)
Proceeds on disposal of assets held at fair value through other comprehensive income		5,313	1,967
Loans advanced to joint ventures, associates and third parties		(500)	(465)
Loans repaid from joint ventures, associates and third parties		1,484	641
Others		202	139
Net cash used in investing activities		(20,359)	(10,152)
Cash flows from financing activities			
Dividends paid to non-controlling interests		(1,774)	(728)
Issuance of preferred shares		—	39,054
Repayment of borrowings	25	(94,736)	(210,499)
Proceeds from borrowings	25	62,624	188,573
Others		(3)	(2)
Net cash generated (used in)/from financing activities		(33,889)	16,398
(Decrease)/increase in cash and cash equivalents (net of bank overdrafts)		(17,085)	36,675
Cash and cash equivalents (net of bank overdrafts) at the beginning of the period	23	79,808	46,162
Effect of foreign exchange rate changes		76	(3,029)
Cash and cash equivalents (net of bank overdrafts) at the end of the period	23	62,799	79,808

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. Summary of significant accounting policies

The principal accounting policies applied in the preparation of these consolidated financial statements are set out below. These policies have been consistently applied to all the periods presented. The Group elected to early adopt IFRS 9 “Financial Instruments” from FY2017 onwards.

Reporting entity

Nippon Sheet Glass Company, Limited (the Company) together with its consolidated subsidiaries (the Group) is a world leader in the supply of flat glass for architectural and automotive applications. In addition, the Group has a number of discreet technical glass businesses, operating in high technology areas.

The parent company of the Group, Nippon Sheet Glass Company, Limited is incorporated and domiciled in Japan and has shares publicly traded on the Tokyo Stock Exchange. The registered office is located at 5-27, Mita 3-chome, Minato-ku, Tokyo, 108-6321, Japan.

Basis of preparation

The consolidated financial statements of the Group have been prepared in accordance with International Financial Reporting Standards (IFRS) as issued by the International Accounting Standards Board (IASB). The consolidated financial statements have been prepared on a historical cost basis, except for investment property, derivative financial instruments and assets held at fair value through other comprehensive income that have been measured at fair value.

The financial statements are presented in Japanese yen and are rounded to the nearest million yen (¥m) except where otherwise indicated.

IFRS standards not relevant for this financial period

Certain new standards, amendments and interpretations to existing standards have been published that are mandatory for the Group's annual accounting periods beginning on or after 1 April 2018 and are considered to be relevant and potentially material to the Group's primary financial statements. The Group has elected not to adopt early the standards as described below:

IFRS 15 ‘Revenue from Contracts with Customers’ addresses the recognition of revenues and will be effective from the Group's financial period commencing 1 April 2018. This new standard will replace IAS 18 ‘Revenue’ and IAS 11 ‘Construction Contracts’. The Group does not expect any material change to its financial performance or position to arise as a consequence of adopting this standard. The main practical change that is expected to arise is that the Group will, in certain circumstances, recognize revenue from the sale of tooling to automotive customers on acceptance of that tooling by the customer. The Group's current policy is to recognize this revenue over the life of the associated automotive supply contract. In some years this may result in more revenue being recognized than would otherwise have been the case, although in other years it may be less. Over the medium-term, no material impact is expected. Certain other more minor accounting policy changes may also arise from adopting this new standard. These would not be expected to have a material impact, either individually or collectively.

IFRS 16 ‘Leases’ addresses the principles for the recognition and measurement of leases, and will be effective from the Group's financial period commencing 1 April 2019. This new standard will replace IAS 17 ‘Leases’ and IFRIC 4 ‘Determining whether an Arrangement contains a Lease’. The Group has not yet calculated the impact of the adoption of this standard.

IFRS 17 “Insurance Contracts” addresses accounting for insurance contracts and will be effective from the Group's financial period commencing 1 April 2021. This new standard will replace IFRS 4 “Insurance Contracts”. The Group has not yet calculated the impact of the adoption of this standard.

Consolidation

(a) Subsidiaries

Subsidiaries are all entities over which the Group has the power to control the financial and operating policies, generally accompanying a shareholding of more than one-half of the voting rights. The existence and effect of potential voting rights arising from equity share options that are currently exercisable or convertible, are considered when assessing whether the Group controls another entity. Subsidiaries where the Group controls more than 50 percent of the voting rights are fully consolidated from the date on which control is transferred to the Group. They are consolidated until the date that control ceases.

The Group uses the acquisition method of accounting to account for business combinations. The consideration transferred for the acquisition of a subsidiary is the fair value of the assets transferred, the liabilities incurred and the equity interests issued by the Group. The consideration transferred includes the fair value of any assets or liabilities resulting from a contingent consideration arrangement. Acquisition-related costs are expensed as incurred. Identifiable assets acquired, and liabilities and contingent liabilities assumed, in a business combination are measured initially at their fair values at the acquisition date.

The excess of the consideration transferred, the amount of any non-controlling interest, based upon the appropriate share of the acquiree's net asset value, and the acquisition-date fair value of any previous equity interest in the acquiree, over the fair value of the Group's share of the identifiable net assets acquired, is recorded as goodwill. If this is less than the fair value of the net assets of the subsidiary acquired in the case of a bargain purchase, the difference is recognized immediately in the consolidated income statement (see Intangible Assets — Goodwill).

Inter-company transactions, balances and unrealized gains on transactions between Group companies are eliminated. Unrealized losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred. All Group companies use a common set of accounting policies, and are consolidated using a common accounting reference date of 31 March.

(b) Non-controlling interests, joint ventures and associates

Non-controlling interests

Changes in the Group's ownership interests in subsidiaries, arising from transactions between the Group and non-controlling interests, that do not result in a change in the Group's control over a subsidiary, are treated as equity transactions and therefore do not result in goodwill, or in gains and losses in the income statement.

Joint ventures

A joint venture is a contractual arrangement whereby the Group and other parties undertake an economic activity, which is then subject to joint control. In the Group, all such jointly controlled activities are undertaken through jointly controlled entities with the Group entitled to a share of the net assets of the jointly controlled entity. Consequently, the Group considers each of its joint arrangements to be joint ventures rather than joint operations. The Group considers that it has no other material contractual arrangements with its joint venture partners, other than the joint venture agreement itself. The Group accounts for its

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

interest in these jointly controlled entities by the equity method of accounting, as described in relation to associates below.

Associates

Associates are all entities over which the Group has significant influence, generally accompanying a shareholding of between 20 and 49 percent of the voting rights. Significant influence is the power to participate in the financial and operating policy decisions of an investee, but is not control or joint control over these policies. Investments in associates are accounted for by the equity method of accounting and are initially recognized at cost. The Group considers that it has no material contractual arrangements with the other investors in each of the Group's associated entities, other than those which arise in the normal course of business. The Group's investment in associates includes goodwill (net of any accumulated impairment loss) identified on acquisition (see Intangible Assets— Goodwill).

The Group's share of its associates' post-acquisition profits or losses is recognized in the income statement, and its share of post-acquisition movements in reserves is recognized in reserves. The cumulative post-acquisition movements are adjusted against the carrying amount of the investment. When the Group's share of losses in an associate equals or exceeds its interest in the associate, including any other unsecured receivables, the Group does not recognize further losses, unless it has incurred obligations or made payments on behalf of the associate.

Unrealized gains on transactions between the Group and its associates are eliminated to the extent of the Group's interest in the associates. Unrealized losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred.

Accounting for joint ventures and associates

Joint ventures and associates are accounted for on the basis of audited accounts, or where these are not available, on the basis of unaudited management accounts prepared up to the Group's accounting date. Where it is not practicable to obtain such accounts, audited accounts or unaudited management accounts prepared to an accounting date not more than three months prior to the Group's accounting date are used. Where appropriate, the financial statements of joint ventures and associates are adjusted to conform to the Group's accounting policies.

Segment reporting

The chief operating decision-making body in the Group is the Board of Directors. The Group reports the results of its operating segments externally in a manner consistent with its internal reporting to the Board of Directors. The Board of Directors is responsible for allocating resources to, and assessing the performance of, the Group's operating segments.

Foreign currency translation

(a) Functional and presentation currency

Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the entity operates (the functional currency). The consolidated financial statements are presented in Japanese yen which is the Company's functional and the Group's presentation currency.

(b) Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at period-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognized in the income statement, except when

deferred in equity as qualifying cash flow hedges and qualifying net investment hedges.

Translation differences on non-monetary items, such as equities classified as assets held at fair value through other comprehensive income, are included in the fair value reserve in equity.

(c) Group companies

The results and financial position of all the Group entities with a functional currency different from the Group's presentation currency (none of which has the currency of a hyperinflationary economy) are translated into the presentation currency as follows:

- assets and liabilities for each balance sheet presented are translated at the closing rate at the date of that balance sheet;
- income and expenses for each income statement are translated at average exchange rates (unless this average is not a reasonable approximation of the cumulative effect of the rates prevailing on the transaction dates, in which case income and expenses are translated at the dates of the transactions); and
- all resulting exchange differences are recognized in the exchange translation reserve, a separate component of equity.

On consolidation, exchange differences arising from the translation of the net investment in foreign entities, and of borrowings and other currency instruments designated as hedges of such investments, are taken to the exchange translation reserve within shareholders' equity. When a foreign operation is sold, such exchange differences are recognized in the income statement as part of the gain or loss on sale.

Exchange differences recognized prior to 31 March 2010 are included in a separate reserve within retained earnings called 'Retained earnings (translation adjustment at the IFRS transition date)'. Exchange differences arising on or after 1 April 2010 are recognized within a separate exchange reserve.

Goodwill, intangibles and fair value adjustments arising on the acquisition of a foreign entity are treated as assets and liabilities of the foreign entity and translated at the closing rate.

Property, plant and equipment

Land and buildings comprise mainly the Group's manufacturing facilities. Land is shown at historical cost (and depreciated and impaired if held on a finance lease). All property (excluding land) and plant and equipment are stated at historical cost less accumulated depreciation and impairment. Historical cost comprises all expenditure that is directly attributable to the acquisition of the items. Cost may also include transfers from equity of any gains/losses on qualifying cash flow hedges of foreign currency purchases of property, plant and equipment.

Borrowing costs are capitalized with respect to material capital expenditure projects, using the Group's marginal cost of borrowing over the period of construction of the asset. Borrowing costs are depreciated over the useful economic life of the asset to which they relate.

Subsequent costs are included in the asset's carrying amount or recognized as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Group and the cost of the item can be measured reliably. All other repairs and maintenance are charged to the income statement during the financial period in which they are incurred.

Freehold land is not depreciated. Depreciation on other assets is calculated using the straight-line method to allocate their cost less their residual values over their estimated useful lives, as follows:

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Freehold buildings	3 to 50 years
Long leasehold land and buildings	lease term or useful economic life
Float glass tanks	10 to 15 years
Glass-making plant	25 years
Glass-processing plant	15 years
Other plant and equipment	5 to 20 years
Vehicles	5 years

The assets' residual values and useful lives are reviewed to take account of technological changes, intensity of use over their lives and market requirements, and adjusted if appropriate, at each balance sheet date. In the event of impairment, an asset's carrying amount is written down immediately to its recoverable amount (see Impairment of Assets).

Gains and losses on disposals are determined by comparing the proceeds with the carrying amount. These are included in the income statement.

Investment property

Investment property principally comprises land, office buildings and small industrial units, and those parts of other properties not occupied by the Group, which are held for long-term rental yields. Investment properties are initially recognized at cost and are thereafter carried at fair value, representing open-market value determined annually by discounted cash flows or by the use of external valuers. Changes in fair value are recorded in the income statement as part of other income and expense.

Intangible assets

(a) Goodwill

Goodwill is tested annually for impairment and carried at cost less accumulated impairment losses. Gains and losses on the disposal of an entity include the carrying amount of goodwill relating to the entity sold.

Goodwill is allocated to cash-generating units for the purpose of impairment testing. Each of those cash-generating units represents the Group's investments in each region of operation by each primary reporting segment (see Impairment of Assets).

(b) Trademarks and licenses

Trademarks and licenses are shown at historical cost. Trademarks and licenses have a finite useful life and are carried at cost less accumulated amortization. Amortization is calculated using the straight-line method to allocate the cost of trademarks and licenses over their estimated useful lives (over a maximum of twenty years).

(c) Computer software

Acquired computer software licenses are capitalized on the basis of the costs incurred to acquire and bring to use the specific software. These costs are amortized over their estimated useful lives (five to ten years).

Costs associated with developing or maintaining computer software programs are recognized as an expense as incurred. Costs that are directly associated with the production of identifiable and unique software products controlled by the Group, which are seen to generate economic benefits exceeding costs beyond one year, are recognized as intangible assets. Direct costs include the software development employee costs and an appropriate portion of relevant overheads.

Computer software development costs recognized as assets are amortized over their estimated useful lives (not exceeding ten years).

(d) Research and development

Research expenditure is recognized as an expense as incurred. Costs incurred on development projects (relating to the design and testing of new or improved products or processes which will be used internally within the Group) are recognized as intangible assets when it is probable that the project will be commercially successful and technologically feasible or will give rise to internally improved processes, and costs can be measured reliably.

Other development expenditure is recognized as an expense as incurred. Development costs previously recognized as an expense are not recognized as an asset in a subsequent period. Development costs with a finite useful life that have been capitalized, are amortized from the date when the product or use of the process becomes available for commercial production on a straight-line basis over the period of its expected benefit, not exceeding five years (products) and twenty years (processes).

(e) Intangible assets created on acquisition

The intangible assets identified on acquisition of the Pilkington Group in June 2006 as part of the fair valuing of the net assets acquired include customer relationships, know-how, license agreements, the Pilkington brand name and other brands, in-process research and development and developed technology. These have been capitalized and are amortized over the estimated life of each category of intangible asset and are amortized on a straight-line basis over the period of their expected benefit to the Group as follows:

Customer relationships	Up to 20 years
Know-how**	10 years
License agreements**	11 years
Pilkington brand name*	Nil
Other brands**	10 years
Research and development	Up to 20 years
Developed technology	Up to 15 years

* The Pilkington brand name has been assigned an indefinite useful life and is therefore not subject to routine amortization, but is instead tested annually for impairment.

** Fully amortized, with remaining book value of nil

Impairment of assets

Assets that have an indefinite useful life are not subject to amortization and are tested annually for impairment. Assets that are subject to amortization are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognized when the asset's carrying amount exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs to sell and value in use.

For the purposes of assessing impairment, assets are grouped at the lowest levels for which there are separately identifiable cash flows (cash-generating units). A number of significant assumptions and estimates are involved in forecasting future cash flows, including market growth rates, sales volumes and market prices. Forecasts of future cash flows are based on best estimates of future revenues and operating expenses using historical trends, market conditions and industry trends. These assumptions are subject to review by management and the Board of Directors. The future forecasts are adjusted by an appropriate discount rate derived from the cost of capital plus a risk premium at the date of the evaluation. The discount rate, based on the pre-tax weighted average cost of capital used in calculating the recoverable value, is set at a rate appropriate to each

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territory, consistent with the rates used to assess the potential impairment of goodwill, detailed in note 11.

Financial risk management

Financial risk factors

The Group's multinational operations and debt financing expose it to a variety of financial risks that include the effects of changes in foreign currency exchange rates, energy prices, debt market prices, interest rates, credit risks, and liquidity. The Group has in place a risk management program that seeks to limit the effects on the financial performance of the Group by using financial instruments.

Financial risk management is carried out by a central treasury department (Group Treasury) under policies approved by the Board of Directors. Group Treasury identifies, evaluates and hedges financial risks in close co-operation with the Group's operating units. The Board provides written principles for overall risk management, as well as written policies covering specific areas, such as foreign exchange risk, energy price risk, use of derivative and non-derivative financial instruments, credit risk, and investing excess liquidity.

(a) Market risk

(i) Foreign exchange risk

The Group operates internationally and is exposed to foreign exchange risk arising from various currency exposures, primarily with respect to the euro, sterling and US dollar. Foreign exchange risk arises from future commercial transactions, recognized assets and liabilities and net investments in foreign operations.

To manage their foreign exchange risk arising from future commercial transactions and recognized assets and liabilities, companies in the Group use forward contracts, transacted with Group Treasury. Foreign exchange risk arises when future commercial transactions and recognized assets and liabilities are denominated in a currency that is not the entity's functional currency. Group Treasury is responsible for managing the net position in each foreign currency by using external forward currency contracts.

Each subsidiary designates contracts with Group Treasury as fair value hedges or cash flow hedges, as appropriate.

External foreign exchange contracts are designated at Group level as hedges of foreign exchange risks on specific assets, liabilities or future transactions on a gross basis.

The Group's risk management policy is to hedge forecast transactions creating the foreign currency exposure provided that such forecast transactions are reasonably certain.

The Group has certain investments in foreign operations, whose net assets are exposed to foreign currency translation risk. Currency exposure arising from the net assets of the Group's foreign operations is managed primarily through borrowings denominated in the relevant foreign currencies.

The Group is exposed to the risk of fluctuations in foreign exchange rates, mainly as the assets, liabilities, incomes and expenses denominated in local currencies are translated into yen when consolidated financial statements are prepared.

All other things being equal, a 1% increase in the value of the yen would lead to a decrease in total equity of ¥3,500 million (2017: ¥3,500 million). Based on the financial results for the year to 31 March 2018, a 1% increase in the value of the yen would result in a decrease in the profit for the period of ¥50 million (2017: ¥150 million).

(ii) Energy price risks

The Group consumes significant amounts of energy and is exposed to energy price risk arising from this consumption, principally of oil and gas.

The Group's risk management policy is to hedge between 20 percent and 100 percent of anticipated purchases for the subsequent 12 months and between 0 percent and 80 percent for the subsequent four years.

(iii) Cash flow and fair value interest rate risk

As the Group has no significant interest-bearing assets, the Group's income and operating cash inflows are substantially independent of changes in market interest rates.

The Group's interest rate risk arises primarily from long-term borrowings. Borrowings issued at variable rates expose the Group to cash flow interest rate risk. Borrowings issued at fixed rates expose the Group to fair value interest rate risk. Group policy is to maintain approximately 30 to 70 percent of net borrowings in fixed rate instruments. All other things being equal, a 1 percent increase in interest rates would result in an increase in annual interest costs on financial balances of ¥1,806 million (2017: ¥1,713 million).

The Group manages its cash flow interest rate risk by using floating-to-fixed interest rate swaps. Such interest rate swaps have the economic effect of converting borrowings from floating rates to fixed rates. Under the interest rate swaps, the Group agrees with other parties to exchange, at specific intervals, the difference between fixed contract rates and floating rate interest amounts calculated by reference to the agreed notional principal amounts.

(b) Credit risk

The Group has no significant concentrations of credit risk other than in relation to the receivables due from automotive original equipment manufacturers. It has policies in place to ensure that sales of products are made to customers with an appropriate credit history. Derivative counterparties are limited to high credit quality financial institutions. The Group has policies that limit the amount of credit exposure to any financial institution.

As set out in note 38, the Group has outstanding loans and receivables owed by joint ventures and associates. The Group manages these balances on an arms-length basis, ensuring that loans and receivables are only advanced to joint ventures and associates where the Group is satisfied that these balances will be repaid.

(c) Liquidity risk

Prudent liquidity risk management policies maintain sufficient cash and cash equivalents and availability of funding through committed credit facilities. Due to the dynamic nature of the underlying businesses, Group Treasury aims to maintain flexibility in funding by keeping a substantial portion of committed credit lines undrawn.

Financial Instruments

The Group classifies its financial instruments in the following categories: financial assets and liabilities at fair value through profit or loss, financial assets and liabilities held at amortized cost, and financial assets held at fair value through other comprehensive income. Management determines the classification of its instruments at initial recognition and re-evaluates this designation at every reporting date. The evaluation considers the characteristics of the cash flows generated by the instruments and the Group's business model rationale for holding the instruments.

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(a) Financial assets/liabilities at fair value through profit or loss

This category has two sub-categories: financial assets held for trading, and those designated at fair value through profit or loss at inception. A financial asset is classified in this category if acquired principally for the purpose of selling in the short term. Derivatives are also categorized as held for trading unless they are designated as hedges. Assets/liabilities in this category are classified as current assets/liabilities if they are either held for trading or are expected to be realized within 12 months of the balance sheet date. With the exception of derivatives not qualifying for hedge accounting, at the balance sheet date the Group does not have any assets or liabilities in this category.

(b) Financial assets and liabilities at amortized cost

Assets within this category are included in the Group's balance sheet as receivables. Receivables are non-derivative financial assets with fixed or determinable payments that are not quoted in an active market. They arise when the Group provides money, goods or services directly to a debtor with no intention of trading the receivable. They are included in current assets, except for maturities greater than 12 months after the balance sheet date and these are classified as non-current assets. Loans and receivables are included in trade and other receivables in the balance sheet.

Liabilities in this category are included in the balance sheet either as financial liabilities – borrowings, or as trade and other payables. Financial liabilities - borrowings predominantly arise from the Group's lending facilities arranged with its banks, classified either as current liabilities for maturities within 12 months, or non-current for maturities later than 12 months. Liabilities in this category have fixed or determinable payments to debt holders and are not quoted in an active market. Trade and other payables arise when the Group receives goods and services from its suppliers and is similarly split into current and non-current liabilities dependent on the time period expected before settlement.

Financial assets and liabilities at amortized cost are carried at amortized cost using the effective interest method, unless the asset or liability arises through the normal course of business with payments terms that indicate that the Group is neither granting a financing arrangement to its suppliers or receiving one from its customers. Where no financing arrangement exists then the asset or liability, classified as a receivable or payable, is held at amortized cost.

Borrowings consist of bonds payable, loans payable, lease obligations and non-controlling interests entitled to receive a fixed share dividend. Borrowings are recognized initially at fair value then subsequently stated at amortized cost. Borrowing transaction costs are expensed in the income statement over the period to the maturity of the related financial liability. Any difference between the proceeds (net of transaction costs) and the redemption value is recognized in the income statement over the period of the borrowings using the effective interest method.

Non-equity preference shares are classified as liabilities and are measured in the balance sheet at their most recent redemption price. The dividends on these preference shares are recognized in the income statement as interest expense. Borrowings are classified as current liabilities unless the Group has an unconditional right to defer settlement of the liability for at least 12 months after the balance sheet date.

The Group applies the expected credit loss method to receivables balances and also considers individual provisions for specific balances where appropriate. This involves considering likely credit losses for a group of receivables using a range of forward looking scenarios. A provision for impairment of trade receivables is established with respect to an individual receivable when there is objective evidence that the

Group will not be able to collect all amounts due according to the original terms of trade. The amount of the provision is the difference between the asset's carrying amount and the present value of estimated future cash flows, discounted at the effective interest rate. The expected credit loss method applied to a group of receivables can result in a provision being created even when on an individual basis, the Group expects each receivable to be converted to cash with no loss arising. The movement in receivables provisions is recognized in the income statement.

Where trade receivables are sold to a financial institution through a securitization program and where the Group does not retain the significant risks and rewards of these receivables, or where the Group retains an element of risk and reward but no longer controls the asset, the Group derecognizes the trade receivables.

(c) Financial assets at fair value through other comprehensive income

Financial assets held at fair value through other comprehensive income are non-derivative financial investments where the Group is unable to exert significant influence over the investee. This category of investment could include equity investments which are not held for trading and irrevocably elected to be measured at fair value through other comprehensive income, or investments that are expected to generate fixed or determinable payments by collecting contracted cash flows and selling financial assets.

Financial assets at fair value through other comprehensive income are initially and subsequently recognized at fair value. Unrealized gains and losses arising from changes in the fair value of such assets are recognized within the statement of comprehensive income and result in a movement within the fair value reserve within equity. The Group assesses at each balance sheet date whether there is objective evidence that a financial asset or a group of financial assets is impaired. When assets that represent fixed interest investments held in this category are impaired, then the Group treats this as a realized loss recognized in the income statement, with historical amounts recycled from reserves through the statement of comprehensive income.

Accounting for derivative financial instruments and hedging activities

Derivatives are initially recognized at fair value on the date a derivative contract is entered into and are subsequently re-measured at their fair value. The method of recognizing the resulting gain or loss depends on whether the derivative is designated as a hedging instrument, and, if so, the nature of the item being hedged and the effectiveness of the hedging arrangement. The Group designates certain derivatives as hedges of the changes in fair value of recognized assets or liabilities or a firm commitment (fair value hedges), hedges of exposure to variability in cash flows associated with an asset or liability or arising from highly probable forecast transactions (cash flow hedges), and hedges of net investments in foreign operations (net investment hedges).

The Group documents at the inception of the transaction the relationship between hedging instruments and hedged items, as well as its risk management objective and strategy for undertaking various hedge transactions. The Group also documents, both at hedge inception and on an ongoing basis, its assessment of whether the derivatives used in hedging transactions are highly effective in offsetting changes in fair values or cash flows of hedged items. For time period related hedges, the cost of hedging is reflected in the income statement on a straight-line basis over the period of the hedge, with the accounting treatments described below relating to movements in the principal value of the hedge.

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(a) Fair value hedge

Changes in the fair value of derivatives, designated and qualifying as fair value hedges, are recorded in either the statement of comprehensive income, if hedging a financial instrument at fair value through comprehensive income, or the income statement if hedging other items. Consequently, the movement in the fair value of the hedging contract is treated in a manner consistent with the movement in the fair value of the item being hedged.

(b) Cash flow hedge

The effective portion of changes in the fair value of derivatives, designated and qualifying as cash flow hedges, is recognized in equity. The gain or loss relating to the ineffective portion is recognized immediately in the income statement.

Amounts accumulated in equity are recycled in the income statement in the periods when the hedged item affects profit or loss (for instance, when the forecast sale that is hedged takes place). However, when the forecast transaction that is hedged results in the recognition of a non-financial asset (for example, inventory) or a liability, the gains and losses previously deferred in equity are transferred from equity and included in the initial measurement of the cost of the asset or liability.

When a forecast transaction is no longer expected to occur, the cumulative gain or loss that was reported in equity is immediately transferred to the income statement.

(c) Net investment hedge

Hedges of net investments in foreign operations are accounted for similarly to cash flow hedges. Any gain or loss on the hedging instrument relating to the effective portion of the hedge is recognized in equity, the gain or loss relating to the ineffective portion is recognized immediately in the income statement.

Gains and losses accumulated in equity are included in the income statement when the foreign operation is disposed of.

(d) Derivatives that do not qualify for hedge accounting

Certain derivative instruments do not qualify for hedge accounting. Changes in the fair value of any derivative instruments, not qualifying for hedge accounting, are recognized immediately in the income statement.

Fair value estimation

The fair value of financial instruments traded in active markets (such as investments at fair value through other comprehensive income) is based on quoted market prices at the balance sheet date. The quoted market price used for financial assets held by the Group is the current bid price. The appropriate quoted market price for financial liabilities is the current offer price. In the event of an indication of a potential impairment, management assess the recoverable value of the asset based on the higher of its value in use and fair value less cost to sell.

The fair value of financial instruments that are not traded in an active market is determined by using valuation techniques. The Group uses a variety of methods and makes assumptions that are based on market conditions existing at each balance sheet date.

The fair values of foreign exchange contracts are determined using forward exchange market rates at the balance sheet date. The fair values of interest rate swaps are calculated as the present value of the estimated future cash flows based on observable yield curves at the balance sheet date. The fair values of commodity hedges are determined by using forward market prices at the balance sheet date.

The fair value of financial liabilities is determined using cash flows discounted using a rate based on credit risk factors and the relevant currency swap rate for the specific maturity, plus a margin.

Unlisted equities are valued using forward-looking projections where available, however in most cases forward-looking projections are not available. Therefore, fair value is determined based on net asset values at balance sheet date.

Inventories

Inventories are stated at the lower of cost and net realizable value. Cost is mainly determined using the first-in, first-out (FIFO) method. The cost of finished goods and work-in-progress comprises design costs, raw materials, direct labor, other direct costs and related production overheads (based on normal operating capacity). Net realizable value is the estimated selling price in the ordinary course of business, less applicable variable selling expenses. Costs of inventories include the transfer from equity of any gains/losses on qualifying cash flow hedges relating to purchases of raw materials.

Inventories carried in the balance sheet are reviewed on a regular basis and, in the case of any inventories which are slow moving, or where the Group considers that it is unlikely to recover the cost of such inventory through subsequent sale, appropriate provisions are made to impair the inventory to its estimated net realizable value.

Construction work-in-progress

Construction work-in-progress is represented by engineering construction contracts for the building, construction and delivery of float glass lines or other assets for third-party customers. Profits are recognized where revenue and contract costs can be reliably estimated and are based on the stage of completion of the contract. Where the outcome cannot be estimated reliably, revenue is only recognized to the extent that it is probable that the contract costs incurred will be recoverable. Where it is probable that the contract costs will exceed the total contract revenue, the expected loss is recognized as an expense immediately in the income statement.

The stage of completion on construction contracts is assessed at regular intervals by the engineering project team and is based on an analysis of construction progress made, order fulfillment, costs incurred and technical completion at the balance sheet date.

Cash and cash equivalents

Cash and cash equivalents include cash in hand, deposits held on call with banks, other short-term highly liquid investments with original maturities of three months or less, and bank overdrafts. Bank overdrafts are shown within borrowings in current liabilities on the balance sheet.

Leases

When entering into a contract that commits the Group to a series of regular cash flows in return for a right to use an asset, the Group considers whether the arrangement contains a lease. In the event that the arrangement represents in substance payment for a service, the Group does not consider the arrangement to be a lease. In other cases, the Group considers the arrangement to be a finance or operating lease as appropriate and accounts for all cash flows on this basis without separating non-lease components.

Assets held under finance leases (in which a significant proportion of the risks and rewards of ownership are retained by the Group) are included in property, plant and equipment or intangible assets at cost and are depreciated/amortized over the shorter of the lease term or their useful economic life. Obligations under finance leases, net of finance charges in respect of future periods, are included as appropriate

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under borrowings due within or after one year. Finance charges are allocated to accounting periods over the lease term to reflect a constant rate of interest on the remaining balance of the obligations.

Where a lease is identified as an operating lease (a lease other than a finance lease), any payments made thereunder (net of any incentives received from the lessor) are charged to the income statement on a straight-line basis over the period of the lease.

Where a sale and lease-back transaction results in the creation of a finance lease, the Group does not recognize a disposal of the asset sold nor any resulting gain or loss. Similarly the Group accounts for the finance lease created as a secured borrowing.

Taxation

Current income taxes for the current period are measured based on the amount expected to be paid to, or recovered from, local taxation authorities.

Deferred income tax is provided in full, using the liability method and without discounting, on temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the consolidated financial statements. However, if the temporary difference arises from initial recognition of an asset or liability in a transaction other than a business combination that at the time of the transaction affects neither accounting nor taxable profit or loss, it is not accounted for. Deferred income tax is determined using tax rates (and laws) that have been enacted or substantially enacted by the balance sheet date and are expected to apply when the related deferred income tax asset is realized or the deferred income tax liability is settled.

Deferred income tax assets are recognized to the extent that it is probable that future taxable profits will be available, against which the temporary differences can be utilized. Deferred income tax is provided on temporary differences arising on investments in subsidiaries and associates, except where the timing of the reversal of the temporary difference is controlled by the Group and it is probable that the temporary difference will not reverse in the foreseeable future.

Deferred taxation liabilities are not recognized on timing differences arising from the initial recognition of goodwill. The Group offsets deferred tax assets and liabilities if a legally enforceable right exists to set off current tax assets against current income tax liabilities and the deferred tax asset and liability are related to the same taxable entity or group of entities and the same taxation authority.

Employee benefits

(a) Pension obligations

The Group operates various pension schemes globally. The schemes are generally funded through payments to insurance companies or trustee-administered funds, as determined by periodic actuarial calculations. The Group has both defined benefit and defined contribution plans.

The liability recognized in the balance sheet in respect of defined benefit pension plans is the present value of the defined benefit obligation at the balance sheet date less the fair value of plan assets. The defined benefit obligation is calculated annually by independent actuaries using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using interest rates of high quality corporate bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating to the terms of the related pension liability.

Retirement benefit assets, net of applicable taxes that would be levied on the refund of a pension surplus, are recognized for schemes in

surplus, when the Group has an unconditional right to a refund of that surplus.

Current service costs, representing the additional liability accrued as a result of employee's services undertaken during the period, are charged to operating costs within the income statement.

Past service costs are recognized immediately in the income statement.

Finance costs are calculated by applying territory specific discount rates to the net defined benefit obligation in that region.

Actuarial gains and losses arising from experience adjustments and changes in actuarial assumptions are taken through the statement of comprehensive income to equity in accordance with IAS 19 'Employee Benefits'.

For defined contribution plans, the Group pays contributions to publicly or privately administered pension insurance plans on a mandatory, contractual or voluntary basis. The Group has no further payment obligations once the contributions have been paid.

Prepaid contributions are recognized as an asset to the extent that a cash refund or a reduction in the future payments is available.

(b) Other post-employment retirement obligations

Group companies in the USA and the UK provide post-retirement healthcare benefits to certain retired employees. The entitlement to these benefits is usually conditional on the employee remaining in service up to retirement age and the completion of a minimum service period. The expected costs of these benefits are accrued over the period of employment using an accounting methodology similar to that for defined benefit pension plans.

Actuarial gains and losses arising from experience adjustments, and changes in actuarial assumptions, are charged or credited to the statement of comprehensive income in accordance with IAS 19. These obligations are valued annually by independent qualified actuaries.

(c) Termination benefits

Termination benefits are payable when employment is terminated before the normal retirement date, or whenever an employee accepts voluntary redundancy in exchange for these benefits. The Group recognizes termination benefits when it is demonstrably committed to either terminating the employment of current employees according to a detailed formal plan without possibility of withdrawal, or providing termination benefits as a result of an offer made to encourage voluntary redundancy.

(d) Profit-sharing, bonus and management incentive plans

The Group recognizes a liability and an expense for bonus schemes, which take into consideration the attainment of profit and cash flow targets. The Group recognizes a provision where contractually obliged or where there is a past practice that has created a constructive obligation.

Provisions

Provisions are recognized when the Group has a present obligation (legal or constructive) as a result of a past event, it is probable that an outflow of resources will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation. When the Group expects some or all of a provision to be reimbursed, for example, under an insurance contract, the reimbursement is recognized as a separate asset, but only when the reimbursement is virtually certain. The expense relating to a provision is presented in the income statement net of any reimbursement. Provisions are not recognized for future losses.

Where there are a number of similar obligations, the likelihood that an

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outflow will be required in settlement is determined by considering the class of obligations as a whole. A provision is recognized even if the likelihood of an outflow with respect to any one item included in the same class of obligations may be small.

All provisions, where the time value of money is material with a settlement date exceeding 12 months, are discounted and carried at their discounted value. The discount is unwound through a charge to finance costs each period until the provision is settled. Discount rates are based on rates applicable in each relevant territory where the provision is carried, consistent with risks specific to the liability.

Revenue recognition

Revenue comprises the fair value for the sale of goods and services, net of value-added or similar sales-based taxes, rebates and discounts and after eliminating sales within the Group. Revenue is recognized as follows:

(a) Sales of goods

Sales of goods are recognized when a Group entity has delivered products to the customer, the customer has accepted the products and collectability of the related receivables is reasonably assured.

Where a product is sold with a right of return, accumulated experience is used to estimate and provide for such returns at the time of sale.

(b) Sales of services

Sales of services are recognized in the accounting period in which the services are rendered, by reference to the completion of the specific transaction, and assessed on the basis of the actual service provided as a proportion of the total services to be provided.

(c) Engineering revenue

Engineering revenue is recognized on engineering construction contracts for the building, construction and supply of float glass lines for third-party customers.

Profits are recognized on such long-term contracts where revenue and contract costs can be reliably estimated and are based on the estimated stage of completion of the contract. Where the outcome of the contract cannot be estimated reliably, revenue is only recognized to the extent that it is probable that the contract costs incurred will be recoverable. In circumstances where it is probable that the total contract costs will exceed the total contract revenue, the expected loss is recognized as an expense immediately in the income statement.

(d) Interest income

Interest income is recognized on a time-apportioned basis using the effective interest method. Interest income on impaired loans is recognized either as cash is collected or on a cost-recovery basis as conditions warrant.

(e) Royalty income

Royalty income is recognized on an accruals basis in accordance with the substance of the relevant agreements.

(f) Dividend income

Dividend income is recognized when the right to receive payment is established.

Exceptional Items

The Group discloses certain gains or losses in the income statement as exceptional items if this is necessary to gain a fair understanding of the Group's operating performance. Exceptional items would usually be material in value and/or would be of a non-recurring nature.

Deferred income

(a) Government grants

The Group recognizes government grants at their fair value where there is reasonable assurance that the grant will be received and all attaching conditions will be complied with. When the grant relates to an expense item, it is recognized as income over the periods necessary to match the grant on a systematic basis to the costs that it is intended to compensate. Where the grant relates to property, plant and equipment, the fair value is credited to deferred income and released to the income statement over the expected useful life of the relevant asset by equal annual installments.

(b) Other deferred income

The Group recognizes other deferred income including customers' contributions to automotive tooling costs at their fair value. The income is recognized in the income statement over the periods necessary to match the write-off of the asset, to which the deferred income relates, by equal annual installments.

Emission rights

Emissions rights granted are recognized on a systematic basis over the period to which they relate. The difference between the emission rights granted and recognized at the balance sheet date, and CO2 emitted is recorded as an asset or liability at fair value at each balance sheet date.

Borrowing costs

Borrowing costs directly attributable to the acquisition, construction or production of qualifying assets, which are assets that necessarily take a substantial period of time to get ready for their intended use or sale, are added to the cost of these assets, until such time as the assets are substantially ready for their intended use or sale. All other borrowing costs are recognized in the consolidated income statement in the period in which they are incurred.

Share capital

Common (ordinary) shares are classified as equity. Preferred shares, that are not mandatorily redeemable with cash or other monetary asset, and where the Group has no contractual obligation to pay cash dividends or to deliver a variable number of the entity's own equity instruments by exercise of any put options attached to the preferred shares, are classified as equity. Incremental costs directly attributable to the issue of new shares or options are shown in equity as a deduction, net of tax, from the proceeds.

Treasury shares

Treasury shares represent the Group's interests in its own equity instruments, and are included within shareholders' funds. Treasury shares are measured at their cost.

Share based payments

The Group operates a number of equity settled, share-based payment plans, under which the entity receives services from directors, executive officers, senior corporate officers and corporate officers as consideration for equity instruments (options) of the Group. The fair value of the employee services received in exchange for the grant of options is calculated using the Black-Scholes model. In accordance with IFRS 2 'Share-based Payment', the resulting cost is recognized in the income statement over the vesting period of the options, being the period in which the services are received. All plans are classified as equity settled.

Discontinued operations and assets held for sale

Discontinued operations include components of the Group that have been disposed of (through sale or abandonment) or are classified as

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

held for sale and represent a major line of the Group's business or geographical area of operations or represent a part of a single coordinated plan to dispose of such a business line or geographical area.

Non-current assets and disposal groups are classified as held for sale if their carrying amount will be recovered principally through a sale transaction rather than through continued use. This condition is regarded as met only when the sale is highly probable and the non-current asset (or disposal group) is available for immediate sale in its present condition. Management must be committed to the sale, which should be expected to be completed within one year.

When the Group is committed to a sale plan involving loss of control of a subsidiary, all of the assets and liabilities of that subsidiary are classified as held for sale when the criteria described above are met, regardless of whether the Group will retain a minority interest in its former subsidiary after the sale.

Assets classified as held for sale are measured at the lower of their previous carrying amount and fair value less costs to sell. Property, plant and equipment and intangible assets classified as held for sale are not depreciated or amortized after classification as held for sale.

Critical accounting estimates and assumptions

Estimates and judgments are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances.

The Group makes estimates and assumptions concerning the future. The resulting accounting estimates will not usually be equal to the resulting actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial period are discussed below.

(a) Estimated impairment of goodwill and intangible assets

The Group tests, on an annual basis, whether goodwill or intangible assets with an indefinite useful life have suffered any impairment, in accordance with the accounting policy stated above.

(b) Income taxes

The Group is subject to income taxes in numerous jurisdictions worldwide. During the normal course of business, there are a significant number of transactions where the final tax determination is uncertain. The Group recognizes liabilities for anticipated tax audit issues based on an estimate of both the value of any additional taxes that may be due and the likelihood that the final tax audit outcome may result in such additional liabilities. In arriving at the total liability to be provided, significant judgment is required. Where the final tax outcome of these matters is different from the amounts provided, any difference is recorded in the period in which that final outcome is known.

(c) Post-retirement benefits

The Group has a variety of post-retirement benefit schemes in various countries in which it operates. Where such schemes are in the nature of a defined benefit arrangement, the Group uses a variety of assumptions in the calculation of the scheme assets and liabilities. These assumptions are subject to a degree of uncertainty and the Group takes advice from professional actuaries before finalizing such assumptions.

(d) Provisions

Provisions are evaluated using either the Group's experience of previous provisions or, where appropriate, using the advice of professional consultants. Claims and litigation provisions are calculated based on discussions with claimants and the Group's legal advisors.

Environmental provisions are calculated based on either currently estimated remediation costs, or, for more material environmental provisions, simulation models, evaluated with the assistance of environmental consultants, which consider a range of possible outcomes. Bonus provisions are estimated based on the Group's current and expected future performance evaluated against the terms of specific bonus schemes. Redundancy and restructuring provisions are estimated using the expected costs of restructuring programs that have been announced prior to the balance sheet date. Warranty provisions are calculated using the Group's experience of previous customer claims rates.

(e) Preferred shares

The Group has considered the terms and conditions attaching to Class A shares, and determined that these shares are classified as equity instruments, as a fixed number of common shares would be delivered to Class A Shareholders in the event of relevant put options being exercised. The Group has no contractual obligation to mandatorily redeem these shares through cash or any other monetary assets. Also, the Group has no contractual obligation to pay dividends although terms of dividends are stipulated in the contract, and any payment of dividends for each relevant period is ultimately determined by the Company's board of directors.

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2. Segmental information

Primary reporting format - by business line

The Group is organized on a worldwide basis into the following principal primary operating segments:

The Architectural segment engages in the manufacturing and sale of flat glass and various interior and exterior glazing products within commercial and residential markets. It also includes glass for the solar energy sector.

The Automotive segment supplies a wide range of automotive glazing for new vehicles and for replacement markets.

The Technical Glass segment comprises a number of discrete businesses, including the manufacture and sale of very thin glass for small displays, lenses and light guides for printers, as well as glass fiber products, such as battery separators and glass components for engine timing belts.

The Other segment covers corporate costs, consolidation adjustments, certain small businesses not included in the segments covered above, and the amortization of other intangible assets related to the acquisition of Pilkington plc.

No operating segments have been aggregated to form the above reportable operating segments.

The segmental results for the periods ended 31 March 2018 and 2017 are as follows:

	Millions of yen				
	2018				
	Architectural	Automotive	Technical Glass	Other	Total
Revenue					
External revenue	241,678	312,681	48,420	1,073	603,852
Inter-segmental revenue	19,322	2,411	372	3,582	25,687
Total revenue	261,000	315,092	48,792	4,655	629,539
Trading profit	26,246	14,250	5,394	(8,196)	37,694
Amortization arising from acquisition of Pilkington plc	—	—	—	(2,031)	(2,031)
Operating profit before exceptional items	26,246	14,250	5,394	(10,227)	35,663
Exceptional items	(4,617)	(2,675)	109	5,918	(1,265)
Operating profit after exceptional items					34,398
Finance costs - net					(14,624)
Share of post-tax profits from joint ventures and associates					2,403
Profit before taxation					22,177
Taxation					(14,304)
Profit for the period					7,873

	Millions of yen				
	2017				
	Architectural	Automotive	Technical Glass	Other	Total
Revenue					
External revenue	237,722	296,560	46,088	425	580,795
Inter-segmental revenue	17,818	1,885	107	5,417	25,227
Total revenue	255,540	298,445	46,195	5,842	606,022
Trading profit	27,044	12,654	1,756	(8,392)	33,062
Amortization arising from acquisition of Pilkington plc	—	—	—	(3,200)	(3,200)
Operating profit before exceptional items	27,044	12,654	1,756	(11,592)	29,862
Exceptional items	(2,082)	2,773	(802)	3,032	2,921
Operating profit after exceptional items					32,783
Finance costs - net					(19,174)
Share of post-tax profits from joint ventures and associates					1,142
Profit before taxation					14,751
Taxation					(7,459)
Profit for the period					7,292

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

2. Segmental information

The Group uses a number of methods to calculate the price of intra-group transactions depending upon the business sector and geographic location. This is largely dependent on local custom and regulations. Usual methods include reference to external market prices or to manufacturing costs plus an appropriate margin.

No significant changes were made in the method of pricing intra-group transactions in the period.

Finance costs include results from cash flow hedges of interest-bearing borrowings that have been reported in the income statement during the period. They also include gains and losses from the re-measuring of interest rate derivatives designated as fair value hedges. Unallocated costs represent corporate Group expenses.

Other information in respect of items (charged) or credited within operating profit, excluding exceptional items, in the income statement are as follows:

						Millions of yen
						2018
	Note	Architectural	Automotive	Technical Glass	Other	Total
Depreciation	13	(10,045)	(13,807)	(1,655)	(886)	(26,393)
Amortization	12	(143)	(571)	(40)	(3,379)	(4,133)
Impairment of property, plant and equipment	13	(47)	(12)	(100)	(23)	(182)
Reversal of prior period impairments of property, plant and equipment	13	13	2	-	-	15
Profit/(loss) on sale of property, plant and equipment		107	206	800	-	1,113
Research and development expenditure		(2,677)	(2,819)	(2,044)	(1,559)	(9,099)
Operating lease rentals						
plant and equipment		(1,424)	(1,737)	(36)	(111)	(3,308)
property		(1,021)	(4,521)	(140)	(1,043)	(6,725)
Bad debts written off		(57)	(236)	-	-	(293)
Net (charge)/credit for doubtful debt provision		(46)	(122)	1	-	(167)
Amortization of deferred income	29	218	2,955	-	32	3,205

						Millions of yen
						2017
	Note	Architectural	Automotive	Technical Glass	Other	Total
Depreciation	13	(10,134)	(13,617)	(2,161)	(830)	(26,742)
Amortization	12	(194)	(525)	(42)	(4,686)	(5,447)
Impairment of property, plant and equipment	13	(82)	(58)	(43)	-	(183)
Reversal of prior period impairments of property, plant and equipment	13	1	-	-	-	1
Profit/(loss) on sale of property, plant and equipment		168	195	1	(6)	358
Research and development expenditure		(2,682)	(2,623)	(1,776)	(1,389)	(8,470)
Operating lease rentals						
plant and equipment		(1,143)	(1,870)	(32)	(120)	(3,165)
property		(677)	(4,282)	(146)	(946)	(6,051)
Bad debts written back/(written off)		69	(61)	-	-	8
Net (charge)/credit for doubtful debt provision		(270)	(83)	2	-	(351)
Amortization of deferred income	29	169	3,039	-	28	3,236

Segmental net trading assets at 31 March 2018 and 2017 and capital expenditure for the periods then ended are as follows:

						Millions of yen
						2018
		Architectural	Automotive	Technical Glass	Other	Total
Segmental net trading assets		133,455	144,863	38,739	6,703	323,760
Capital expenditure (including intangibles)		16,488	14,479	1,737	361	33,065

						Millions of yen
						2017
		Architectural	Automotive	Technical Glass	Other	Total
Segmental net trading assets		131,595	137,393	39,561	2,654	311,203
capital expenditure (including intangibles)		11,585	13,316	1,664	1,448	28,013

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

2. Segmental information

Segmental net trading assets consist of property, plant and equipment, investment properties, intangible assets excluding those arising from a business combination, inventories, construction work-in-progress, trade and other receivables (excluding financial receivables) and trade and other payables (excluding financial payables).

Capital expenditure comprises additions to property, plant and equipment, note 13, and intangible assets, note 12.

Secondary reporting format - by revenue category and geographical location

	Millions of yen	
	2018	2017
Analysis of revenue by category		
Sale of glass and glass-related products	583,617	562,667
Sales of services	1,876	718
Royalty and licensing income	625	698
Engineering contracts	4,806	3,945
Other sundry sales	12,928	12,767
	603,852	580,795

The Group's revenue from its external customers based on the geographical location of those customers is as follows:

	Millions of yen	
	2018	2017
Revenue		
Japan	142,894	142,952
Europe	236,461	214,591
North America	116,641	114,870
Rest of World	107,856	108,382
	603,852	580,795

No individual customer accounts for more than 10 percent of total revenues of the Group.

The total of non-current assets, other than retirement benefit assets, financial instruments, deferred tax assets, trade and tax receivables, located in Japan is ¥60,545 million (2017: ¥61,038 million), UK ¥199,629 million (2017: ¥182,752 million) and the total of these non-current assets located in other countries is ¥180,516 million (2017: ¥177,923 million).

3. Other income

	Millions of yen	
	2018	2017
Dividend income on assets held at fair value through other comprehensive income	256	118
Gains on settlements of insurance proceeds	-	4
Profit on disposals	1,498	543
Other	817	1,209
	2,571	1,874

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

4. Other expenses

		Millions of yen	
	Note	2018	2017
Amortization of intangibles	12	(4,133)	(5,447)
Impairment of property, plant and equipment	13	(182)	(183)
Reversal of prior period impairments of property, plant and equipment	13	15	1
Impairment of intangible assets	12	(4)	—
Research and development costs expensed in the period		(852)	(867)
Bad debts (written off)/written back		(293)	8
Doubtful debt provision increase	16	(514)	(576)
Reversal of previously held doubtful debt provision		347	225
Float tank repair costs		(2)	(7)
Net foreign exchange on other expense items		(455)	(221)
Decrease in fair value of investment properties	14	(68)	(150)
Redundancy and restructuring		(196)	(87)
Loss on disposal		(60)	(46)
Others		(1,327)	421
		(7,724)	(6,929)

5. Net foreign exchange gains and losses

The net foreign exchange differences on operating items charged to the income statement in the year amounted to a loss of ¥551 million (2017: a gain of ¥65 million).

6. Exceptional items

		Millions of yen	
	Note	2018	2017
Exceptional items (gains):			
Reversal of impairment of investments in joint ventures		4,065	—
Gain on disposal of non-current assets		2,139	8,189
Gain on disposal of investments in joint ventures and associates		1,541	907
Gain on settlement of insurance proceeds		997	—
Settlement of litigation matters		190	772
Reversal of impairment of non-current assets	13	72	1,468
Reversal of restructuring provisions		—	893
Gain from exit of business		—	855
Others		115	47
		9,119	13,131
Exceptional items (losses):			
Restructuring costs, including employee termination payments		(5,190)	(4,759)
Suspension of facilities		(4,621)	—
Impairments of non-current assets	12,13	(436)	(3,855)
Settlement of litigation matters		(137)	(972)
Loss on disposal of current assets		—	(624)
		(10,384)	(10,210)
		(1,265)	2,921

The reversal of impairment of investments in joint ventures relates to the Group's investment in SP Glass Holdings BV, a joint venture owning production facilities in Russia. The performance of this joint venture has steadily improved, leading the Group to re-assess its future prospects.

The gain on disposal of non-current assets relates to assets in Technical Glass in China, which were disposed following the completion of restructuring activities undertaken earlier in the year.

The previous-year gain on disposal of non-current assets primarily relates to the sale and lease-back of land at Kyoto City, Kyoto Prefecture, Japan, and land and buildings at Sungai Buloh, Malaysia, both transactions as announced on 13 May 2016.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The gain on the disposal of investments in joint ventures relates to the contracted disposal of the Group's interest in Tianjin SYP Pilkington Glass Co., Ltd. The proceeds received on disposal of this investment are an investment in Tianjin SYP Glass Co., Ltd which will be accounted for as an asset held at Fair Value through Other Comprehensive Income (FVOCI). The exceptional gain includes a partial reversal of a previous impairment and a gain on recycling to the income statement of previous foreign exchange postings made directly to the Statement of Comprehensive Income.

The previous-year gain on disposal of investments in associates related to the disposal of a part of the Group's shareholding in China Glass Holdings Ltd. This included a gain on recycling to the income statement of previous foreign exchange postings made directly to the Statement of Comprehensive Income.

The gain on settlement of insurance proceeds relates to insurance monies received following the Tornado that struck the Group's plant at Ottawa, Illinois, U.S.A, on 28 February 2017.

In both the current and previous years, the settlement of litigation matters relates to claims made by certain of the Group's automotive customers in Europe, following the European Commission's earlier decision to fine the Group for alleged breaches of European competition law and also relates to other matters arising elsewhere.

The gain on reversal of non-current assets relates mainly to assets in Architectural Europe and Vietnam, and Automotive Europe.

The prior year reversal of impairment of non-current assets, and reversals of restructuring provisions together arise from the Group's decision to restart its float glass production line at Venice, Italy, as announced on 13 February 2017.

The previous-year gain on exit from business related to the exit from the Group's business in China producing rolled glass for Solar Energy applications. This included a gain on recycling to the income statement of previous foreign exchange postings.

Restructuring costs principally include the cost of compensating redundant employees for the termination of their contracts of employment. The current year cost includes restructuring activities in Technical Glass in China, Automotive Europe, and a number of more minor projects elsewhere. The previous year cost related to restructuring activities in Architectural and Automotive Europe, and Technical Glass in Vietnam.

The suspension of facilities relates to the Group's decision to proceed with an expedited repair of the furnace at Ottawa, Illinois, U.S.A.

The impairment of non-current assets relates mainly to assets in Automotive North America and assets at the Ottawa facility.

In the previous year, the impairment of non-current assets related mainly to assets in Architectural and Automotive Europe, together with an impairment of architectural assets in Vietnam.

The previous year loss on disposal or scrapping of assets relates to tornado-damaged inventories at Ottawa, USA, and also includes the scrapping of current assets in Europe connected to restructuring programs undertaken in that region.

7. Employee benefit expenses

		Millions of yen	
	Note	2018	2017
Wages and salaries		(126,946)	(121,596)
Redundancy and termination benefits		(3,373)	(1,707)
Social security costs		(15,173)	(13,937)
Share options granted to directors and employees	30	(71)	(86)
Pension costs, excluding those classed as exceptional items			
defined contribution schemes		(8,844)	(8,332)
defined benefit schemes		(3,782)	(3,462)
Other short-term employee benefits		(6,482)	(5,620)
		(164,671)	(154,740)

Key management compensation (included above) comprises:

		Millions of yen	
		2018	2017
Short-term employee benefits		(1,201)	(1,068)
Post-employment benefits		(250)	(171)
Other long-term benefits		(107)	—
Termination benefits		(11)	(73)
Share-based payment		(71)	(86)
		(1,640)	(1,398)

Key management compensation comprises the remuneration of those 30 (2017: 29) key employees who have responsibility for planning, controlling and directing the activities of the Group and includes all the members of the Group's Executive Board and corporate and senior corporate officers. Included within key management remuneration are post-employment benefits based on the IFRS operating cost charge in respect of service costs.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

8. Finance income and expenses

	Note	2018	2017
Millions of yen			
Finance income			
Interest income		1,072	1,342
Foreign exchange transaction gains		8	38
		1,080	1,380
Finance expenses			
Interest expense – bank and other borrowings		(13,190)	(18,227)
Dividend on non-equity preference shares due to minority shareholders		(260)	(238)
Foreign exchange transaction losses		(8)	(33)
Other interest and similar charges		(1,028)	(942)
		(14,486)	(19,440)
Unwinding of discounts on provisions	28	(218)	(216)
Retirement benefit obligations – net finance charge	27	(1,000)	(898)
		(15,704)	(20,554)

9. Income tax

The analysis of the tax charge for the period is as follows;

	Note	2018	2017
Millions of yen			
Current tax			
Charge for the period		(6,261)	(5,010)
Adjustment in respect of prior periods		(464)	(418)
		(6,725)	(5,428)
Deferred tax			
Credit/(charge) for the period		1,787	(3,185)
Adjustment in respect of prior periods		279	842
Adjustment in respect of rate changes		(9,645)	312
	20	(7,579)	(2,031)
		(14,304)	(7,459)

The tax charge for the year is calculated as the sum of the total current and deferred tax charge or credit arising in each territory in which the Group operates.

The Group's expected weighted average tax rate (after deducting the Group's share of post-tax profit of joint ventures and associates) is 30.59 percent (2017: 31.46 percent). The tax rate is different to the prior year because of changes in the mix of profits and losses realized by the Group in each of the territories in which it operates and differences in tax rates across each of those territories.

A number of countries have changed their corporate income tax rates during the year and any such changes that have been enacted or substantively enacted at 31 March 2018 are reflected in the weighted average tax rate. None of these rate changes are significant enough, on their own, to have a material impact on the weighted average tax rate. For reference, the applicable tax rate in Japan is 30.86 percent (2017: 30.86 percent) and this consists of corporate income tax, inhabitants' taxes and enterprise tax.

The tax charge in the above table includes a one-time accounting tax charge of ¥9,590 million following U.S. tax reforms enacted during the third quarter. The headline rate of U.S. federal corporate tax has fallen from 35 percent to 21 percent with a corresponding decrease in the accounting value of the Group's deferred tax assets.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The tax charge for the year period differs from the tax charge that would be anticipated by applying the weighted average tax rate to the Group's profit before tax. The differences are explained as follows:

	Millions of yen	
	2018	2017
Profit before taxation	22,177	14,751
Deduct share of post-tax profits of joint ventures and associates	(2,403)	(1,142)
Profit before tax of Group companies	19,774	13,609
Tax charge calculated at the statutory tax rates applicable to profits/(losses) in the respective countries	(6,050)	(4,281)
Expenses not deductible for tax purposes	(957)	(5,065)
Income not subject to tax	3,337	6,896
Non-deductible gains on hedging derivative contracts	87	—
Other items giving rise to local tax adjustments	602	(432)
Adjustment to tax in respect of prior periods		
current tax	(464)	(418)
deferred tax	279	842
Adjustment to tax as a result of changes in tax rates	(9,645)	312
Tax losses and other temporary differences for which no deferred tax asset is recognized	(605)	(3,215)
Other local, non-corporate and withholding taxes suffered	(888)	(2,098)
Total taxation charge – continuing operations	(14,304)	(7,459)

10. Dividends

	Millions of yen	
	2018	2017
Dividends on ordinary shares declared and paid during the period:		
Final dividend for the year ended 31 March 2017 ¥0 per share (2016: ¥0 per share)	—	—
Interim dividend for the year ended 31 March 2018 ¥0 per share (2017: ¥0 per share)	—	—
Dividends on ordinary shares declared after the end of the reporting period and not recognized as a liability:		
Final dividend for the year ended 31 March 2018 ¥20 per share (2017: ¥0 per share)	1,809	—

	Millions of yen	
	2018	
Dividends on Class A shares declared and paid during the period:		
Interim dividend for the year ended 31 March 2018 ¥0 per share	—	
Dividends on Class A shares declared after the end of the reporting period and not recognized as a liability:		
Final dividend for the year ended 31 March 2018 ¥45,000 per share	1,800	

11. Goodwill

	Millions of yen	
	2018	2017
Cost		
At 1 April	112,968	120,589
Exchange differences	5,882	(5,184)
Disposals	—	(2,437)
At 31 March	118,850	112,968
Accumulated impairment		
At 1 April	6,996	7,130
Exchange differences	(601)	1,552
Disposals	—	(1,686)
At 31 March	6,395	6,996
Net book amount at 31 March	112,455	105,972

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In accordance with IAS 36, goodwill has been tested for impairment at 31 March 2018. To perform this test, at 31 March 2018 and 2017, the directors compared the carrying value of each cash-generating unit, including the value of goodwill and intangible assets allocated to that cash-generating unit, to the value in use of each cash-generating unit. The value in use for this purpose is considered to be the capitalized current value of the future cash flows of each cash-generating unit as calculated by discounting the projected future operating cash flows of each cash-generating unit, using the discount rates in the table below. The projected future operating cash flows were based on financial forecasts covering a maximum four-year period being the Group's current planning horizon, with a perpetuity applied thereafter.

A general growth rate of two percent each year has been applied to the cash flows included within the perpetuity for cash generating units in Europe and North America (2017: two percent each year). General growth rates of two and three percent have been applied to the perpetuity cash flows of the Architectural and Automotive Rest of World cash generating units respectively (2017: two percent for Architectural Rest of World and 3.5 percent for Automotive Rest of World). The pre-tax discount rate for each cash-generating unit is determined by adding an appropriate risk factor onto the Group's weighted average cost of capital.

The goodwill included in the balance sheet with an indefinite useful life has been allocated to cash-generating units as set out in the table below, for the purposes of testing the goodwill for potential impairment.

	Millions of yen	
	2018	2017
Architectural Europe	42,255	38,597
Architectural Japan	12	12
Architectural North America	7,843	8,198
Architectural Rest of World	2,810	3,194
Automotive Europe	44,080	39,874
Automotive North America	12,339	12,898
Automotive Rest of World	1,958	2,152
Others	1,158	1,047
Total	112,455	105,972

The key assumptions used in this process are as follows:

Assumption	Value
Period used for discounted cash flow calculations	Maximum of four years from the balance sheet date with perpetuity thereafter
Perpetuity growth rate	2.0% to 3.0%
Pre-tax discount rate used	6.49% to 12.50%

Other key assumptions include glass prices, growth in market volumes, and input prices. Glass prices are projected using current trends and expectations of demand and supply movements in the period covered. Growth in market volumes is estimated with reference to general GDP growth in each territory and specific factors pertaining to the glass industry in that market including for example changes in regulatory environment. Input prices are estimated based on recent negotiations with suppliers and also generally available industry forecasts.

The key sensitivity in the impairment test described above is the selection of the discount rate. If discount rates greater than the rates quoted above were used, there would be a reduction in the headroom for each cash-generating unit.

The cash-generating unit with the least amount of headroom was Automotive Rest of World. A 0.25% increase in discount rates would result in this cash-generating unit having no residual headroom.

The Automotive North America cash-generating unit would also have no residual headroom in response to a reasonably foreseeable change in discount rates. A 0.50% increase in discount rates would result in this cash-generating unit having no residual headroom.

The Group considers that there is a satisfactory level of headroom with respect to other cash-generating units.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

12. Intangible assets

	Note	Trademark and licenses	Development costs	Computer software	Other	Total
Millions of yen						
Cost						
At 1 April 2017		306	14,535	14,543	138,263	167,647
Exchange differences		13	1,124	535	7,379	9,051
Additions		–	1,443	723	–	2,166
Disposals		–	–	(74)	(246)	(320)
At 31 March 2018		319	17,102	15,727	145,396	178,544
Accumulated amortization and impairment						
At 1 April 2017		302	9,675	11,641	89,741	111,359
Exchange differences		13	786	432	4,598	5,829
Amortization charge for the period	2	1	1,151	878	2,104	4,134
Impairment charge in the period		–	18	–	4	22
Disposals		–	–	(74)	(115)	(189)
At 31 March 2018		316	11,630	12,877	96,332	121,155
Net book amount at 31 March 2018		3	5,472	2,850	49,064	57,389

	Note	Trademark and licenses	Development costs	Computer software	Other	Total
Millions of yen						
Cost						
At 1 April 2017		321	15,918	14,457	144,550	175,246
Exchange differences		(12)	(1,962)	(476)	(6,051)	(8,501)
Additions		3	1,222	618	12	1,855
Disposals		(6)	(643)	(56)	(248)	(953)
At 31 March 2018		306	14,535	14,543	138,263	167,647
Accumulated amortization and impairment						
At 1 April 2017		317	10,426	11,121	90,484	112,348
Exchange differences		(11)	(1,282)	(373)	(3,893)	(5,559)
Amortization charge for the period	2	2	1,106	949	3,390	5,447
Impairment charge in the period		–	68	–	–	68
Disposals		(6)	(643)	(56)	(240)	(945)
At 31 March 2018		302	9,675	11,641	89,741	111,359
Net book amount at 31 March 2018		4	4,860	2,902	48,522	56,288

Amortization of ¥4,133 million has been charged to other expenses, note 4 and ¥1 million to exceptional items, note 6 (2017: ¥5,447 million to other expenses). Impairment of ¥18 million has been charged to exceptional items, note 6, and ¥4 million to other expenses, note 4 (2017: ¥68 million to exceptional items).

Development costs represent internally generated intangible assets. Computer software represents the acquisition cost of purchasing software plus internal costs to implement the usage of that software. Trademarks and licenses and other intangible assets represent the acquisition cost of those assets.

Computer software includes assets with a carrying amount of ¥12 million (2017: ¥295 million) is subject to specific charges to secure Group borrowings.

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'Other' intangibles include the following amounts recognized on the acquisition of the Pilkington Group in June 2006:

	Millions of yen						
	Customer relationships	Know-how	Pilkington brand	Other brands	Developed technology	Other	Total
Cost							
At 1 April 2017	24,583	39,575	42,056	4,752	21,579	361	132,906
Exchange differences	1,073	2,189	2,614	13	1,316	29	7,234
At 31 March 2018	25,656	41,764	44,670	4,765	22,895	390	140,140
Accumulated amortization and impairment							
At 1 April 2017	16,230	39,575	7,885	4,752	17,446	353	86,241
Exchange differences	724	2,189	491	13	998	28	4,443
Amortization charge for the period	977	–	–	–	1,045	9	2,031
At 31 March 2018	17,931	41,764	8,376	4,765	19,489	390	92,715
Net book amount at 31 March 2018	7,725	–	36,294	–	3,406	–	47,425

	Millions of yen						
	Customer relationships	Know-how	Pilkington brand	Other brands	Developed technology	Other	Total
Cost							
At 1 April 2016	25,160	41,081	44,002	4,733	22,460	419	137,855
Exchange differences	(577)	(1,506)	(1,946)	19	(881)	(58)	(4,949)
At 31 March 2017	24,583	39,575	42,056	4,752	21,579	361	132,906
Accumulated amortization and impairment							
At 1 April 2016	15,611	40,053	8,250	4,615	17,031	371	85,931
Exchange differences	(400)	(1,458)	(365)	22	(637)	(52)	(2,890)
Amortization charge for the period	1,019	980	–	115	1,052	34	3,200
At 31 March 2017	16,230	39,575	7,885	4,752	17,446	353	86,241
Net book amount at 31 March 2017	8,353	–	34,171	–	4,133	8	46,665

In addition to the other intangible assets recognized on the acquisition of the Pilkington Group, the Group also has intangible assets relating to customer relationships recognized on smaller acquisitions and other intangible assets, amounting to ¥1,639 million (2017: ¥1,857 million).

Amortization charged in the period on these other intangible assets amounted to ¥73 million (2017: ¥190 million) and impairments on these other intangible assets amounts to ¥4 million (2017: ¥nil million).

The Pilkington Brand has been assigned an indefinite useful life and is therefore not subject to routine amortization. This brand has a long history in an established industry, with a significant share of the worldwide glass market. These factors, together with the scale of the business, contribute to the brand's durability. The Group intends to use the Pilkington brand indefinitely. All other intangible assets have finite lives, as set out in note 1.

The Pilkington Brand included in the intangible assets on the balance sheet has been allocated to cash generating units as set out in the table below, for the purposes of testing for potential impairment. The testing has been carried out as part of the exercise to test goodwill for potential impairment. See note 11, goodwill, for details of the assumptions used in this testing.

	Millions of yen	
	2018	2017
Architectural Europe	17,789	16,065
Architectural North America	3,306	3,456
Automotive Europe	9,162	8,272
Automotive North America	4,664	4,875
Automotive Rest of World	1,373	1,503
Total	36,294	34,171

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

13. Property, plant and equipment

		Millions of yen		
	Note	Land and buildings	Plant, equipment and vehicles	Total
Cost				
At 1 April 2017		174,582	549,033	723,615
Exchange differences		4,168	14,685	18,853
Transferred from assets held for sale		3	-	3
Disposal of businesses		(95)	(79)	(174)
Additions		827	30,072	30,899
Disposals		(3,527)	(13,674)	(17,201)
At 31 March 2018		175,958	580,037	755,995
Accumulated depreciation and impairment				
At 1 April 2017		95,355	383,103	478,458
Exchange differences		1,042	10,987	12,029
Disposal of businesses		(94)	(78)	(172)
Charge for the period	2	3,214	24,682	27,896
Impairment losses arising in the period		74	526	600
Reversal of impairment losses from prior periods		-	(87)	(87)
Transferred to assets held for sale		(10)	-	(10)
Eliminated on disposals		(2,828)	(12,669)	(15,497)
At 31 March 2018		96,753	406,464	503,217
Net book amount at 31 March 2018		79,205	173,573	252,778

		Millions of yen		
	Note	Land and buildings	Plant, equipment and vehicles	Total
Cost				
At 1 April 2016		175,717	552,352	728,069
Exchange differences		(4,137)	(20,257)	(24,394)
Transferred from/(to) assets held for sale		727	(1,927)	(1,200)
Additions		3,083	23,074	26,157
Disposals		(808)	(4,209)	(5,017)
At 31 March 2017		174,582	549,033	723,615
Accumulated depreciation and impairment				
At 1 April 2016		94,025	375,178	469,203
Exchange differences		(1,331)	(13,203)	(14,534)
Charge for the period	2	3,326	23,416	26,742
Impairment losses arising in the period		307	3,663	3,970
Reversal of impairment losses from prior periods		(867)	(602)	(1,469)
Transferred from/(to) assets held for sale		441	(1,268)	(827)
Eliminated on disposals		(546)	(4,081)	(4,627)
At 31 March 2017		95,355	383,103	478,458
Net book amount at 31 March 2017		79,227	165,930	245,157

The carrying amount of the Group's land and buildings includes ¥1,074 million (2017: ¥1,373 million) and the Group's plant, equipment and vehicles includes ¥61 million (2017: ¥60 million) in respect of assets held under finance leases.

Land and buildings includes assets with a carrying amount of ¥897 million (2017: ¥1,025 million), and plant and machinery includes assets with a carrying amount of ¥18,104 million (2017: ¥13,367 million), are subject to specific charges to secure Group borrowings.

Of the additions in the period, ¥39 million were financed by new finance leases (2017: ¥398 million).

Depreciation charged in the period all relates to continuing operations, this has been charged to cost of sales ¥23,391 million (2017: ¥23,550 million), distribution costs ¥619 million (2017: ¥709 million), administrative expenses ¥2,383 million (2017: ¥2,483 million) and exceptional items ¥1,503 million (2017: ¥nil million), note 6. Impairments in the period have been charged to exceptional items ¥418 million (2017: ¥3,787 million), note 6, and other expenses ¥182 million (2017: ¥183 million), note 4. The reversal of previous period impairments have been credited to exceptional items ¥72 million (2017: ¥1,468 million), note 6, and other expenses ¥15 million (2017: ¥1 million), note 4.

Property, plant and equipment includes ¥2,267 million (2017: ¥3,273 million) in respect of assets in the course of construction.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

14. Investment property

	Note	Millions of yen	
		2018	2017
Fair value			
At 1 April		523	715
Exchange differences		51	(42)
Disposal of businesses		(93)	—
Net decrease in fair value	4	(68)	(150)
At 31 March		413	523

Investment property principally comprises land, office buildings and small industrial units, and those parts of other properties not occupied by the Group, which are held for long-term rental yields. Investment properties are initially recognized at cost and are thereafter carried at fair value, representing open-market value determined annually by discounted cash flows or by the use of external valuers. Changes in fair value are recorded in the income statement as part of other income and other expenses.

The property rental income earned by the Group from its investment properties, all of which are leased out under operating leases, amounted to ¥210 million (2017: ¥216 million). Direct operating expenses arising on the investment properties in the period amounted to ¥148 million (2017: ¥223 million).

The Group has no restrictions on the realizability of its investment properties and there were no commitments at 31 March 2018 or 2017.

Fair value measurement disclosures for investment properties are provided in note 19.

15. Investments accounted for using the equity method

Joint ventures

The Group's interests in its material joint ventures, all of which are unlisted, are as follows:

Name	Proportion of issued ordinary shares held	Country of operation and incorporation	Principal activity
Cebrace Cristal Plano Limitada (Cebrace)	50%	Brazil	Glass manufacturing
SP Glass Holdings BV	50%	Russia/Netherlands	Glass manufacturing
Jiangsu Pilkington SYP Glass Co., Ltd	50%	China	Glass manufacturing

There were no material additions to joint ventures in the period ended 31 March 2018 (31 March 2017 – none).

The Group has legal ownership of 50 percent of the issued share capital of SP Glass Holdings BV, but, due to the existence of call options held by one of the Group's joint venture partners over part of the Group's shareholding and also other potential shareholder transactions, the Group accounts for this investment using a beneficial shareholding percentage of 43.75 percent.

Jiangsu Pilkington SYP Glass Co., Ltd is a 50 percent joint venture with Shanghai Yaohua Pilkington Glass Group Co., Ltd. In addition, Pilkington International Holdings BV, a subsidiary of the Group, holds a 13.26 percent interest in Shanghai Yaohua Pilkington Glass Group Co., Ltd. Therefore, the Group's proportionate economic interest in the entity is 56.63 percent.

Of the joint ventures above, Cebrace and Jiangsu Pilkington SYP Glass Co., Ltd report to an accounting date coterminous with that of the Group, but SP Glass Holdings BV reports to 31 December, being its local statutory accounting date.

During the year to 31 March 2018, the Group's investment in Tianjin SYP Pilkington Glass Co., Ltd (included in 'Others') was disposed with a gain arising on disposal of ¥1,541 million, as set out in note 6. Proceeds were simultaneously invested in Tianjin SYP Glass Co., Ltd, which is accounted for as assets held at Fair Value through Other Comprehensive Income (FVOCI).

At 31 March 2018, the Group recognized a gain of ¥4,065 million on reversal of impairment of investments in SP Glass Holding BV, which is accounted for as an exceptional item (See note 6). The performance of this joint venture has steadily improved, leading the Group to re-assess its future prospects.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

15. Investments accounted for using the equity method

The balance sheet values of the Group's material joint ventures are as follows:

	Millions of yen				
	2018				
	Cebrace	SP Glass Holdings BV	Jiangsu Pilkington SYP Glass Co., Ltd	Other	Total
Current assets	10,672	4,736	2,051	1,169	18,628
Non-current assets	28,877	12,155	8,381	459	49,872
Current liabilities	(17,711)	(2,322)	(4,974)	(487)	(25,494)
Non-current liabilities	(6,933)	(12,662)	(6,837)	(89)	(26,521)
Total equity	14,905	1,907	(1,379)	1,052	16,485
NSG Group interest in total equity	7,453	835	(690)	320	7,918
NSG Group's unrecognized interest in total equity	-	-	690	-	690
Goodwill	-	3,230	-	-	3,230
Carrying amount of the Group's investment	7,453	4,065	-	320	11,838
The total equity above includes:					
Cash and cash equivalents	672	1,017	58	262	2,009
Current financial liabilities	(9,965)	-	(679)	-	(10,644)
Non-current financial liabilities	(57)	(7,398)	(6,837)	-	(14,292)

	Millions of yen				
	2017				
	Cebrace	SP Glass Holdings BV	Jiangsu Pilkington SYP Glass Co., Ltd	Other	Total
Current assets	14,170	3,190	970	3,505	21,835
Non-current assets	33,789	12,553	6,463	4,508	57,313
Current liabilities	(21,747)	(2,920)	(3,315)	(4,315)	(32,297)
Non-current liabilities	(8,904)	(6,320)	(4,876)	(84)	(20,184)
Total equity	17,308	6,503	(758)	3,614	26,667
NSG Group interest in total equity	8,654	2,276	(379)	1,434	11,985
NSG Group's unrecognized interest in total equity	-	(2,276)	379	(1,142)	(3,039)
Carrying amount of the Group's investment	8,654	-	-	292	8,946
The total equity above includes:					
Cash and cash equivalents	1,372	384	34	250	2,040
Current financial liabilities	(14,826)	(1,290)	(648)	-	(16,764)
Non-current financial liabilities	(1,251)	(6,310)	(4,876)	-	(12,437)

The Group considers that for all joint ventures accounted for using the equity method the balance sheet value approximates the fair value of the Group's investment. Current and non-current financial liabilities exclude trade and other payables as well as provisions.

The Group has no unrecognized commitments, relating to any of its joint ventures, which would result in a future outflow of economic resources from the Group.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The key income statement and comprehensive income figures of the Group's material joint ventures are as follows:

	Millions of yen				
	2018				
	Cebrace	SP Glass Holdings BV	Jiangsu Pilkington SYP Glass Co., Ltd	Other	Total
Revenue	48,835	15,255	281	3,057	67,428
Profit/(loss) for the period from continuing operations	4,230	(34)	(578)	(83)	3,535
Other comprehensive income	–	(26)	–	–	(26)
Total comprehensive income	4,230	(60)	(578)	(83)	3,509
NSG Group's share of profit/(loss) for the period	2,115	–	–	(3)	2,112
NSG Group's unrecognized share of loss for the period	–	(12)	(289)	(32)	(333)
Dividends received by NSG Group	2,496	–	–	–	2,496
The profit/(loss) for the period includes the following:					
Depreciation and amortization	(3,488)	(1,168)	(166)	(220)	(5,042)
Interest expense	(931)	(1,650)	(247)	5	(2,823)
Taxation	(2,697)	(257)	–	–	(2,954)

	Millions of yen				
	2017				
	Cebrace	SP Glass Holdings BV	Jiangsu Pilkington SYP Glass Co., Ltd	Other	Total
Revenue	43,715	10,227	1,033	5,077	60,052
Profit/(loss) for the period from continuing operations	2,201	1,478	(1,717)	143	2,105
Other comprehensive income	–	325	–	–	325
Total comprehensive income	2,201	1,803	(1,717)	143	2,430
NSG Group's share of profit/(loss) for the period	1,101	–	–	(2)	1,099
NSG Group's unrecognized share of profit/(loss) for the period	–	517	(858)	63	(278)
Dividends received by NSG Group	1,087	–	–	–	1,087
The profit/(loss) for the period includes the following:					
Depreciation and amortization	(3,522)	(1,045)	(304)	(313)	(5,184)
Interest expense	(1,872)	691	(186)	(7)	(1,374)
Taxation	(1,161)	(15)	–	(1)	(1,177)

Associates

The Group's interest in its material associates is as follows:

Name	Proportion of issued ordinary shares held	Country of operation and incorporation	Principal activity
Flachglas Wernberg GmbH	49%	Germany	Glass manufacturing and processing
Holding Concorde SA	21.9%	Colombia	Glass manufacturing and processing

The Group also owns a direct shareholding in a subsidiary of Holding Concorde SA, resulting in an effective interest of 23 percent in the closing consolidated net assets of this associate.

During the year to 31 March 2017, the Group's investment in China Glass Holdings Ltd was reclassified as an asset held at fair value through other comprehensive income, after the partial disposal of the shares held. (See Note 6)

The accounting date for each of the associates listed above, is 31 December, the date to which each draws up its annual accounts.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The balance sheet values of the Group's material associates are as follows:

	Millions of yen			
	2018			
	Flachglas Wernberg GmbH	Holding Concorde SA	Other	Total
Current assets	4,471	3,891	7,460	15,822
Non-current assets	5,610	12,683	6,521	24,814
Current liabilities	(2,941)	(3,151)	(3,278)	(9,370)
Non-current liabilities	(3,218)	(3,967)	(1,727)	(8,912)
Total equity	3,922	9,456	8,976	22,354
NSG Group interest in total equity	1,922	2,175	1,703	5,800
Goodwill	-	-	17	17
Carrying amount of the Group's investment	1,922	2,175	1,720	5,817

	Millions of yen			
	2017			
	Flachglas Wernberg GmbH	Holding Concorde SA	Other	Total
Current assets	4,197	3,503	4,172	11,872
Non-current assets	5,137	13,203	3,918	22,258
Current liabilities	(2,577)	(2,885)	(2,726)	(8,188)
Non-current liabilities	(3,332)	(4,909)	(1,810)	(10,051)
Total equity	3,425	8,912	3,554	15,891
NSG Group interest in total equity	1,678	2,050	1,099	4,827
Carrying amount of the Group's investment	1,678	2,050	1,099	4,827

The Group considers that for all associates accounted for using the equity method, the balance sheet value is approximately equal to the fair value.

The key income statement and comprehensive income figures of the Group's material associates are as follows:

	Millions of yen			
	2018			
	Flachglas Wernberg GmbH	Holding Concorde SA	Other	Total
Revenue	17,709	9,505	12,046	39,260
Profit for the period from continuing operations	152	654	279	1,085
Total comprehensive income	152	654	279	1,085
NSG Group's share of profit for the period	74	143	74	291
Dividends received by NSG Group	-	-	12	12

	Millions of yen				
	2017				
	Flachglas Wernberg GmbH	China Glass Holdings Ltd*	Holding Concorde SA	Other	Total
Revenue	15,625	6,240	9,454	10,028	41,347
Profit/(loss) for the period from continuing operations	(17)	(844)	698	238	75
Other comprehensive income	49	-	39	-	88
Total comprehensive income	32	(844)	737	238	163
NSG Group's share of profit/(loss) for the period	(8)	(182)	153	80	43
Dividends received by NSG Group	-	-	-	17	17

* Data prior to transfer to assets held at fair value through other comprehensive income

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

16. Trade and other receivables

		Millions of yen	
	Note	2018	2017
Trade receivables		50,827	49,977
Less provision for impairment of receivables		(2,968)	(2,931)
Trade receivables – net		47,859	47,046
Amounts due from customers for contract work	22	2,812	2,069
Amounts owed by related parties (trading)	38	1,872	1,767
Loans to related parties	38	9,344	8,698
Other receivables		17,931	21,380
Prepayments and accrued income		10,444	4,220
		90,262	85,180
Current		73,952	68,010
Non-current		16,310	17,170
		90,262	85,180

The directors consider that the carrying amount of trade and other receivables approximates to their fair value.

There is no particular concentration of credit risk relating to Architectural, Automotive AGR, or Technical Glass balances, as these operations have a large number of customers. There is, however, a concentration of credit risk within the Automotive OE balances where the Group is supplying automotive manufacturers worldwide. The Automotive OE business customers constitute the majority of the major global car manufacturers. Due to the nature of the industry with a relatively small number of large customers, there is therefore a higher credit risk concentration. Total amounts owed by Automotive OE customers were ¥16,846 million (2017: ¥16,949 million). This risk is managed through the monitoring of aged receivables, analysis of the cost effectiveness of insuring receivables and through general credit collection procedures.

Receivable balances are impaired on a case by case basis when there is evidence to suggest that the value may not be collectable. Overdue balances may not be impaired when there is good reason to expect that the receivable would still be collected.

As at 31 March 2018, trade receivables at nominal value of ¥2,968 million, (2017: ¥2,931 million) were impaired and fully provided for.

Movements in the provision for impairment of receivables were as follows:

		Millions of yen	
	Note	2018	2017
At 1 April		(2,931)	(2,832)
Exchange differences		(161)	118
Charge for the period	4	(514)	(576)
Unused amounts reversed		347	248
Utilized		291	111
At 31 March		(2,968)	(2,931)

As at 31 March, the ageing analysis of current trade and other receivables (excluding prepayments and accrued income) is below. All non-current trade and other receivables (excluding prepayments and accrued income) is considered neither past due nor impaired.

		Millions of yen				
			Past due but not impaired			
	Total	Neither past due nor impaired	Less than 3 months overdue	Between 3 and 6 months overdue	Between 6 and 12 months overdue	More than 12 months overdue
2018	66,656	61,769	2,618	574	72	1,623
2017	64,759	60,462	1,980	610	262	1,445

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

17. Assets held at fair value through other comprehensive income

		Millions of yen	
	Note	2018	2017
At 1 April		27,140	34,341
Exchange differences		703	(1,993)
Transferred to assets held for sale		–	(1,747)
Acquisitions		1,195	7
Transferred from investments accounted for using the equity method		–	2,795
Original value of assets disposed		(5,078)	(175)
Revaluation surplus			
transferred to equity	34	(6,336)	(6,044)
transferred to income statement	34	(234)	(44)
At 31 March		17,390	27,140
Current		100	572
Non-current		17,290	26,568
		17,390	27,140

The transfer to assets held for sale in 2017 relates to the disposal of Group's investment located in Mexico and Switzerland.

The acquisition in the period ended 31 March 2018 mainly relates to the Group's investment in Tianjin SYP Glass Co., Ltd, which was received as proceeds in the contracted disposal of the Group's interest in Tianjin SYP Pilkington Glass Co., Ltd.

The transfer from investments accounted for using the equity method in 2017 relates to the Group's investment in China Glass Holdings Ltd.

The disposal in the period ended 31 March 2018 mainly relates to the sale of listed equities and UK Government gilts (2017: relates to the sale of UK government gilts). Included in the value of disposals for the year to 31 March 2018, is the disposal of the Group's entire shareholding in China Glass Holdings Ltd, consistent with the Group's strategy of generating cash from the selective disposal of non-core assets. The fair value of the investment disposed, being the proceeds received, was ¥2,452 million. The cumulative loss on disposal of this asset, calculated from the date that this asset was transferred into this asset category during the year to 31 March 2017, was ¥264 million. This comprised a loss from fair value movements of ¥373 million and a gain from foreign exchange movements of ¥109 million.

Assets held at fair value through other comprehensive income include the following:

		Millions of yen	
		2018	2017
UK Government gilts		2,375	2,968
Listed equities		10,397	20,882
Unlisted shares		4,076	2,794
Bond funds		307	277
Other		235	219
		17,390	27,140

Fair value measurement disclosures are provided in note 19.

The equity investments held within this category are those where the Group does not have a significant influence over the finance and operating policies of the investee. The Group generally expects to retain its investments in these entities, although may consider disposals on an opportunistic basis if appropriate. The Group considers gains and losses arising from fluctuations in valuations of investments to be unrealized. On adoption of IFRS 9 the Group elected to classify such investments at fair value through other comprehensive income with subsequent gains and losses recorded in other comprehensive income. The Group considers this accounting treatment to be more aligned with its intentions with respect to these investments.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

18. Derivative financial instruments

	Millions of yen			
	2018		2017	
	Assets	Liabilities	Assets	Liabilities
Interest rate swaps				
not qualifying as hedges	6	105	2	124
cash flow hedges	317	599	194	842
Forward foreign exchange contracts				
not qualifying as hedges	19	31	8	13
cash flow hedges	53	113	339	48
net investment hedges	301	488	419	122
Energy hedges				
cash flow hedges	687	663	249	1,839
	1,383	1,999	1,211	2,988
Current	938	1,093	963	1,393
Non-current	445	906	248	1,595
	1,383	1,999	1,211	2,988
Derivatives at fair value through income statement	25	136	10	137
Derivatives at fair value through other comprehensive income	1,358	1,863	1,201	2,851
	1,383	1,999	1,211	2,988
Maturity				
within one year	938	1,093	963	1,393
between one and two years	87	403	57	584
between two and three years	314	63	5	964
between three and four years	44	31	186	32
over four years	-	409	-	15
	1,383	1,999	1,211	2,988

Of the above financial instruments, gross cash flows are exchanged for forward foreign exchange contracts only. The contractual liabilities are ¥96,477 million (2017: ¥107,927 million), falling due within one year.

Gains and losses in equity on forward foreign exchange contracts as of 31 March 2018 will be released to the income statement at various dates up to 12 months from the balance sheet date. Fair values are calculated with reference to market prices discounted to current value.

The notional principal amounts of the outstanding interest rate swap contracts at 31 March 2018 were ¥86,729 million (2017: ¥97,988 million). At 31 March 2018, the fixed interest rates on interest rate swaps vary from 0.263 percent to 1.5 percent (2017: 0.068 percent to 1.0875 percent) and the main floating rates are TIBOR, EURIBOR and LIBOR. The Group designates a portion of its currency denominated borrowings and derivatives as hedges of the net investment in the Group's overseas subsidiaries. The fair value of these borrowings as at 31 March 2018 was ¥68,541 million (2017: ¥56,598 million). The fair value of the derivatives as at 31 March 2018 was a loss of ¥124 million (2017: a gain of ¥349 million). The foreign exchange loss of ¥2,713 million (2017: ¥2,506 million) on translation of the borrowings and derivatives to yen at the balance sheet date was recognized in the exchange translation reserve in shareholders' equity, note 34.

Fair value measurement disclosures for derivative assets and liabilities are provided in note 19.

Financial risk management

An explanation of the Group's financial instrument risk management objectives, policies and strategies is set out in the financial risk management section in note 1, Summary of significant accounting policies.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

19. Fair value measurement

Fair value hierarchy

For those assets and liabilities included in the consolidated balance sheet at fair value, the table below provides the fair value measurement of the Group's assets and liabilities by valuation method. The different levels have been defined as follows:

Level 1: quoted prices (unadjusted) in active markets for identical assets and liabilities.

Level 2: inputs other than quoted prices included within level 1 that are observable for the asset or liability, either directly (i.e. as prices) or indirectly (i.e. derived from prices)

Level 3: inputs for the asset or liability that are not based upon market data (unobservable inputs).

Assets and liabilities included in the balance sheet at amortized cost, have fair value disclosures included within the relevant disclosure note for that balance sheet item, where required by IFRS 13 or other relevant standards.

	Note	Millions of yen			2018
		Level 1	Level 2	Level 3	Total
Investment properties	14				
rental properties		–	–	413	413
		–	–	413	413
Assets held at fair value through other comprehensive income	17				
UK Government gilts		2,375	–	–	2,375
listed equities		10,397	–	–	10,397
unlisted equities		–	–	4,076	4,076
bond funds		307	–	–	307
other		–	–	235	235
		13,079	–	4,311	17,390
Derivative assets	18				
interest rate swaps		–	323	–	323
forward foreign exchange contracts		–	373	–	373
energy hedges		–	687	–	687
		–	1,383	–	1,383

	Note	Millions of yen			2017
		Level 1	Level 2	Level 3	Total
Investment properties	14				
rental properties		–	–	523	523
		–	–	523	523
Assets held at fair value through other comprehensive income	17				
UK Government gilts		2,968	–	–	2,968
listed equities		20,882	–	–	20,882
unlisted equities		–	–	2,794	2,794
bond funds		277	–	–	277
other		–	–	219	219
		24,127	–	3,013	27,140
Derivative assets	18				
interest rate swaps		–	196	–	196
forward foreign exchange contracts		–	766	–	766
energy hedges		–	249	–	249
		–	1,211	–	1,211

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	Note	Millions of yen			
		2018			
		Level 1	Level 2	Level 3	Total
Derivative liabilities	18				
interest rate swaps		–	704	–	704
forward foreign exchange contracts		–	632	–	632
energy hedges		–	663	–	663
		–	1,999	–	1,999

	Note	Millions of yen			
		2017			
		Level 1	Level 2	Level 3	Total
Derivative liabilities	18				
interest rate swaps		–	966	–	966
forward foreign exchange contracts		–	183	–	183
energy hedges		–	1,839	–	1,839
		–	2,988	–	2,988

Investment properties

Investment properties are valued either by reference to future expected rental receipts or by reference to a recently obtained valuation prepared by a qualified valuation professional. Gains or losses arising on the fair value of investment properties are recognized in operating profit, see note 14. The sensitivity of the fair value of investment properties is subject to rental yields and fluctuation of property prices in the relevant markets however the Group has not quantified the impact of any change as any reasonable change would not have a material impact.

Assets held at fair value through other comprehensive income

UK government gilts, listed equities, and bond funds are valued based on quoted market prices obtained by the Group at the balance sheet date. Unlisted equities and other assets held at fair value through other comprehensive income are valued using a variety of different techniques including future projected cash flows and net asset values of the underlying investments. Those classified in level 3 of the fair value hierarchy are subject to a variety of sensitivities and, as these investments comprise mainly Japanese trading companies, economic growth projections in Japan are the main sensitivity influencing the valuation. The Group has not quantified the impact of the change in GDP growth rates for these investments, included within level 3, as any reasonable movement would not have a material impact.

Fair value gains and losses are recognized within the statement of comprehensive income, see note 17.

Derivatives

The fair values of foreign exchange contracts are determined using forward exchange market rates at the balance sheet date. The fair values of interest rate swaps are calculated as the present value of the estimated future cash flows based on observable yield curves at the balance sheet date. The fair values of commodity hedges are determined by using forward market prices at the balance sheet date.

Gains and losses arising on the fair value of net derivative assets and liabilities have been recognized as follows. A gain of ¥53 million was recognized in operating profit (2017: ¥14 million) in relation to derivatives classed as fair value through profit or loss. A gain of ¥1,087 million was recognized directly in the statement of comprehensive income (2017: ¥2,237 million) in relation to derivatives classed as fair value through other comprehensive income.

There was no hedge ineffectiveness in the year therefore no charge to the income statement in respect of hedge ineffectiveness of assets classed as fair value through other comprehensive income.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Transfer between levels

The Group determines whether a transfer between levels in the hierarchy has occurred by reassessing categorization at the end of each reporting period. During the periods ended 31 March 2018 and 2017, there were no transfers between Level 1 and Level 2 fair value measurements.

There have been no changes in the valuation techniques in either the current or prior year.

A reconciliation of movements in assets held at fair value through other comprehensive income included in the above hierarchy based on level 3 valuation techniques is as follows:

	Millions of yen	
	2018	2017
At 1 April	3,013	14,931
Acquisition	1,017	—
Transfer to assets held for sale	—	(1,747)
Disposals	(6)	—
Movements in fair value recognized in comprehensive income within "Revaluation of assets held at fair value through other comprehensive income – equity investments (net of taxation)"	244	(9,458)
Exchange differences recognized in other comprehensive income	43	(713)
At 31 March	4,311	3,013

Current year acquisition relates to the Group's investment in Tianjin SYP Glass Co., Ltd, which was received as proceeds in the contracted disposal of the Group's interest in Tianjin SYP Pilkington Glass Co., Ltd.

Previous year movements in fair value recognized in comprehensive income relate to the movements of net realizable value in the Group's investment located in Mexico and Switzerland.

Management have assessed that cash and short-term deposits, trade receivables, trade payables, bank overdrafts and other current liabilities approximate their carrying amounts largely due to the short-term maturity of these instruments.

20. Deferred income tax

	Millions of yen	
	2018	2017
Deferred tax assets	36,115	41,622
Deferred tax liabilities	(18,567)	(15,005)
Net deferred tax asset	17,548	26,617

The movement for the period in the net deferred tax asset is as follows:

		Millions of yen	
	Note	2018	2017
At 1 April		26,617	31,036
Exchange differences		(385)	(840)
Charge to the income statement for the period	9	(7,579)	(2,031)
Deferred tax transferred to assets held for sale		—	26
Charge to other comprehensive income for the period		(1,105)	(1,574)
At 31 March		17,548	26,617

The charge of ¥1,105 million (2017: ¥1,574 million) to other comprehensive income in the year comprises a charge to the hedging reserve of ¥450 million (2017: ¥ 1,051 million), note 34, and a charge to the fair value reserve of ¥89 million (2017: a credit of ¥ 1 million), note 34. The Company also has a charge to other comprehensive income in respect of retirement benefit obligations in retained earnings of ¥566 million (2017: ¥524 million), note 27.

The charge to the income statement for the period includes the charge of ¥9,590 million related to the change in U.S. federal corporate tax rate.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The following movement in the Group's deferred tax assets and liabilities took place during the periods ended 31 March 2018 and 31 March 2017:

Millions of yen							
Note	Property, plant and equipment	Tax losses	Fair value losses	Defined benefit obligations	Provisions	Other	Total
Deferred tax assets							
At 1 April 2017	2,750	15,100	368	16,656	9,884	3,897	48,655
Exchange differences	48	289	39	175	(8)	105	648
Charge to the income statement in the period	9 (57)	(3,291)	(1)	(3,458)	(1,390)	(677)	(8,874)
Charge to other comprehensive income for the period	—	—	—	(566)	—	(163)	(729)
Gross deferred tax assets	2,741	12,098	406	12,807	8,486	3,162	39,700
Offset of deferred tax assets and liabilities relating to income taxes levied by the same taxation authority	(1,554)	(344)	—	(197)	(301)	(1,189)	(3,585)
At 31 March 2018	1,187	11,754	406	12,610	8,185	1,973	36,115

Millions of yen							
Note	Property, plant and equipment	Tax losses	Fair value losses	Defined benefit obligations	Provisions	Other	Total
Deferred tax assets							
At 1 April 2016	2,949	20,987	392	17,276	8,931	5,083	55,618
Exchange differences	(132)	(633)	(24)	(480)	(189)	(153)	(1,611)
(Charge)/credit to the income statement in the period	9 (93)	(5,254)	—	384	1,142	(399)	(4,220)
Credit to assets held for sale	26	—	—	—	—	—	26
Charge to other comprehensive income for the period	—	—	—	(524)	—	(634)	(1,158)
Gross deferred tax assets	2,750	15,100	368	16,656	9,884	3,897	48,655
Offset of deferred tax assets and liabilities relating to income taxes levied by the same taxation authority	(1,464)	(895)	(1)	(4,079)	(209)	(385)	(7,033)
At 31 March 2017	1,286	14,205	367	12,577	9,675	3,512	41,622

The Group assesses its ability to utilize tax losses in future periods based on management-approved financial forecasts. This takes account of the Group's medium and long-term strategic and financial plans and the expected future economic outlook. The ability to utilize tax losses in future periods also takes account of material tax adjusting items and the period (if any) in which tax losses might expire under local tax laws. The Group's ability to utilize its tax losses is re-assessed annually.

At 31 March 2018, the Group has tax losses which it is able to carry forward of ¥235,759 million (2017: ¥221,580 million), in respect of which it is recognizing a deferred tax asset of ¥12,098 million (2017: ¥15,100 million).

A significant part of this deferred tax asset arises in the USA and a deferred tax asset of ¥5,614 million (2017: ¥9,634 million) has been recognized based on management-approved financial forecasts, taking into account the date of expiry of tax losses under US tax laws and these are expected to be utilized by 2023.

There are tax credits recognized in Poland which give rise to a deferred tax asset of ¥1,980 million (2017: ¥1,890 million). The Group has reviewed the latest forecasted results for the Polish business and considers that this asset will be utilized by 2026.

The previously unrecognized tax credits in Italy have been reassessed during the year. Due to changes in projected profitability of the Group's Italian business and the re-start of the float line in Venice, the Group has recognized a deferred tax asset of ¥1,511 million. Based on the current forecast, the Group considers it probable that this credit will be fully utilized in the next 7 years.

Tax losses of ¥38,047 million (2017: ¥34,280 million) are being carried forward in Japan, on which a deferred tax asset of ¥101 million is recognized (2017: ¥104 million). The remaining tax losses have no deferred tax recognized. These losses are subject to time expiry between 2019 and 2026, with ¥19,596 million expiring within the next 5 years.

A further ¥1,053 million (2017: ¥1,094 million) of the deferred tax asset relates to tax losses arising in the UK, based on the management-approved financial forecasts. These tax losses are not subject to time expiry. Further tax losses of ¥101,408 million (2017: ¥89,801 million) are being carried forward in the UK and the Group does not consider it probable that there will be sufficient future taxable profits against which these losses may be utilized and therefore no deferred tax asset is recognized.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

A deferred tax asset of ¥1,840 million (2017: ¥2,379 million), in respect of tax losses arising in other territories, is recognized in full, based on management-approved financial forecasts.

In addition to tax losses in Japan and the UK on which no deferred tax asset is being recognized, the Group also considers it appropriate not to recognize a deferred tax asset in respect of other tax losses of ¥39,274 million (2017: ¥45,468 million) arising in other countries, of which ¥4,272 million subject to time expiry under local tax laws. The balance of unrecognized tax losses of ¥35,002 million, are not subject to time expiry.

The deferred tax asset in respect of the Group's retirement benefit obligations arises mainly in USA, where a deferred tax asset of ¥6,825 million (2017: ¥11,247 million) is recognized. The reduction compared to the previous year is mainly due to the reduction in the federal corporate tax rate in the year. The other significant deferred tax asset recognized relates to Germany, being ¥5,394 million (2017: ¥4,625 million).

There are unrecognized deferred tax assets in relation to retirement benefit obligations of ¥1,203 million (2017: ¥1,373 million) of which ¥799 million relates to the UK (2017: ¥833 million).

The Group also has other assets on which no deferred tax is recognized amounting to ¥12,315 million (2017: ¥10,906 million), of which ¥8,284 million relates to Japan and ¥2,733 million to the UK.

The Group has losses amounting to ¥16,906 million (2017: ¥16,168 million) which are only available for offset against future capital gains in the UK and the USA, since its uncertain whether these losses will be utilized, no deferred tax is recognized. ¥10,479 million of these losses will expire within 5 years.

Millions of yen						
	Note	Property, plant and equipment	Fair value gains	Provisions	Other	Total
Deferred tax liabilities						
At 1 April 2017						
Exchange differences		11,087	9,612	342	997	22,038
(Credit)/charge to the income statement in the period	9	(1,001)	(345)	(349)	400	(1,295)
Charge to other comprehensive income for the period		–	82	291	3	376
Gross deferred tax liabilities		10,431	9,943	319	1,459	22,152
Offset of deferred tax assets and liabilities relating to income taxes levied by the same taxation authority		(2,252)	–	(212)	(1,121)	(3,585)
At 31 March 2018		8,179	9,943	107	338	18,567

Millions of yen						
	Note	Property, plant and equipment	Fair value gains	Provisions	Other	Total
Deferred tax liabilities						
At 1 April 2016						
Exchange differences		12,650	11,176	276	480	24,582
(Credit)/charge to the income statement in the period	9	(283)	(439)	(24)	(25)	(771)
Charge/(credit) to other comprehensive income for the period		(1,280)	(1,120)	(283)	494	(2,189)
Charge/(credit) to other comprehensive income for the period		–	(5)	373	48	416
Gross deferred tax liabilities		11,087	9,612	342	997	22,038
Offset of deferred tax assets and liabilities relating to income taxes levied by the same taxation authority		(5,035)	(1,164)	(213)	(621)	(7,033)
At 31 March 2017		6,052	8,448	129	376	15,005

Deferred taxation provided on unremitted earnings of joints ventures and associates at 31 March 2018, was ¥349 million (2017: ¥116 million). This reflects local withholding and other taxes which would be suffered if these earnings were repatriated and which would not be creditable against local corporation tax.

Fair value gains principally relate to the recognition of intangible assets on acquisition of the Pilkington Group by NSG UK Enterprises Ltd in June 2006.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

21. Inventories

	Millions of yen	
	2018	2017
Raw materials	25,856	25,064
Work-in-progress	18,657	18,414
Finished goods	64,462	62,036
	108,975	105,514

The cost of inventories recognized as an expense and included in cost of sales amounted to ¥349,996 million (2017: ¥328,271 million) and includes the write down of inventories totaling ¥2,331 million (2017: ¥1,403 million) and the reversal of inventory write-downs made in previous periods amounting to ¥2,052 million (2017: ¥2,442 million). The reversal of previous write-downs relates to an increase in the net realizable value at the end of the period.

In addition, write-down of inventories totaling ¥29 million (2017: ¥314 million) has been charged to exceptional items, note 6.

The carrying amount of inventories carried at fair value less cost to sell (net realizable value) amount to ¥13,102 million (2017: ¥9,008 million).

22. Construction work-in-progress

		Millions of yen	
	Note	2018	2017
Contract costs incurred plus recognized profits less recognized losses		1,028	788
Less amounts invoiced		(387)	(163)
		641	625

Contracts in progress at 31 March

Amounts due from contract customers included in trade and other receivables	16	2,812	2,069
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Advances received from customers for contract work, included in the above summary, amounted to ¥480 million (2017: ¥661 million).

At 31 March 2018 and 2017, there were no amounts included in trade and other receivables arising from construction contracts which are due for settlement after more than 12 months.

There are no material amounts of construction work-in-progress held by customers as retentions.

The Group's income statement included the following results in respect of engineering contracts:

	Millions of yen	
	2018	2017
Contract revenue	4,806	3,945
Contract costs	(3,498)	(2,779)
Gross profit	1,308	1,166
Profit before tax	1,103	874

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

23. Cash and cash equivalents

	Millions of yen	
	2018	2017
Cash at bank and in hand	43,309	66,146
Short-term deposits	21,492	18,774
	64,801	84,920

The effective interest rate on the Group's short-term bank deposits was 3.72 percent (2017: 5.83 percent) with an average maturity of 17 days (2017: 24 days).

The short-term deposits noted above, which constitute cash equivalents, are represented by deposit account balances principally in the UK, Vietnam and Argentina.

The Group's cash flow statement includes the following:

		Millions of yen	
	Note	2018	2017
Cash and cash equivalents		64,801	84,920
Bank overdrafts	25	(2,002)	(5,112)
		62,799	79,808

24. Assets held for sale

	Millions of yen	
	2018	2017
Assets held for sale within a disposal group held for sale		
Property, plant and equipment	-	126

At 31 March 2017, assets held within a disposal group mainly comprised of property, plant and equipment within Architectural businesses in Europe. They were disposed during the period ended 31 March 2018.

25. Borrowings

a. Borrowings and net debt

		Millions of yen	
	Note	2018	2017
Current			
Bank overdrafts	23	2,002	5,112
Bank borrowings		79,117	72,972
Other long-term loans		15,060	66
Finance lease liabilities		23	25
Non-equity non-controlling interest preference shares		268	242
		96,470	78,417
Non-current			
Bank borrowings		269,050	298,480
Other long-term loans		354	15,164
Finance lease liabilities		44	60
Non-equity non-controlling interest preference shares		4,737	4,277
		274,185	317,981
Total borrowings		370,655	396,398

Group borrowings include secured liabilities of ¥19,463 million (2017: ¥15,720 million). Borrowings are secured by fixed and floating charges over certain assets of undertakings in the Group. Bank borrowings in the above table include the liabilities of ¥19,463 million (2017: ¥15,720 million) as a consequence of the finance lease contracts from the sale and leaseback transactions made by the Group in Japan.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

25. Borrowings

	Note	2018	Millions of yen 2017
Summary of net debt			
Financial liabilities			
borrowings		370,655	396,398
derivative financial instruments	18	1,999	2,988
Financial assets			
derivative financial instruments	18	(1,383)	(1,211)
Cash and cash equivalents	23	(64,801)	(84,920)
Net debt		306,470	313,255

Net debt includes energy hedges within derivative financial instruments.

b. Movements of total borrowings

A reconciliation of movements in the total borrowings is as follows:

	Millions of yen			2018
	Borrowings, other long term loans and bank overdrafts	Finance lease liabilities	Non-equity non-controlling interest preference shares	Total
At 1 April	391,794	85	4,519	396,398
Exchange differences and other movements	3,027	-	486	3,513
Repayment of borrowings	(94,710)	(26)	-	(94,736)
Proceeds from borrowings	62,616	8	-	62,624
Amortization of arrangement fees	2,856	-	-	2,856
At 31 March	365,583	67	5,005	370,655

c. Interest rate exposure

The exposure of the Group's borrowings to interest rate changes and the contractual re-pricing dates are as follows:

	Millions of yen			2018
	Less than one year	One to five years	Over five years	Total
Total borrowings	323,123	36,762	10,770	370,655
Effect of interest rate swaps	(86,729)	86,729	-	-
	236,394	123,491	10,770	370,655

	Millions of yen			2017
	Less than one year	One to five years	Over five years	Total
Total borrowings	372,070	20,051	4,277	396,398
Effect of interest rate swaps	(92,988)	92,988	-	-
	279,082	113,039	4,277	396,398

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The effective interest rates at the balance sheet date on the Group's principal currency borrowings were as follows:

	Interest rate %				
	2018				
	Yen	£	US\$	Euro	Other
Bank overdrafts	–	1.71	–	2.01	0.11
Bank borrowings	1.85	–	5.10	2.51	15.25
Other long-term loans	1.56	–	–	–	–
Finance lease obligations	2.18	–	–	–	–

	Interest rate %				
	2017				
	Yen	£	US\$	Euro	Other
Bank overdrafts	–	1.00	–	1.00	3.99
Bank borrowings	2.08	–	3.62	2.76	11.40
Other long-term loans	1.56	–	–	–	–
Finance lease obligations	2.52	–	–	–	–

The non-equity non-controlling interest preference shares relate to Pilkington Deutschland AG and Dahlbusch AG with the right to a dividend of 5.6 and 4.5 percent of nominal value respectively in perpetuity.

d. Fair values of borrowings

The carrying amounts and fair values of the Group's non-current borrowings are as follows:

	Millions of yen			
	2018		2017	
	Carrying amounts	Fair values	Carrying amounts	Fair values
Bank borrowings	269,050	249,392	298,480	270,919
Other long-term loans	354	354	15,164	14,609
Finance lease obligations	44	44	60	60
Non-equity non-controlling interest preference shares	4,737	4,737	4,277	4,277
	274,185	254,527	317,981	289,865

The above fair values are based on cash flows discounted using a rate based on credit risk factors and the relevant currency swap rate for the specific maturity, plus a margin. This methodology is consistent with hierarchy level 2 inputs as set out in note 19.

e. Currency of borrowings

The Group's total borrowings are denominated in the following currencies:

	Millions of yen	
	2018	2017
Japanese yen	266,216	291,642
Euro	56,332	59,300
Sterling	16,456	14,278
Polish zloty	10,067	12,304
US dollar	18,099	14,834
Swedish krona	1,863	1,487
Other currencies	1,622	2,553
	370,655	396,398

f. Maturity profile of committed borrowings

The Group has the following undrawn borrowing facilities:

	Millions of yen	
	2018	2017
Floating rate		
maturing within one year	–	18,825
maturing after one year	90,082	31,699

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The effective interest rates at the balance sheet date on the Group's principal currency borrowings were as follows:

	Millions of yen	
	2018	2017
Within one year	96,470	78,417
One to two years	97,194	86,127
Two to three years	25,550	102,074
Three to four years	91,244	7,195
Four to five years	36,121	81,935
After five years	24,076	40,650
	370,655	396,398

g. Finance leases

The finance lease liabilities are analyzed as follows:

	Millions of yen	
	2018	2017
Finance lease liabilities - minimum lease payments		
not later than one year	23	25
later than one year and not later than five years	44	60
Present value of finance lease liabilities	67	85

The maturity of the present value of finance lease liabilities is as follows:

	Millions of yen	
	2018	2017
Not later than one year	23	25
Later than one year and not later than five years	44	60
Present value of finance lease liabilities	67	85

The fair value of the Group's non-current finance lease liabilities equates to book value.

It is the Group's policy to lease certain of its plant and equipment under finance leases. Interest rates are fixed at the contract date. The majority of the Group's leases are subject to fixed interest rates and all leases are on a fixed repayment basis.

26. Trade and other payables

	Note	Millions of yen	
		2018	2017
Trade payables		88,211	78,232
Amounts owed to related parties (trading)	38	2,826	2,511
Loans from related parties		12	32
Social security and other taxes		5,982	6,687
Other payables		22,398	22,585
Accruals		14,861	14,190
		134,290	124,237
Current		133,538	123,794
Non-current		752	443
		134,290	124,237

The directors consider that the carrying amount of trade and other payables approximates to their fair value.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

27. Pensions and other post-employment benefits

The Group operates a number of defined benefit pension arrangements, together with related arrangements, which are required to be disclosed as post-employment or other long-term benefits under IAS 19. The defined benefit pension arrangements cover schemes operating in Japan, the UK, Germany, Austria, the USA, Canada and Sweden and there are leaving indemnity arrangements in Italy and Austria, together with phased retirement (Altersteilzeit) and long service arrangements in Germany.

The defined benefit pension schemes are closed with the exception of those in Japan, Canada and Sweden. The German and UK defined benefit pension schemes are closed to new members but continuing employees accrue pension rights covering their current employment. Although benefits are accruing in the UK plans, the definition of pensionable salary has been 'frozen' so that benefits no longer increase in line with salary increases.

All the pension schemes are unfunded except for those in Japan, the UK, the USA and Canada. The assets of the funded schemes are generally held in separately administered trusts, either as specific assets or as a proportion of a general fund, or are insurance contracts. Pension scheme assets held in trust are governed by local regulations and practice in each country. Responsibility for governance of the schemes - including investment decisions and contribution schedules - lies either with the Group or jointly with the Group and the board of trustees.

Through its defined benefit pension schemes, the Group is exposed to a number of risks, the most significant of which are detailed below:

Asset volatility	The liabilities are calculated using a discount rate set with reference to corporate bond yields; if assets underperform against this yield, this will create a deficit. All funded schemes hold a significant proportion of growth assets, which are expected to outperform corporate bonds in the long-term while providing volatility and risk in the short-term. The allocation to growth assets is monitored regularly to ensure it remains appropriate and in line with the Group's long-term strategy to manage the schemes.
Changes in bond yields	A decrease in corporate bond yields will increase the scheme liabilities, although this will be partially offset by an increase in the value of the schemes' bond holdings.
Inflation risk	Much of the UK schemes' benefit obligations are linked to inflation, and higher inflation will lead to higher liabilities (although, in most cases, caps on the level of inflationary increases are in place to protect against extreme inflation). The Pilkington Superannuation Scheme (PSS) hedges 85% of liability movements against interest and inflation rate volatility.
Life expectancy	The majority of the plans' obligations are to provide benefits for the life of the member, and in some cases, their spouse on death of the member, so increases in life expectancy will result in an increase in the liabilities. Some of the longevity risk in the main UK plan is hedged with a longevity swap which was put in place in 2012. In August 2016 NSG entered into an agreement with the Pension Insurance Corporation (PIC) to insure pensions in payment for a group of current pensioners in the UK main plan. The plan now holds annuity contracts to cover these thereby removing all risks in respect of these pensions.

Pension plan assets are invested in different asset classes in order to maintain a balance between risk and return. The main plans use government and corporate bonds as well as cash as liability matching assets. The remainder of the asset classes are used as return seeking assets. Investments are well diversified to limit the financial effect of the failure of any individual investment.

The largest pension scheme is in the UK. This scheme, the Pilkington Superannuation Scheme (PSS), covered 777 employees, 2,784 deferred members and 9,984 pensioners as at 31 March 2018. This scheme was closed to new members with effect from 30 September 2008. This scheme is subject to applicable UK employment laws and is governed by a Board of Trustees. The Board of Trustees consists of seven member nominated directors and seven employer nominated directors. Of the employer nominated directors, two are independent and five are current or former employees of the Group. The Board of Trustees is responsible for the overall governance of the scheme and the management of its assets.

Prior to 1 January 2009, employer contributions under the PSS's governing trust deed were fixed at 10.5 percent of pensionable salary for active members. However, with effect from that date, employer contributions are now levied at 16 percent of pensionable salary for active members accruing on a 1/60th basis, and 12.5 percent for active members accruing on a 1/80th basis.

A formal funding valuation of the scheme's liabilities is carried out using a prudent basis, as agreed between the Trustee and the Company, every three years. If the funding valuation reveals a deficit the Trustee agree with the Group a plan for recovering that deficit. Following the actuarial valuation as at 31 December 2014, the Group has agreed a funding plan which requires annual deficit contributions of £25 million (¥3,675 million at FY2018 exchange rates) payable up to and including 2018. For the financial years FY2020 to FY2022 the Company has agreed with the Trustee to set up and contribute to an escrow account in favor of the scheme. This will provide further security to the scheme should it be required in the future in order to meet the scheme's funding targets or in the unlikely event of a company insolvency. The contributions to the escrow account will be not more than £12 million (¥1,764 million at FY2018 exchange rates) per year.

The Group has an unconditional right to a refund of surplus, as defined under IFRIC 14 and considers that the possibility that a surplus could be reduced or extinguished by discretionary actions by the trustee does not affect the existence of the asset at the end of the reporting period. The Group therefore recognizes a pension asset with respect to this scheme valued on an IAS19R basis. No liability is recognized with respect to further funding contributions.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The investment objectives and asset allocation policy adopted by the Trustee are defined in the scheme's Statement of Investment Principles and associated documentation. The Company and Trustee continue to investigate jointly any potential opportunities to de-risk the PSS including but not limited to the composition of the investment portfolio and further use of buy-in policies when this becomes financially attractive.

The Group operates a number of defined benefit pension plans in Japan. These plans are of cash balance design and generally provide lump sums at retirement. The plans are governed by the Japanese Ministry of Health, Labor and Welfare in accordance with the Defined Benefit Corporate Pension Law. They are subject to minimum funding requirements stipulated in law, which requires the plan sponsor to pay additional contributions to achieve a minimum funding level within a certain time scale if the plan does not hold sufficient assets. The largest Japanese plan covers employees of Nippon Sheet Glass Company, Limited, NSG Co Ltd (Tarui), and NSG Co Ltd (Tsu). The latest valuation for this plan was carried out as at 31 March 2016, and showed a surplus of ¥2,272 million. The investment strategy is determined by the Trustee and the current strategic allocation is approximately 22% equity, 78% bonds and insurance products.

The Group also operates post-retirement healthcare and life insurance benefits for employees, retirees and their dependents in the USA and for retirees in the UK. The method of accounting, assumptions and the frequency of actuarial valuations are similar to those used for defined benefit pension schemes.

Balance sheet obligations (assets) are as follows:

	Millions of yen	
	2018	2017
Recognized in non-current (assets):		
Pension and early-retirement benefit schemes in surplus	(27,144)	(19,227)
Recognized in Pension and other long-term benefit obligations:		
Pension and early-retirement benefit schemes in deficit	47,871	46,181
Post-retirement healthcare benefits	23,913	24,506
Long service arrangements	153	139
Total recognized in Pension and other long-term benefit obligations	71,937	70,826
Net liability in the balance sheet	44,793	51,599

(Charges)/credits in the income statement and statement of comprehensive income are as follows:

	Millions of yen						
	2018			2017			
	Note	Operating profit	Finance costs	SoCI*	Operating profit	Finance costs	SoCI*
Pension and early-retirement benefits		(3,851)	(88)	6,367	(3,516)	22	185
Post-retirement healthcare benefits		(27)	(911)	(677)	(45)	(919)	136
Long service arrangements		(7)	(1)	-	(7)	(1)	-
Deferred income and other taxes**	20	-	-	(3,941)	-	-	(2,154)
At 31 March		(3,885)	(1,000)	1,749	(3,568)	(898)	(1,833)

* Statement of comprehensive income

** Of the deferred income and other taxes, a charge of ¥566 million (2017: ¥524 million) is included within deferred tax (note 20). Other taxes of ¥3,375 million (2017: ¥1,630 million) are included as a charge against the pension asset.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Excluding long service arrangements, the amounts recognized in the balance sheet are determined as follows:

	Millions of yen				
	2018				Post-retirement healthcare
	Pension and early retirement benefits				
Japan	UK	Rest of world	Total	Total	
Present value of the funded benefit obligation	35,336	239,325	26,252	300,913	—
Fair value of assets of the plans	(33,622)	(281,085)	(21,480)	(336,187)	—
Deficit/(surplus) in the funded plans	1,714	(41,760)	4,772	(35,274)	—
Present value of the unfunded benefit obligation	—	4,575	36,810	41,385	23,913
Net liability/(asset) in the balance sheet	1,714	(37,185)	41,582	6,111	23,913
Taxes relating to refund of pension fund surplus	—	14,616	—	14,616	—
Net liability/(asset) in the balance sheet after tax on refund	1,714	(22,569)	41,582	20,727	23,913
Included in non-current assets	—	(27,144)	—	(27,144)	—
Included in pension and other long-term benefit obligations	1,714	4,575	41,582	47,871	23,913

	Millions of yen				
	2018				Post-retirement healthcare
	Pension and early retirement benefits				
Japan	UK	Rest of world	Total	Total	
Present value of the funded benefit obligation	35,247	237,153	28,957	301,357	—
Fair value of assets of the plans	(32,422)	(266,733)	(22,856)	(322,011)	—
Deficit/(surplus) in the funded plans	2,825	(29,580)	6,101	(20,654)	—
Present value of the unfunded benefit obligation	—	4,476	32,779	37,255	24,506
Net liability/(asset) in the balance sheet	2,825	(25,104)	38,880	16,601	24,506
Taxes relating to refund of pension fund surplus	—	10,353	—	10,353	—
Net liability/(asset) in the balance sheet after tax on refund	2,825	(14,751)	38,880	26,954	24,506
Included in non-current assets	—	(19,227)	—	(19,227)	—
Included in pension and other long-term benefit obligations	2,825	4,476	38,880	46,181	24,506

The weighted average duration of the pension obligations across all plans was 13 years as at 31 March 2018.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Excluding long service arrangements, the amounts recognized in the income statement are as follows:

	Millions of yen				
					2018
	Pension and early retirement benefits				Post-retirement healthcare
	Japan	UK	Rest of world	Total	Total
Current service cost	(1,339)	(1,587)	(459)	(3,385)	(27)
Past service cost	-	(70)	(17)	(87)	-
Settlements and terminations losses	-	(83)	7	(76)	-
Administration expenses	(13)	(16)	(274)	(303)	-
Operating profit charge	(1,352)	(1,756)	(743)	(3,851)	(27)
Net interest on the net defined benefit liability	(18)	783	(853)	(88)	(911)
Finance costs – (charge)/credit	(18)	783	(853)	(88)	(911)
Total income statement charge	(1,370)	(973)	(1,596)	(3,939)	(938)

	Millions of yen				
					2017
	Pension and early retirement benefits				Post-retirement healthcare
	Japan	UK	Rest of world	Total	Total
Current service cost	(1,301)	(1,381)	(397)	(3,079)	(45)
Past service cost	-	-	(58)	(58)	-
Settlements and terminations losses	-	(60)	-	(60)	-
Administration expenses	(13)	(14)	(292)	(319)	-
Operating profit charge	(1,314)	(1,455)	(747)	(3,516)	(45)
Net interest on the net defined benefit liability	(8)	840	(810)	22	(919)
Finance costs – (charge)/credit	(8)	840	(810)	22	(919)
Total income statement charge	(1,322)	(615)	(1,557)	(3,494)	(964)

Including charges with respect to long service arrangements, of the total charge to operating profit of ¥3,885 million (2017: ¥3,568 million), a charge of ¥1,561 million (2017: ¥1,405 million) is included in cost of sales, a charge of ¥136 million (2017: ¥82 million) is included within distribution costs, a charge of ¥2,166 million (2017: ¥2,021 million) is included within administrative expenses, a charge of ¥29 million (2017: ¥60 million) is included within exceptional items and a credit of ¥7 million (2017: nil) is included within other income.

The actual return on the various plan assets was a gain of ¥7,216 million (2017: ¥37,026 million). The Group expects to contribute ¥9,506 million to pension plans during the next financial period and ¥1,740 million to post-retirement healthcare plans.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The (charges)/credits recognized in the statement of comprehensive income during the period are as follows:

	Millions of yen				
					2018
	Pension and early retirement benefits				Post-retirement healthcare
	Japan	UK	Rest of world	Total	Total
Actual return less interest income on plan assets recognized in the income statement	1,499	(3,456)	841	(1,116)	-
Experience gains arising on schemes' liabilities	162	4,883	167	5,212	136
Changes in the financial assumptions underlying the present value of the schemes' liabilities	(373)	1,640	(1,692)	(425)	(1,237)
Changes in the demographic assumptions underlying the present value of the schemes' liabilities	-	2,401	295	2,696	424
	1,288	5,468	(389)	6,367	(677)

	Millions of yen				
					2017
	Pension and early retirement benefits				Post-retirement healthcare
	Japan	UK	Rest of world	Total	Total
Actual return less interest income on plan assets recognized in the income statement	714	26,903	221	27,838	-
Experience gains/(losses) arising on schemes' liabilities	(1,012)	2,910	(557)	1,341	(1,944)
Changes in the financial assumptions underlying the present value of the schemes' liabilities	414	(29,773)	637	(28,722)	1,438
Changes in the demographic assumptions underlying the present value of the schemes' liabilities	(616)	(195)	539	(272)	642
	(500)	(155)	840	185	136

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The movements in the present value of the Defined Benefit Obligations (DBO) recognized in the balance sheet are as follows:

	Millions of yen				
	Pension and early retirement benefits				Post-retirement healthcare
	Japan	UK	Rest of world	Total	Total
At 1 April 2016	34,054	252,249	67,301	353,604	25,341
Current service cost	1,301	1,381	397	3,079	45
Interest cost on the schemes' liabilities	166	7,368	1,632	9,166	919
Members' contributions	—	51	—	51	—
Plan amendments	—	—	58	58	—
Settlements and terminations	—	60	—	60	—
Actuarial losses	1,214	27,058	(619)	27,653	(136)
Benefits paid	(1,488)	(11,554)	(4,300)	(17,342)	(1,266)
Exchange differences	—	(34,984)	(2,733)	(37,717)	(397)
At 31 March 2017	35,247	241,629	61,736	338,612	24,506
Current service cost	1,339	1,587	459	3,385	39
Interest cost on the schemes' liabilities	276	6,437	1,707	8,420	911
Members' contributions	—	19	—	19	—
Plan amendments	—	70	17	87	(12)
Settlements and terminations	—	83	(7)	76	—
Actuarial losses	211	(8,924)	1,230	(7,483)	677
Benefits paid	(1,737)	(15,785)	(4,357)	(21,879)	(1,183)
Exchange differences	—	18,784	2,277	21,061	(1,025)
At 31 March 2018	35,336	243,900	63,062	342,298	23,913

The movements in the fair value of assets recognized in the balance sheet are as follows:

	Millions of yen				
	Pension and early retirement benefits				Post-retirement healthcare
	Japan	UK	Rest of world	Total	Total
At 1 April 2016	31,722	276,359	24,884	332,965	—
Members' contributions	—	51	—	51	—
Settlements and terminations	—	60	—	60	—
Return on plan assets (excluding amount included in interest income)	714	26,903	221	27,838	—
Benefits paid	(1,488)	(11,554)	(4,300)	(17,342)	(1,266)
Expenses paid	(13)	(14)	(292)	(319)	—
Employer's contributions	1,329	5,089	1,902	8,320	1,266
Interest income on assets	158	8,208	822	9,188	—
Exchange differences	—	(38,369)	(381)	(38,750)	—
At 31 March 2017	32,422	266,733	22,856	322,011	—
Members' contributions	—	19	—	19	—
Settlements and terminations	—	83	—	83	—
Return on plan assets (excluding amount included in interest income)	1,499	(3,456)	841	(1,116)	—
Benefits paid	(1,737)	(15,785)	(4,357)	(21,879)	(1,183)
Expenses paid	(13)	(16)	(274)	(303)	—
Employer's contributions	1,193	5,314	2,483	8,990	1,183
Interest income on assets	258	7,220	854	8,332	—
Exchange differences	—	20,973	(923)	20,050	—
At 31 March 2018	33,622	281,085	21,480	336,187	—

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The movements in the net liability recognized in the balance sheet are as follows (excluding taxation arising on refund of surplus):

	Millions of yen				
	Pension and early retirement benefits				Post-retirement healthcare
	Japan	UK	Rest of world	Total	Total
At 1 April 2016	(2,332)	24,110	(42,417)	(20,639)	(25,341)
Total charge recognized in the income statement	(1,322)	(615)	(1,557)	(3,494)	(964)
Total credit/(charge) recognized in other comprehensive income	(500)	(155)	840	185	136
Employer's contributions	1,329	5,089	1,902	8,320	1,266
One-off employer contributions for financing terminations	—	60	—	60	—
Exchange differences	—	(3,385)	2,352	(1,033)	397
At 31 March 2017	(2,825)	25,104	(38,880)	(16,601)	(24,506)
Total charge recognized in the income statement	(1,370)	(973)	(1,596)	(3,939)	(938)
Total credit/(charge) recognized in other comprehensive income	1,288	5,468	(389)	6,367	(677)
Employer's contributions	1,193	5,314	2,483	8,990	1,183
One-off employer contributions for financing terminations	—	83	—	83	—
Exchange differences	—	2,189	(3,200)	(1,011)	1,025
At 31 March 2018	(1,714)	37,185	(41,582)	(6,111)	(23,913)

The principal actuarial assumptions (calculated as weighted averages over the various Group plans) were as follows:

	2018			2017		
	Japan	UK	Rest of World	Japan	UK	Rest of World
Discount rate	0.70%	2.60%	2.50%	0.80%	2.60%	2.80%
Future salary increases*	2.40%	—	2.30%	2.40%	—	2.30%
Future pension increases	—	1.20%	1.70%	—	0.90%	1.70%
Consumer Price inflation	0.25%	2.00%	1.90%	0.25%	2.10%	1.90%
Long-term increase in healthcare costs	—	4.60%	4.50%	—	3.70%	4.50%

* The weighted average future salary increases exclude frozen salaried plans; UK PSS, NGF and US salaried plan.

The Group uses appropriate mortality tables in each geographical location. The mortality assumptions used for the valuation of the PSS (which accounts for around 65 percent of the Group's total Defined Benefit Obligation) at 31 March 2018 are based on the 'SAPS2' standard UK mortality tables, with an adjustment to reflect actual mortality experience of members of that scheme based on recent experience investigations carried out by the scheme's Trustees. Future improvements in mortality have been allowed for in line with the CMI 2016 Core Projections with a long-term rate of mortality improvements of 1.25 percent per annum. Expected future lifetimes of pensioners using this mortality basis are shown below:

	31 March 2018
	Years
Expected future lifetime of a current pensioner aged 60	
- Men	26.5
- Women	28.6
Expected future lifetime, at age 60, of a future pensioner aged 60 in 20 years time	
- Men	27.9
- Women	30.1

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The composition and fair value of the schemes' assets are:

	Millions of yen					
	2018					
	Japan		UK		Rest of World	
	Quoted	Unquoted	Quoted	Unquoted	Quoted	Unquoted
Domestic government bonds	13,548	–	156,882	–	253	–
Domestic corporate bonds	–	1,073	46,592	–	18,228	–
Overseas bonds	3,413	1,686	–	–	–	–
Domestic equities	6,970	–	5,149	–	577	–
Overseas equities	2,085	–	38,962	5,535	394	–
Property	–	–	377	2,010	–	–
Cash	–	789	48	210	1,907	–
Other	–	4,058	–	25,320*	121	–
	26,016	7,606	248,010	33,075	21,480	–

* Note: this includes ¥29,385 in respect of the buy-in assets and a negative asset of ¥4,065 in respect of the longevity swap.

	Millions of yen					
	2017					
	Japan		UK		Rest of World	
	Quoted	Unquoted	Quoted	Unquoted	Quoted	Unquoted
Domestic government bonds	13,380	–	132,029	–	272	–
Domestic corporate bonds	–	1,317	42,798	–	21,147	–
Overseas bonds	2,717	1,663	–	–	75	–
Domestic equities	5,885	–	4,797	–	565	–
Overseas equities	2,130	–	42,921	5,824	346	–
Property	–	–	323	2,863	–	–
Cash	–	1,317	24	8,285	325	–
Other	–	4,013	–	26,869*	126	–
	24,112	8,310	222,892	43,841	22,856	–

* Note: this includes ¥29,432 in respect of the buy-in assets and a negative asset of ¥2,563 in respect of the longevity swap.

The principal assumptions used to determine the Defined Benefit Obligation (DBO) are the discount rate, inflation rate and the mortality basis. The sensitivity of the DBO to changes in each of these assumptions is set out below for the material plans in UK and Japan:

Assumption	Change in assumption	Impact on scheme liabilities (%)	
		Japan	UK
Discount rate	Increase/decrease by 0.5%	Decrease/increase by 5.1% / 5.6%	Decrease/increase by 6.6% / 7.4%
Inflation rate	Increase/decrease by 0.5%	n/a	Increase/decrease by 3.5% / 3.1%
Mortality	Increase life expectancy by one year	n/a	Increase by 4.1%

Sensitivities in the above table consider only the impact of assumption changes on gross scheme liabilities. As discussed earlier in this note, changes in discount rates which would be reflected in changes in bond yields, would be partially offset by a change in the value of bond holdings within funded schemes.

A one percent reduction in healthcare cost trend rates would result in a decrease in the benefit obligation of ¥704 million and a decrease in the interest and service costs of ¥22 million. A one percent increase in healthcare cost trend rates would result in an increase in the benefit obligation of ¥416 million and an increase in the interest and service costs of ¥15 million. The above trend rate sensitivities take into account the fact that increases in employer costs are subject to an annual cap.

The above sensitivity analyses are generally based on a change in one assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and some changes of the assumptions may be correlated. Where relevant, the inflation sensitivity above includes changes to any inflation linked pension increases.

When calculating the sensitivity of the DBO to significant assumptions the same method has been applied as when calculating the pension liability recognized in the statement of financial position. The methods and types of assumptions used in preparing the sensitivity analysis did not change compared to previous periods.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

28. Provisions

Millions of yen

	Note	Warranty	Redundancy and Restructuring	Bonus	Environmental	Claims and litigation	Other	Total
At 1 April 2017		396	2,850	7,117	8,279	4,679	7,673	30,994
Exchange differences		32	218	314	(120)	(156)	121	409
Disposal of businesses		(5)	–	–	–	–	–	(5)
Charged to the income statement								
Charged to provisions		387	4,373	8,622	82	2,183	1,519	17,166
Effect of discounting	8	–	–	–	218	–	–	218
Released to the income statement in the period		(195)	(425)	(1,036)	(45)	(811)	(738)	(3,250)
Utilized in the period		(84)	(4,022)	(7,161)	(273)	(1,122)	(551)	(13,213)
At 31 March 2018		531	2,994	7,856	8,141	4,773	8,024	32,319
Current		335	2,803	7,523	428	1,491	3,836	16,416
Non-current		196	191	333	7,713	3,282	4,188	15,903
		531	2,994	7,856	8,141	4,773	8,024	32,319

Millions of yen

	Note	Warranty	Redundancy and Restructuring	Bonus	Environmental	Claims and litigation	Other	Total
At 1 April 2016		445	3,624	3,670	7,348	10,594	7,012	32,693
Exchange differences		(31)	(237)	(58)	(120)	(584)	(82)	(1,112)
Charged to the income statement								
Charged to provisions		92	3,615	9,972	1,430	1,456	1,490	18,055
Effect of discounting	8	–	–	–	216	–	–	216
Released to the income statement in the period		(86)	(1,396)	(403)	(307)	(1,509)	(322)	(4,023)
Utilized in the period		(24)	(2,756)	(6,064)	(288)	(5,278)	(425)	(14,835)
At 31 March 2017		396	2,850	7,117	8,279	4,679	7,673	30,994
Current		294	2,083	6,314	626	1,222	3,552	14,091
Non-current		102	767	803	7,653	3,457	4,121	16,903
		396	2,850	7,117	8,279	4,679	7,673	30,994

Warranty provisions are created where the Group has given a guarantee to cover the reliability and performance of products over an extended period. Warranty provisions are calculated based on historical claims levels. Future claim levels could be different to historical claims, although changes in claims levels are not expected to have a material effect on the amounts provided. Warranty provisions are expected to be utilized over the warranty periods granted, resulting in an average period of utilization of less than two years.

Redundancy and restructuring provisions relate to provisions set up in Architectural amounting to ¥610 million (2017: ¥1,539 million), Automotive ¥2,369 million (2017: ¥1,185 million), Technical Glass ¥7 million (2017: ¥84 million) and Other Operations ¥8 million (2017: ¥42 million). Redundancy and restructuring provisions are established when the Group has a detailed formal plan and has announced that plan to the employees affected. The eventual outcome of such restructuring programs is unlikely to be materially different to the amounts provided as the provision is calculated based on specific data on the number of employees affected and related employment termination costs. Redundancy and restructuring provisions are expected to be utilized mainly within the next financial period.

Bonus provisions are established on the accrued expected payment with respect to bonus schemes offered to employees. These are calculated with reference to the performance of the Group in comparison to the metrics within the bonus scheme. Where this relates to expectations of future performance, the Group compares its estimates of expected future performance with the metrics of the bonus scheme, to calculate an expected future bonus payment.

Environmental provisions cover the cost of remediating environmental issues where the Group has a constructive or legal obligation to do so. At 31 March 2018, ¥971 million (2017: ¥962 million) of this provision was recorded in Architectural, ¥53 million (2017: ¥59 million) was recorded in Automotive, ¥287 million (2017: ¥285 million) was recorded in Technical Glass and ¥6,830 million (2017: ¥6,973 million) was recorded in Other Operations. The environmental provision in Other Operations relates primarily to historic liabilities in North America.

Claims and litigation provisions cover a variety of claims and potential settlements. Included in this category are historic employee and public liability issues, some of which are the subject of litigation. Where appropriate this provision includes an element of Incurred But Not Reported (IBNR) liabilities.

Other provisions relate principally to immaterial pension provisions of ¥3,916 million (2017: ¥3,836 million), cumulative leave provisions of ¥2,979 million (2017: ¥2,979 million) and onerous lease and rental provisions of ¥79 million (2017: ¥101 million).

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

29. Deferred income

	Millions of yen	
	2018	2017
Deferred income	7,804	7,337
Government grants	4,492	4,366
	12,296	11,703
Current	2,973	2,733
Non-current	9,323	8,970
	12,296	11,703

	Millions of yen		
	Note	2018	2017
At 1 April		11,703	13,111
Exchange differences		528	(605)
Deferred income receivable		3,270	2,433
Released to income statement	2	(3,205)	(3,236)
At 31 March		12,296	11,703

Deferred income comprises of customer contributions to automotive tooling costs ¥7,265 million (2017: ¥6,835 million) and other deferred income of ¥539 million (2017: ¥502 million). The former principally comprises income received from automotive customers, whereby the tool (carried in property, plant and equipment within non-current assets) is depreciated over the same period as the related deferred income is amortized to the income statement.

Government grants mainly arise in the European Architectural and Automotive businesses and relate to capital expenditure grants in the UK, Germany, Italy and Poland. Government grants are recognized in the income statement on a straight-line basis over the period of the grant. There are no unfulfilled conditions or contingencies relating to government grants recognized as deferred income.

30. Share based payments

The Group operates a number of equity settled, share-based payment plans, under which the entity receives services from Directors, Executive Officers, Senior Corporate Officers or Corporate Officers as consideration for equity instruments (options) of the Group. The fair value of the employee services received in exchange for the grant of options is calculated using the Black-Scholes model. In accordance with IFRS 2 'Share-based Payment', the resulting cost is recognized in the income statement over the vesting period of the options, being the period in which the services are received. All plans are classified as equity settled.

The expense recognized for compensation type share options received during the period is shown below:

	Millions of yen		
	Note	2018	2017
Total expenses arising from share-based payment transactions	7	71	86

There have been no cancellations or modifications to any of the plans during 2018 or 2017.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

30. Share based payments

Each share option entitles the recipient to acquire one hundred shares of common stock. Movements in the number of stock compensation-type stock options outstanding and their related weighted average exercise price are as follows:

	2018		2017	
	Weighted average exercise price Yen/share	Options	Weighted average exercise price Yen/share	Options
At 1 April	1	6,847	34	6,104
Granted	1	917	1	1,304
Exercised	1	(1,218)	1	(216)
Expired	—	—	578	(345)
At 31 March	1	6,546	1	6,847

Out of the 6,546 outstanding options (2017: 6,847 options), 2,111 options (2017: 1,601 options) were exercisable. Options exercised in 2018 resulted in 121,800 shares (2017: 21,600 shares) being transferred at a price of 1 yen each (2017: 1 yen each). The related weighted average share price at the time of exercise was 869 yen (2017: 834 yen) per share.

On 1 October 2016, the Company conducted a share consolidation in which every ten common shares were consolidated into one common share. Numbers of shares and weighted average share price are calculated under the assumption that this share consolidation was conducted on 1 April 2016.

Share options outstanding at the end of the period have the following expiry date and exercise prices:

Stock option	Expiry date	Exercise price in yen/share	2018	2017
			Shares	Shares
2007 Stock Options	28 September 2037	1	—	3,600
2008 Stock Options	27 September 2038	1	6,500	13,900
2009 Stock Options	30 September 2039	1	14,000	28,500
2010 Stock Options	30 September 2040	1	6,600	19,100
2011 Stock Options	14 October 2041	1	12,400	28,200
2012 Stock Options	28 September 2042	1	88,400	131,800
2013 Stock Options	15 October 2043	1	124,200	144,200
2014 Stock Options	30 September 2044	1	85,200	89,800
2015 Stock Options	30 September 2045	1	95,200	95,200
2016 Stock Options	14 October 2046	1	130,400	130,400
2017 Stock Options	29 September 2047	1	91,700	—
			654,600	684,700

There are no vesting conditions for these stock options.

Method for estimating the fair value per share of stock options

The fair value of options granted during the period is determined using the Black-Scholes valuation model and the significant inputs into the model are listed below.

	Note	2017 plan	2016 plan
Share price at grant date (yen)		875	809
Exercise price (yen)		1	1
Expected volatility of the share price	i	41.2%	42.9%
Expected remaining life of the option	ii	7 years	7 years
Expected dividend	iii	15.0 yen/share	24.0 yen/share
Risk-free interest rate	iv	(0.02)%	(0.19)%

Notes:

- The volatility of the share price for the 2017 plan is estimated by taking into account the actual share prices for seven years (from 1 October 2010 to 29 September 2017 (2016 plan: seven years (from 16 October 2009 to 14 October 2016))).
- The expected remaining life of the option is estimated reflecting the actual conditions of the option, taking into account that any person to whom the stock options were allotted may exercise the stock options five years after the holders' tenure as a Director, an Executive Officer, Senior Corporate Officer or a Corporate Officer had ended.
- Expected dividends for the 2017 plan is based on the actual dividends paid in the seven year period between 31 March 2011 and 31 March 2018 (2016 plan: based on the actual dividends paid in the seven year period between 31 March 2010 and 31 March 2017).
- The risk-free interest rate represents the yield on Government bonds for the period that corresponds to the expected remaining life of each option

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

31. Called up share capital

	Number of shares	
	2018	2017
Shares authorized		
Common shares	177,500,000	177,500,000
Class A shares	40,000	40,000
Shares issued		
Common shares of no par value each	90,487,499	90,365,699
Class A shares of JPY 1,000,000 per share	40,000	40,000
Treasury shares		
Common shares	14,465	11,489

	Note	Millions of yen			
		2018		2017	
		Number of shares	Value	Number of shares	Value
Issued and fully paid common shares					
At 1 April		90,365,699	116,463	90,355,099	116,449
Increase due to exercise of share options		121,800	83	10,600	14
At 31 March		90,487,499	116,546	90,365,699	116,463
Issued and fully paid Class A (preferred) shares					
At 1 April		40,000	—	—	—
Issuance of Class A (preferred) shares	32	—	—	40,000	20,000
Transfer from share capital to capital surplus	32	—	—	—	(20,000)
At 31 March		40,000	—	40,000	—

On 1 October 2016, the Company conducted a share consolidation in which every 10 common shares were consolidated into one common share. The number of common shares at 1 April 2016 in the above table has been restated as though this share consolidation had already happened at that date.

As at 31 March 2017, the Group issued Class A shares with a resulting increase to issued share capital of ¥20,000 million and an increase to capital surplus of ¥20,000 million. The issuance of Class A shares improves the strength of the Group's balance sheet providing funds to enable the repayment of debt and investment in VA capital equipment in the Group's businesses.

The preferred dividend rate of Class A shares is set at 4.5% a year if the record date falls before 31 March 2018, 5.5% a year if the record date falls between 1 April 2018 to 31 March 2020, and 6.5% a year if the record date falls on 1 April 2020 or thereafter. Class A Shareholders are entitled to receive dividends in priority to common shareholders. If preferred dividends for Class A Shareholders are insufficient in a business year, the said shortfall will be carried forward to the following business year and beyond. In principle, Class A Shareholders are not entitled to receive dividends of common shares of the Company in addition to the said preferred dividends.

Following the year end, the Company proposed payment of ¥1,800 million, with respect to dividends on Class A shares equating to ¥45,000 per share. The expected date of payment is 28 June 2018. This dividend relates to the accrual period to 31 March 2018 but was not provided in the balance sheet as at 31 March 2018 as no obligation existed at that date.

For Class A shares, call options for money and put options the consideration for which is common shares are attached.

Any time on or after 1 April 2018, the Company may acquire all or a part of Class A shares in exchange for cash.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Class A Shareholders are entitled to exercise put options, the consideration for which is common shares on or after 1 July 2020, as long as a Conversion Restriction Removal Reason has not occurred, as provided for in the Class A shares Agreement (the Agreement). The number of common shares to be delivered if the put options are exercised will be the number (excluding the total amount of the Amount Equivalent to Cumulative Accrued Dividends and Daily Prorated Accrued Preferred Dividend Amount) calculated by multiplying the amount equivalent to the amount to be paid in for the Class A shares for which the put options are exercised by the following factor, depending on the day when the put options are exercised, and dividing that product by the acquisition price of the common shares.

From 1 April 2017 to 30 June 2017:	1.05
From 1 July 2017 to 30 June 2018:	1.08
From 1 July 2018 to 30 June 2019:	1.15
From 1 July 2019 to 30 June 2020:	1.22
From 1 July 2020 to 30 June 2021:	1.29
From 1 July 2021 to 30 June 2022:	1.36
From 1 July 2022 onward	1.43

The acquisition price of common shares is 846.5 yen, which is equivalent to 95% (calculated to the second decimal place below one (1) yen and rounded to the first decimal place) of the average value of the Volume Weighted Average Price (VWAPs; calculated to the second decimal place below one (1) yen and rounded to the first decimal place) in ordinary trading of the common shares of the Company, publicly announced on the Tokyo Stock Exchange, Inc. over 30 consecutive trading days prior to 2 February 2017 (the signing date of the Agreement).

Class A shares do not have voting rights and are subject to restrictions on transfer.

Capital management

The Group considers that called up share capital and capital surplus together constitutes its capital, and they are managed in such a way as to improve its financial strength consistent with its strategy. The directors will consider this position on an ongoing basis in line with the Group's performance. Capital may be issued where the directors consider that the beneficial impact of a strengthened balance sheet or the returns on investment that would be generated by investing such funds into new projects, would outweigh any potential dilutive effects from that new share issuance. When the Group issues share capital other than common shares, the directors consider the rights and obligations attaching to the shares issued and would prioritize repayment of such shares over and above other potential uses of its funds where appropriate to do so. During FY2017, the Group issued Class A shares improving the strength of the Group's balance sheet and providing funds to enable the repayment of debt and investment in VA capital equipment in the Group's businesses.

32. Capital surplus

	Note	Millions of yen	
		2018	2017
At 1 April		166,578	127,511
Issuance of Class A shares	31	–	20,000
Share issuance costs		–	(946)
Transfer from share capital to capital surplus	31	–	20,000
Issuance and purchase of treasury stock		83	(12)
Transfer from retained earnings to capital surplus	33	–	25
At 31 March		166,661	166,578

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

33. Retained earnings

	Note	2018	2017
At 1 April		(59,646)	(63,502)
Profit for the period		6,130	5,605
Retirement benefit obligations	27	5,690	321
Deferred taxation on retirement benefit obligations	20, 27	(3,941)	(2,154)
Share of comprehensive income of joint ventures and associates		–	33
Expiration of share options		–	76
Transfer from retained earnings to capital surplus	32	–	(25)
Transfer from other reserves to retained earnings	34	(373)	–
At 31 March		(52,140)	(59,646)
Retained earnings (translation adjustment at the IFRS transition date)		(68,048)	(68,048)
Total retained earnings at 31 March		(120,188)	(127,694)

Transfer from other reserves to retained earnings relates to the amount in fair value reserve which is considered to be realized after the disposal of the Group's remaining interest in China Glass Holdings Ltd.

Nippon Sheet Glass Company, Limited is subject to The Corporation Law of Japan (the Law). The Law provides that an amount equal to 10 percent of the amount to be disbursed as distributions of capital surplus (other than the capital reserve) and retained earnings (other than the legal reserve) be transferred to the capital reserve and the legal reserve, respectively, until the sum of the capital reserve and the legal reserve equals 25 percent of the capital stock account. Such distributions can be made at any time by resolution of the shareholders, or by the Board of Directors if certain conditions are met.

34. Other reserves

	Note	Hedging reserve	Fair value reserve	Exchange translation reserve	Treasury stock	Stock subscription rights	Total
At 1 April 2017		(4,702)	30	(27,119)	(31)	621	(31,201)
Currency translation differences		–	–	10,200	–	–	10,200
Loss on net investment hedges	18	–	–	(2,713)	–	–	(2,713)
Cash flow hedges							
fair value gains in the period		1,092	–	–	–	–	1,092
transferred to income statement		770	–	–	–	–	770
deferred tax on fair value gains in the period	20	(450)	–	–	–	–	(450)
Assets held at fair value through other comprehensive income							
fair value losses in the period	17	–	(6,336)	–	–	–	(6,336)
transferred to income statement	17	–	(234)	–	–	–	(234)
deferred tax on fair value gains in the period	20	–	(89)	–	–	–	(89)
Purchase of treasury stock		–	–	–	(3)	–	(3)
Disposal of treasury stock		–	–	–	1	–	1
Share based payments		–	–	–	–	(95)	(95)
Transfer from other reserves to retained earnings	33	–	373	–	–	–	373
At 31 March 2018		(3,290)	(6,256)	(19,632)	(33)	526	(28,685)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

		Millions of yen					
	Note	Hedging reserve	Fair value reserve	Exchange translation reserve	Treasury stock	Stock subscription rights	Total
At 1 April 2016		(7,862)	6,117	(8,141)	(65)	650	(9,301)
Currency translation differences		—	—	(16,472)	—	—	(16,472)
Loss on net investment hedges	18	—	—	(2,506)	—	—	(2,506)
Cash flow hedges							
fair value gains in the period		2,324	—	—	—	—	2,324
transferred to income statement		1,887	—	—	—	—	1,887
deferred tax on fair value gains in the period	20	(1,051)	—	—	—	—	(1,051)
Assets held at fair value through other comprehensive income							
fair value losses in the period	17	—	(6,044)	—	—	—	(6,044)
transferred to income statement	17	—	(44)	—	—	—	(44)
deferred tax on fair value gains in the period	20	—	1	—	—	—	1
Purchase of treasury stock		—	—	—	(3)	—	(3)
Share based payments		—	—	—	37	(29)	8
At 31 March 2017		(4,702)	30	(27,119)	(31)	621	(31,201)

Hedging reserve

This reserve is used to record the portion of the gain or loss on a hedging instrument that is determined to be an effective hedge.

Of the net fair value gains of cash flow hedges transferred to the income statement of ¥770 million (2017: gains of ¥1,887 million), ¥4 million is charged to finance expenses (2017: ¥331 million), ¥3 million is charged (2017: credit of ¥70 million) to other expenses, and ¥777 million is credited (2017: credit of ¥2,148 million) to cost of sales.

Fair value reserve

This reserve records fair value changes on assets held at fair value through other comprehensive income.

Of the net fair value losses on assets held at fair value through other comprehensive income, ¥234 million is transferred to the income statement as a credit to other income (2017: ¥44 million).

Transfer from other reserves to retained earnings relates to the amount in fair value reserve which is considered to be realized after the disposal of the Group's remaining interest in China Glass Holdings Ltd.

Exchange translation reserve

This reserve is used to record exchange differences arising from the translation of the financial statements of foreign subsidiaries and the effect of hedging foreign net investments in foreign operations.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

35. Cash flow from operating activities

		Millions of yen	
	Note	2018	2017
Profit for the period from continuing operations		7,873	7,292
Adjustments for			
taxation	9	14,304	7,459
depreciation	13	27,896	26,742
amortization	12	4,134	5,447
impairments		622	3,970
reversal of impairment of non-current assets		(4,195)	(1,469)
profit on sale of property, plant and equipment		(2,381)	(8,177)
profit on sale of subsidiaries, joint ventures, associates and businesses		(51)	—
gain from exit of business	6	—	(855)
gain on disposal of investments in associates	6	(1,541)	(907)
movements in grants and deferred income	29	65	(803)
finance income	8	(1,080)	(1,380)
finance expense	8	15,704	20,554
share of profit from joint ventures and associates	15	(2,403)	(1,142)
other		(1,399)	(1,064)
Operating cash flows before movement in provisions and working capital		57,548	55,667
Decrease in provisions and retirement benefit obligations		(5,671)	(7,728)
Changes in working capital:			
inventories		(2,362)	(9)
construction work-in-progress		41	22
trade and other receivables		(2,898)	3,410
trade and other payables		6,831	3,161
Net change in working capital		1,612	6,584
At 31 March		53,489	54,523

In the cash flow statement, proceeds from the sale of property, plant and equipment, joint ventures and associates and investments are as follows:

	Millions of yen				
	2018				
	Property, plant and equipment	Joint ventures and associates	Assets held at fair value through other comprehensive income	Other	Total
Net book amount	1,684	—	5,313	270	7,267
Transfer from other comprehensive income	—	—	(234)	—	(234)
Profit on sale	2,381	—	234	88	2,703
Proceeds from sale	4,065	—	5,313	358	9,736

	Millions of yen				
	2017				
	Property, plant and equipment	Joint ventures and associates	Assets held at fair value through other comprehensive income	Other	Total
Net book amount	2,226	1,870	1,967	187	6,250
Transfer from other comprehensive income	—	(772)	(44)	—	(816)
Profit/(loss) on sale	8,177	907	44	(46)	9,082
Proceeds from sale	10,403	2,005	1,967	141	14,516

There were no non-cash transactions in the period ended 31 March 2018 or 31 March 2017.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

36. Earnings per share

Basic

Basic earnings per share is calculated by dividing the profit attributable to owners of the parent, after deducting dividends related to Class A shares, by the weighted average number of ordinary shares in issue during the year. The dividends related to Class A shares are calculated by the dividend rate defined in the terms and conditions of the shares. The weighted average number of ordinary shares excludes ordinary shares purchased by the Company and held as treasury shares.

	2018	2017
Profit attributable to owners of the parent (millions of yen)	6,130	5,605
Adjustment for;		
- Dividends on Class A shares (millions of yen)	1,800	—
Profit used to determine basic earnings per share (millions of yen)	4,330	5,605
Weighted average number of shares (thousands)	90,403	90,348
Basic earnings per share (yen)	47.90	62.04

Note: Effective as from 1 October 2016, the Company conducted a share consolidation in which every ten common shares were consolidated into one share. Basic earnings per share is calculated under the assumption that this share consolidation was conducted on 1 April 2016.

Diluted

Diluted earnings per share is calculated by adjusting the weighted average number of ordinary shares outstanding to assume conversion of all dilutive potential ordinary shares, following the exercise of share options and exercise of put options, attached to Class A shares, for which the consideration is common shares. As for share options, a calculation is performed to determine the number of shares that could have been acquired at fair value (determined as the average annual market share price of the Company's shares) based on the monetary value of the subscription rights attached to the outstanding share options. The number of shares calculated as above is deducted from the number of shares that would have been issued assuming the exercise of the share options. As for Class A shares, a calculation is performed to determine the number of shares that would have been issued, assuming a conversion to common shares that is most advantageous for holders of the class shares. Conversion of Class A shares to common shares is reflected in the diluted earnings per share, using the factor applied to the case where the put options are exercised from 1 July 2022 onward, if the conversion has dilutive effect.

	2018	2017
Profit attributable to owners of the parent (millions of yen)	6,130	5,605
Profit used to determine diluted earnings per share (millions of yen)	6,130	5,605
Weighted average number of common shares in issue (thousands)	90,403	90,348
Adjusted for;		
share options (thousands)	609	614
Class A shares (thousands)	67,572	185
Weighted average number of common shares for diluted earnings per share (thousands)	158,584	91,147
Diluted earnings per share (yen)	38.65	61.49

There have been no significant transactions involving common shares or potential common shares between the reporting date and the authorization of these financial statements.

Note: Effective as from 1 October 2016, the Company conducted a share consolidation in which every ten common shares were consolidated into one share. Diluted earnings per share is calculated under the assumption that this share consolidation was conducted on 1 April 2016.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

37. Commitments

Capital Commitments

Capital expenditure contracted for at the balance sheet date but not yet incurred is as follows:

	Millions of yen	
	2018	2017
Property, plant and equipment	756	516

Operating lease commitments

The Group leases various property, plant and equipment under non-cancellable operating lease agreements. The leases have varying terms, escalation clauses and renewal rights. The lease expenditure charged to the income statement during the period is disclosed in note 2.

The future aggregate minimum lease payments under non-cancellable operating leases which fall due are as follows:

	Millions of yen			
	2018		2017	
	Property	Plant and equipment	Property	Plant and equipment
Not later than one year	4,421	2,663	4,395	2,373
Later than one year and not later than five years	10,375	3,515	9,045	2,829
Later than five years	10,454	177	10,823	288
	25,250	6,355	24,263	5,490

38. Related party transactions

During the period, the Group entered into the following transactions with related parties, who are not members of the Group. Related parties have been identified as those businesses that act as joint ventures or had an associate relationship with Nippon Sheet Glass Company, Limited and its subsidiaries.

Sales of goods and services

	Millions of yen	
	2018	2017
Sales of goods		
Joint ventures	699	466
Associates	1,913	1,330
Sales of services		
Joint ventures	22	21
Associates	24	56
	2,658	1,873

Goods and services are sold to joint ventures and associates on normal commercial terms, applicable to third parties. Additionally, services such as R&D support are provided to joint ventures. In 2018, these amounted to ¥22 million, of which related mainly to SP Glass Holdings BV and Cebrace (2017: ¥21 million of which related mainly to SP Glass Holdings BV and Cebrace).

Purchase of goods and services

	Millions of yen	
	2018	2017
Purchase of goods		
Joint ventures	7,703	6,657
Associates	1,466	846
Purchase of services		
Joint ventures	-	3
Associates	3,154	3,254
	12,323	10,760

Goods are purchased from joint ventures by Nippon Sheet Glass Company, Limited's subsidiaries as follows:

Cebrace – on normal trading conditions at prices agreed by both joint venture parties. Payments are made on 37 day terms from the invoice date.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

38. Related party transactions

Technical assistance and license agreements to

	Millions of yen	
	2018	2017
Joint ventures	313	370

The Group has technical assistance agreements and license agreements with related parties. These agreements cover income received in respect of the use of technology and intellectual property used in the manufacture of float and automotive glass.

In addition, there is income in respect of royalties on patents, the provision of technical support and the use by the related party of know-how.

Royalties and fees are calculated as a percentage of the sales value or on the number of pieces produced (piece rates) depending upon the nature of the license and the normal commercial practice in that area. Agreements with related parties are made on commercial terms similar or identical to those with other licensees.

Period-end balances arising from sales and purchases of goods and services, technical assistance and license agreements

	Millions of yen		
	Note	2018	2017
Receivables from related parties			
Joint ventures		1,787	1,668
Associates		85	99
	16	1,872	1,767
Payables to related parties			
Joint ventures		1,928	1,648
Associates		898	863
	26	2,826	2,511

In relation to the receivables from related parties there are no provisions against their non-recovery either in 2018 or 2017. Similarly, there were no receivable balances from related parties, joint ventures or associates written off during the period. There are no restrictions in place which would prevent the related parties fulfilling their trading obligations to the Group.

Loans to related parties

	Millions of yen				
		2018		2017	
	Note	Joint ventures	Associates	Joint ventures	Associates
At 1 April					
Exchange differences		8,579	119	9,184	132
Loan repayments received		641	11	(466)	(13)
Loan repayments received		(472)	(12)	(583)	(4)
Interest charged		478	-	444	4
At 31 March	16	9,226	118	8,579	119

The loans to joint ventures and associates are unsecured.

Commitments and contingencies

There were no material commitments and contingencies of joint ventures and associates at 31 March 2018 or 2017.

At 31 March 2018 and 31 March 2017, the Group has not made any guarantees in the ordinary course of business in respect of joint ventures and associates.

Key management compensation

Details of the key management compensation are disclosed in note 7.

Post-employment benefit plans

Details of contributions into post-employment benefit plans are included in note 7. The assets (including details of the Group's right to surplus) and liabilities of post-employment benefit plans as well as deficit funding arrangements are detailed in note 26. The Group paid ¥3,675 million into the Pilkington Superannuation Scheme during the year (2017: ¥3,550 million) in respect of deficit funding.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

39. Group information

The consolidated financial statements of the Group include 212 entities in form of subsidiaries, joint ventures and associates. The following list of subsidiary undertakings comprises those companies that principally affect the financial statements of the Group. All subsidiary undertakings account to 31 March each year. Details of joint ventures and associates can be found in note 15.

Name	Proportion of issued ordinary shares held	Country of operation and incorporation	Principal activity
Japan			
NSG Building Products Co., Ltd.	100%	Japan	Architectural
Thanxs Corporation Co., Ltd.	92.5%	Japan	Architectural
Nippon Sheet Glass WIN-TEC Co., Ltd.	99.3%	Japan	Architectural
Europe			
Pilkington United Kingdom Ltd.	100%	UK	Architectural
Pilkington Automotive Ltd.	100%	UK	Automotive
Pilkington Technology Management Ltd.	100%	UK	Architectural and Automotive
NGF Europe Ltd.	100%	UK	Technical Glass
Pilkington Deutschland AG	96.3%	Germany	Architectural
Pilkington Automotive Deutschland GmbH	100%	Germany	Automotive
Pilkington Austria GmbH	100%	Austria	Architectural
Pilkington Norge AS	100%	Norway	Architectural
Pilkington Automotive Finland OY	100%	Finland	Automotive
Pilkington IGP Sp. zo.o.	100%	Poland	Architectural
Pilkington Automotive Poland Sp. zo.o.	100%	Poland	Automotive
Pilkington Polska Sp. zo.o.	100%	Poland	Architectural
Pilkington Italia SpA	100%	Italy	Architectural and Automotive
North America			
Pilkington North America Inc.	100%	USA	Architectural and Automotive
L-N Safety Glass SA de CV	100%	Mexico	Automotive
Rest of World			
Vidrieria Argentina S.A.	51%	Argentina	Architectural
Vidrios Lirquen S.A.*	51.6%	Chile	Architectural
Pilkington Automotive Argentina S.A.	100%	Argentina	Automotive
Pilkington Brasil Ltda.	100%	Brazil	Architectural and Automotive
Guilin Pilkington Safety Glass Co., Ltd.	100%	China	Automotive
Suzhou NSG Electronics Co., Ltd.	100%	China	Technical Glass
NSG Hong Kong Co., Ltd.	100%	Hong Kong	Technical Glass
Malaysian Sheet Glass Sdn. Bhd.	100%	Malaysia	Architectural and Automotive
Vietnam Float Glass Co., Ltd.	55%	Vietnam	Architectural
NSG Vietnam Glass Industries Ltd.	100%	Vietnam	Architectural and Technical
Holding and financing companies			
NSG Holding (Europe) Ltd.	100%	UK	Holding company
NSG UK Enterprises Ltd.	100%	UK	Holding company
Pilkington Group Ltd.	100%	UK	Holding company

*: Vidrios Lirquen S.A. is owned 51.6% by a 51% owned subsidiary of Pilkington Group Limited.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Parent company

The parent company of the Group, Nippon Sheet Glass Company, Limited, is incorporated and domiciled in Japan and has shares publicly traded on the Tokyo Stock Exchange.

Restrictions on accessing the assets of subsidiaries

The ability of NSG UK Enterprises Ltd, a significant subsidiary company of the Group, to pay cash dividends to its immediate parent company, and ultimately therefore to Nippon Sheet Glass Company, Limited, is restricted by the external banking agreements entered into by NSG UK Enterprises Ltd, such that NSG UK Enterprises Ltd is only able to pay cash dividends to its immediate parent, to the extent that such a dividend would not cause it to be in breach of its banking covenants.

In general, the Group's subsidiaries in Europe, North America, and South America are also subsidiaries of NSG UK Enterprises Ltd, although there are several examples of subsidiaries in these regions that are not also subsidiaries of NSG UK Enterprises Ltd, and also examples of subsidiaries in other regions that are subsidiaries of NSG UK Enterprises Ltd.

The cash and cash equivalent balances held by the Group's subsidiaries which are not generally available for use elsewhere amounted to ¥5,833 million (2017: ¥7,459 million).

40. Non-controlling interests

Name	Non-controlling shareholding	Country of operation and incorporation	Principal activity
Vidrieria Argentina S.A.	49%	Argentina	Architectural
Vidrios Lirquen S.A.*	48.4%	Chile	Architectural

*: Vidrios Lirquen S.A. is owned 51.6% by a 51% owned subsidiary of Pilkington Group Limited.

	Millions of yen	
	2018	2017
Accumulated balances of material non-controlling interests		
Vidrieria Argentina S.A.	2,810	3,956
Vidrios Lirquen S.A.	2,880	2,962
Others	2,833	2,644
Total	8,523	9,562
Profit/(loss) for the period allocated to material non-controlling interests		
Vidrieria Argentina S.A.	904	684
Vidrios Lirquen S.A.	343	411
Others	496	592
Total	1,743	1,687

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

40. Non-controlling interests

The summarized financial information of these subsidiaries is provided below. This information is based upon amounts before intra-company eliminations.

Summarized income statements

	Millions of yen			
	2018		2017	
	Vidrieria Argentina S.A	Vidrios Lirquen S.A	Vidrieria Argentina S.A	Vidrios Lirquen S.A
Revenue	17,535	6,652	16,422	6,211
Profit for the period from continuing operations	1,845	466	1,396	558
Total comprehensive income	748	322	1,254	382
Dividends paid to non-controlling interests	(1,000)	(372)	—	(354)

Summarized statements of financial position

	Millions of yen			
	2018		2017	
	Vidrieria Argentina S.A	Vidrios Lirquen S.A	Vidrieria Argentina S.A	Vidrios Lirquen S.A
Current assets	7,551	2,932	8,831	2,836
Non-current assets	2,850	3,343	3,813	3,433
Current liabilities	(4,286)	(1,577)	(4,040)	(1,456)
Non-current liabilities	(380)	(790)	(531)	(794)
Total equity	5,735	3,908	8,073	4,019
Attributable to owners of the parent	2,925	1,028	4,117	1,057
Attributable to non-controlling interests	2,810	2,880	3,956	2,962

Summarized cash flow statements

	Millions of yen			
	2018		2017	
	Vidrieria Argentina S.A	Vidrios Lirquen S.A	Vidrieria Argentina S.A	Vidrios Lirquen S.A
Cash flows from operating activities	1,465	462	3,065	838
Cash flows from investing activities	(202)	(140)	(194)	(126)
Cash flows from financing activities	(1,005)	(372)	(137)	(354)
Increase/(decrease) in cash and cash equivalents(net of bank overdrafts)	258	(50)	2,734	358
Cash and cash equivalents (net of bank overdrafts) at the beginning of the period	4,138	1,169	1,485	793
Effect of foreign exchange rates	(1,150)	57	(81)	18
Cash and cash equivalents (net of bank overdrafts) at the end of the period	3,246	1,176	4,138	1,169

41. Significant subsequent events

On 11 May 2018 the Group announced that it intended to invest a total of ¥38,000 million to support the expansion of production capacity of online TCO (transparent conductive oxide) coated glass to support the growing solar market. This investment will include the restart of a dormant float glass furnace in Vietnam. The Group partially impaired the value of this furnace with an exceptional cost in FY2016. Following the decision to restart this line, the Group will re-evaluate its value, with any exceptional item arising expected to be recorded during the first quarter of FY2019.

INDEPENDENT AUDITORS' REPORT

The Board of Directors
Nippon Sheet Glass Company, Limited

We have audited the accompanying consolidated financial statements of Nippon Sheet Glass Company, Limited and its consolidated subsidiaries, which comprise the consolidated balance sheet as at 31 March 2018, the consolidated income statement, the consolidated statements of comprehensive income, changes in equity and cash flows for the year then ended and notes to the consolidated financial statements.

Management's Responsibility for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with International Financial Reporting Standards, and for designing and operating such internal control as management determines is necessary to enable the preparation and fair presentation of the consolidated financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in Japan. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. The purpose of an audit of the consolidated financial statements is not to express an opinion on the effectiveness of the entity's internal control, but in making these risk assessments the auditor considers internal controls relevant to the entity's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the consolidated financial position of Nippon Sheet Glass Company, Limited and its consolidated subsidiaries as at 31 March 2018, and their consolidated financial performance and cash flows for the year then ended in conformity with International Financial Reporting Standards.

Ernst & Young ShinNihon LLC

29 June 2018
Tokyo, Japan

