PJSC Inter RAO

Consolidated financial statements

For the year ended 31 December 2016
with independent auditors' report

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Independent auditor's report

To the Shareholders and Board of Directors of
PJSC Inter RAO

Opinion

We have audited the consolidated financial statements of PJSC Inter RAO and its subsidiaries (the Group), which comprise the consolidated statement of financial position as at 31 December 2016, and the consolidated statement of comprehensive income, consolidated statement of changes in equity and consolidated statement of cash flows for the year then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the financial position of the Group as at 31 December 2016 and its financial performance and its cash flows for the year then ended in accordance with International Financial Reporting Standards (IFRSs).

Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (ISAs).
Our responsibilities under those standards are further described in the *Auditor's responsibilities for the audit of the consolidated financial statements* section of our report. We are independent of the Group in accordance with the International Ethics Standards Board for Accountants' Code of Ethics for Professional Accountants (IESBA Code) together with the ethical requirements that are relevant to our audit of the consolidated financial statements in the Russian Federation, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the IESBA Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Key audit matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statements of the current period. These matters were addressed in the context of our audit of the consolidated financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters. For each matter below, our description of how our audit addressed the matter is provided in that context.

We have fulfilled the responsibilities described in the *Auditor's responsibilities for the audit of the consolidated financial statements* section of our report, including in relation to these matters. Accordingly, our audit included the performance of procedures designed to respond to our assessment of the risks of material misstatement of the consolidated financial statements. The results of our audit procedures, including the procedures performed to address the matters below, provide the basis for our audit opinion on the accompanying consolidated financial statements.

Property, plant and equipment and goodwill impairment

Annual impairment test was one of the matters of most significance in our audit because the recoverable amount assessment process is complex and involves estimates. In the impairment testing of goodwill and property, plant and equipment, the Group used various assumptions in respect of future capacity prices, volume and price of electricity and heat power, fuel cost and cost of repair of production facilities that all depend on expected future market and economic environment in the Russian Federation and other countries where the Group operates.

We assessed the assumptions and methods used by the Group, in particular those related to forecasted capacity, electricity and heat power sales in the Russian Federation and other countries where the Group operates, fuel cost, long-term growth rates and discount rates. We analyzed the model mathematical accuracy and sensitivity to changes in primary inputs and sufficiency of the Group's disclosure of the assumptions that impact the recoverable amounts of property, plant and equipment and assets of cash generating units containing goodwill.

The information on impairment test in respect of property, plant and equipment and goodwill is disclosed in Notes 6 and 7 to the consolidated financial statements.

Impairment of accounts receivable

The Group has a significant balance of accounts receivable as at the reporting date. The management assessment of recoverability of accounts receivable is complex, largely subjective and based on assumptions, in particular, on forecasted ability of the Group's customers to pay for goods and services provided. Therefore, it was one of the matters of most significance in our audit.

We analyzed information used by the Group for the identification of impaired accounts receivable, including information on accounts receivable history of settlements, aging structure and applicable levels of accounts receivable impairment allowance.

The information on accounts receivable impairment allowance is disclosed in Notes 11, 13 and 26 to the consolidated financial statements.

Recognition and measurement of revenue

Recognition and measurement of revenue was one of the matters of most significance in our audit due to diversity in the terms of electricity supply and payment for different types of customers and a significant number of customers.

We performed testing of revenue recognition automated controls in different information systems, examined the terms of supply agreements, obtained confirmations of accounts receivable on a sample basis and analyzed the assessment of payment probability.

The amount of revenue from sales of electricity and other goods and services is disclosed in Note 23 to the consolidated financial statements.

Measurement of assets held in Peresvet bank

Taking into account the introduction of external management procedure by the Central Bank of the Russian Federation in respect of Peresvet bank and the significant amount of assets held by the Group in Peresvet bank, the measurement of assets held in Peresvet bank was one of the matters of most significance in our audit.

We analyzed available information in relation to plans for the bank's financial rehabilitation, including information on plans under development of the bank's temporary administration and evaluated the management assumptions used in measurement of assets held in Peresvet bank.

The information on measurement of assets held in Peresvet bank is disclosed in Notes 11, 14 and 16 to the consolidated financial statements.

Recognition, measurement and disclosure of provisions and contingent liabilities

Recognition, measurement and disclosure of provisions and contingent liabilities in respect of litigation, regulatory bodies' actions and customers' claims involve a significant degree of judgement. Due to the significance of amounts under litigation and claims and complexity of measurement, it was one of the matters of most significance in our audit.

Our procedures included analyzing the decisions made by courts of different jurisdictions, discussing these matters with employees of the Group's Legal department and obtaining responses to our inquiries from the Group's external legal consultants, assessing the effect of possible claims from regulatory bodies, including those relating to antitrust legislation, fines and penalties.

The information on the Group's provisions and contingent liabilities is disclosed in Notes 20, 21 and 31 to the consolidated financial statements.

Other information included in the Group's 2016 Annual report

Other information consists of the information included in the Annual Report other than the consolidated financial statements and our auditor's report thereon. Management is responsible for the other information. The Annual Report is expected to be made available to us after the date of this auditor's report.

Our opinion on the consolidated financial statements does not cover the other information and we will not express any form of assurance conclusion thereon.

In connection with our audit of the consolidated financial statements, our responsibility is to read the other information identified above when it becomes available and, in doing so, consider whether the other information is materially inconsistent with the consolidated financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated.

Responsibilities of management and the Audit Committee of the Board of Directors for the consolidated financial statements

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

In preparing the consolidated financial statements, management is responsible for assessing the Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Group or to cease operations, or has no realistic alternative but to do so.

The Audit Committee of the Board of Directors are responsible for overseeing the Group's financial reporting process.

Auditor's responsibilities for the audit of the consolidated financial statements

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

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As part of an audit in accordance with ISAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Group to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with the Audit Committee of the Board of Directors regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide the Audit Committee of the Board of Directors with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

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From the matters communicated with the Audit Committee of the Board of Directors, we determine those matters that were of most significance in the audit of the consolidated financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The partner in charge of the audit resulting in this independent auditor's report is Dmitry Lobachev.

D.E. Lobachev
General director
Ernst & Young LLC

1 March 2017

Details of the audited entity

Name: PJSC Inter RAO
Record made in the State Register of Legal Entities on 1 November 2002, State Registration Number 102230933630.
Address: Russia 119435, Moscow, Bolshaya Pirogovskaya street, building 27-2.

Details of the auditor

Name: Ernst & Young LLC
Record made in the State Register of Legal Entities on 5 December 2002, State Registration Number 1027739707203.
Address: Russia 115035, Moscow, Sadovnicheskaya naberezhnaya, 77, building 1.
Ernst & Young LLC is a member of Self-regulated organization of auditors "Russian Union of auditors" (Association) ("SRO RUA"). Ernst & Young LLC is included in the control copy of the register of auditors and audit organizations, main registration number 11603050648.

Consolidated statement of financial position

(in millions of RUR)

	Note	31 December 2016	31 December 2015 (restated)	1 January 2015 (restated)
Assets				
Non-current assets				
Property, plant and equipment	6	280,499	277,784	298,802
Intangible assets	7	9,908	13,652	13,790
Investments in associates and joint ventures	8	28,886	31,125	34,407
Deferred tax assets	9	6,527	4,412	2,236
Available-for-sale financial assets	10	7,810	5,865	7,260
Other non-current assets	11	15,430	8,752	10,135
Total non-current assets		**349,060**	**341,590**	**366,630**
Current assets				
Inventories	12	14,104	15,917	14,914
Accounts receivable and prepayments	13	104,105	86,093	86,364
Income tax prepaid		625	1,950	955
Cash and cash equivalents	14	95,988	66,280	76,627
Other current assets	16	4,712	19,131	9,154
		219,534	**189,371**	**188,014**
Assets classified as held-for-sale	15	3,000	38,048	38,057
Total current assets		**222,534**	**227,419**	**226,071**
Total assets		**571,594**	**569,009**	**592,701**
Equity and liabilities				
Equity				
Share capital	17	293,340	293,340	293,340
Treasury shares	17	(58,787)	(56,184)	(56,229)
Share premium	17	69,312	69,312	69,312
Hedge reserve	17	16	(12)	38
Actuarial reserve	17	(182)	(99)	(34)
Fair value reserve	17	2,485	865	626
Foreign currency translation reserve		2,972	7,041	8,422
Retained earnings		107,879	49,277	28,624
Total equity attributable to shareholders of the Company		**417,035**	**363,540**	**344,099**
Non-controlling interest		2,191	2,705	5,348
Total equity		**419,226**	**366,245**	**349,447**
Non-current liabilities				
Loans and borrowings	19	8,886	42,617	64,185
Deferred tax liabilities	9	10,678	12,955	15,179
Other non-current liabilities	21	7,260	6,203	11,580
Total non-current liabilities		**26,824**	**61,775**	**90,944**
Current liabilities				
Loans and borrowings	19	8,738	35,559	45,767
Accounts payable and accrued liabilities	20	105,468	97,868	99,696
Other taxes payable	22	9,005	6,692	5,920
Income tax payable		2,333	870	927
Total current liabilities		**125,544**	**140,989**	**152,310**
Total liabilities		**152,368**	**202,764**	**243,254**
Total equity and liabilities		**571,594**	**569,009**	**592,701**

Chairman of the Management Board — Kovalchuk B.Yu.

Member of the Management Board, Chief Financial Officer — Miroshnichenko E.N.

1 March 2017

The consolidated statement of financial position is to be read in conjunction with the notes to, and forming part of, the consolidated financial statements set out in Notes 1-34.

Consolidated statement of comprehensive income

(in millions of RUR)

	Note	For the year 2016	For the year 2015 (restated)
Revenue	23	868,182	831,987
Other operating income	24	39,120	8,708
Operating expenses, net	25	(830,042)	(814,952)
Operating income		**77,260**	**25,743**
Finance income	26	10,121	12,121
Finance expenses	26	(24,311)	(10,978)
Share of profit/(loss) of associates and joint ventures, net	8	5,478	(125)
Income before income tax		**68,548**	**26,761**
Income tax expense	27	(7,236)	(2,939)
Income for the period		**61,312**	**23,822**
Other comprehensive (loss)/income			
Other comprehensive (loss)/income that will be reclassified subsequently to profit or loss when specific conditions are met			
Actuarial loss, net of tax	17	(85)	(74)
Gain on available-for-sale financial assets, net of tax	10, 17	1,620	239
Net gain/(loss) on hedge instruments, net of tax	17	55	(48)
Exchange loss on translation to presentation currency		(4,497)	(1,249)
Other comprehensive loss, net of tax		**(2,907)**	**(1,132)**
Total comprehensive income for the period		**58,405**	**22,690**
Income attributable to:			
Shareholders of the Company		60,761	22,601
Non-controlling interest	33	551	1,221
		61,312	**23,822**
Total comprehensive income attributable to:			
Shareholders of the Company		58,257	21,344
Non-controlling interest		148	1,346
		58,405	**22,690**
		RUR	**RUR**
Basic income per ordinary share for income attributable to the shareholders of the Company	18	**0.726**	**0.268**
Diluted income per ordinary share for income attributable to the shareholders of the Company	18	**0.721**	**0.268**

Chairman of the Management Board — Kovalchuk B.Yu.

Member of the Management Board, Chief Financial Officer — Miroshnichenko E.N.

1 March 2017

The consolidated statement of comprehensive income is to be read in conjunction with the notes to, and forming part of, the consolidated financial statements set out in Notes 1-34.

Consolidated statement of cash flows

(in millions of RUR)

	Note	For the year 2016	For the year 2015 (restated)
Operating activities			
Income before income tax		**68,548**	**26,761**
Adjustments to reconcile income before tax to net cash flows from operating activities:			
Depreciation and amortisation	25	22,904	23,609
Provision for impairment of accounts receivable	25	8,496	6,500
Other provisions charge	12, 20, 25	3,398	2,185
Impairment of available-for-sale financial assets and assets classified as held-for-sale	25	3,020	19
Impairment of property, plant and equipment	6, 25	4,082	14,766
Share of (profit)/loss of associates and joint ventures	8	(5,478)	125
(Profit)/loss from electricity derivatives, net	24, 25	(330)	305
Foreign exchange loss/(gain), net	26	3,642	(2,061)
Interest income	26	(9,495)	(7,486)
Other finance income	26	(366)	(1,425)
Interest expense	26	7,229	10,660
Other finance expenses	26	13,440	318
Dividend income	26	(260)	(1,149)
Income from sale of available-for-sale financial assets and assets classified as held-for-sale	24	(31,870)	(1,365)
Shares option plan	32	2,524	–
Loss from disposal of Group entities, net	5, 8, 25	2,192	951
Other non-cash operations/items		1,065	148
Operating cash flows before working capital adjustments and income tax paid		**92,741**	**72,861**
Decrease/(increase) in inventories		816	(878)
(Increase)/decrease in accounts receivable and prepayments		(12,562)	2,077
Decrease in value added tax recoverable		3,374	2,945
(Increase)/decrease in other current assets		(525)	408
Increase/(decrease) in accounts payable and accrued liabilities		4,915	(3,020)
Increase in taxes other than income tax prepaid/payable, net		1,787	705
Other working capital adjustments		(146)	282
		90,400	**75,380**
Income tax paid		(9,039)	(7,898)
Net cash flows from operating activities		**81,361**	**67,482**

Consolidated statement of cash flows (continued)

(in millions of RUR)

	Note	For the year 2016	For the year 2015 (restated)
Investing activities			
Proceeds from disposal of property, plant and equipment		277	187
Purchase of property, plant and equipment and intangible assets		(34,746)	(28,966)
Purchase of controlling interest	5	(3,600)	94
Proceeds from disposal of controlling interest, net of cash disposed	5	698	8
Purchase of shares in the associate	8	(3,000)	–
Proceeds from disposal of joint ventures and associate	8	1,102	70
Proceeds from disposal of available-for-sale financial assets and assets classified as held-for-sale	10, 15, 24	51,250	3,285
Proceeds from repayment of loans issued		1,003	531
Loans issued		(52)	(621)
Bank deposits placed		(19,164)	(34,300)
Bank deposits returned and proceeds from promissory notes repayment		34,805	22,614
Interest proceeds for bank deposits placed		6,148	5,942
Purchase of other non-current assets		(15,869)	–
Dividends received		403	2,117
Cash flows (used for)/from other investing activities		(191)	705
Net cash flows from/(used for) investing activities		**19,064**	**(28,334)**
Financing activities			
Proceeds from loans and borrowings		41,933	52,646
Repayment of loans and borrowings		(98,005)	(86,582)
Repayment of finance leases		(535)	(857)
Interest paid		(9,832)	(9,717)
Dividends paid		(1,953)	(517)
Purchase of non-controlling interest in subsidiaries	5	(76)	(5,411)
Acquisition of treasury shares	17	(1,667)	–
Proceeds from treasury shares sold	17	223	–
Net cash flows used for financing activities		**(69,912)**	**(50,438)**
Effect of exchange rate fluctuations on cash and cash equivalents		(805)	943
Net increase/(decrease) in cash and cash equivalents		**29,708**	**(10,347)**
Cash and cash equivalents at the beginning of the period		66,280	76,627
Cash and cash equivalents at the end of the period	14	**95,988**	**66,280**

Chairman of the Management Board — Kovalchuk B.Yu.

Member of the Management Board, Chief Financial Officer — Miroshnichenko E.N.

1 March 2017

The consolidated statement of cash flows is to be read in conjunction with the notes to, and forming part of, the consolidated financial statements set out in Notes 1-34.

Consolidated statement of changes in equity

(in millions of RUR)

	Note	Share capital	Treasury shares	Share premium	Foreign currency translation reserve	Fair value reserve	Hedge reserve	Actuarial reserve	Retained earnings	Total	Non-controlling interest	Total equity
		Attributable to shareholders of the Company										
Balance at 1 January 2015 (restated)		**293,340**	**(56,229)**	**69,312**	**8,422**	**626**	**38**	**(34)**	**28,624**	**344,099**	**5,348**	**349,447**
Total comprehensive (loss)/income for the year ended 31 December 2015		–	–	–	(1,381)	239	(50)	(65)	22,601	**21,344**	1,346	**22,690**
Dividends to shareholders	17	–	–	–	–	–	–	–	(290)	**(290)**	(429)	**(719)**
Undrawn dividends returned	17	–	–	–	–	–	–	–	109	**109**	5	**114**
Acquisition of controlling interest in subsidiary	5	–	–	–	–	–	–	–	–	–	50	**50**
Acquisition of non-controlling interest in subsidiaries	5	–	–	–	–	–	–	–	(1,796)	**(1,796)**	(3,615)	**(5,411)**
Sale of treasury shares	17	–	45	–	–	–	–	–	29	**74**	–	**74**
Balance at 31 December 2015 (restated)		**293,340**	**(56,184)**	**69,312**	**7,041**	**865**	**(12)**	**(99)**	**49,277**	**363,540**	**2,705**	**366,245**
Balance at 1 January 2016 (restated)		**293,340**	**(56,184)**	**69,312**	**7,041**	**865**	**(12)**	**(99)**	**49,277**	**363,540**	**2,705**	**366,245**
Total comprehensive (loss)/income for the year ended 31 December 2016		–	–	–	(4,069)	1,620	28	(83)	60,761	**58,257**	148	**58,405**
Dividends to shareholders	17	–	–	–	–	–	–	–	(1,707)	**(1,707)**	(621)	**(2,328)**
Acquisition of controlling interest in subsidiary	5, 17	–	–	–	–	–	–	–	(4,100)	**(4,100)**	–	**(4,100)**
Acquisition of non-controlling interest in subsidiary	5	–	–	–	–	–	–	–	(43)	**(43)**	(33)	**(76)**
Disposal of controlling interest in subsidiary		–	–	–	–	–	–	–	8	**8**	(8)	–
Share option plan	32	–	–	–	–	–	–	–	2,524	**2,524**	–	**2,524**
Sale of treasury shares	17	–	330	–	–	–	–	–	(107)	**223**	–	**223**
Acquisition of treasury shares	17	–	(2,933)	–	–	–	–	–	1,266	**(1,667)**	–	**(1,667)**
Balance at 31 December 2016		**293,340**	**(58,787)**	**69,312**	**2,972**	**2,485**	**16**	**(182)**	**107,879**	**417,035**	**2,191**	**419,226**

Chairman of the Management Board — Kovalchuk B.Yu.

Member of the Management Board, Chief Financial Officer — Miroshnichenko E.N.

1 March 2017

The consolidated statement of changes in equity is to be read in conjunction with the notes to, and forming part of, the consolidated financial statements set out in Notes 1-34.

(in millions of RUR)

1. The Group and its operations

Establishment of the Group

Public Joint Stock Company "Inter RAO UES" (the "Parent Company" or the "Company" or PJSC "Inter RAO") is incorporated and domiciled in the Russian Federation and whose shares are publicly traded.

The Russian Federation is the ultimate controlling party of PJSC Inter RAO and has a controlling interest in the Company of over 50%. The main state shareholders of the Parent Company as at 31 December 2016 are JSC ROSNEFTEGAZ (26.37%) and PJSC FGC UES (14.07%).

The Company has controlling interests in a number of subsidiaries operating in different regions of the Russian Federation and abroad (the Company and its subsidiaries collectively are designated as the "Group"). The Group's principal subsidiaries as at 31 December 2016 are presented in Note 33.

The Group is engaged in the following business activities:

- electricity production, supply and distribution;
- export and import of electricity;
- sales of electricity purchased abroad and on the domestic market;
- engineering services;
- energy effectiveness research and development.

The Company's registered address is Bolshaya Pirogovskaya street, building 27-2, 119435, Moscow, the Russian Federation.

The Group's business environment

The governments of the countries where the Group entities operate directly affect the Group's operations through regulation with respect to energy generation, purchases and sales. Governmental economic, social and other policies in these countries could have a material effect on the operations of the Group.

The Russian Federation, Georgia, Armenia, Moldavia (including Transdniestria Republic), Kazakhstan, Turkey, Lithuania, Latvia and Estonia have been experiencing significant (albeit different) political and economic changes that have affected, and may continue to affect, the activities of the Group entities operating in this environment. Consequently, operations in these jurisdictions involve risks that typically do not exist in other mature markets. These risks include matters arising from the policies of the government, economic conditions, the imposition of or changes to taxes and regulations, foreign exchange fluctuations and the enforceability of contract rights. A significant drop in crude oil prices and a significant devaluation of the Russian rouble, as well as series of unilateral restrictive political and economic measures imposed on Russian Federation by several countries occurred in 2014, continued to have a negative impact on the economy of the Russian Federation, primary jurisdiction of the Group, in 2016. The combination of the above resulted in reduced access to capital, a higher cost of capital, increased inflation and uncertainty regarding economic growth in the Russian Federation, which could negatively affect the Group's future financial position, results of operations and business prospects. Management believes it is taking appropriate measures to support the sustainability of the Group's business in the current circumstances.

The accompanying interim condensed consolidated financial statements reflect management's assessment of the impact of the business environment on the operating results and the financial position of the Group in the countries where the Group entities operate. Management is unable to predict all developments which could have an impact on the utilities sector and the wider economy in these countries and consequently, what effect, if any, they could have on the financial position of the Group. Therefore, future business environment may differ from management's assessment.

2. Basis of preparation

(a) Statement of compliance

These consolidated financial statements have been prepared in accordance with International Financial Reporting Standards (IFRS) as adopted by the International Accounting Standards Board (the IASB).

Each entity of the Group individually maintains its own books of accounts and prepares its statutory financial statements in accordance with the relevant statutory accounting requirements. These financial statements are based on the statutory records and adjusted and reclassified for the purpose of fair presentation in accordance with IFRS.

The consolidated financial statements are prepared on the historical cost basis except for certain financial instruments which are measured at fair value, as discussed in Note 3.

(in millions of RUR)

2. Basis of preparation (continued)

(b) Functional and presentation currency

The national currencies of the countries where the Group entities operate are usually the individual company's functional currencies, because they generally reflect the economic substance of the underlying transactions and circumstances of those companies.

The Group applies judgment in determination of the functional currencies of certain Group entities. The functional currency determination influences foreign exchange gain/losses recognised in profit and loss and translation differences recognised in other comprehensive income.

The consolidated financial statements are presented in millions of the Russian roubles ("RUR"). The main part of the Group is represented by entities operating in the Russian Federation having RUR as their functional currency. All values are rounded to the nearest million, except when otherwise indicated.

(c) Seasonality

Demand for electricity is to some extent influenced by the season of the year. Revenue is usually higher in the period from October to March than in other months of the year. This seasonality does not impact revenue or cost recognition policies of the Group.

(d) Going concern

The accompanying consolidated financial statements have been prepared on a going concern basis, which contemplates the realisation of assets and the satisfaction of liabilities in the normal course of business. These financial statements do not include any adjustments that might be necessary should the Group be unable to continue as a going concern.

(e) Critical accounting estimates and judgments

The Group makes estimates and judgments that affect the reported amounts of assets and liabilities within the next reporting period. Estimates and judgments are continually evaluated and are based on management's experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. Management also makes certain judgments, apart from those involving estimations, in the process of applying the accounting policies. The judgments that have the most significant effect on the amounts recognised in the consolidated financial statements and estimates that can cause a significant adjustment to the carrying amount of assets and liabilities within the next reporting period include:

Provision for impairment of accounts receivable

The provision for impairment of accounts receivable is based on the Group's assessment of the collectability of specific customer accounts. If there is deterioration in a major customer's creditworthiness or actual defaults are higher than the estimates, the actual results could differ from these estimates.

If the Group determines that no objective evidence exists that impairment has occurred for an individually assessed accounts receivable, whether significant or not, it includes the accounts receivable in a group of accounts receivable with similar credit risk characteristics and collectively assesses them for impairment. Those characteristics are relevant to the estimation of future cash flows for groups of such assets by being indicative of the debtors' ability to pay all amounts due according to the contractual terms of the assets being evaluated.

Future cash flows in a group of accounts receivable that are collectively evaluated for impairment are estimated on the basis of the contractual cash flows of the assets and the experience of management to the extent of which amounts will become overdue as a result of past loss events and the success of recovery of overdue amounts. Past experience is adjusted on the basis of current observable data to reflect the effects of current conditions that did not affect past periods and to remove the effects of past conditions that do not exist currently (see Note 13).

Useful lives of property, plant and equipment

The estimation of useful life of an item of property, plant and equipment is a matter of management judgment based upon experience with similar assets. In determining the useful life of an asset, management considers the expected usage, estimated technical obsolescence, physical wear and tear and physical environment in which the asset operates. Changes in any of these conditions or estimates may result in adjustments in depreciation rates. Land has an unlimited useful life and therefore is not depreciated.

(in millions of RUR)

2. Basis of preparation (continued)

(e) Critical accounting estimates and judgments (continued)

Estimation of fair value

The Group estimates the fair value of an asset or liability, using assumptions that market participants would use when pricing the asset or liability, assuming that market participants are acting in their own economic interests. In developing those assumptions the Group identifies the common characteristics that distinguish the market participants, having considered the factors specific to the following: (a) an asset or liability; (b) the principal (or most advantageous) market for the asset or liability; and (c) market participants with whom the entity would enter into a transaction in that market. The estimation of the fair value of the acquired businesses and financial instruments where there is not the principal (or most advantageous) market for assets or liabilities is a matter of management judgment based on the application of relevant valuation models. In determining the fair value the valuation models that are based on management best estimates of future cash flows, current market conditions and the choice of analogue the judgment areas (include considerations of inputs such as liquidity risk, credit risk and volatility) are frequently used. Changes in any of these conditions may result in significant adjustment to the fair value of financial instruments and acquired businesses.

Restoration provision

Changes in the measurement of an existing restoration provision that result from changes in the estimated timing or amount of the outflows of economic benefits, or from changes in the discount rate adjust the cost of the related asset and liability. Estimating the amounts and timing of those obligations settlement requires management judgment. This judgment is based on cost and engineering studies using currently available technology and on current environmental regulations. The restoration provision is also subject to change because of updates in laws and regulations, and their interpretation by management.

Impairment of non-financial assets

An impairment exists when the carrying value of an asset or cash generating unit exceeds its recoverable amount, which is the higher of its fair value less costs to sell and its value in use. The fair value less costs to sell calculation is based on available data from binding sales transactions, conducted as arm's length transaction, for similar assets or at observable market prices less incremental costs for disposing of the asset. The value in use calculation is based on a discounted cash flow model. The cash flows are derived from the management forecast for the next twenty years and do not include restructuring activities that the Group is not yet committed to or significant future investments that will enhance the asset's performance of the CGU being tested. The recoverable amount is most sensitive to the discount rate used for the discounted cash flow model as well as the expected future cash-inflows and the growth rate used for extrapolation purposes.

Tax contingencies

The Group entities operate in a number of tax jurisdictions across Europe and the CIS. Where management believes it is probable that their interpretation of the relevant legislation and the Group's tax positions cannot be sustained, an appropriate amount is provided for in the consolidated financial statements. Tax contingencies are disclosed in Note 31.

Deferred income tax asset recognition

The Group does not recognise certain deferred income tax assets in respect of certain Group entities located in the Russian Federation, Netherlands, Armenia and Kazakhstan as management believes that it is not probable that the future taxable profit will be available in the respective Group entities against which the Group can utilise the benefits. Unrecognised deferred income tax assets are disclosed in Note 9 (b).

(f) Predecessor accounting

In the consolidated financial statements the Group accounted for acquisition of 100% of shares of LLC ESC Bashkortostan as acquisition amongst entities under common control using the predecessor accounting method (or the pooling-of-interests method). Application of pooling-of-interests method assumes the comparatives are presented as if the entity acquired had always been consolidated. Accordingly, information in respect to the comparative period and the balances as at 1 January 2016 and 1 January 2015 have been restated and prepared as if the acquisition had occurred from the beginning of the earliest period presented.

(in millions of RUR)

2. Basis of preparation (continued)

(f) Predecessor accounting (continued)

The effect of the restatement of the Group's consolidated financial statements is described below:

31 December 2015	***As previously reported***	***Retrospective consolidation of entity acquired under common control***	***Elimination intercompany adjustment***	***As restated***
Assets				
Non-current assets				
Property, plant and equipment	277,565	219	–	277,784
Intangible assets	12,868	784	–	13,652
Investments in associates and joint ventures	31,125	–	–	31,125
Deferred tax assets	4,412	–	–	4,412
Available-for-sale financial assets	5,865	–	–	5,865
Other non-current assets	8,721	31	–	8,752
Total non-current assets	**340,556**	**1,034**	**–**	**341,590**
Current assets				
Inventories	15,898	19	–	15,917
Accounts receivable and prepayments	81,841	4,902	(650)	86,093
Income tax prepaid	1,925	25	–	1,950
Cash and cash equivalents	65,840	440	–	66,280
Other current assets	19,131	–	–	19,131
	184,635	**5,386**	**(650)**	**189,371**
Assets classified as held-for-sale	38,048	–	–	38,048
Total current assets	**222,683**	**5,386**	**(650)**	**227,419**
Total assets	**563,239**	**6,420**	**(650)**	**569,009**
Equity and liabilities				
Equity				
Share capital	293,340	–	–	293,340
Treasury shares	(56,184)	–	–	(56,184)
Share premium	69,312	–	–	69,312
Hedge reserve	(12)	–	–	(12)
Actuarial reserve	(91)	(8)	–	(99)
Fair value reserve	865	–	–	865
Foreign currency translation reserve	7,041	–	–	7,041
Retained earnings	48,392	885	–	49,277
Total equity attributable to shareholders of the Company	**362,663**	**877**	**–**	**363,540**
Non-controlling interest	2,705	–	–	2,705
Total equity	**365,368**	**877**	**–**	**366,245**
Non-current liabilities				
Long-term loans and borrowings	42,617	–	–	42,617
Deferred tax liabilities	12,911	44	–	12,955
Other non-current liabilities	6,032	171	–	6,203
Total non-current liabilities	**61,560**	**215**	**–**	**61,775**
Current liabilities				
Short-term loans and borrowings	33,712	1,847	–	35,559
Accounts payable and accrued liabilities	95,143	3,375	(650)	97,868
Other taxes payable	6,586	106	–	6,692
Income tax payable	870	–	–	870
Total current liabilities	**136,311**	**5,328**	**(650)**	**140,989**
Total liabilities	**197,871**	**5,543**	**(650)**	**202,764**
Total equity and liabilities	**563,239**	**6,420**	**(650)**	**569,009**

(in millions of RUR)

2. Basis of preparation (continued)

(f) Predecessor accounting (continued)

For the year ended 31 December 2015	*As previously reported*	*Retrospective consolidation of entity acquired under common control*	*Elimination intercompany adjustment*	*As restated*
Revenue	805,344	33,599	(6,956)	831,987
Other operating income	8,655	75	(22)	8,708
Operating expenses, net	(788,539)	(33,391)	6,978	(814,952)
Operating income	**25,460**	**283**	**–**	**25,743**
Finance income	12,090	31	–	12,121
Finance expenses	(10,560)	(418)	–	(10,978)
Share of loss of associates and joint ventures	(125)	–	–	(125)
Income/(loss) before income tax	**26,865**	**(104)**	**–**	**26,761**
Income tax expense	(2,929)	(10)	–	(2,939)
Income/(loss) for the period	**23,936**	**(114)**	**–**	**23,822**
Other comprehensive (loss)/income				
Other comprehensive (loss)/income that will be reclassified subsequently to profit or loss when specific conditions are met				
Actuarial loss, net of tax	(66)	(8)	–	(74)
Gain on available-for-sale financial assets and assets classified as held-for-sale, net of tax	239	–	–	239
Net loss on hedge instruments, net of tax	(48)	–	–	(48)
Exchange loss on translation to presentation currency	(1,249)	–	–	(1,249)
Other comprehensive loss, net of tax	**(1,124)**	**(8)**	**–**	**(1,132)**
Total comprehensive income for the period	**22,812**	**(122)**	**–**	**22,690**
Income attributable to:				
Shareholders of the Company	22,715	(114)	–	22,601
Non-controlling interest	1,221	–	–	1,221
	23,936	**(114)**	**–**	**23,822**
Total comprehensive income attributable to:				
Shareholders of the Company	21,466	(122)	–	21,344
Non-controlling interest	1,346	–	–	1,346
	22,812	**(122)**	**–**	**22,690**

(in millions of RUR)

2. Basis of preparation (continued)

(f) Predecessor accounting (continued)

1 January 2015	*As previously reported*	*Retrospective consolidation of entity acquired under common control*	*Elimination intercompany adjustment*	*As restated*
Assets				
Non-current assets				
Property, plant and equipment	298,625	177	–	298,802
Intangible assets	12,514	1,276	–	13,790
Investments in associates and joint ventures	34,407	–	–	34,407
Deferred tax assets	2,236	–	–	2,236
Available-for-sale financial assets	7,260	–	–	7,260
Other non-current assets	10,094	41	–	10,135
Total non-current assets	**365,136**	**1,494**	**–**	**366,630**
Current assets				
Inventories	14,903	11	–	14,914
Accounts receivable and prepayments	81,703	5,158	(497)	86,364
Income tax prepaid	946	9	–	955
Cash and cash equivalents	75,599	1,028	–	76,627
Other current assets	9,154	–	–	9,154
	182,305	**6,206**	**(497)**	**188,014**
Assets classified as held-for-sale	38,057	–	–	38,057
Total current assets	**220,362**	**6,206**	**(497)**	**226,071**
Total assets	**585,498**	**7,700**	**(497)**	**592,701**
Equity and liabilities				
Equity				
Share capital	293,340	–	–	293,340
Treasury shares	(56,229)	–	–	(56,229)
Share premium	69,312	–	–	69,312
Hedge reserve	38	–	–	38
Actuarial reserve	(34)	–	–	(34)
Fair value reserve	626	–	–	626
Foreign currency translation reserve	8,422	–	–	8,422
Retained earnings	27,426	1,198	–	28,624
Total equity attributable to shareholders of the Company	**342,901**	**1,198**	**–**	**344,099**
Non-controlling interest	5,348	–	–	5,348
Total equity	**348,249**	**1,198**	**–**	**349,447**
Non-current liabilities				
Long-term loans and borrowings	64,185	–	–	64,185
Deferred tax liabilities	15,034	145	–	15,179
Other non-current liabilities	11,448	132	–	11,580
Total non-current liabilities	**90,667**	**277**	**–**	**90,944**
Current liabilities				
Short-term loans and borrowings	42,947	2,820	–	45,767
Accounts payable and accrued liabilities	96,836	3,357	(497)	99,696
Other taxes payable	5,872	48	–	5,920
Income tax payable	927	–	–	927
Total current liabilities	**146,582**	**6,225**	**(497)**	**152,310**
Total liabilities	**237,249**	**6,502**	**(497)**	**243,254**
Total equity and liabilities	**585,498**	**7,700**	**(497)**	**592,701**

(in millions of RUR)

3. Summary of significant accounting policies

Significant accounting policies applied in the preparation of the consolidated statements are described below. These accounting policies have been consistently applied. In order to enhance the relevance of the financial statements to users, management has changed the presentation and aggregation of certain disclosures, including comparative information.

Basis of consolidation

The consolidated financial statements comprise the financial statements of the Group and its subsidiaries. Control is achieved when the Group is exposed, or has rights, to variable returns from its involvement with the investee and has the ability to affect those returns through its power over the investee. Specifically, the Group controls an investee if and only if the Group has:

- power over the investee (i.e. existing rights that give it the current ability to direct the relevant activities of the investee);
- exposure, or rights, to variable returns from its involvement with the investee, and;
- the ability to use its power over the investee to affect its returns.

When the Group has less than a majority of the voting or similar rights of an investee, the Group considers all relevant facts and circumstances in assessing whether it has power over an investee, including:

- the contractual arrangement with the other vote holders of the investee;
- rights arising from other contractual arrangements;
- the Group's voting rights and potential voting rights.

The Group re-assesses whether or not it controls an investee if facts and circumstances indicate that there are changes to one or more of the three elements of control. Consolidation of a subsidiary begins when the Group obtains control over the subsidiary and ceases when the Group loses control of the subsidiary. Assets, liabilities, income and expenses of a subsidiary acquired or disposed of during the year are included in the statement of comprehensive income from the date the Group gains control until the date the Group ceases to control the subsidiary.

Profit or loss and each component of other comprehensive income (OCI) are attributed to the equity holders of the parent of the Group and to non-controlling interest, even if this results in non-controlling interest having a deficit balance. When necessary, adjustments are made to the financial statements of subsidiaries to bring their accounting policies line with the Group's accounting policies. All intra-group assets and liabilities, equity, income, expenses and cash flows relating to transactions between members of the Group are eliminated in full on consolidation.

A change in the ownership interest of a subsidiary, without a loss of control, is accounted for as an equity transaction. If the Group loses control over a subsidiary, it:

- derecognises the assets (including goodwill) and liabilities of the subsidiary;
- derecognises the carrying amount of any non-controlling interests;
- derecognises the cumulative translation differences recorded in equity;
- recognises the fair value of the consideration received;
- recognises the fair value of any investment retained;
- recognises any surplus or deficit in profit or loss;
- reclassifies the parent's share of components previously recognised in other comprehensive income (OCI) to profit or loss or retained earnings, as appropriate, as would be required if the Group had directly disposed of the related assets or liabilities.

Principles of consolidation

Subsidiaries

Subsidiaries are entities controlled by the Company. Control is presumed to exist when the Company is exposed, or has rights, to variable returns from its involvement with the investee and has the ability to affect those returns through its power over the investee. An investor has power over an investee when the investor has existing rights that give it the current ability to direct the relevant activities. Relevant activities are activities of the investee that significantly affect the investee's return. In assessing control, potential voting rights that are presently exercisable are taken into account. The financial statements of subsidiaries are included in the consolidated financial statements from the date that control commences until the date that control ceases.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Principles of consolidation (continued)

Non-controlling interest

Non-controlling interest represents the non-controlling shareholders' proportionate share of the equity and results of operations of the Group's subsidiaries. This has been calculated based upon the non-controlling interests' ownership percentage of these subsidiaries. The non-controlling interest has been disclosed as a part of equity.

The Group applies a policy of treating transactions with non-controlling shareholders as transactions with equity owners of the Group. For purchases of non-controlling interests, the difference between any consideration paid and the relevant share acquired of the carrying value of net assets of a subsidiary is recorded in equity. Differences between consideration received and carrying value of non-controlling interests sold are also recorded in equity.

The Group derecognises non-controlling interest if non-controlling shareholders have received a mandatory offer to purchase their shares. The difference between the amount of the liability recognised in the consolidated statement of financial position over the carrying value of the derecognised non-controlling interests is charged to retained earnings.

Associates entities and joint ventures

Associates are those entities over which the Group has significant influence, the power to participate in the financial and operating policy decisions of the investee but not control or joint control of those policies.

A joint venture is a joint arrangement whereby the parties that have joint control of the arrangement have rights to the net assets of the joint venture. Joint control is the contractually agreed sharing of control of an arrangement, which exists only when decisions about the relevant activities require unanimous consent of the parties sharing control.

The considerations made in determining significant influence or joint control are similar to those necessary to determine control over subsidiaries.

Equity method

Under the equity method, the investment in an associate or a joint venture is initially recognised at cost. The carrying amount of the investment is adjusted to recognise changes in the Group's share of net assets of the associate or joint venture since the acquisition date. Goodwill relating to the associate or joint venture is included in the carrying amount of the investment and is neither amortised nor individually tested for impairment.

The statement of profit or loss reflects the Group's share of the results of operations of the associate or joint venture. Any change in OCI of those investees is presented as part of the Group's OCI. In addition, when there has been a change recognised directly in the equity of the associate or joint venture, the Group recognises its share of any changes, when applicable, in the statement of changes in equity. Unrealised gains and losses resulting from transactions between the Group and the associate or joint venture are eliminated to the extent of the interest in the associate or joint venture. The aggregate of the Group's share of profit or loss of an associate and a joint venture is shown in the statement of profit or loss separately from operating profit and represents profit or loss after tax of the associate or joint venture (include those subsidiaries) to the extent of Group's share in the associate or joint venture for the reporting period. The financial statements of the associate or joint venture are prepared for the same reporting period as the Group. When necessary, adjustments are made to bring the accounting policies in line with those of the Group.

After application of the equity method, the Group determines whether it is necessary to recognise an impairment loss on its investment in its associate or joint venture. At each reporting date, the Group determines whether there is objective evidence that the investment in the associate or joint venture is impaired. If there is such evidence, the Group calculates the amount of impairment as the difference between the recoverable amount of the associate or joint venture and its carrying value, then recognises the loss as 'Share of profit of an associate and a joint venture' in the statement of profit or loss.

Upon loss of significant influence over the associate or joint control over the joint venture, the Group measures and recognises any retained investment at its fair value. Any difference between the carrying amount of the associate or joint venture upon loss of significant influence or joint control and the fair value of the retained investment and proceeds from disposal is recognised in profit or loss.

Joint operations

Joint operation is a joint arrangement whereby the parties that have joint control of the arrangement have rights to the assets, and obligations for the liabilities, relating to the arrangement. A joint operator shall account for the assets, liabilities, revenues and expenses relating to its interest in a joint operation in accordance with IFRSs applicable to the particular assets, liabilities, revenues and expenses.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Principles of consolidation (continued)

Transactions eliminated on consolidation

Intercompany transactions, balances and unrealised gains in transactions among the Group entities are eliminated; unrealised losses are also eliminated unless the cost cannot be recovered. The Company and all of its subsidiaries use uniform accounting policies consistent with the Group's policies.

Unrealised gains on transactions between the Group and its equity accounted investees are eliminated to the extent of the Group's interest in the investees; unrealised losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred.

Business combinations and goodwill

Business combinations are accounted for using the acquisition method. The cost of an acquisition is measured as the aggregate of the consideration transferred measured at acquisition date on fair value and the amount of any non-controlling interests in the acquiree. For each business combination, the Group elects whether to measure the non-controlling interests in the acquiree at fair value or at the proportionate share of the acquiree's identifiable net assets. Acquisition-related costs are expensed as incurred and included in operating expenses.

When the Group acquires a business, it assesses the financial assets and liabilities assumed for appropriate classification and designation in accordance with the contractual terms, economic circumstances and pertinent conditions as at the acquisition date. This includes the separation of embedded derivatives in host contracts by the acquiree.

If the business combination is achieved in stages, any previously held equity interest is re-measured at its acquisition date at fair value and any resulting gain or loss is recognised in profit or loss. It is then considered in the determination of goodwill.

Any contingent consideration to be transferred by the acquirer will be recognised at fair value at the acquisition date. Contingent consideration classified as an asset or liability that is a financial instrument and within the scope of IAS 39 *Financial Instruments: Recognition and Measurement*, is measured at fair value with changes in fair value recognised either in either profit or loss or as a change to OCI. If the contingent consideration is not within the scope of IAS 39, it is measured in accordance with the appropriate IFRS. Contingent consideration that is classified as equity is not re-measured and subsequent settlement is accounted for within equity.

Goodwill is initially measured at cost, being the excess of the aggregate of the consideration transferred and the amount recognised for non-controlling interests, and any previous interest held, over the net identifiable assets acquired and liabilities assumed. If the fair value of the net assets acquired is in excess of the aggregate consideration transferred, the Group re-assesses whether it has correctly identified all of the assets acquired and all of the liabilities assumed and reviews the procedures used to measure the amounts to be recognised at the acquisition date. If the re-assessment still results in an excess of the fair value of net assets acquired over the aggregate consideration transferred, then the gain is recognised in profit or loss.

After initial recognition, goodwill is measured at cost less any accumulated impairment losses. For the purpose of impairment testing, goodwill acquired in a business combination is, from the acquisition date, allocated to each of the Group's cash-generating units that are expected to benefit from the combination, irrespective of whether other assets or liabilities of the acquiree are assigned to those units.

Where goodwill has been allocated to a cash-generating unit and part of the operation within that unit is disposed of, the goodwill associated with the disposed operation is included in the carrying amount of the operation when determining the gain or loss on disposal. Goodwill disposed in these circumstances is measured based on the relative values of the disposed operation and the portion of the cash-generating unit retained.

The acquisitions of entities under common control are accounted for using the predecessor accounting method. In accordance with this method, the consolidated financial statements of the Group are prepared to reflect the combination as if it had occurred from the beginning of the earliest period presented in the consolidated financial statements, or, if occurred later, from the date when the entities had been under common control. Under the predecessor accounting method the assets and liabilities of the combining entities are accounted for at the carrying values determined by the Group in its consolidated financial statements. Comparative information is presented as if the entities had always been consolidated, but not earlier than the common control over these entities was established.

All other acquisitions are accounted for by applying the acquisition method.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Foreign currency

Foreign currency transactions and translation

Transactions in foreign currencies are measured in the respective functional currencies of the Group entities at exchange rates effective at the dates of the transactions. Monetary assets and liabilities denominated in foreign currencies at the end of the reporting period are remeasured to the entities' functional currencies at the exchange rate at that date. Non-monetary assets and liabilities that are measured at fair value in a foreign currency are remeasured to the functional currency at the exchange rate at the date that the fair value was determined. Other non-monetary assets and liabilities measured in a foreign currency are remeasured to the functional currency at the exchange rate at the date of operation. Foreign currency differences arising on remeasurement are recognised in profit and loss.

The effect of exchange rate changes on fair value of available-for-sale financial assets, when they are considered non-monetary, is included in the consolidated statement of other comprehensive income.

Assets and liabilities of the Company and its subsidiaries are translated into the Group's presentation currency at the exchange rate prevailing at the end of the reporting period. Profit and loss items of the Company and its subsidiaries are translated at the average exchange rate for the period (unless this average is not a reasonable approximation of the cumulative effect of the rates prevailing on the transaction dates; in this case income and expenses are translated at the rate on the dates of the transactions). Components of equity and other comprehensive income are translated at the historical rate with the exception of equity opening balances at the date of transition to IFRS which were translated at the exchange rate at the date of transition. Exchange differences arising on the translation of the net assets of the Company and its subsidiaries are recognised as translation differences in other comprehensive income and included in the foreign currency translation reserve (FCTR) in equity.

Property, plant and equipment

Property, plant and equipment are carried at historical cost of acquisition or construction after deduction of accumulated depreciation and accumulated impairment. The cost of self-constructed assets includes cost of materials, direct labour and a proportion of production overheads. Where an item of property, plant and equipment comprises major components having different useful lives, the components are accounted for as separate items of property, plant and equipment.

Renewals and improvements are capitalised. The costs of regular repair and maintenance are expensed as incurred. Gains and losses arising from the disposal of property, plant and equipment are included in profit and loss as incurred.

Expenditure incurred to replace a component of an item of property, plant and equipment that is accounted for separately, is capitalised to the carrying amount of the component being written off. Other subsequent expenditure is capitalised only when it increases future economic benefits embodied in the item of property, plant and equipment. All other expenditures are recognised in profit and loss as incurred.

Social assets are not capitalised as they are not expected to result in future economic benefits to the Group. Costs associated with fulfilling of the Group's social responsibilities are expensed as incurred.

Prepayments for capital construction and acquisition of property, plant and equipment are included into construction in progress.

Depreciation of property, plant and equipment is calculated on a straight-line basis over the estimated useful life of the asset. Depreciation commences from the time an asset is completed and ready for use. The useful lives are reviewed at each financial year-end and, if expectations differ from previous estimates, changes are recognised prospectively. The useful lives, in years, of assets by type of facility are as follows:

Type of facility	*Useful life, years*
Buildings	25-72
Hydro engineering structures	15-33
Transmission facilities and equipment	6-33
Thermal networks	5-19
Power equipment	5-25
Other equipment and fixtures	6-30
Other structures	2-25
Other fixed assets	3-20

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Intangible assets

The Group classifies its intangible assets in the following categories:

- goodwill;
- software;
- other intangible assets (which include: capitalised cost to obtain status of “guarantee supplier”, costs of projects in the development stage and others).

Goodwill

Goodwill arises on the acquisition of subsidiaries, associates and joint ventures.

Goodwill represents the excess of the cost of investment over the Group’s interest in the net fair value of the identifiable assets and liabilities of the acquiree. Goodwill in respect of subsidiaries is recognised as a separate asset within intangible assets in the consolidated statement of financial position. Goodwill in respect of associates and joint ventures is included in the carrying amount of the investees.

The excess of the Group’s interest in the net fair value of the identifiable assets and liabilities of the acquiree over the cost of investment is recognised in profit and loss. For associates and joint ventures such excess is recognised in profit and loss as a part of the share of profit/loss of an associates and joint ventures.

Goodwill is measured at cost less accumulated impairment losses and is the subject for impairment test at each reporting period or when an indication of impairment loss exists.

Concession arrangements

Concession arrangements are the contracts when the Group constructs and upgrades infrastructure used to provide services, which it operates and maintains for a specified period of time. These arrangements include operating of a power plant and infrastructure under service concession arrangement for their entire useful life.

The Group applies the financial asset model when the amount due from the grantor meets the definition of a receivable which is measured at fair value. It is subsequently measured at amortised cost. The amount initially recognised plus the cumulative interest on that amount is calculated using the effective interest method.

Any asset carried under concession arrangements is derecognised on disposal or when no future economic benefits are expected from its future use or disposal or when the contractual rights to the financial asset expire.

The Group manages concession arrangements which include the construction of power plant, infrastructure and other facilities followed by a period in which the Group maintains and services the infrastructure. This may also include, in a secondary period, asset replacement or refurbishment. These concession arrangements set out rights and obligations relative the infrastructure and the service to be provided.

For fulfilling those obligations, the Group is entitled to receive consideration from the grantor. The consideration received or receivable is allocated by reference to the relative fair values of the services provided; typically:

- a construction component;
- a service element for operating and maintenance services performed.

The right to consideration gives rise to a financial asset.

Revenue from the concession arrangements earned under the financial asset model consists of the (i) fair value of the amount due from the grantor; and (ii) interest income related to the capital investment in the project.

Software and other intangible assets

Other intangible assets that are acquired or internally created (as part of the cost of development projects) by the Group, which have finite useful lives, are measured at cost less accumulated amortisation and impairment losses.

The estimated useful lives of intangible assets are in the range of 2-10 years for software and other intangibles assets.

Amortisation

Amortisation is recognised in profit and loss on a straight-line basis over the estimated useful lives of intangible assets, other than goodwill, from the date that they are available for use.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Intangible assets (continued)

Internally generated intangible assets

Costs of projects on development stage are recognised as intangible assets to the extent that such expenditure is expected to generate future economic benefits and demonstrated all of the following: (a) the technical feasibility of completing the intangible asset so that it can be available for use or sale; (b) the Group's intention to complete intangible asset and use or sell it; (c) the Group's ability to use or sell the intangible asset; (d) the availability of adequate technical, financial and other resources to complete the development and to use or sell the intangible asset; (e) the Group's ability to measure the expenditure attributable to the intangible asset during its development reliably.

Leased assets

Leases in terms of which the Group as a lessee assumes substantially all the risks and rewards of ownership are classified as finance leases. Upon initial recognition the leased asset is measured at an amount equal to the lower of its fair value and the present value of the minimum lease payments. Subsequent to initial recognition, the asset is accounted for in accordance with the accounting policy applicable to that asset. The corresponding finance lease liability is carried at the present value of future lease payments.

Other leases are operating leases and the leased assets are not recognised on the Group's consolidated statement of financial position. The total lease payments are charged to profit or loss on a straight-line basis over the lease term.

Assets classified as held for sale (HFS)

Non-current assets and disposal groups are classified as HFS if their carrying amount will be recovered through a sale transaction rather than through continuing use. This condition is met only when the sale is highly probable within a year from the date of classification, the asset or disposal group is available for immediate sale in its present condition and management has committed to the sale. The extension of the period required to complete a sale does not preclude an asset (or disposal group) from being classified as HFS if the delay is caused by events or circumstances beyond the Group's control and there is sufficient evidence that the Group remains committed to its plan to sell the asset (or disposal group). Non-current assets and disposal groups classified as HFS are measured at the lower of their carrying amount and fair value less costs to sell.

Inventories

Inventories are measured at the lower of cost and net realisable value. The cost of inventories is determined on the weighted average basis, and includes expenditure incurred in acquiring the inventories, production or conversion costs and other costs incurred in bringing them to their existing location and condition. Net realisable value is the estimated selling price in the ordinary course of business, less the estimated costs of completion and selling expenses.

In the case of manufactured inventories and work in progress, cost includes an appropriate share of production overheads based on normal operating capacity.

Provision is made for obsolete or slow-moving inventories, taking into account their expected use and future net realisable value.

Cash and cash equivalents

Cash comprises cash in hand and cash deposited on demand at banks. Cash equivalents comprise short-term, highly liquid investments that are readily convertible into cash and have an original maturity of three months or less from the date of acquisition and are subject to insignificant changes in value.

Prepayments

Prepayments made by the Group are carried at cost less provision for impairment. Prepayments to acquire assets are transferred to the carrying amount of the asset once the Group has obtained control of the asset and it is probable that future economic benefits associated with the asset will flow to the Group. Other prepayments are recognised in profit or loss when the goods or services relating to the prepayments are received. If there is an indication that the assets, goods or services relating to a prepayment will not be received, the carrying value of prepayment is written down as impairment loss in profit and loss.

Prepayments made by the Group are classified as non-current assets when the goods or services relating to the prepayment are to be delivered beyond one year period or when they relate to acquisition of property, plant and equipment. Where such prepayments relate to construction contracts, revenue is recognised when the outcome of the contract can be estimated reliably, by reference to the stage of completion of the contract activity.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Value added tax on purchases and sales

Value added tax (VAT) related to sales is payable to tax authorities either upon revenue recognition or at the time of collection of receivables from customers, depending on local statutory regulations in respective jurisdictions in which the Group entities operate. Tax authorities permit settlement of VAT on a net basis. VAT related to sales and purchases which has not been settled at the end of the reporting period (deferred VAT) is recognised in the consolidated statement of financial position on a gross basis and disclosed separately as current asset and liability. Where provision has been made for impairment of receivables, the impairment loss is recorded for the gross amount of the debtor’s balance, including VAT. Related deferred VAT liability is maintained on the consolidated statement of financial position until the debt is recognised for tax purposes. Changes of VAT recoverable related to the purchases of property, plant and equipment and investment property is recognised in the consolidated statement of cash flows in operating activities.

Financial instruments

Financial instruments include cash and cash equivalents, available-for-sale financial assets, derivatives, hedges, accounts receivable, accounts payable and loans and borrowings. Particular recognition and measurement methods are disclosed in the individual policy statements associated with each item. Financial instruments are represented by derivatives and non-derivative financial instruments.

Sale and repurchase agreements

Equity instruments sold under sale and repurchase agreements (“repos”) are retained in the consolidated statement of financial position. The difference between sale and repurchase price in treated as other operating income/(expenses) through profit and loss in the consolidated statement of comprehensive income.

Derivative financial instruments

Derivative financial instruments are means to transfer risk inherent in the basic instruments, between the parties of the contract, without transfer of the underlying instruments.

As a part of trading activities, the Group has the following derivative financial instruments:

(a) interest rate swap;

(b) currency swap;

(c) foreign currency forward and option contract: foreign currency forwards and options are initially recognised at fair value on the date a forward/option contract is entered into and are subsequently remeasured at their fair value. Fair value gains and losses on those derivatives are presented as part of other comprehensive income to the extent of effective cash flow hedges and as a part of profit or loss to the extent of ineffective cash flow hedges;

(d) electricity futures and forward contracts: electricity derivatives are initially recognised at fair value on the date a contract in entered into and are subsequently remeasured at their fair value. Fair value gains and losses on those derivatives are presented as part of other comprehensive income to the extent of effective cash flow hedges and as a part of profit or loss to the extent of ineffective cash flow hedges or speculative transactions;

(e) shares option (call or put): options are contractual agreements that convey the right, but not the obligation, for the purchaser either to buy or sell a financial instrument at a fixed price, either at a fixed future date or at any time within a specified period. Options purchased by the Group provide the Group with the opportunity to purchase (call options) the underlying asset at an agreed-upon value either on or before the expiration of the option.

Compound financial instruments

Compound (hybrid) financial instrument is divided in accordance with the terms of the contract in the following parts: financial liability/financial asset and equity component. When initial carrying amount of a compound financial instrument is allocated to its equity and asset/liability components, the equity component is assigned to the residual amount after deducting from the fair value of the instrument as a whole the amount separately determined for the asset/liability component. The sum of the carrying amounts assigned to the asset/liability and equity components at initial recognition equals to the fair value that would be ascribed to the instrument as a whole. The Group presents the asset/liability and equity components separately in its consolidated statement of financial position. On initial recognition, the fair value of the asset/liability component is the present value of the contractually determined stream of future cash flows discounted at the rate of interest applied at that time by the market to instruments of comparable credit status which provide for substantially the same cash flows, on the same terms, but without the conversion option. Changes in the fair value of an equity instrument are not recognised in the consolidated financial statements. On conversion of a convertible instrument at maturity, the Group derecognises the asset/liability component and recognises it in equity. The original equity component remains as equity (although it may be transferred from one line item within equity to another). There is no gain or loss on conversion at maturity.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Compound financial instruments (continued)

The method of recognising of 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. The Group designates certain derivatives as either:

(a) hedges of the fair value of recognised assets or liabilities or a firm commitment (fair value hedge);

(b) hedges of a particular risk associated with a recognised asset or liability or a highly probable forecast transaction (cash flow hedge);

(c) hedges of a net investment in a foreign operation (net investment hedge).

The Group documents at the inception of the transaction the relationship between hedging instruments and hedged items, as well as its risk management objectives and strategy for undertaking various hedging transactions.

The Group also documents its assessment, both at the time of the hedges' inception and on an ongoing basis, of whether the derivatives that are used in hedging transactions are highly effective in offsetting changes in fair values or cash flows of hedged items. The fair values of various derivative instruments are disclosed in Note 16, 17, 20, 21. The fair value of a hedging derivative is classified as a non-current asset or liability when the remaining maturity of the hedged item is more than 12 months, and as a current asset or liability when the remaining maturity of the hedged item is less than 12 months.

Non derivative financial assets

The Group classifies its financial assets in the following categories:

(a) financial assets at fair value through profit or loss;

(b) available-for-sale financial assets;

(c) held-to-maturity financial assets.

Management determines the classification of its financial assets at initial recognition and re-assesses this designation thereafter.

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

A financial asset is classified in this category if acquired principally for the purpose of selling in the short term period or if so designated by management. Assets in this category are classified as current assets if they are expected to be realised within 12 months from the end of the reporting period. Gains and losses arising from changes in the fair value of the "financial assets at fair value through profit or loss" category are included within the profit and loss in the consolidated statement of comprehensive income in the period in which they arise.

(b) Available-for-sale financial assets (AFS)

Investments intended to be held for an indefinite period of time are classified as AFS; they are classified as other non-current assets unless management has an intention to hold the investment for less than 12 months from the end of the reporting period. Management determines the appropriate categorisation, current or non-current distinction, at the time of purchase and re-assesses it based on maturity at the end of each reporting period.

AFS include non-marketable securities, which are not publicly traded. For these investments, fair value is estimated using a variety of methods including those based on their earnings and those based on the discounted value of estimated future cash flows. In assessing the fair value, management makes assumptions that are based on market conditions existing at the end of each reporting period. Investments in equity securities that are not quoted on a stock exchange and which fair value cannot be estimated on a reasonable basis by other means are stated at cost less impairment losses.

"Regular way" purchases and sales of investments are initially measured at fair value plus transaction costs and recognised on the settlement date, which is the date when the investment is delivered to or by the Group. AFS are subsequently carried at fair value except for those investments which fair value cannot be reliably estimated. In this case the investments are carried at cost less impairment provision. Gains and losses arising from changes in the fair value are recognised in other comprehensive income and included in the fair value reserve in equity in the period in which they arise. Realised gains and losses from the disposal of AFS are included in profit and loss in the period in which they arise.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Non derivative financial assets (continued)

(c) Held-to-maturity financial assets

Financial assets with fixed terms and cash flows are classified as held-to-maturity financial assets, provided management intends to keep them for their full terms and is in a position to do so. Management determines the appropriate classification for its investments on their acquisition dates. Held-to-maturity financial assets are carried at amortised cost based on the effective interest method, net of provision for impairment losses. Interest earned on held-to-maturity financial assets is recognised as interest income. All purchases and sales made in accordance with standard market conditions for held-to-maturity financial assets are recognised at the date of settlement.

Loans and accounts receivable

Accounts receivable are recorded inclusive of value added taxes (VAT) and are initially recorded at the amount receivable from the debtor. Trade and other receivables are adjusted for provision made for impairment of these receivables. Such provision for doubtful debtors is established if there is objective evidence that the Group will not be able to collect all amounts due according to the original terms of the contract. The amount of the provision is the difference between the carrying amount and the recoverable amount, being the present value of expected future cash flows, discounted at the market rate of interest adjusted for the credit risk of debtors at the date of origination of the receivables.

Debt is recognised initially at its fair value net of transaction costs incurred. Fair value is determined using the prevailing market rate of interest for a similar instrument, if significantly different from the transaction price. In subsequent periods, debt is stated at amortised cost using the effective yield method; any difference between the amount at initial recognition and the redemption amount is recognised in profit and loss as interest adjustment over the period of the debt obligation existence.

Financial guarantee contracts

A financial guarantee contract is a contract that requires the issuer to make specified payments to reimburse the holder for a loss it incurs because a specified debtor fails to make payment when due in accordance with the original or modified terms of a debt instrument. Financial guarantee contracts are initially recognised at fair value and are subsequently measured at the higher of (i) the remaining unamortised balance of the amount at initial recognition and (ii) the best estimate of expenditure required to settle the obligation at the reporting date.

Fair value of financial instruments

The Group measures financial instruments, such as derivatives, at fair value at each reporting date. Also, fair values of financial instruments, which are measured at amortised cost, are disclosed in Note 19 and Note 28 (e).

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction in the principal (or most advantageous) market at the measurement date under current market conditions (i.e. an exit price) regardless of whether that price is directly observable or estimated using another valuation technique. The principal market (or the most advantageous market in the absence of principle market) must be accessible to by the Group.

The fair value of an asset or a liability is measured using the assumptions that market participants would use when pricing the asset or liability, assuming that market participants act in their economic best interest.

A fair value measurement of a non-financial asset takes into account a market participant's ability to generate economic benefits by using the asset in its highest and best use or by selling it to another market participant that would use the asset in its highest and best use.

To achieve greater consistency and comparability of fair value measurements and related disclosures the fair value hierarchy is followed up to define fair value estimation methods and apply relevant observable inputs and minimise the use of unobservable inputs.

Observable inputs are inputs that are developed using market data, such as publicly available information about actual events or transactions, and that reflect the assumptions that market participants would use when pricing the asset or liability. The unobservable inputs are inputs for which market data are not available and that are developed using the best information available about the assumptions that market participants would use when pricing the asset or liability.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Fair value of financial instruments (continued)

All assets and liabilities for which fair value is measured or disclosed in the financial statements are categorised within the fair value hierarchy, described as follows, based on the lowest level input that is significant to the fair value measurement as a whole:

- Level 1 – quoted (unadjusted) market prices in active markets for identical assets or liabilities.
- Level 2 – valuation techniques for which the lowest level input that is significant to the fair value measurement is directly or indirectly observable.
- Level 3 – valuation techniques for which the lowest level input that is significant to the fair value measurement is unobservable.

Fair value of financial instruments that are actively traded in organised financial markets is determined by reference to quoted market bid prices for assets and offer prices for liabilities in the principal market for the asset or liability, at the close of business on the reporting date, with no adjustment made for the transaction costs.

For assets and liabilities where there is no principal (or most advantageous) market, respective fair value is determined using appropriate valuation techniques. Valuation techniques include discounted cash flow method, comparison to similar instruments for which market observable prices exist, options pricing models, credit models and other relevant valuation models. If an asset or a liability measured at fair value has a bid price and an ask price, the price within the bid-ask spread that is most representative of fair value in the circumstances can be used to measure at fair value. It is possible to use mid-market pricing conventions that are used by market participants as anexpedient for fair value measurement within a bid-ask spread. Certain financial instruments are recorded at fair value using valuation techniques because current market transactions or observable market data are not available. Their fair value is determined using a valuation model that is tested against prices or inputs to actual market transactions and using the Group's best estimate of the most appropriate internal model assumptions. Models are adjusted to reflect the spread for bid and ask prices to reflect costs to close out positions, counterparty credit and liquidity spread and limitations in the models. Also, profit or loss calculated when such financial instruments are first recorded (Day 1 profit or loss) is deferred and recognised only when the inputs become observable or on derecognition of the instrument.

For discounted cash flow techniques, estimated future cash flows and discount rates are based on management's best estimates of assumptions that market participants would use when pricing the asset or liability. Cash flows and discount rates used take into account only the factors attributable to the asset or liability being measured. The use of different pricing models and assumptions could produce materially different estimates of fair values.

Fair value of floating rate and overnight deposits with credit institutions is their carrying value. The carrying value is the cost of the deposit plus interest accrued. Fair value of fixed interest-bearing deposits is estimated using discounted cash flow techniques. Expected cash flows are discounted at prevailing market rates for similar instruments at the recognition date.

If fair value cannot be measured reliably, assets and liabilities are measured at cost. An analysis of fair values of financial instruments and further details as of how they are measured are provided in Note 28(e).

Where fair values of financial assets and financial liabilities recorded on the consolidated statement of financial position cannot be derived from the principal (or most advantageous) markets, they are determined using a variety of valuation techniques that include the use of discounted cash flows model and/or mathematical models. The inputs to these models are derived from observable market data where possible, but where observable market data are not available, judgment is required to establish fair values. The judgments include considerations of liquidity risk, credit risk, and model inputs such as volatility and discount rates, prepayment rates and default rate assumptions for asset backed securities.

For discounted cash flows analysis, estimated future cash flows and discount rates are based on current market information and rates applicable to financial instruments with similar yields, credit quality and maturity characteristics. Estimated future cash flows are influenced by factors such as economic conditions (including country specific risks), concentrations in specific industries, types of instruments or currencies, market liquidity and financial conditions of counterparties. Discount rates are influenced by risk free interest rates and credit risk.

Changes in these assumptions affect fair value of financial instruments.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Impairment

Held-to-maturity financial assets

A financial asset is considered to be impaired if objective evidence indicates that one or more events have had a negative effect on the estimated future cash flows of that asset.

An impairment loss in respect of a financial asset measured at amortised cost is calculated as the difference between its carrying amount, and the present value of the estimated future cash flows discounted at the current effective interest rate.

Individually significant financial assets are tested for impairment on an individual basis. The remaining financial assets are assessed collectively in groups that share similar credit risk characteristics.

All impairment losses are recognised in profit and loss.

An impairment loss is reversed if the reversal can be related objectively to an event occurring after the impairment loss was recognised. For financial assets measured at amortised cost the reversal is recognised in profit and loss.

AFS

Impairment losses are recognised in profit and loss when incurred as a result of one or more events (“loss events”) that occurred after the initial recognition of AFS. A significant or prolonged decline in the fair value of an equity security below its cost is an indicator that it is impaired. The cumulative impairment loss is measured as the difference between the acquisition cost and current fair value, less any impairment loss on that asset previously recognised in profit or loss. The last is reclassified from fair value reserve to profit or loss. Impairment losses on equity investments classified as AFS are not reversed through profit or loss; increases in their fair value after impairment are recognised directly in other comprehensive income.

Non-financial assets

Carrying amounts of the Group’s non-financial assets, other than inventories and deferred tax assets, are reviewed at the end of each reporting period to determine whether there is any indication of impairment. If such indication exists, then the asset’s recoverable amount is estimated.

The recoverable amount of an asset or cash-generating unit is the greater of its value in use and its fair value less costs to sell. In assessing value in use, estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of time value of money and the risks specific to the asset.

An impairment loss is recognised if the carrying amount of an asset or cash-generating unit exceeds its recoverable amount. A cash-generating unit is the smallest identifiable asset group that generates cash flows that are largely independent from those of other assets and groups. Impairment losses are recognised in the consolidated statement of comprehensive income. Impairment losses recognised in respect of cash-generating units are allocated first to reduce the carrying amount of any goodwill allocated to the units and then to reduce the carrying amount of the other assets in the unit (group of units) on a pro rata basis.

An impairment loss previously recognised in respect of goodwill is not reversed. In respect of other assets, impairment losses recognised in prior periods are assessed at the end of each reporting period for any indications that the loss has decreased or no longer exists. An impairment loss is reversed if there has been a substantial positive change in the estimates used to determine the recoverable amount. An impairment loss is reversed only to the extent that the asset’s carrying amount does not exceed the carrying amount that would have been determined, net of depreciation or amortisation, if no impairment loss had been recognised.

Derecognition of financial assets

The Group derecognises financial assets when (a) the assets are redeemed or rights to cash flows from the assets otherwise expired or (b) the Group has transferred rights to cash flows from financial assets or entered into a qualifying pass-through arrangement while (i) also transferring substantially all the risks and rewards of ownership of the assets or (ii) neither transferring nor retaining substantially all risks and rewards of ownership but does not retain a control. Control is retained if the counterparty does not have practical ability to sell the asset in its entirety to an unrelated third party without imposition of additional restrictions on sale.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Loans and borrowings

Loans and borrowings are recognised initially at their fair value which is determined using prevailing market rate of interest for a similar instrument, if significantly different from the transaction price, net of transaction costs incurred. In subsequent periods, loans and borrowings are recognised at amortised cost, using effective interest method; any difference between the amount at initial recognition and the redemption amount is recognised in profit and loss as an interest adjustment over the period of the instrument.

Employee benefits

Pension and post-employment benefits

In the normal course of business the Group contributes to various governmental pension schemes on behalf of its employees. Mandatory contributions to governmental pension schemes are expensed in profit and loss when incurred. Costs associated with discretionary pensions and other post-employment benefits are included in wages, benefits and payroll taxes in profit and loss.

Short-term benefits

Short-term employee benefits are measured on an undiscounted basis and are expensed in profit and loss as related service is provided.

An expense is recognised in the amount expected to be paid under short-term cash bonus or profit-sharing plans if the Group has a present legal or constructive obligation to pay this amount as a result of past service provided by employees, and the obligation can be estimated reliably.

Defined benefit plans

The Company operates defined benefit plans that cover the majority of its employees. Benefit plans define the amount of pension benefit that an employee will receive on or after retirement, usually dependent on one or more factors such as age, years of service and compensation. The liability recognised in the consolidated statement of financial position in respect of defined benefit plans is the present value of defined benefit obligation at the end of the reporting period less the fair value of plan assets. Defined benefit obligations are calculated using the projected unit credit method.

Present value of defined benefit obligations are determined by discounting the estimated future cash outflows using interest rate of government bonds that are denominated in the currency of benefits payment and associated with the operation of the plans, and that have maturity terms approximating the terms of the related pension liabilities.

Actuarial gains and losses arising from experience adjustments and changes in actuarial assumptions of post-employment benefits are recognised in other comprehensive income at the date of occurrence. Other amounts, such as current service cost, any past service cost and gain or loss on settlement, and net interest on net defined benefit liability (asset) are recognised in profit or loss. Remeasurements of other long term benefits are also recognised in profit or loss.

Share-based payment transactions

The share option programme allows the Group's employees to acquire shares of the Company. The fair value of the options is measured at grant date and spread over the period during which the employees become unconditionally entitled to the options. The fair value of the American type options is measured based on the binomial model while fair value of European type options is measured based on the Black-Scholes model taking into account terms and conditions in the options were granted.

Government grants

Grants from government are recognised at their fair value where there is a reasonable assurance that the grant will be received and the Group will comply with all attached conditions. Government grants relating to costs are deferred and recognised in profit and loss over the period necessary to match them with the costs that they are intended to compensate. Government grants relating to property, plant and equipment are included in non-current liabilities as deferred government grants and are credited to profit and loss on a straight-line basis over the expected lives of the related assets.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Provisions

A provision is recognised if, as a result of past event, the Group has a present legal or constructive obligation that can be estimated reliably, and it is probable that an outflow of economic benefits will be required to settle the obligation. Provisions are determined by discounting expected future cash flows at a pre-tax rate that reflects current market assessments of time value of money and risks specific to liability.

Environmental liabilities

Liabilities for environmental remediation are recorded where there is a present obligation (legal or construction), payment is probable and reliable estimates can be made.

Restoration provision

Restoration provision is recognised if it presents a legal or constructive obligation as a result of past events, it is probable that an outflow of resources will be required to settle the obligation, and a reliable estimate of the amount of the obligation can be made. The corresponding asset is depreciated through profit and loss in the consolidated statement of comprehensive income on a straight-line basis during the asset's useful life. Restoration provision is calculated based on expected costs and time required to restore land occupied by ash dumps and mines at the end of their useful life to avoid their damaging effect on the environment. Change in provision related to revision of costs, discount rate or other assumptions is accounted for prospectively starting from the date of revision of these estimates.

Shareholder's equity

Dividends

Dividends declared are recognised as a liability and deducted from equity if they are approved by shareholders. Dividends are disclosed when they are declared after the end of the reporting period, but before the consolidated financial statements are authorised for issue.

Earnings per share

Earnings per share is determined by dividing profit/(loss) attributable to holders of ordinary shares by weighted average number of ordinary shares outstanding during the reporting period, excluding the effect of average number of ordinary shares purchased by the Group (treasury shares).

Diluted earnings per share are calculated by adjusting weighted average number of ordinary shares outstanding assuming conversion of all dilutive potential ordinary shares.

Share premium

Share premium is determined as a difference between the issue cost of shares and their nominal value at the moment of issue of shares. Share premium is translated into reporting currency using the historical rate as at the date of the transaction and recognised in the consolidated statement of changes in equity.

Treasury shares

The cost of acquisition of the Company's equity instruments by the Company or its subsidiaries, including any directly attributable incremental costs, net of income taxes, is deducted from equity attributable to the Company's owners until the equity instruments are cancelled, reissued or disposed of.

Treasury shares are recognised at their nominal value, and any differences between nominal value and consideration transferred, including any directly attributable incremental costs, net of income taxes, are recognised within retained earnings.

Where such shares are subsequently sold or reissued, any consideration received, net of any directly attributable incremental transaction costs and related income tax effects is included in equity attributable to the Company's shareholders. Disposal of treasury shares is recognised at nominal value, and any difference between nominal value and consideration received, net of any directly attributable incremental transaction costs and related income tax effects, is recognised in retained earnings. No gain or loss is recognised in the consolidated statement of comprehensive income on the purchase, sale, issue or cancellation of the Company's own equity instruments.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

Revenue

Revenue is recognised to the extent that it is probable that economic benefits will flow to the Group and revenue can be reliably measured, regardless of when the payment is made. Revenue from sale of electricity, capacity and heat is recognised in profit and loss on delivery of electricity, capacity and heat. Where applicable, revenue is based on rates and related restrictions established by law and regulating authorities. The regulatory mechanisms differ from country to country.

Revenue from rendering of construction contracts services is recognised in proportion to the stage of completion of the services. Costs incurred in connection with future activity for a contract are excluded from contract costs in determining the stage of completion. They are presented as a part of amounts due to or due from customers for contract work. Revenue amounts are presented exclusive of VAT.

The Group presents electricity purchases entered into to support delivery of non-regulated bilateral contracts net of revenue.

Social expenditure

To the extent that the Group's contributions to social programmes benefit the community at large and are not restricted to the Group's employees, they are recognised in profit and loss as incurred.

Research expenditure

Research expenditure is recognised as an expense as incurred. Development costs previously recognised as an expense are not recognised as an asset in a subsequent period, even if the asset recognition criteria are subsequently met.

Finance income

Finance income comprises interest income on funds invested, accretion income, dividend income and foreign currency gains, net. Interest income is recognised as it accrues, using the effective interest method. Dividend income is recognised when the dividends are declared and an inflow of economic benefits is probable.

Finance expenses

Finance expenses primarily include interest expense on borrowings, unwinding of discount on provisions and foreign currency losses, net. All borrowing costs are recognised in the consolidated statement of comprehensive income using the effective interest method unless directly attributable to acquisition of a qualifying asset. Commission fee for opening of credit lines is included into interest expense.

Income tax expense

Income tax expense comprises current and deferred tax. Income tax expense is recognised in profit and loss except it relates to items recognised in other comprehensive income or directly in equity.

Current tax is the expected tax payable on the taxable income for the period, using tax rates enacted or substantively enacted at the end of the reporting period, and any adjustment to tax payable in respect of previous years.

Deferred tax is recognised using the balance sheet method, providing for temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for taxation purposes. Deferred tax is not recognised for the following temporary differences: initial recognition of goodwill, initial recognition of assets or liabilities in a transaction that is not a business combination and that affects neither accounting nor taxable profit, and differences relating to investments in subsidiaries to the extent that the Parent Company is able to control the timing of their reversal and it is probable that they will not reverse in the foreseeable future.

A deferred tax asset for deductible temporary differences and tax losses carry forward is recognised to the extent that it is probable that future taxable profits will be available against which temporary difference can be utilised.

Deferred tax assets are reviewed at the end of each reporting period and are reduced to the extent that it is no longer probable that related tax benefit will be realised.

Deferred tax is measured at the tax rates that are expected to be applied to the temporary differences when they reverse, based on laws that have been enacted or substantively enacted by the end of the reporting period.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

New accounting pronouncements and revised standards

The accounting policies adopted in the preparation of the Group's annual financial statements for the year ended 31 December 2016 are consistent with those followed in the preparation of the Group's annual financial statements for the year ended 31 December 2015, except for the adoption of new amendments of the following standards became effective for the Group's consolidated financial statements at 31 December 2016, noted below:

a) The amendments of the following standards became effective for the Group's consolidated financial statements as of 1 January 2016:

- *Amendments to IFRS 11 Joint Arrangements: Accounting for Acquisitions of Interests* require that a joint operator accounting for the acquisition of an interest in a joint operation, in which the activity of the joint operation constitutes a business, must apply the relevant IFRS 3 principles for business combinations accounting. The amendments also clarify that a previously held interest in a joint operation is not remeasured on the acquisition of an additional interest in the same joint operation while joint control is retained. In addition, a scope exclusion has been added to IFRS 11 to specify that the amendments do not apply when the parties sharing joint control, including the reporting entity, are under common control of the same ultimate controlling party.

  The amendments apply to both the acquisition of the initial interest in a joint operation and the acquisition of any additional interests in the same joint operation and are prospectively effective for annual periods beginning on or after 1 January 2016, with early adoption permitted. This amendment did not have any effect on the consolidated financial statements.

- *Amendments to IFRS 10 and IAS 28 Sale or Contribution of Assets between an Investor and its Associate or Joint Venture* address the conflict between IFRS 10 and IAS 28 in dealing with the loss of control of a subsidiary that is sold or contributed to an associate or joint venture. The amendments clarify that the gain or loss resulting from the sale or contribution of assets that constitute a business, as defined in IFRS 3, between an investor and its associate or joint venture, is recognised in full. Any gain or loss resulting from the sale or contribution of assets that do not constitute a business, however, is recognised only to the extent of unrelated investors' interests in the associate or joint venture. These amendments must be applied prospectively and are effective for annual periods beginning on or after 1 January 2016, with early adoption permitted. This amendment did not have any effect on the consolidated financial statements.

- *IFRS 5 Non-current Assets Held for Sale and Discontinued Operations.* Assets (or disposal groups) are generally disposed of either through sale or distribution to owners. The amendment clarifies that changing from one of these disposal methods to the other would not be considered a new plan of disposal, rather it is a continuation of the original plan. There is, therefore, no interruption of the application of the requirements in IFRS 5. This amendment must be applied prospectively. This amendment did not have any effect on the consolidated financial statements.

- *IFRS 7 Financial Instruments: Disclosures*

  - *Servicing contracts.* The amendment clarifies that a servicing contract that includes a fee can constitute continuing involvement in a financial asset. An entity must assess the nature of the fee and the arrangement against the guidance for continuing involvement in IFRS 7 in order to assess whether the disclosures are required. The assessment of which servicing contracts constitute continuing involvement must be done retrospectively. However, the required disclosures would not need to be provided for any period beginning before the annual period in which the entity first applies the amendments.

  - *Applicability of the amendments to IFRS 7 to condensed interim financial statements.* The amendment clarifies that the offsetting disclosure requirements do not apply to condensed interim financial statements, unless such disclosures provide a significant update to the information reported in the most recent annual report. This amendment must be applied retrospectively.

  This amendment did not have any effect on the consolidated financial statements.

- *IAS 19 Employee Benefits.* The amendment clarifies that market depth of high quality corporate bonds is assessed based on the currency in which the obligation is denominated, rather than the country where the obligation is located. When there is no deep market for high quality corporate bonds in that currency, government bond rates must be used. This amendment must be applied prospectively. This amendment did not have any effect on the consolidated financial statements.

- *IAS 34 Interim Financial Reporting.* The amendment clarifies that the required interim disclosures must either be in the interim financial statements or incorporated by cross-reference between the interim financial statements and wherever they are included within the interim financial report (e.g., in the management commentary or risk report). The other information within the interim financial report must be available to users on the same terms as the interim financial statements and at the same time. This amendment must be applied retrospectively. This amendment did not have any effect on the consolidated financial statements.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

New accounting pronouncements and revised standards (continued)

- *Amendments to IAS 1 Disclosure Initiative.* The amendments to IAS 1 *Presentation of Financial Statements* clarify, rather than significantly change, existing IAS 1 requirements. The amendments clarify:
  - the materiality requirements in IAS 1;
  - that specific line items in the statement(s) of profit or loss and other comprehensive income and the statement of financial position may be disaggregated;
  - that entities have flexibility as to the order in which they present the notes to financial statements;
  - that the share of other comprehensive income of associates and joint ventures accounted for using the equity method must be presented in aggregate as a single line item, and classified between those items that will or will not be subsequently reclassified to profit or loss.

  Furthermore, the amendments clarify the requirements that apply when additional subtotals are presented in the statement of financial position and the statement(s) of profit or loss and other comprehensive income. These amendments are effective for annual periods beginning on or after 1 January 2016, with early adoption permitted. This amendments did not have any effect on the consolidated financial statements.

The Group has not adopted earlier any other standard, interpretation and amendment that has been issued but is not yet effective.

b) The following IFRSs and amendments to existing IFRSs that have been published are not yet effective:

- *The amendments to IAS 7 Statement of Cash Flows* are part of the IASB's Disclosure Initiative and require an entity to provide disclosures that enable users of financial statements to evaluate changes in liabilities arising from financing activities, including both changes arising from cash flows and non-cash changes. On initial application of the amendment, entities are not required to provide comparative information for preceding periods. These amendments are effective for annual periods beginning on or after 1 January 2017, with early application permitted.
- *IAS 12 Recognition of Deferred Tax Assets for Unrealised Losses – Amendments to IAS 12.* The amendments clarify that an entity needs to consider whether tax law restricts the sources of taxable profits against which it may make deductions on the reversal of that deductible temporary difference. Furthermore, the amendments provide guidance on how an entity should determine future taxable profits and explain the circumstances in which taxable profit may include the recovery of some assets for more than their carrying amount. Entities are required to apply the amendments retrospectively. However, on initial application of the amendments, the change in the opening equity of the earliest comparative period may be recognised in opening retained earnings (or in another component of equity, as appropriate), without allocating the change between opening retained earnings and other components of equity. Entities applying this relief must disclose that fact. These amendments are effective for annual periods beginning on or after 1 January 2017 with early application permitted. If an entity applies the amendments for an earlier period, it must disclose that fact.
- *IFRS 2 Classification and Measurement of Share-based Payment Transactions – Amendments to IFRS 2.* The IASB issued amendments to IFRS 2 *Share-based Payment* that address three main areas: the effects of vesting conditions on the measurement of a cash-settled share-based payment transaction; the classification of a share-based payment transaction with net settlement features for withholding tax obligations; and accounting where a modification to the terms and conditions of a share-based payment transaction changes its classification from cash settled to equity settled. On adoption, entities are required to apply the amendments without restating prior periods, but retrospective application is permitted if elected for all three amendments and other criteria are met. The amendments are effective for annual periods beginning on or after 1 January 2018, with early application permitted.
- *IFRS 16 Leases* was issued in January 2016 and it replaces IAS 17 *Leases*, IFRIC 4 *Determining whether an Arrangement contains a Lease*, SIC-15 *Operating Leases-Incentives* and SIC-27 *Evaluating the Substance of Transactions Involving the Legal Form of a Lease*. IFRS 16 sets out the principles for the recognition, measurement, presentation and disclosure of leases and requires lessees to account for all leases under a single on-balance sheet model similar to the accounting for finance leases under IAS 17. The standard includes two recognition exemptions for lessees – leases of 'low-value' assets (e.g., personal computers) and short-term leases (i.e., leases with a lease term of 12 months or less). At the commencement date of a lease, a lessee will recognise a liability to make lease payments (i.e., the lease liability) and an asset representing the right to use the underlying asset during the lease term (i.e., the right-of-use asset). Lessees will be required to separately recognise the interest expense on the lease liability and the depreciation expense on the right-of-use asset. IFRS 16 is effective for annual periods beginning on or after 1 January 2019. Early application is permitted, but not before an entity applies IFRS 15. A lessee can choose to apply the standard using either a full retrospective or a modified retrospective approach. The standard's transition provisions permit certain reliefs.

(in millions of RUR)

3. Summary of significant accounting policies (continued)

New accounting pronouncements and revised standards (continued)

- *IFRS 9 Financial Instruments.* In July 2014, the IASB issued the final version of IFRS 9 *Financial Instruments* that replaces IAS 39 *Financial Instruments: Recognition and Measurement* and all previous versions of IFRS 9. IFRS 9 brings together all three aspects of the accounting for financial instruments project: classification and measurement, impairment and hedge accounting. IFRS 9 is effective for annual periods beginning on or after 1 January 2018, with early application permitted. Except for hedge accounting, retrospective application is required but providing comparative information is not compulsory. For hedge accounting, the requirements are generally applied prospectively, with some limited exceptions.
- *IFRS 15 Revenue from Contracts with Customers* was issued in May 2014 and establishes a five-step model to account for revenue arising from contracts with customers. Under IFRS 15, revenue is recognised at an amount that reflects the consideration to which an entity expects to be entitled in exchange for transferring goods or services to a customer. The new revenue standard will supersede all current revenue recognition requirements under IFRS. Either a full retrospective application or a modified retrospective application is required for annual periods beginning on or after 1 January 2018. Early adoption is permitted.

The Group is considering the implication of the new standards and the impact on the Group's consolidates financial statement and plans to adopt new standards when they become effective.

4. Segment information

Operating segments are components of an enterprise about which separate financial information is available and is evaluated regularly by the Chief Operating Decision Maker ("CODM") in deciding how to allocate resources and in assessing performance. The Management Board of the Parent Company has been determined as the CODM; the operating segment has been defined as a legal entity or a particular business activity of a legal entity. The Management Board analyses the effectiveness of the operating segments based on IFRS financial reporting.

The Management Board considers the Group activities from both geographical (by countries of the Group entities' jurisdiction) and business perspective (generation, trading, supply, distribution, engineering and other) meaning that each operating segment represents a certain type of business activities or legal entities in a certain country.

The following reporting segments have been identified based on the requirements of IFRS 8 *Operating Segments* (taking into consideration aggregation criteria as well as quantitative thresholds on revenue and EBITDA):

- **Supply in the Russian Federation** (represented by PJSC Mosenergosbyt (Group of entities), JSC Saint Petersburg Power Supply Company, PJSC Tambov Energy Retailing Company, PJSC Saratovenergo, JSC Altayenergosbyt, LLC INTER RAO Orlovskii Energosbyt, JSC Industrial Energetics, LLC RN-Energo, PJSC Tomskenergosbyt, LLC Omsk Energy Retailing Company, JSC EIRTS LO (since 1 January 2015), LLC ESC Bashkortostan, LLC RT – Energy Trading (equity accounted investee).
- **Generation in the Russian Federation** represented by the following reporting sub-segments:
  - ***Electric Power Generation*** represented by:
    - *INTER RAO – Electricity Generation Group* (represented by Group Inter RAO – Electric Power Plants, including NVGRES Holding Limited and CJSC Nizhnevartovskaya GRES (equity accounted investees); and
  - ***Thermal Power Generation*** represented by:
    - *TGC-11* (represented by JSC TGC-11, JSC Tomsk generation, JSC TomskRTS and JSC OmskRTS);
    - *Bashkir Generation* (represented by Group Bashkir Generation Company).
- **Trading in the Russian Federation and Europe** (represented by the trading activities of the Parent Company, RAO Nordic Oy, AB INTER RAO Lietuva, SIA INTER RAO Latvia, INTER RAO Eesti OU, Inter Green Renewables and Trading AB, JSC Eastern Energy Company, LLC Payments implementation center and SOO IRL POLSKA (since January 2015).

(in millions of RUR)

4. Segment information (continued)

- **Foreign assets** represented by the following reporting sub-segments:
  - ***Georgia*** (represented by JSC Telasi, LLC Mtkvari Energy (till June 2016 – Note 5), JSC Khramhesi I and JSC Khramhesi II);
  - ***Armenia*** (represented by CJSC Elektricheskiye seti Armenii, JSC RazTES (equity accounted investees from 30 October 2015 till 29 December 2016 – Note 5, 8);
  - ***Moldavia*** (represented by CJSC Moldavskaya GRES);
  - ***Kazakhstan*** (represented by JSC Stantsiya Ekibastuzskaya GRES-2 (equity accounted investee till 1 December 2016 – Note 8) and LLP INTER RAO Central Asia (till 21 September 2016 – Note 5);
  - ***Turkey*** (represented by Trakya Elektrik Uterim Ve Ticaret A.S.).
- **Engineering in the Russian Federation** (represented by LLC INTER RAO Engineering, LLC Quartz Novie Tekhnologii (equity accounted investee till 7 October 2016 – Note 8), LLC Quartz Group, LLC Inter RAO – WorleyParsons (equity accounted investee till 1 April 2014), LLC Power Efficiency Centre INTER RAO UES (equity accounted investee), LLC INTER RAO – Export, Energy beyond borders Non-for-profit Fund and LLC TCC Energy beyond borders).
- Other.

The CODM evaluates performance of the operating segments based on EBITDA, which is calculated as profit/(loss) for the period before finance income and finance expenses; income tax expense; depreciation and amortisation of property, plant and equipment, investment property and intangible assets; impairment charge/(release) of property, plant and equipment and investment property; impairment of goodwill and other intangible assets; impairment of available-for-sale financial assets and assets classified as held-for-sale; provisions for doubtful debts and for inventory obsolescence; other provisions; share in profit/(loss) of associates and effects from acquisition and disposal of Group entities; income/(loss) from purchase and sale of available-for-sale financial assets and assets classified as held-for-sale; and charity expenses, income/(loss) from disposal of non-financial assets and some other included in Other item within the reconciliation between EBITDA of the reporting segments and net income/(loss) for the reporting period. The Group's definition of EBITDA may differ from that of other companies. Information about depreciation and amortisation of property, plant and equipment and intangible assets, interest income and interest expenses is disclosed in segment information as it is regularly reviewed by the CODM.

Revenue of each segment is mainly represented by sales of electricity and capacity and heat-power allocated to the reporting segments.

The CODM analyses leverage of the Group's subsidiaries, joint ventures (equity accounted investees) on a regular basis; loans and borrowings are allocated to the reporting segments excluding inter-segment balances.

Joint ventures (equity accounted investees) are reviewed by the CODM in terms of the Group's share in their profit/(loss) and loan and borrowings.

"Unallocated and Eliminations" includes elimination of transactions among the reporting segments ("Eliminations") and management expenses, interest income and interest expense of the Parent Company as well as loans and borrowings, obtained by the Parent Company or other subsidiaries, which cannot be allocated to a specific reporting segment on a reasonable basis ("Unallocated").

(in millions of RUR)

4. Segment information (continued)

Below is the performance of the operating segments for the year ended 31 December 2016:

	Supply	***Generation***			***Trading***	***Foreign assets***					***Engineering***			
		The Russian Federation												
		Electric Power Generation	***Thermal Power Generation***											
	The Russian Federation	***Inter RAO – Electricity Generation Group***	***TGC-11***	***Bashkir Generation***	***The Russian Federation and Europe***	***Armenia***	***Georgia***	***Moldavia***	***Kazakhstan***	***Turkey***	***The Russian Federation***	***Other***	***Unallocated and eliminations***	***Total***
Total revenue	**564,238**	**156,576**	**30,131**	**53,476**	**80,661**	**–**	**11,879**	**4,850**	**–**	**15,356**	**8,926**	**5,005**	**(62,916)**	**868,182**
Revenue from external customers	562,868	117,750	26,766	43,495	79,030	–	11,879	4,850	–	15,356	5,687	501	–	**868,182**
Inter-segment revenue	1,370	38,826	3,365	9,981	1,631	–	–	–	–	–	3,239	4,504	(62,916)	**–**
Operating expenses, including:														
Purchased electricity and capacity	(300,114)	(7,511)	(2,522)	(3,783)	(63,928)	–	(4,849)	–	–	–	–	(33)	55,000	**(327,740)**
Transmission fees	(227,751)	–	–	(8)	(6,006)	–	(1,138)	(15)	–	–	–	–	–	**(234,918)**
Fuel expenses	–	(73,318)	(12,606)	(28,281)	–	–	(954)	(132)	–	(11,545)	–	–	2,433	**(124,403)**
Share in (loss)/profit of joint ventures	(13)	3,075	–	–	–	1,838	–	–	774	–	(59)	57	–	**5,672**
EBITDA	**15,131**	**53,649**	**4,914**	**8,740**	**9,895**	**1,838**	**2,604**	**2,655**	**776**	**2,915**	**(257)**	**1,608**	**(8,209)**	**96,259**
Depreciation and amortisation	(2,175)	(11,710)	(1,740)	(3,370)	(61)	–	(594)	(350)	(2)	(1,638)	(207)	(717)	(340)	**(22,904)**
Interest income	3,756	895	–	382	280	–	62	–	1	50	252	138	3,679	**9,495**
Interest expenses	(1,708)	(3,969)	(779)	(114)	(181)	–	(146)	(221)	–	(456)	(101)	(4,457)	4,903	**(7,229)**

(in millions of RUR)

4. Segment information (continued)

Below is the performance of the operating segments for the year ended 31 December 2015 (restated):

	Supply	*Generation*			*Trading*	*Foreign assets*					*Engineering*			
		The Russian Federation												
		Electric Power Generation	*Thermal Power Generation*											
	The Russian Federation	*Inter RAO – Electricity Generation Group*	*TGC-11*	*Bashkir Generation*	*The Russian Federation and Europe*	*Armenia*	*Georgia*	*Moldavia*	*Kazakhstan*	*Turkey*	*The Russian Federation*	*Other*	*Unallocated and eliminations*	*Total*
Total revenue	**511,088**	**149,130**	**28,565**	**50,719**	**80,525**	**18,357**	**9,543**	**4,660**	**27**	**20,306**	**8,533**	**4,893**	**(54,359)**	**831,987**
Revenue from external customers	509,686	119,349	25,028	41,392	79,075	18,357	9,543	4,660	27	20,306	3,906	658	–	**831,987**
Inter-segment revenue	1,402	29,781	3,537	9,327	1,450	–	–	–	–	–	4,627	4,235	(54,359)	**–**
Operating expenses, including:														
Purchased electricity and capacity	(276,914)	(7,725)	(2,700)	(3,553)	(63,847)	(9,308)	(1,436)	–	(16)	–	–	(28)	45,377	**(320,150)**
Transmission fees	(200,368)	–	–	(13)	(5,387)	(851)	(827)	(16)	(11)	–	–	–	5	**(207,468)**
Fuel expenses	–	(79,481)	(13,644)	(28,901)	–	(1,715)	(3,065)	(84)	–	(16,622)	–	–	2,365	**(141,147)**
Share in profit/(loss) of joint ventures	93	2,339	–	–	–	459	–	–	(3,617)	–	46	(2)	–	**(682)**
EBITDA	**13,931**	**36,052**	**3,188**	**6,481**	**9,635**	**3,698**	**1,881**	**2,692**	**(3,612)**	**2,631**	**(417)**	**1,603**	**(5,369)**	**72,394**
Depreciation and amortisation	(2,210)	(11,707)	(1,778)	(3,334)	(60)	(708)	(554)	(389)	(3)	(1,488)	(189)	(771)	(418)	**(23,609)**
Interest income	3,171	1,515	5	346	321	40	44	–	2	27	233	483	1,299	**7,486**
Interest expenses	(1,310)	(6,119)	(1,403)	(216)	(291)	(660)	(140)	(280)	–	(505)	(80)	(6,828)	7,172	**(10,660)**

(in millions of RUR)

4. Segment information (continued)

As at 31 December 2016

	Supply	*Generation*			*Trading*	*Foreign assets*					*Engineering*			
		The Russian Federation												
		Electric Power Generation	*Thermal Power Generation*											
	The Russian Federation	*Inter RAO – Electricity Generation Group*	*TGC-11*	*Bashkir Generation*	*The Russian Federation and Europe*	*Armenia*	*Georgia*	*Moldavia*	*Kazakhstan*	*Turkey*	*The Russian Federation*	*Other*	*Unallocated and eliminations*	*Total*
Loans and borrowings, including:	**(2,038)**	**–**	**(5,238)**	**(173)**	**(856)**	**–**	**(1,005)**	**–**	**–**	**(6,701)**	**–**	**(1,075)**	**(689)**	**(17,775)**
Share in loans and borrowings of joint ventures	–	–	–	–	–	–	–	–	–	–	–	(151)	–	**(151)**

As at 31 December 2015 (restated)

	Supply	*Generation*			*Trading*	*Foreign assets*					*Engineering*			
		The Russian Federation												
		Electric Power Generation	*Thermal Power Generation*											
	The Russian Federation	*Inter RAO – Electricity Generation Group*	*TGC-11*	*Bashkir Generation*	*The Russian Federation and Europe*	*Armenia*	*Georgia*	*Moldavia*	*Kazakhstan*	*Turkey*	*The Russian Federation*	*Other*	*Unallocated and eliminations*	*Total*
Loans and borrowings, including:	**(3,345)**	**(42,673)**	**(11,344)**	**(1,271)**	**(1,762)**	**(5,500)**	**(1,401)**	**–**	**(10,180)**	**(11,542)**	**(334)**	**(1,615)**	**(1,119)**	**(92,086)**
Share in loans and borrowings of joint ventures	(90)	–	–	–	–	(5,500)	–	–	(10,180)	–	(333)	(197)	2,390	**(13,910)**

As at 1 January 2015 (restated)

	Supply	*Generation*			*Trading*	*Foreign assets*					*Engineering*			
		The Russian Federation												
		Electric Power Generation	*Thermal Power Generation*											
	The Russian Federation	*Inter RAO – Electricity Generation Group*	*TGC-11*	*Bashkir Generation*	*The Russian Federation and Europe*	*Armenia*	*Georgia*	*Moldavia*	*Kazakhstan*	*Turkey*	*The Russian Federation*	*Other*	*Unallocated and eliminations*	*Total*
Loans and borrowings, including:	**(3,787)**	**(58,699)**	**(8,182)**	**(437)**	**(1,671)**	**(7,416)**	**(1,659)**	**–**	**(9,119)**	**(10,100)**	**(740)**	**(1,834)**	**(16,399)**	**(120,043)**
Share in loans and borrowings of joint ventures	–	–	–	–	–	–	–	–	(9,119)	–	(736)	(386)	150	**(10,091)**

(in millions of RUR)

4. Segment information (continued)

The reconciliation between EBITDA of the reporting segments and net profit for the reporting period in the consolidated statement of comprehensive income is presented below:

	For the year ended	
	31 December 2016	***31 December 2015 (restated)***
EBITDA of the reportable segments	**96,259**	**72,394**
Depreciation and amortisation (Note 25)	(22,904)	(23,609)
Interest income (Note 26)	9,495	7,486
Interest expense (Note 26)	(7,229)	(10,660)
Foreign currency exchange (loss)/gain, net (Note 26)	(3,642)	2,061
Other finance (expenses)/ income (Note 26)	(12,814)	2,256
Provisions charge, including: (Note 25)	(18,996)	(23,470)
impairment of property, plant and equipment	*(4,082)*	*(14,766)*
impairment of available-for-sale financial assets	–	*(19)*
impairment of assets classified as held-for-sale	*(3,020)*	–
other provisions charge	*(3,398)*	*(2,185)*
impairment of account receivables	*(8,496)*	*(6,500)*
Loss from disposal of Group entities (Note 25)	(2,192)	(951)
Income from sale of available-for-sale and held-for-sale assets (Note 24)	31,870	1,365
Other item	(1,105)	(668)
Share of (loss)/profit of associates (Note 8)	(194)	557
Income tax expense (Note 27)	(7,236)	(2,939)
Profit for the reporting period in the consolidated statement of comprehensive income	**61,312**	**23,822**

The reconciliation between loans and borrowings of the reportable segments and loans and borrowings for the reporting period in the consolidated statement of financial position is presented below:

	As at 31 December 2016	***As at 31 December 2015 (restated)***	***As at 1 January 2015 (restated)***
Loans and borrowings of the reportable segments	**(17,775)**	**(92,086)**	**(120,043)**
Less:			
Share in loans and borrowings of joint ventures	151	13,910	10,091
Loans and borrowings in the consolidated statement of financial position	**(17,624)**	**(78,176)**	**(109,952)**

(in millions of RUR)

4. Segment information (continued)

Information about geographical areas

The Management Board also considers revenue of the Group entities generated in their countries of jurisdiction and abroad as well as non-current assets (property, plant and equipment, investment property, investments in associates and jointly controlled entities and intangible assets, including goodwill) based on location of assets.

	For the year ended 31 December 2016			*For the year ended 31 December 2015 (restated)*		
	Revenue in the Group entity's jurisdiction[1]	*Revenue in countries other than Group entity's jurisdiction*	*Total revenue based on location of customers*	*Revenue in the Group entity's jurisdiction*	*Revenue in countries other than Group entity's jurisdiction*	*Total revenue based on location of customers*
Russian Federation	782,923	–	**782,923**	728,400	192	**728,592**
Turkey	15,356	–	**15,356**	20,306	–	**20,306**
Georgia	11,879	1,224	**13,103**	9,543	1,997	**11,540**
Finland	12,243	331	**12,574**	7,073	306	**7,379**
China	–	10,170	**10,170**	–	10,409	**10,409**
Lithuania	9,571	–	**9,571**	10,064	–	**10,064**
Belarus	–	8,795	**8,795**	–	7,320	**7,320**
Moldavia (incl. Transdniestria Republic)	4,720	130	**4,850**	4,542	118	**4,660**
Kazakhstan	–	2,670	**2,670**	27	3,845	**3,872**
Estonia	926	1,003	**1,929**	435	582	**1,017**
Mongolia	–	1,401	**1,401**	–	1,094	**1,094**
Latvia	743	–	**743**	819	–	**819**
Ukraine	–	232	**232**	–	5,606	**5,606**
Armenia	–	–	**–**	18,031	–	**18,031**
Other	1,101	2,764	**3,865**	702	576	**1,278**
Total	**839,462**	**28,720**	**868,182**	**799,942**	**32,045**	**831,987**

	Total non-current assets based on location of assets[2]		
	As at 31 December 2016	*As at 31 December 2015 (restated)*	*As at 1 January 2015 (restated)*
Russian Federation	303,000	299,396	314,304
Georgia	7,286	9,710	9,188
Turkey	3,709	6,236	6,184
Moldavia (incl. Transdniestria Republic)	3,735	4,012	2,619
Lithuania	1,206	1,664	1,569
Armenia	–	–	13,093
Other	357	1,543	42
Total	**319,293**	**322,561**	**346,999**

[1] Revenues are attributable to countries on the basis of the customer's location.

[2] Total non-current assets based on location of assets excludes deferred tax assets, available-for-sale financial assets and other non-current assets.

(in millions of RUR)

5. Acquisitions and disposals

Acquisition of controlling interest in LLC ESC Bashkortostan

In December 2016 the Group acquired 100% of shares of LLC ESC Bashkortostan from entities under common control for the total consideration of RUR 4,100 million, including cash consideration paid of RUR 3,600 million and deferred consideration of RUR 500 million to be paid until 31 March 2017. This acquisition was accounted for using the pooling-of-interests method (Note 2f).

As at 31 December 2016 the Group has 100.00% of the shares of LLC ESC Bashkortostan.

Acquisition of non-controlling interest in PJSC Tomskenergosbyt

During the year ended 31 December 2015 the Group purchased additional 30.24% of the ordinary shares of the PJSC Tomskenergosbyt, for the cash consideration of RUR 544 million. The Group's share in PJSC Tomskenergosbyt increased from 59.18% to 89.42%. The effect of acquisition of non-controlling interest of RUR 239 million was recognized in the consolidated statement of changes in equity.

On 12 January 2016 the Group announced a mandatory offer to acquire 6.68% of ordinary and 36.44% of preference shares of PJSC Tomskenergosbyt held by non-controlling shareholders. The offer price was set at RUB 0.4157 per one ordinary and preference share. The offer term expired on 25 April 2016. As a result of mandatory offer the Group acquired 2.37% of ordinary and 16.06% of preference shares of PJSC Tomskenergosbyt for total cash consideration of RUR 76 million and increased Group's share to 93.58%. The effect of acquisition of non-controlling interest in the amount of RUR 33 million was recognised in the consolidated statement of changes in equity.

Disposal of controlling interest in Mtkvari Energy LLC

In June 2016 the Group has sold its 100% share in the subsidiary Mtkvari Energy LLC for the total cash consideration of USD 13.6 million (RUR 899 million).

Carrying value of the net assets of Mtkvari Energy LLC at the date of disposal amounted to RUR 1,242 million. The carrying values of disposed assets and liabilities were as follows:

	Carrying values
Property, plant and equipment	322
Intangible assets	2
Deferred tax assets	159
Accounts receivable	467
Inventory	176
Cash and cash equivalents	217
Accounts payable and accrued charges	(28)
Taxes payable	(73)
Carrying value of net assets disposed	**1,242**
Foreign currency translation reserve disposed	**459**
Gain from disposal of Group entity	116
Cash consideration received	899
Total cash and cash equivalents disposed	(217)
Total cash proceeds from disposal	**682**

The gain from the sale of RUR 116 million was recognised in the consolidated statement of comprehensive income within loss from disposal of Group entities, net (Note 25).

Disposal of controlling interest in CJSC Electricheskiye seti Armenii and JSC RazTES

In October 2015 and December 2015 the Group has sold the 50% share of its investments in the subsidiaries located in Republic of Armenia: CJSC Elektricheskiye seti Armenii and JSC RazTES for the cash consideration of USD 16.5 million (RUR 1,102 million) to Tashir Group, so the Group's share in these entities decreased from 100% to 50%.

(in millions of RUR)

5. Acquisitions and disposals (continued)

Disposal of controlling interest in CJSC Electricheskiye seti Armenii and JSC RazTES (continued)

Carrying value of the net assets of the Group's share in CJSC Elektricheskiye seti Armenii and JSC RazTES at the date of disposal of controlling interest amounted to RUR 3,951 million. The carrying values of disposed assets and liabilities were as follows:

	Carrying values
Property, plant and equipment	14,477
Intangible assets	110
Accounts receivable	5,054
Inventory	743
Cash and cash equivalents	1,094
Other current assets	187
Loans and borrowings	(9,846)
Deferred tax liabilities	(294)
Accounts payable and accrued charges	(7,481)
Taxes payable	(93)
Carrying value of net assets disposed	**3,951**
Foreign currency translation reserve disposed	**(851)**
Fair value of investment in joint-ventures (75%)	1,527
Disposal of 25% of investment in joint ventures	(663)
Loss from disposal of Group entities	(1,134)
Total consideration received	1,102
Total cash and cash equivalents disposed	(1,094)
Total cash proceeds from disposal	**8**

As a result of disposal from 30 October 2015 the Group has accounted these entities as the joint ventures in accordance with the shareholders agreement between the Group and "Tashir" Group (Note 8). Fair value of the 75% share in investment in joint-ventures at the date of disposal of controlling interest amounted to RUR 1,527 million and the carrying value of the additionally disposed 25% share in the investment in joint-ventures was RUR 663 million.

The total cash consideration received was RUR 1,102 million. The net cash proceeds from the disposal of RUR 8 million was recognised in the consolidated statement of cash flow as the cash flow from investing activities. The loss from disposal of RUR 1,134 million was recognised in the consolidated statement of comprehensive income for the year ended 31 December 2015 within Loss from disposal of Group entities, net (Note 25).

In December 2016 the Group has sold the remaining 50% share of its investments in CJSC Elektricheskiye seti Armenii and JSC RazTES (Note 8).

Acquisition of non-controlling interest in PJSC Mosenergosbyt

In April 2015, the Group increased its ownership in PJSC Mosenergosbyt by acquisition of 23.98% of ordinary shares from third parties for total cash consideration of RUR 2,710 million. As a result the Group increased its share from 50.92% to 74.90%. The effect from acquisition of non-controlling interest of RUR 1,939 million was recognised in the consolidated statement of changes in equity.

On 23 June 2015 the Group announced a public offer to acquire ordinary shares of PJSC Mosenergosbyt held by non-controlling shareholders. The offer price was set at RUB 0.4 per one ordinary share. As at 31 December 2015 the Group acquired 19.09% of ordinary shares for the total cash consideration of RUR 2,157 million, so the Group's share in PJSC Mosenergosbyt increased from 74.90% to 93.99%. The effect of acquisition of non-controlling interest of RUR 1,437 million was recognized in the consolidated statement of changes in equity.

Other acquisitions and disposals

At the end of September 2016 the Group has sold 100% shares in LLP INTER RAO Central Asia to the third parties for cash consideration of RUR 15 million, net of cash disposed of RUR 49 million. The loss of RUR 21 million was recognised in the consolidated statement of comprehensive income.

At the end of December 2016 the Group has sold 99.99% shares in LLL Agrokhozaystvo MIR a subsidiary of LLC Bashkir Generation Company to the third parties for cash consideration of RUR 1 million, net of cash disposed. The loss of RUR 13 million was recognised in the consolidated statement of comprehensive income.

During the year ended 31 December 2016 the Group liquidated a number of individually insignificant subsidiaries. The loss from the liquidation of RUR 1 million was recognised in the consolidated statement of comprehensive income within loss from disposal of Group entities, net (for the year ended 31 December 2015: gain RUR 24 million) (Note 24, 25).

(in millions of RUR)

5. Acquisitions and disposals (continued)

Other acquisitions and disposals (continued)

During the year ended 31 December 2015 the Group purchased additional 2% of the ordinary shares of the associate, JSC EIRTS LO, for the cash consideration of RUR 2 million. As a result the Group increased its share in the entity's share capital from 49% to 51% and obtained the control over the entity. The fair value of net assets acquired was RUR 102 million, including cash and cash equivalents of RUR 94 million. As a result of this acquisition the non-controlling interest in the amount of RUR 50 million was recognised in the consolidated statement of changes in equity.

In December 2015 the Group disposed the 82.84% of ordinary shares of JSC Stend. The Group contributed these shares in exchange for an equity interest in the associate LLC IC Gas-Turbine Technologies within the 3rd stage of investment agreement (Note 8). The loss on this transaction in amount of RUR 129 million was recognised in the consolidated statement of comprehensive income within loss from disposal of Group entities, net (Note 25).

6. Property, plant and equipment

	Land and buildings	*Infrastructure assets*	*Plant and equipment*	*Other*	*Construction in progress*	*Total*
Cost						
Balance at 1 January 2015 (restated)	**107,092**	**105,717**	**240,975**	**9,679**	**46,507**	**509,970**
Reclassification	204	(5,204)	5,019	10	(29)	**–**
Additions	5	523	62	7	26,510	**27,107**
Disposals	(297)	(304)	(2,125)	(120)	(585)	**(3,431)**
Transfers	1,154	5,062	15,715	615	(22,546)	**–**
Transfer (to)/from other balance accounts	(19)	(42)	(53)	(2)	51	**(65)**
Acquisition of controlling interest	–	–	3	–	–	**3**
Disposal of controlling interest	(4,042)	(26,940)	(22,950)	(1,946)	(1,042)	**(56,920)**
Translation difference	2,275	3,928	5,603	386	303	**12,495**
Balance at 31 December 2015 (restated)	**106,372**	**82,740**	**242,249**	**8,629**	**49,169**	**489,159**
Including finance leases	*546*	*227*	*1,189*	*1,705*	*–*	***3,667***
Balance at 1 January 2016 (restated)	**106,372**	**82,740**	**242,249**	**8,629**	**49,169**	**489,159**
Reclassification	15	222	(221)	(16)	–	**–**
Additions	7	688	12	13	31,128	**31,848**
Disposals	(187)	(218)	(2,075)	(213)	(468)	**(3,161)**
Transfers	881	2,843	10,889	747	(15,360)	**–**
Transfer (to)/from other balance accounts	(40)	1	(1)	20	(827)	**(847)**
Disposal of controlling interest	(1,901)	(10)	(1,189)	(92)	–	**(3,192)**
Translation difference	(1,868)	(3,174)	(3,381)	(358)	(267)	**(9,048)**
Balance at 31 December 2016	**103,279**	**83,092**	**246,283**	**8,730**	**63,375**	**504,759**
Including finance leases	*546*	*–*	*–*	*1,110*	*–*	***1,656***
Depreciation and impairment						
Balance at 1 January 2015 (restated)	**(35,241)**	**(48,363)**	**(119,906)**	**(4,791)**	**(2,867)**	**(211,168)**
Reclassification	(59)	836	(766)	(11)	–	**–**
Depreciation charge	(2,684)	(3,906)	(12,885)	(890)	–	**(20,365)**
Impairment loss charge	(138)	(674)	(716)	(5)	(13,247)	**(14,780)**
Impairment loss reversal	–	10	–	–	4	**14**
Disposals	85	274	1,577	103	288	**2,327**
Transfers	(1)	(280)	(1,549)	–	1,830	**–**
Disposal of controlling interest	2,731	21,498	16,693	1,386	2	**42,310**
Translation difference	(1,859)	(3,136)	(4,333)	(297)	(88)	**(9,713)**
Balance at 31 December 2015 (restated)	**(37,166)**	**(33,741)**	**(121,885)**	**(4,505)**	**(14,078)**	**(211,375)**
Including finance leases	*(17)*	*(226)*	*(1,189)*	*(477)*	*–*	***(1,909)***
Balance at 1 January 2016 (restated)	**(37,166)**	**(33,741)**	**(121,885)**	**(4,505)**	**(14,078)**	**(211,375)**
Reclassification	(11)	(73)	78	6	–	**–**
Depreciation charge	(2,682)	(3,565)	(12,580)	(798)	–	**(19,625)**
Impairment loss charge	(2,285)	(2,613)	(3,305)	(9)	(202)	**(8,414)**
Impairment loss reversal	–	–	–	–	4,332	**4,332**
Disposals	65	113	1,894	171	51	**2,294**
Transfers	(26)	18	(254)	–	262	**–**
Transfer (to)/from other balance accounts	38	–	–	–	–	**38**
Disposal of controlling interest	1,786	4	985	56	–	**2,831**
Translation difference	1,461	1,545	2,355	234	64	**5,659**
Balance at 31 December 2016	**(38,820)**	**(38,312)**	**(132,712)**	**(4,845)**	**(9,571)**	**(224,260)**
Including finance leases	*(35)*	*–*	*–*	*(433)*	*–*	***(468)***
Net book value						
Balance at 1 January 2015 (restated)	**71,851**	**57,354**	**121,069**	**4,888**	**43,640**	**298,802**
Balance at 31 December 2015 (restated)	**69,206**	**48,999**	**120,364**	**4,124**	**35,091**	**277,784**
Balance at 31 December 2016	**64,459**	**44,780**	**113,571**	**3,885**	**53,804**	**280,499**

(in millions of RUR)

6. Property, plant and equipment (continued)

The category land and buildings includes land in the amount of RUR 576 million (31 December 2015: RUR 660 million, 1 January 2015: 671 million).

Construction in progress is represented by property, plant and equipment that is not yet ready for operation and advances to suppliers of property, plant and equipment. Such advances amounted to RUR 3,084 million as at 31 December 2016 (31 December 2015: RUR 3,334 million, 1 January 2015: 5,680 million).

Interest capitalised (capitalisation rate is 22.64% during the year ended 31 December 2016) amounted to RUR 849 million (the year ended 31 December 2015: RUR 1,166 million).

(a) Impairment

The Group performed the impairment tests of property, plant and equipment by the cash generating units and the material impairment charges and reversals included in the Consolidated statement of comprehensive income in the line “Operating expenses” are discussed below:

Kostromskaya and Iriklinskaya (separate power plants included into the operating segment – “Generation in the Russian Federation”)

During the year ended 31 December 2016 due to unfavourable change in estimates of marginal profit of electricity sales for the medium term capacity compared to previous estimates the impairment loss was recognized in respect of Kostromskaya GRES – RUR 2,956 million and in respect of Iriklinskaya GRES – RUR 4,253 million. The recoverable amount was measured as value in use using the discount rate of 12.6% as at 31 December 2016.

SC “TomskRTS” (separate power plant included into the operating segment – “Generation in the Russian Federation”)

During the year ended 31 December 2016 due to low level of operational profitability because of limits on final tariff growth and high level of capital expenditures for maintaining of the heating systems reliability the impairment loss was recognized in the amount of RUR 1,289 million. The recoverable amount was measured as value in use using the discount rate of 16.8% as at 31 December 2016.

Verkhnetagilskaya GRES (separate power plant included into the operating segment – “Generation in the Russian Federation”)

The impairment for the year ended 31 December 2015 in the amount of RUR 14,776 million was recognised after the impairment test as at 31 December 2015 due to unfavourable change in estimates of capacity tariffs and rise in the cost of construction of new capacity. The recoverable amount was measured as value in use using the discount rate of 14.1% as at 31 December 2015.

The impairment in the amount of RUR 4,417 million was recovered in 2nd quarter of 2016 due to change in estimates of capacity tariffs on the basis of the contract for capacity supply (CCS) for Block № 12 (Note 25).

Various other minor charges and reversals in the net amount of RUR 1 million loss were recognized during the year ended 31 December 2016 (during the year ended 31 December 2015 gain were recognized: RUR 10 million).

(in millions of RUR)

7. Intangible assets

	Goodwill	*Software*	*Other*	*Total*
Cost				
Balance at 1 January 2015 (restated)	**3,983**	**4,178**	**16,575**	**24,736**
Additions	–	1,192	266	**1,458**
Disposals	–	(264)	(12)	**(276)**
Transfer to other balance accounts	–	(249)	(11)	**(260)**
Disposal of controlling interest	–	(321)	–	**(321)**
Translation difference	387	63	2,762	**3,212**
Balance at 31 December 2015 (restated)	**4,370**	**4,599**	**19,580**	**28,549**
Balance at 1 January 2016 (restated)	**4,370**	**4,599**	**19,580**	**28,549**
Reclassification	–	(10)	10	**–**
Additions	–	738	338	**1,076**
Disposals	–	(230)	(15)	**(245)**
Transfer (to)/from other balance accounts	–	(404)	55	**(349)**
Translation difference	(540)	(77)	(2,122)	**(2,739)**
Balance at 31 December 2016	**3,830**	**4,616**	**17,846**	**26,292**
Amortisation and impairment				
Balance at 1 January 2015 (restated)	**(1,688)**	**(2,125)**	**(7,133)**	**(10,946)**
Amortisation charge	–	(785)	(2,459)	**(3,244)**
Disposals	–	258	10	**268**
Transfer to other balance accounts	–	102	5	**107**
Disposal of controlling interest	–	211	–	**211**
Translation difference	(74)	(40)	(1,179)	**(1,293)**
Balance at 31 December 2015 (restated)	**(1,762)**	**(2,379)**	**(10,756)**	**(14,897)**
Balance at 1 January 2016 (restated)	**(1,762)**	**(2,379)**	**(10,756)**	**(14,897)**
Amortisation charge	–	(676)	(2,603)	**(3,279)**
Disposals	–	223	6	**229**
Transfer to/(from) other balance accounts	–	236	(4)	**232**
Translation difference	102	56	1,173	**1,331**
Balance at 31 December 2016	**(1,660)**	**(2,540)**	**(12,184)**	**(16,384)**
Net book value				
At 1 January 2015 (restated)	**2,295**	**2,053**	**9,442**	**13,790**
At 31 December 2015 (restated)	**2,608**	**2,220**	**8,824**	**13,652**
At 31 December 2016	**2,170**	**2,076**	**5,662**	**9,908**

Amortisation charge is included in operating expenses in the consolidated statement of comprehensive income.

31 December 2016

AB INTER RAO Lietuva

As at 31 December 2016 the Group carried out an impairment test for goodwill related to acquisition of AB INTER RAO Lietuva. For the purpose of impairment testing goodwill is allocated to AB INTER RAO Lietuva as an individual cash-generating unit in the amount of RUR 1,758 million. The recoverable amount was measured as value in use. The impairment test was based on the following key assumptions:

- According to electricity demand long-term projections till year 2036 expected conservative supply from AB INTER RAO Lietuva not less than 2017 year level of 3.2 GWth, after that the terminal value of cash flow estimated by Gordons approximation.
- Volume of deliveries is assumed to provide average gross margin of 5.8%, as the above mentioned volume allows AB INTER RAO Lietuva to carry out electricity sales in peak periods, when higher profitability is achieved.
- The discount factor used for the impairment test performed by management was 6.2% for cash-flows estimations in presentation currency as at 31 December 2016.

Based on the discounted cash flow model, management concluded that goodwill for AB INTER RAO Lietuva is not impaired as of 31 December 2016.

(in millions of RUR)

7. Intangible assets (continued)

31 December 2016 (continued)

Other

Included in other intangible assets RUR 3,704 million (USD 61 million) represents carrying value of identifiable intangible assets of Trakya Elektrik Uretim ve Ticaret A.S acquired in a business combination in December 2012 (31 December 2015: RUR 6,227 million or USD 85 million; 1 January 2015: RUR 6,178 million or USD 110 million). This intangible asset represents the Group's right to operate the electricity power plant facilities in accordance with the Buy-Operate-Transfer ("BOT") agreement. As at 31 December 2016 the remaining intangible assets' useful life was 3 years.

Included in other intangible assets RUR 498 million represents capitalised cost to obtain status of "guarantee supplier" acquired in December 2013 (31 December 2015: RUR 623 million; 1 January 2015: RUR 748 million). This intangible assets represent the right of LLC INTER RAO Orlovskii energosbit and JSC Saint Petersburg Power Supply Company to perform functions of guaranteed supplier on the territory of Orel and Omsk regions of the Russian Federation. As at 31 December 2016 the remaining intangible assets' useful life was 4 years.

Included in other intangible assets RUR 216 million (31 December 2015: RUR 286 million; 1 January 2015: RUR 359 million) represents capitalised cost to obtain status of "guarantee supplier" recognised on the acquisition of a subsidiary by one of the Group's entity. As at 31 December 2016 other intangible assets' remaining useful life was 3 years.

Included in other intangible assets RUR nil (with cost RUR 4,074 million accumulated amortisation and impairment loss in the amount of RUR (4,074) million) represents capitalised cost to obtain status of "guarantee supplier" recognised on the acquisition of a LLC ESC Bashkortostan by one of the Group's entity, acquired under common control (31 December 2015: cost RUR 4,074 million, accumulated amortisation and impairment loss RUR (3,522) million; 1 January 2015: cost RUR 4,074 million, accumulated amortisation and impairment loss RUR (2,968) million) (Note 2f). As at 31 December 2016 other intangible assets were fully amortised.

8. Investments in associates and joint ventures

Details of the associates and joint ventures, together with movements in the carrying values of these investments, are set at below:

			Voting share		
	Status	***Country***	***31 December 2016***	***31 December 2015***	***31 December 2014***
NVGRES Holding Limited	Joint venture	The Russian Federation	75.00%	75.00%	75.00%
CJSC Nizhnevartovskaya GRES	Joint venture	The Russian Federation	75.00%	75.00%	75.00%
JSC Stantsiya Ekibastuzskaya GRES-2	Joint venture	The Republic of Kazakhstan	–	50.00%	50.00%
LLC Kvarz Noviye Technologii	Joint venture	The Russian Federation	–	50.10%	50.10%
JSC Kambarata HPP-1	Joint venture	The Kyrgyz Republic	50.00%	50.00%	50.00%
LLC Power Efficiency Centre INTER RAO UES	Joint venture	The Russian Federation	50.00%	50.00%	50.00%
SOOO ENERGOCONNECT	Joint venture	Belorussia	–	50.00%	50.00%
JSC INTER RAO LED-Systems	Joint venture	The Russian Federation	–	–	35.17%
LLC RT – Energy Trading	Joint venture	The Russian Federation	50.00%	50.00%	50.00%
Inter RAO GenCo B.V.	Joint venture	The Netherlands	–	–	50.00%
LLC Cosy house	Joint venture	The Russian Federation	50.00%	50.00%	50.00%
LLC National Data Centers	Joint venture	The Russian Federation	50.00%	50.00%	–
CJSC Elektricheskiye seti Armenii	Joint venture	Armenia	–	50.00%	–
JSC RazTES	Joint venture	Armenia	–	50.00%	–
UAB Alproka	Associate	Lithuania	49.99%	49.99%	49.99%
RUS Gas Turbines Holding B.V.	Associate	The Netherlands	25.00%	25.00%	25.00%
JSC Kaskad	Associate	The Russian Federation	25.00%	25.00%	25.00%
LLC IC Gas-Turbine Technologies	Associate	The Russian Federation	52.95%	52.95%	53.94%
LLC RCASM	Associate	The Russian Federation	–	–	30.00%
JSC EIRTS LO	Associate	The Russian Federation	–	–	49.00%
LLC INVENT (Group of companies)	Associate	The Russian Federation	33.00%	–	–

(in millions of RUR)

8. Investments in associates and joint ventures (continued)

	Joint ventures (note 8 (a))					*Associates (note 8 (b))*			
	NVGRES Holding Limited	***JSC Stantsiya Ekibastuzskaya GRES-2***	***CJSC Elektricheskiye seti Armenii and JSC RazTES***	***JSC INTER RAO LED-Systems***	***Other joint ventures***	***RUS Gas Turbines Holding B.V.***	***LLC INVENT***	***Other associates***	***Total***
Carrying value at 31 December 2014	**17,630**	**13,026**	**–**	**481**	**1,181**	**1,540**	–	**549**	**34,407**
Additions	–	–	1,527	–	–	–	–	–	**1,527**
Disposals	–	–	(663)	(229)	–	–	–	(50)	**(942)**
Unrealised gain/(loss)	–	–	–	7	(17)	–	–	–	**(10)**
Share of profit/(loss) after tax	2,339	(3,617)	459	(53)	167	338	–	236	**(131)**
Change in ownership structure	–	–	–	23	–	–	–	(17)	**6**
Recognised actuarial gain and past service cost	1	1	–	–	–	–	–	–	**2**
Dividends received	(319)	–	–	–	(176)	–	–	(5)	**(500)**
Reclassification	–	–	–	(229)	–	–	–	–	**(229)**
Translation difference	–	(3,062)	57	–	–	–	–	–	**(3,005)**
Carrying value at 31 December 2015	**19,651**	**6,348**	**1,380**	**–**	**1,155**	**1,878**	**–**	**713**	**31,125**
Carrying value at 31 December 2015	**19,651**	**6,348**	**1,380**	**–**	**1,155**	**1,878**		**713**	**31,125**
Additions	–	–	–	–		–	3,000	–	**3,000**
Disposals	–	–	(2,601)	–	(237)	–	–	–	**(2,838)**
Unrealised gain	–	–	–	–	1	–	–	–	**1**
Share of profit/(loss) after tax	3,075	458	1,838	–	(15)	(356)	194	(32)	**5,162**
Recognised actuarial loss and past service cost	(12)	–	–	–	–	–	–	–	**(12)**
Dividends received	(71)	–	–	–	(57)	–	–	–	**(128)**
Dividends cancelled through profit and loss	–	316	–	–	–	–	–	–	**316**
Reclassification	–	(6,020)	–	–	–	–	–	–	**(6,020)**
Translation difference	–	(1,102)	(617)	–	(1)	–	–	–	**(1,720)**
Carrying value at 31 December 2016	**22,643**	**–**	**–**	**–**	**846**	**1,522**	**3,194**	**681**	**28,886**

(in millions of RUR)

8. Investments in associates and joint ventures (continued)

Joint ventures

NVGRES Holding Limited and CJSC Nizhnevartovskaya GRES

The Group holds a 75% interest in NVGRES Holding Limited, including its subsidiary CJSC Nizhnevartovskaya GRES accounted for using the equity method. In accordance with the terms of the Shareholders Agreement between the Group and PJSC Rosneft, control over NVGRES Holding Limited is jointly exercised. The following is the summarised financial information in respect of NVGRES Holding Limited and its subsidiary CJSC Nizhnevartovskaya GRES:

	31 December 2016	*31 December 2015*
Non-current assets	19,844	20,566
Current assets (including cash and cash equivalents – 31 December 2016: RUR 10,465 million, 31 December 2015: RUR 6,568 million)	14,424	8,462
Non-current liabilities, including:	(1,850)	(1,743)
Non-current financial liabilities (excluding trade and other payables and provisions)	–	–
Current liabilities, including:	(2,227)	(1,084)
Current financial liabilities (excluding trade and other payables and provisions)	–	–
Equity	**30,191**	**26,201**
Proportion of the Group's ownership	75.00%	75.00%
Carrying value of the investment	**22,643**	**19,651**

	Year ended 31 December 2016	*Year ended 31 December 2015*
Revenue	18,476	18,671
Depreciation and amortisation	(1,149)	(1,163)
Interest income	859	561
Interest expense	(9)	(10)
Income tax expense	(842)	(667)
Profit from continuing operations	4,100	3,119
Other comprehensive (loss)/income	(16)	1
Total comprehensive income for the period	**4,084**	**3,120**
Proportion of the Group's ownership	75.00%	75.00%
Group's share of total comprehensive income	**3,063**	**2,340**

JSC Stantsiya Ekibastuzskaya GRES-2

As at 31 December 2015 the Group hold a 50% interest in a joint venture – JSC Stantsiya Ekibastuzskaya GRES-2 accounted for using the equity method. The Group exercises joint control over JSC Stantsiya Ekibastuzskaya GRES-2 with JSC "Samruk-Energo", which is ultimately controlled by the Government of the Republic of Kazakhstan.

As at 1 December 2016 50% interest in a joint venture – JSC Stantsiya Ekibastuzskaya GRES was reclassified to held-for-sale assets due to management intention to sell the investment (Note 15).

The following is the summarised financial information in respect of JSC Stantsiya Ekibastuzskaya GRES-2:

	31 December 2016	*31 December 2015*
Non-current assets	–	32,365
Current assets (including cash and cash equivalents – 31 December 2015: RUR 330 million)	–	2,191
Non-current liabilities, including:	–	(19,470)
Non-current financial liabilities (excluding trade and other payables and provisions)	–	*(19,364)*
Current liabilities, including:	–	(2,391)
Current financial liabilities (excluding trade and other payables and provisions)	–	*(1,643)*
Equity	–	**12,695**
Proportion of the Group's ownership	–	50.00%
Carrying value of the investment	–	**6,348**

(in millions of RUR)

8. Investments in associates and joint ventures (continued)

Joint ventures (continued)

	January-November 2016	*Year ended 31 December 2015*
Revenue	5,470	7,327
Depreciation and amortisation	(645)	(1,039)
Interest income	6	2
Interest expense	(91)	(163)
Income tax (expense)/benefit	(107)	1,746
Profit/(loss) from continuing operations	916	(7,233)
Other comprehensive income	–	1
Total comprehensive income/(loss) for the period	**916**	**(7,232)**
Proportion of the Group's ownership	50.00%	50.00%
Group's share of total comprehensive income/(loss)	**458**	**(3,616)**

CJSC Electricheskiye seti Armenii and JSC RazTES

As a result of disposal in October 2015 of 25% of shares and in December 2015 of 25% of shares in the subsidiaries located in Republic of Armenia: CJSC Elektricheskiye seti Armenii and JSC RazTES the Group's share in these entities decreased from 100% to 50%. As a result of disposal from 30 October 2015 the Group has accounted these entities as the joint ventures in accordance with the shareholders agreement between Group and "Tashir" Group (Note 5).

In December 2016 the Group has sold the remaining 50% share of its investments in CJSC Elektricheskiye seti Armenii and JSC RazTES for the cash consideration of USD 16.5 million (RUR 1,002 million) to "Tashir" Group, so as at 31 December 2016 the Group has no shares in these entities. Loss from sale of shares in the amount of RUR 2,136 million was recognised in the consolidated statement of comprehensive income within Loss from disposal of Group entities, net (Note 25).

The following is the summarised financial information in respect of CJSC Electricheskiye seti Armenii and JSC RazTES:

	31 December 2016	*31 December 2015*
Non-current assets	–	15,067
Current assets (including cash and cash equivalents – RUR – million, 31 December 2015: RUR 299 million)	–	6,868
Non-current liabilities, including:	–	(8,885)
Non-current financial liabilities (excluding trade and other payables and provisions)	–	*(7,797)*
Current liabilities, including:	–	(10,290)
Current financial liabilities (excluding trade and other payables and provisions)	–	*(3,203)*
Equity	–	**2,760**
Group's share	–	50.00%
Carrying value of the investment	–	**1,380**

	Year ended 31 December 2016	*November-December 2015*
Revenue	29,613	5,465
Depreciation and amortisation	(981)	(143)
Interest income	18	7
Interest expense	(563)	(115)
Income tax expense	(672)	(337)
Profit from continuing operations	3,676	612
Total comprehensive income for the period	**3,676**	**612**
Proportion of the Group's ownership	50.00%	75.00%
Group's share of total comprehensive income	**1,838**	**459**

(in millions of RUR)

8. Investments in associates and joint ventures (continued)

Joint ventures (continued)

JSC INTER RAO LED-Systems

On 10 December 2015 the Group sold 17.59% of ordinary shares of JSC INTER RAO LED-Systems to third parties for the total consideration of RUR 526 million, out of which RUR 70 million was paid by cash and RUR 456 million was included in other account receivable. Income from sale of shares in the amount of RUR 288 million was recognised in the consolidated statement of comprehensive income within Loss from disposal of Group entities, net (Note 25).

As a result of the disposal of shares the Group's effective share in this entity decreased to 17.59%. As at 31 December 2015 and as at 31 December 2016 the Group has accounted this entity as available-for-sale financial asset (Note 10).

LLC Kvarz Noviye Technologii

On 7 October 2016 the Group sold 50.10% of shares of LLC Kvarz Noviye Technologii to third parties for the cash consideration of RUR 100 million. Loss from sale of shares in the amount of RUR 137 million was recognised in the consolidated statement of comprehensive income within Loss from disposal of Group entities, net (Note 25).

Associates

RUS Gas Turbines Holding B.V.

The Group's share in the entity is 25%. The ownership in the entity's equity allows the Group to participate in construction of production facilities, production and sales of high-performance industrial gas turbines in the Russian Federation.

The following is the summarised financial information in respect of RUS Gas Turbines Holding B.V.

	31 December 2016	***31 December 2015***
Non-current assets	3,687	4,999
Current assets	7,768	4,518
Current liabilities	(5,366)	(2,007)
Equity	**6,089**	**7,510**
Proportion of the Group's ownership	25.00%	25.00%
Carrying value of the investment	**1,522**	**1,878**

	Year ended 31 December 2016	***Year ended 31 December 2015***
Revenue	7,201	3,550
(Loss)/profit from continuing operations	(1,423)	1,353
Total comprehensive (loss)/income for the period	**(1,423)**	**1,353**
Proportion of the Group's ownership	25.00%	25.00%
Group's share of total comprehensive (loss)/income	**(356)**	**338**

(in millions of RUR)

8. Investments in associates and joint ventures (continued)

Associates (continued)

LLC INVENT (Group of companies)

In November 2016 the Group has entered into the share capital of the Russian industrial holding company LLC INVENT (Group of companies) by investing in it RUR 3,000 million. As a result the Group's share in the Group's share capital amounts to 33.00%. LLC INVENT it is one of the major manufacturers in the Russian market of power cable and transformer substations, as well as pre-insulated pipes and fittings for heat generation and heat supply organizations. The company runs the only plant in Russia, located in Kazan, which produces cables for extra-high voltage of 330 kV and cables with large cross-sections. The excess of the cost of the investment over the fair value of assets and liabilities was recognised as goodwill within the investment in associates and joint ventures in the consolidated statement of financial position – in amount of RUR 2,214 million.

The following is the summarised financial information in respect of LLC INVENT:

	31 December 2016
Non-current assets	2,642
Current assets	6,940
Non-current liabilities	(766)
Current liabilities	(5,846)
Equity	**2,970**
Proportion of the Group's ownership	33.00%
Goodwill	**2,214**
Carrying value of the investment	**3,194**
	December 2016
Revenue	2,608
Profit from continuing operations	587
Total comprehensive income for the period	**587**
Proportion of the Group's ownership	33.00%
Group's share of total comprehensive income	**194**

Other associates

LLC IC Gas-Turbine Technologies

On 26 December 2013, the Group acquired 45.27% of the shares of LLC IC Gas-Turbine Technologies, an entity based in the Russian Federation, specializing in the development and production of high-performance industrial gas turbines. In December 2014 the Group additionally acquired 8.67% of the shares of LLC IC Gas-Turbine Technologies.

In December 2015 within the 3rd stage of the investment agreement the Group contributed its 82.84% share in JSC Stend (Note 5). The excess of the cost of the investment over the carrying value of shares contributed by the Group in exchange for an equity interest in the LLC IC Gas-Turbine Technologies was recognised as income within share of profit/(loss) of associates and joint ventures in amount of RUR 219 million.

Although the Group's share in equity of LLC IC Gas-Turbine Technologies as at 31 December 2016 exceeded 50% the agreement with other shareholders does not provide for the ability to control the entity.

(in millions of RUR)

9. Deferred tax assets and liabilities

(a) Recognised deferred tax assets and liabilities

Differences between IFRS base and relevant tax bases give rise to temporary differences between carrying value of certain assets and liabilities for financial reporting purposes and for income tax purposes. Deferred tax assets and liabilities are measured at the rate expected to be applicable when the temporary differences will reverse, based on rates and legislation enacted or substantively enacted by end of the reporting period.

Deferred tax assets and liabilities are attributable to the following:

	Deferred tax assets			***Deferred tax liabilities***		
	31 December 2016	***31 December 2015 (restated)***	***1 January 2015 (restated)***	***31 December 2016***	***31 December 2015 (restated)***	***1 January 2015 (restated)***
Property, plant and equipment	822	1,099	1,402	(11,958)	(12,822)	(13,888)
Investments in associates and joint ventures	–	–	18	(203)	(2,290)	(3,376)
Trade and other receivables	2,101	2,358	1,979	–	–	–
Tax loss carry-forwards	1,775	3,612	1,101	–	–	–
Investments in available-for-sale financial assets and assets classified as held-for-sale	–	–	–	(1,303)	(409)	(368)
Accounts payable and long-term loans and borrowings	3,135	2,129	1,726	(81)	(359)	(343)
Other items	2,944	632	665	(1,383)	(2,493)	(1,859)
Tax assets/(liabilities)	**10,777**	**9,830**	**6,891**	**(14,928)**	**(18,373)**	**(19,834)**
Set off of tax	(4,250)	(5,418)	(4,655)	4,250	5,418	4,655
	6,527	**4,412**	**2,236**	**(10,678)**	**(12,955)**	**(15,179)**

(b) Unrecognised deferred tax assets

Deferred tax assets have not been recognised in respect of some of the Group entities located in the Russian Federation and abroad and relate to the following deductible temporary differences:

	31 December 2016	***31 December 2015***	***1 January 2015***
Available-for-sale financial assets	2,426	2,639	3,841
Assets classified as held-for-sale	–	10,413	10,413
Option plan and other	9,398	690	2,726
	11,824	**13,742**	**16,980**

Deductible temporary differences as at 31 December 2016 mainly relate to option plan and available-for-sale financial assets. Deferred tax assets have not been recognised in respect of these items because in management's opinion it is not probable that future taxable profit will be available in the respective Group's entities against which the Group can utilise respective tax loss.

(c) Movement in tax effects of temporary differences, after offsetting, during the period

Deferred tax assets

	1 January 2015 (restated)	***Disposal of controlling interest***	***Recognised in profit and loss***	***Recognised in OCI (FCTR)***	***Recognised in OCI (reserves)***	***31 December 2015 (restated)***
Property, plant and equipment	(561)	(4)	(23)	(75)	–	(663)
Trade and other receivables	1,349	–	257	57	–	1,663
Accounts payable and long-term loans and borrowings	1,197	–	138	62	(2)	1,395
Other items	91	(12)	79	(40)	(6)	112
Tax loss carry-forwards	160	–	1,739	6	–	1,905
	2,236	**(16)**	**2,190**	**10**	**(8)**	**4,412**

(in millions of RUR)

9. Deferred tax assets and liabilities (continued)

(c) Movement in tax effects of temporary differences, after offsetting, during the period (continued)

	1 January 2016 (restated)	*Disposal of controlling interest*	*Recognised in profit and loss*	*Recognised in OCI (FCTR)*	*Recognised in OCI (reserves)*	*31 December 2016*
Property, plant and equipment	(663)	5	314	20	–	(324)
Trade and other receivables	1,663	(85)	(235)	(7)	–	1,336
Accounts payable and long-term loans and borrowings	1,395	–	685	(13)	5	2,072
Other items	112	–	1,600	196	–	1,908
Tax loss carry-forwards	1,905	(79)	(297)	6	–	1,535
	4,412	**(159)**	**2,067**	**202**	**5**	**6,527**

Deferred tax liabilities

	1 January 2015 (restated)	*Disposal of controlling interest*	*Recognised in profit and loss*	*Recognised in OCI (FCTR)*	*Recognised in OCI (reserves)*	*31 December 2015 (restated)*
Property, plant and equipment	(11,870)	739	(87)	158	–	(11,060)
Investments in associates and joint ventures	(3,377)	–	479	607	–	(2,291)
Investments in available-for-sale financial assets and assets classified as held-for-sale	(366)	105	3	–	(149)	(407)
Accounts payable and long-term loans and borrowings	185	(104)	278	34	(15)	378
Other items	249	(308)	823	(323)	(16)	425
	(15,179)	**432**	**1,496**	**476**	**(180)**	**(12,955)**

	1 January 2016 (restated)	*Disposal of controlling interest*	*Recognised in profit and loss*	*Recognised in OCI (FCTR)*	*Recognised in OCI (reserves)*	*31 December 2016*
Property, plant and equipment	(11,060)	4	317	(73)	–	(10,812)
Investments in associates and joint ventures	(2,291)	(87)	2,076	99	–	(203)
Investments in available-for-sale financial assets and assets classified as held-for-sale	(407)	24	(486)	(4)	(430)	(1,303)
Accounts payable and long-term loans and borrowings	378	–	486	125	(6)	983
Other items	425	–	223	9	–	657
	(12,955)	**(59)**	**2,616**	**156**	**(436)**	**(10,678)**

Temporary differences on property, plant and equipment relate to differences between the accounting and tax depreciation rates and carrying values and tax base of property, plant and equipment.

Deferred tax liability in the amount of RUR 430 million was recognised through other comprehensive income in relation to revaluation of available-for-sale financial assets for the year ended 31 December 2016 (for the year ended 31 December 2015: RUR 149 million).

The Group has not recognised deferred tax liabilities in respect of temporary differences associated with investments in subsidiaries, associates and joint ventures in the amount of RUR 255,343 million (31 December 2015: RUR 196,366 million) because the Group is able to control timing of the reversal of temporary differences and does not intend to realise them in the foreseeable future.

(in millions of RUR)

10. Available-for-sale financial assets

As at 31 December 2016 available-for-sale financial assets in the total amount of RUR 7,810 million (31 December 2015: RUR 5,865 million) included investments in quoted shares in the total amount of RUR 6,104 million (31 December 2015: RUR 4,159 million) and investment in unquoted shares in the total amount of RUR 1,706 million (31 December 2015: RUR 1,706 million).

Investments in quoted shares

For the year ended 31 December 2016 there was no impairment loss on available-for-sale financial assets recognised through profit and loss in the consolidated statement of comprehensive income (for the year ended 31 December 2015: RUR 19 million) (Note 25).

For the year ended 31 December 2016 the amount of RUR 1,719 million, net of tax RUR 430 million was recognised as a gain from revaluation of available-for-sale financial assets through other comprehensive income in the consolidated statement of comprehensive income (for the year ended 31 December 2015: RUR 928 million, net of tax RUR 149 million).

	31 December 2016		*31 December 2015*	
	% share capital	***Carrying value***	***% share capital***	***Carrying value***
PJSC RusHydro	1.85%	4,968	1.85%	3,644
PJSC FGC UES	0.37%	938	0.37%	273
PJSC Quadra	2.25%	183	2.25%	114
PJSC Irkutskenergo	–	–	0.29%	113
Other	–	15	–	15
Total		**6,104**		**4,159**

As at 31 March 2016 the Group reclassified 0.29% of shares of PJSC Irkutskenergo with carrying value of RUR 204 million to assets classified as held-for-sale due to the commitment of management to sell this investment (Note 15).

During the year ended 31 December 2015 the Group has sold the shares: 2.34% in Plug Power Inc., 1.97% in PJSC TGK-1, 1.38% in PJSC TGK-2, 0.60% in PJSC TGK-14, 4.17% in PJSC OGK-2, 4.97% in PJSC Mosenergo, 0.07% in PJSC IDGC of Centre and 0.003% in PJSC IDGC of Volga. The fair value of the available-for-sale financial assets sold was RUR 2,705 million, the cash consideration received was RUR 2,730 million. As a result of the available-for-sale financial assets disposal the corresponding fair value reserve was derecognised in the consolidated statement of changes in equity in the amount of RUR 689 million, net of tax RUR 105 million and the income from sale of available-for-sale financial assets in the amount of RUR 819 million was recognised in the consolidated statement of comprehensive income.

Investments in unquoted shares

	31 December 2016		*31 December 2015*	
	% share capital	***Carrying value***	***% share capital***	***Carrying value***
JSC Akkuyu NPP	0.82%	848	0.82%	848
JSC BESC	1.46%	404	1.46%	404
JSC INTER RAO LED-Systems (Note 8)	17.59%	229	17.59%	229
JSC Sangtudinskaya GES-1	14.87%	161	14.87%	161
Other		64		64
Total		**1,706**		**1,706**

The carrying value of investments in unquoted shares as at 31 December 2016 and 31 December 2015 reflected impairment of investment in JSC Sangtudinskaya GES-1 in the amount of RUR 530 million.

The Group did not identify any further impairment in respect of available-for-sale investments in unquoted shares for the year ended 31 December 2016.

(in millions of RUR)

11. Other non-current assets

		31 December 2016	31 December 2015 (restated)	1 January 2015 (restated)
Financial non-current assets		***11,223***	***7,669***	***8,285***
Non-current trade receivables		1,925	2,049	2,025
	Less impairment provision	*(309)*	*(495)*	*(482)*
Non-current trade receivables – net		**1,616**	**1,554**	**1,543**
Other non-current receivables		7,545	2,009	5,345
	Less impairment provision	*(951)*	*(129)*	*(114)*
Other non-current receivables – net		**6,594**	**1,880**	**5,231**
Non-current loans issued (including outstanding interest)		3,269	4,792	150
	Less impairment provision	*(256)*	*(638)*	–
Non-current loans issued (including outstanding interest) – net		**3,013**	**4,154**	**150**
Long-term derivative financial instruments – assets		–	1	1,292
Long-term bank deposits		–	80	69
		3,013	**4,235**	**1,511**
Non-financial non-current assets		***4,207***	***1,083***	***1,850***
Non-current advances to suppliers and prepayments		60	83	1,007
	Less impairment provision	*(19)*	*(7)*	*(7)*
Non-current advances to suppliers and prepayments – net		**41**	**76**	**1,000**
VAT recoverable		4	123	105
Other		4,162	884	745
		15,430	**8,752**	**10,135**

As at 31 December 2016 other non-current receivables included accounts receivable from LLC Telmamskaya HEP in the amount of RUR 5,408 million, net of discount effect recognised within the line “Provision for impairment of accounts receivable, net” of RUR 842 million under the terms of sale-purchase agreement of PJSC Irkutskenergo shares (Note 15).

Included in Other non-current receivables RUR 777 million represents a financial asset recognised by the Group in relation to the concession arrangement by one of the Group’s subsidiary, Trakya Elektrik Uretim ve Ticaret A.S. (“Operator”), Republic of Turkey (31 December 2015: RUR 1,423 million, 1 January 2015: 1,865 million). In accordance with the arrangement, the Operator constructs, commissions and operates a natural gas-fired combined cycle power station on a BOT basis under the terms of Implementation Contract between the Operator and the Ministry of Energy and Natural Resources of the Republic of Turkey (“MENR”). The concession arrangement period includes initial period of up to 2019 with an option of the MENR to extend the operating period up to 2046. At the end of the concession arrangement period, the power plant shall be transferred to an enterprise nominated by MENR. Certain state owned domiciled entities in Turkey are currently obliged to purchase on a “take-or-pay” basis minimum quantities of electricity made available by Trakya Elektrik Uretim ve Ticaret A.S. for initial period. The electricity selling price is calculated as the sum of fixed capacity price, variable capacity price and also depends on natural gas price.

As at 31 December 2016 long-term derivative financial instruments included fair value of electricity derivatives in the amount of RUR nil (31 December 2015: RUR 1 million, 1 January 2015: RUR 1,292 million) at RAO Nordic Oy and AB INTER RAO Lietuva which were held for the purposes of hedging future sales (Note 16, 20, 21).

As at 31 December 2016 Other included cash and deposits placed at Peresvet Bank in the amount of RUR 3,260 million, net of discount effect recognised within Other finance expenses of RUR 12,643 million (Note 14, 16, 26).

(in millions of RUR)

11. Other non-current assets (continued)

As at 31 December 2015 Non-current loans issued (including interest) included RUR 4,791 million of loan and impairment provision in the amount RUR 638 million on that loan given to CJSC Elektricheskie seti Armenii, a company which was reclassified from subsidiary to joint venture (Note 5, 8).

As at 1 January 2015 non-current advances to suppliers and prepayments included the advance to JSC Enex in the amount of RUR 948 for construction of Termogas Machala gas-fired power plant in Ecuador.

Movements in the provision for impairment of other non-current assets are as follows:

	Non-current trade receivables	*Non-current advances to suppliers and prepayments*	*Other non-current receivables*	*Non-current loans issued (including interest)*	*Total provision*
At 1 January 2016 (restated)	**(495)**	**(7)**	**(129)**	**(638)**	**(1,269)**
Release/(accrual) of provision for receivables impairment	4	(6)	2	382	**382**
Accrual of discount effect	(326)	(6)	(2,082)	–	**(2,414)**
Unwinding of discount	277	–	359	–	**636**
Reclassification	142	–	13	–	**155**
Reclassification of short-term portion	63	–	886	–	**949**
Translation difference	26	–	–	–	**26**
At 31 December 2016	**(309)**	**(19)**	**(951)**	**(256)**	**(1,535)**

	Non-current trade receivables	*Non-current advances to suppliers and prepayments*	*Other non-current receivables*	*Non-current loans issued (including interest)*	*Total provision*
At 1 January 2015 (restated)	**(482)**	**(7)**	**(114)**	–	**(603)**
Release/(accrual) of provision for receivables impairment	1	–	(3)	(638)	**(640)**
Accrual of discount effect	(348)	–	(14)	–	**(362)**
Unwinding of discount	178	–	2	–	**180**
Reclassification	94	–	–	–	**94**
Reclassification of short-term portion	53	–	–	–	**53**
Disposal of group entities	9	–	–	–	**9**
At 31 December 2015 (restated)	**(495)**	**(7)**	**(129)**	**(638)**	**(1,269)**

12. Inventories

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Fuel	7,143	8,158	7,485
Spare parts	2,457	2,909	3,279
Materials and consumables	3,518	4,035	3,582
Other	986	815	568
	14,104	**15,917**	**14,914**

As at 31 December 2016 provision for inventory obsolescence amounted to RUR 557 million (31 December 2015: RUR 493 million; 1 January 2015: RUR 439 million) and included foreign currency translation gain in the amount of RUR 7 million (31 December 2015: loss RUR 11 million; 1 January 2015: loss RUR 17 million). The charge of provision for the year ended 31 December 2016 in the amount of RUR 149 million (for the year ended 31 December 2015: RUR 103 million) was recognised in Other provisions within Operating expenses, net in consolidated statement of comprehensive income.

As at 31 December 2016 the Group has a technological inventory in the amount RUR 4,807 million, mostly represented by fuel and spare parts (31 December 2015: RUR 5,512 million, 1 January 2015: RUR 4,952 million).

(in millions of RUR)

13. Accounts receivable and prepayments

		31 December 2016	31 December 2015 (restated)	1 January 2015 (restated)
Financial assets:		***88,732***	***69,773***	***68,145***
Trade receivables		100,127	88,316	85,087
	Less impairment provision	*(31,519)*	*(27,783)*	*(25,610)*
Trade receivables – net		**68,608**	**60,533**	**59,477**
Other receivables		21,617	10,256	9,628
	Less impairment provision	*(2,889)*	*(3,282)*	*(2,321)*
Other receivables – net		**18,728**	**6,974**	**7,307**
Short-term loans issued (including outstanding interest)		557	707	437
	Less impairment provision	*(505)*	*(283)*	*(284)*
Short-term loans issued (including outstanding interest)		**52**	**424**	**153**
Short-term outstanding interest on bank deposits		47	415	249
	Less impairment provision	*(10)*	*(10)*	*(10)*
Short-term outstanding interest on bank deposits – net		**37**	**405**	**239**
Short-term receivables on construction contracts		1,307	1,422	485
Dividends receivable		–	15	484
Non-financial assets:		***15,373***	***16,320***	***18,219***
Advances to suppliers and prepayments		9,051	9,852	11,130
	Less impairment provision	*(1,500)*	*(604)*	*(627)*
Advances to suppliers and prepayments – net		**7,551**	**9,248**	**10,503**
Short-term taxes recoverable		3,872	4,036	4,922
Taxes prepaid		3,950	3,036	2,794
		104,105	**86,093**	**86,364**

As at 31 December 2016 other receivables included accounts receivable from LLC Telmamskaya HEP in the amount of RUR 11,771 million, net of discount effect recognised within the line “Provision for impairment of accounts receivable, net” of RUR 729 million under the terms of sale-purchase agreement of PJSC Irkutskenergo shares (Note 15).

As at 31 December 2016 short-term VAT recoverable included RUR 711 million of VAT mainly for construction of Verkhnetagilskaya GRES, Permskaya GRES, Kostromskaya GRES, and Cherepetskaya GRES (31 December 2015: RUR 471 million, 1 January 2015: RUR 1,099 million).

As at 31 December 2016 current advances to suppliers and prepayments included the advance to JSC Enex in the amount of RUR 2,261 million for construction of Termogas Machala gas-fired power plant in Ecuador (31 December 2015: RUR 3,435 million, 1 January 2015: RUR nil).

(in millions of RUR)

13. Accounts receivable and prepayments (continued)

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

	Trade receivables	*Advances to suppliers and prepayments*	*Short-term loans issued (incl. interest)*	*Short-term outstanding interest on bank deposits*	*Other receivables*	*Total provision*
At 1 January 2016 (restated)	**(27,783)**	**(604)**	**(283)**	**(10)**	**(3,282)**	**(31,962)**
Accrual of provision	(6,189)	(940)	–	–	(318)	**(7,447)**
Accrual of discount effect	(2)	–	–	–	(821)	**(823)**
Unwinding of discount	192	–	–	–	978	**1,170**
Receivables written off as uncollectible (provided for at the beginning of the year)	1,773	29	–	–	544	**2,346**
Transfer to other balance accounts	56	–	(255)	–	263	**64**
Reclassification, other	(140)	–	–	–	(15)	**(155)**
Reclassification of long-term portion	(63)	–	–	–	(886)	**(949)**
Foreign exchange gain	3	–	–	–	2	**5**
Disposal of controlling interest	85	7	30	–	460	**582**
Translation difference	549	8	3	–	186	**746**
At 31 December 2016	**(31,519)**	**(1,500)**	**(505)**	**(10)**	**(2,889)**	**(36,423)**

	Trade receivables	*Advances to suppliers and prepayments*	*Short-term loans issued (incl. interest)*	*Short-term outstanding interest on bank deposits*	*Other receivables*	*Total provision*
At 1 January 2015 (restated)	**(25,610)**	**(627)**	**(284)**	**(10)**	**(2,321)**	**(28,852)**
(Accrual)/release of provision	(5,500)	(8)	–	–	(216)	**(5,724)**
Accrual of discount effect	(4)	–	–	–	–	**(4)**
Unwinding of discount	50	–	–	–	–	**50**
Receivables written off as uncollectible (provided for at the beginning of the year)	1,851	24	–	–	174	**2,049**
Transfer to other balance accounts	29	–	–	–	69	**98**
Reclassification, other	782	–	–	–	(876)	**(94)**
Reclassification of long-term portion	(53)	–	–	–	–	**(53)**
Disposal of controlling interest	882	18	–	–	8	**908**
Translation difference	(210)	(11)	1	–	(120)	**(340)**
At 31 December 2015 (restated)	**(27,783)**	**(604)**	**(283)**	**(10)**	**(3,282)**	**(31,962)**

Nominal value of financial assets included in accounts receivable are presented as follows:

At 31 December 2016	*Trade receivables*	*Short-term loans issued (including interest)*	*Other receivables*	*Dividends receivable*	*Short-term outstanding interest on bank deposits*	*Short-term receivables on construction contracts*	*Total*
Not past due not impaired	41,789	22	16,739	–	37	1,307	**59,894**
Past due but not impaired	15,612	–	942	–	–	–	**16,554**
Past due and impaired	42,726	535	3,936	–	10	–	**47,207**
Total	**100,127**	**557**	**21,617**	**–**	**47**	**1,307**	**123,655**

At 31 December 2015 (restated)	*Trade receivables*	*Short-term loans issued (including interest)*	*Other receivables*	*Dividends receivable*	*Short-term outstanding interest on bank deposits*	*Short-term receivables on construction contracts*	*Total*
Not past due not impaired	34,508	424	2,798	15	361	1,422	**39,528**
Past due but not impaired	15,124	–	2,461	–	44	–	**17,629**
Past due and impaired	38,684	283	4,997	–	10	–	**43,974**
Total	**88,316**	**707**	**10,256**	**15**	**415**	**1,422**	**101,131**

(in millions of RUR)

13. Accounts receivable and prepayments (continued)

At 1 January 2015 (restated)	*Trade receivables*	*Short-term loans issued (including interest)*	*Other receivables*	*Dividends receivable*	*Short-term outstanding interest on bank deposits*	*Short-term receivables on construction contracts*	*Total*
Not past due not impaired	38,038	153	5,614	484	239	485	**45,013**
Past due but not impaired	12,612	–	397	–	–	–	**13,009**
Past due and impaired	34,437	284	3,617	–	10	–	**38,348**
Total	**85,087**	**437**	**9,628**	**484**	**249**	**485**	**96,370**

As at 31 December 2016 accounts receivable in the amount of RUR 16,554 million (31 December 2015: RUR 17,629 million, 1 January 2015: RUR 13,009 million) were past due but not impaired. These relate to a number of independent counterparties without past instances of default as well as none expected. The ageing analysis of these receivables is as follows:

Past due but not impaired	*31 December 2016*	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Up to 3 month	11,902	12,694	9,512
3 to 6 month	1,734	2,397	1,650
6 to 12 month	2,285	1,846	1,049
Over 12 months	633	692	798
Total	**16,554**	**17,629**	**13,009**

The past due and impaired accounts receivable mainly comprise amounts due from wholesalers, population and other retail customers. The ageing of these receivables is as follows:

Past due and impaired	*31 December 2016*	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Up to 3 month	12,654	11,659	9,222
3 to 6 month	4,973	3,251	1,982
6 to 12 month	4,924	4,224	4,524
Over 12 months	24,656	24,840	22,620
Total	**47,207**	**43,974**	**38,348**

The Group does not hold any collateral as a security.

14. Cash and cash equivalents

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Cash at bank and in hand, national currency	53,985	21,402	25,205
Cash at bank and in hand, foreign currency	7,526	2,716	10,566
Bank deposits with maturity of three months or less	34,477	42,162	40,856
Total	**95,988**	**66,280**	**76,627**

On 21 October 2016, external management procedure was initiated, and the Peresvet Bank (hereinafter, “Bank”) was placed under temporary administration of Central Bank of Russian Federation. Central Bank of Russian Federation is implementing an action plan to prevent the Bank from going into bankruptcy. On 23 January 2017 the Central Bank of Russian Federation re-introduced a moratorium on satisfaction the Bank’s creditors for three months.

As at the reporting date and the date of approval of these consolidated financial statements Central Bank of Russian Federation has not yet to conducted a tender to select an investor for the bank's reorganization and an action plan for restructuring the bank debt was not yet been developed. The Group’s management estimates that the most likely Bank’s debt restructuring plan will provide for the conversion of 85% of the Bank's outstanding debt to creditors into 15 years bonds with an interest rate of 0.51% per annum and the option to convert the bond into shares and the remaining 15% of the Bank’s outstanding debt to creditors will return within one year.

(in millions of RUR)

14. Cash and cash equivalents (continued)

As at 31 December 2016 all cash and deposits placed in the Bank in total amount of RUR 18,709 million were reclassified to restricted cash in the amount of RUR 2,806 million rubles (Note 16) and other non-current assets in the amount of RUR 15,903 million rubles (Note 11).

As at 31 December 2016 bank deposits with maturity of three months or less in the amount of RUR 29,086 million are denominated in RUR (31 December 2015: RUR 35,830 million, 1 December 2015: RUR 34,041 million), in US dollars – RUR 5,241 million (31 December 2015: RUR 6,068 million, 1 December 2015: RUR 6,723 million), in euro – RUR 64 million (31 December 2015: RUR 100 million, 1 December 2015: RUR 88 million), in Georgian lari – RUR nil (31 December 2015: RUR 164 million, 1 January 2015: RUR 4 million), and in Turkish lira RUR 86 million(31 December 2015: RUR nil, 1 January 2015: RUR nil).

15. Assets classified as held-for-sale

	31 December 2015	*Impairment*	*Disposal*	*Reclassification*	*31 December 2016*
PJSC Irkutskenergo	38,048	–	(38,252)	204	–
JSC Stantsiya Ekibastuzskaya GRES	–	(3,020)	–	6,020	3,000
Total	**38,048**	**(3,020)**	**(38,252)**	**6,224**	**3,000**

	1 January 2015	*Impairment*	*Disposal*	*Reclassification*	*31 December 2015*
PJSC Irkutskenergo	38,048	–	–	–	38,048
LLC InterRAO-WorleyParsons	9	–	(9)	–	–
Total	**38,057**	**–**	**(9)**	**–**	**38,048**

In the 1st half 2011, PJSC Inter RAO acquired 40.00% of ordinary shares of PJSC Irkutskenergo. On the date of acquisition the Group classified the investment as assets held-for-sale in the amount of RUR 38,048 million being the cost of consideration given. As at 31 March 2016 the Group reclassified 0.29% of shares of PJSC Irkutskenergo with carrying value of RUR 204 million from available-for-sale financial assets due to management intention to sell the investment (Note 10).

In June 2016, the Group has sold 40.29% of ordinary shares of PJSC Irkutskenergo to LLC Telmamskaya HEP, a subsidiary of JSC EuroSibEnergo for cash consideration of RUR 45,000 million paid in June 2016 and cash consideration of RUR 25,000 million to be paid on quarterly basis till the end of May 2018 (Note 11, 13). As at 31 December 2016 total cash consideration paid was RUR 51,250 million.

As a result of the disposal the corresponding fair value reserve was derecognized in the consolidated statement of changes in equity in the amount of RUR 99 million, net of tax RUR 23 million and the income from sale of assets classified as held-for-sale in the amount of RUR 31,870 million was recognized in the consolidated statement of comprehensive income.

As at 1 December 2016 50% interest in a joint venture – JSC Stantsiya Ekibastuzskaya GRES with carrying value of RUR 6,020 million was reclassified to held-for-sale assets due to management intention to sell the investment (Note 8). The negotiating price is RUR 3,000 million. Loss from impairment of investment to the negotiating price in the amount of RUR 3,020 million was recognized within Impairment of assets classified as held-for-sale in the consolidated statement of comprehensive income (Note 25).

On 16 July 2015 the Group has sold the investment in LLC InterRAO-WorleyParsons to the third party for the cash consideration of RUR 20 million and the income from sale of assets classified as held-for-sale in the amount of RUR 10 million was recognized in the consolidated statement of comprehensive income.

(in millions of RUR)

16. Other current assets

	31 December 2016	*31 December 2015*	*1 January 2015*
Restricted cash	3,727	627	838
Bank deposits with maturity of 3-12 months	19	17,784	6,098
Short-term derivative financial instruments	72	34	1,389
Other	894	686	829
Total	**4,712**	**19,131**	**9,154**

As at 31 December 2016 restricted cash balances include cash deposited in Peresvet Bank in the amount of RUR 2,806 million (Note 11,14), PJSC Otkritie FC Bank (held as collateral of the payments to the third parties for the shares in PJSC Tomskenergosbyt) in the amount of RUR nil (as at 31 December 2015: RUR 200 million, 1 January 2015: RUR 200 million), in OKO Bank (held as collateral in favour of Fingrid), Nordea (held as collateral in favour of NASDAQ OMX AB), Saxo bank and Deutsche bank in the aggregate amount of RUR 146 million (as at 31 December 2015: RUR 114 million, 1 January 2015: RUR 134 million), cash deposited in the total amount of RUR 775 million held by Group Trakya, JSC Telasi, AB Inter RAO Lietuva, SIA Inter RAO Latvia, PJSC Tomskenergosbyt and other companies (as at 31 December 2015: RUR 313 million, 1 January 2015: RUR 392 million).

As at 31 December 2016 short-term derivative financial instruments included fair value of electricity derivatives in the amount of RUR 24 million (31 December 2015: RUR 34 million, 1 January 2015: RUR 990 million) at RAO Nordic Oy which are held for the purposes of hedging future sales (Note 11) and AB INTER RAO Lietuva in the amount of RUR 48 million (31 December 2015: RUR nil, 1 January 2015: RUR nil) which are held for the purposes of hedging future cash flow.

As at 31 December 2016 other current assets included bonds issued by financial institutions with total carrying value of RUR 375 million (as at 31 December 2015: RUR 313 million, 1 January 2015: RUR 302 million).

As at 1 January 2015 short-term derivative financial instruments included foreign currency forward contracts and foreign currency swaps in the total amount of RUR 399 million.

17. Equity

Share capital

	31 December 2016	*31 December 2015*	*1 January 2015*
Number of ordinary shares issued and fully paid (in units)	104,400,000,000	104,400,000,000	104,400,000,000
Par value (in RUR)	2.809767	2.809767	2.809767
Share capital (in million RUR)	293,340	293,340	293,340

Change in retained earnings as a result of acquisition of controlling interests

As described in the paragraph “Predecessor accounting” (see Note 2f) the Company accounted for acquisition of controlling interest from entity under common control using pooling-of-interests method. As a result, the Group consolidated the entity acquired and represented the financial statements from the earliest period presented (1 January 2015) as if LLC ESC Bashkortostan had been always consolidated. The amount of RUR 1,198 million represented the net assets of acquired entity was recognised in retained earnings as at 1 January 2015. The table below represents changes in retained earnings for the period from 1 January 2015 as a result of acquisition of subsidiary under common control.

Balance at 1 January 2015 (restated)	**1,198**
Annual loss of entity acquired	(114)
Dividends to shareholders	(199)
Balance at 31 December 2015 (restated)	**885**
Balance at 1 January 2016 (restated)	**885**
Profit of entity acquired for January-November 2016	89
Dividends to shareholders	(232)
Total consideration for the acquisition of controlling interests in LLC ESC Bashkortostan	(4,100)
Balance at 31 December 2016	**(3,358)**

(in millions of RUR)

17. Equity (continued)

Movements in outstanding and treasury shares

	Issued shares		Treasury shares		Total	
	thousand units	million RUR	thousand units	million RUR	thousand units	million RUR
1 January 2015	**104,400,000**	**293,340**	**(20,011,938)**	**(56,229)**	**84,388,062**	**237,111**
Sale of treasury shares, net	–	–	16,150	45	**16,150**	**45**
31 December 2015	**104,400,000**	**293,340**	**(19,995,788)**	**(56,184)**	**84,404,212**	**237,156**

	Issued shares		Treasury shares		Total	
	thousand units	million RUR	thousand units	million RUR	thousand units	million RUR
1 January 2016	**104,400,000**	**293,340**	**(19,995,788)**	**(56,184)**	**84,404,212**	**237,156**
Acquisition of treasury shares	–	–	(1,044,000)	(2,933)	**(1,044,000)**	**(2,933)**
Sale of treasury shares	–	–	117,471	330	**117,471**	**330**
31 December 2016	**104,400,000**	**293,340**	**(20,922,317)**	**(58,787)**	**83,477,683**	**234,553**

In March 2016 the Group has acquired 1,044,000 thousand shares of the Parent company (1% of its share capital) from the third parties for the price of RUR 1.5965 per share. The cash consideration in the amount of RUR 1,667 million was recognised in the consolidated statement of changes in equity and the consolidated statement of cash flows.

In May 2016 the Group sold 117,471 thousand shares of the Parent company (0.1% of its share capital) to the third parties for the price of RUR 1.8950 per share. The cash consideration in the amount of RUR 223 million was recognised in the consolidated statement of changes in equity and the consolidated statement of cash flows.

Dividends

Dividends to non-controlling shareholders were declared by the Group’s subsidiaries in the amount of RUR 621 million for the year ended 31 December 2016 (for the year ended 31 December 2015: RUR 429 million).

During the year 2015 the Group received the undrawn dividends related to previous years from non-controlling shareholders in the amount of RUR 5 million.

Cash flow hedge reserve

For the year ended 31 December 2016 net gain on hedge transactions was recognised in other comprehensive income in the amount of RUR 28 million related to shareholders of the Company and net gain related to non-controlling interest in the amount of RUR 27 million.

For the year ended 31 December 2015 net loss on hedge transactions was recognised in other comprehensive income in the amount of RUR 50 million related to shareholders of the Company and net gain related to non-controlling interest in the amount of RUR 2 million.

The overall effect of above agreements are provided in the table below:

	Foreign currency forward and option contacts	Electricity forward and futures contracts	Total
1 January 2015	**(14)**	**52**	**38**
Gain/(loss) arising on change in fair value of hedge instruments, net	8	(56)	**(48)**
Deferred income tax related to gains recognised in other comprehensive income	(2)	–	**(2)**
31 December 2015	**(8)**	**(4)**	**(12)**
Gain arising on change in fair value of hedge instruments, net	5	27	**32**
Deferred income tax related to gains recognised in other comprehensive income	–	(4)	**(4)**
31 December 2016	**(3)**	**19**	**16**

(in millions of RUR)

17. Equity (continued)

Fair value reserve

	Fair value reserve
1 January 2015	**626**
Gain arising on change in fair value of available-for-sale financial assets (Note 10, 15)	388
Deferred income tax related to gains recognised in other comprehensive income	(149)
31 December 2015	**865**
1 January 2016	**865**
Gain arising on change in fair value of available-for-sale financial assets (Note 10, 15)	2,050
Deferred income tax related to gains recognised in other comprehensive income	(430)
31 December 2016	**2,485**

Actuarial reserve

	Related to shareholders of the Company	*Related to non-controlling shareholders*	*Total*
1 January 2015	**(34)**	**16**	**(18)**
Loss arising on change in pension liabilities	(50)	(9)	**(59)**
Deferred income tax related to gains recognised in other comprehensive income	(15)	–	**(15)**
31 December 2015 (restated)	**(99)**	**7**	**(92)**
1 January 2016 (restated)	**(99)**	**7**	**(92)**
Loss arising on change in pension liabilities	(89)	(2)	**(91)**
Deferred income tax related to gains recognised in other comprehensive income	6	–	**6**
31 December 2016	**(182)**	**5**	**(177)**

18. Earnings per share

The calculation of earnings per share is based on profit or loss for the period and weighted average number of ordinary shares outstanding during the period, calculated as shown below.

The dilutive effect for the year ended 31 December 2016 of the recognition of share-based option programme (see Note 32 (b)) is included in calculation of diluted earnings per share.

	Year ended 31 December 2016
Weighted average number of shares (thousand units) – basic	**83,672,355**
Weighted average number of shares (thousand units) – diluted	**84,278,615**
Income attributable to the shareholders of the Company	60,761
Income per ordinary share (RUR) – basic	0.726
Income per ordinary share (RUR) – diluted	0.721

	Year ended 31 December 2015 (restated)
Weighted average number of shares (thousand units) – basic and diluted	**84,395,931**
Income attributable to the shareholders of the Company	22,601
Income per ordinary share (RUR) – basic and diluted	0.268

(in millions of RUR)

19. Loans and borrowings

This note provides information about the Group's loans and borrowings. Certain loan agreements include financial and non-financial covenants.

Loans and borrowings	***Currency***	***31 December 2016***	***31 December 2015***	***1 January 2015***
VTB Bank (Deutschland) AG (x)	RUR	–	20,764	20,770
EBRD (iii), (x)	RUR	–	17,169	17,861
Mejregionenergostroy JSC, VTB Factoring LLC (iv)	RUR	–	–	16,687
ROSSIYA JSC (x)	RUR	–	3,670	8,881
Raiffeisenbank JSC	RUR	–	2,000	2,000
Gazprombank JSC	RUR	3,696	3,844	323
Sberbank PJSC (xii)	RUR	–	950	–
Total in RUR	RUR	**3,696**	**48,397**	**66,522**
Vnesheconombank SC (ii)	USD	–	–	9,166
ING Bank NV (viii)	USD	4,750	8,141	7,930
Vakifbank (ix)	USD	1,921	5,491	5,450
EBRD (v)	USD	469	708	1,054
Other	USD	8	15	1,250
Total in USD	USD	**7,148**	**14,355**	**24,850**
ING Bank NV (xi)	EUR	–	1,643	1,614
EBRD (vi)	EUR	–	–	1,450
SWEDBANK AB	EUR	877	1,359	1,394
Vnesheconombank SC (vii)	EUR	–	–	777
Total in EUR	EUR	**877**	**3,002**	**5,235**
Government of Armenia (i)	JPY	–	–	872
Government of Georgia	JPY	447	563	464
Total in JPY	JPY	**447**	**563**	**1,336**
Total in AMD	AMD	**–**	**–**	**146**
Total in GEL	GEL	**77**	**111**	**117**
Finance leases				
Financial lease	USD	689	1,337	1,541
Financial lease	RUR	175	327	649
Financial lease	LTL	–	–	54
Financial lease	EUR	48	60	6
Total long-term loans and borrowings		**13,157**	**68,152**	**100,456**
Less: current portion of long-term loans and borrowings and long-term finance leases		(4,271)	(25,535)	(36,271)
		8,886	**42,617**	**64,185**

Effective interest rates

	31 December 2016	***31 December 2015***	***1 January 2015***
Loans and borrowings at fixed interest rate			
RUR	10.15-14.95%	8.89-15.29%	8.75-14.00%
USD	15.40%	15.40%	10.00-15.40%
JPY	18.00%	18.00%	8.00-19.00%
GEL	18.00%	18.00%	19.00%
Loans and borrowings at variable interest rate			
RUR	–	11.81-22.30%	11.18-15.06%
USD	4.04-5.09%	2.43-5.18%	2.43-4.85%
EUR	2.27%	0.74-2.55%	0.92-5.34%
Finance leases			
RUR	19.97-28.05%	14.47-28.05%	12.50-28.05%
USD	6.50%	6.48%	6.48-14.81%
EUR	4.80-4.95%	4.80-4.90%	4.00-4.90%
LTL	–	–	4.80%

(in millions of RUR)

19. Loans and borrowings (continued)

Effective interest rates (continued)

As at 31 December 2016 fair value of loans and borrowings is RUR 13,417 million (31 December 2015: RUR 68,196 million; 1 January 2015: RUR 98,454 million), which is estimated by discounting of contractual future cash flows at the prevailing current market interest rates available to the Group for similar financial instruments.

31 December 2016	*Fair value*	*Method of valuation*	*Ranges*
Financial liabilities at amortised cost			
Total loans and borrowings		**discounted cash flows**	
Loans denominated in RUR	3,923	discounted cash flows	10.15-28.05%
Loans denominated in USD	7,838	discounted cash flows	3.75-8.77%
Loans denominated in EUR	926	discounted cash flows	2.50-4.95%
Loans denominated in JPY	641	discounted cash flows	8.77%
Loans denominated in GEL	89	discounted cash flows	11.46%

(i) The credit line of JPY 3,877 million at nominal interest rate of 1.8% was obtained for the purposes of financing the Armenian power system programme “Transmission and distribution of electricity network”. The loan is to be repaid from 10 February 2009 to 10 February 2039. Starting from 30 October 2015 till the date of sale of investment in CJSC Elektricheskie seti Armenii in December 2016 the loan was accounted as the part on investment in joint venture (Note 5, 8).

(ii) As at 31 December 2014 the Group had a loan in the amount of USD 163 million at effective interest rate of 3.85%, which was obtained to finance acquisition of 49% share in CJSC Moldavskaya GRES. The Group has repaid the loan on 11 November 2015.

(iii) In May 2014 the Group obtained RUR 8,629 million under the credit line with EBRD at floating interest rate MosPrime + 1.85% for the purpose construction of the forth power generation block Verkhnetagilskaya GRES JSC INTER RAO – Electric Power Plants. The Parent Company acted as a guarantor under this agreement. The credit limit was RUR 12,000 million. The Group has fully prepaid the loan on 30 August 2016.

(iv) Direct financing received from JSC Mejregionenergostroy for construction of the second power generation block Kaliningradskaya TEC-2 was novated into long-term loan agreement with the contractual interest rate of 0.83%. All obligations related to loan were transferred to one of the Group entities, CJSC Inter RAO UES Capital. The Parent Company acted as a guarantor under the agreement. The Group signed an addendum to the long-term loan agreement and entered into a call option with JSC Mejregionenergostroy. The loan was discounted using effective interest rate of 9% (Note 26). On 17 June 2014 JSC Mejregionenergostroy signed the cession agreement with VTB Factoring LLC and conceded the rights of money requirement from the Group in the amount of RUR 13,000 million. In June 2015 the Group has repaid long-term loan with JSC Mejregionenergostroy and VTB Factoring LLC in the total amount of RUR 17,383 million.

(v) In February 2011 JSC Telasi obtained a loan from European Bank of Reconstruction and Development (EBRD) amounting to USD 25 million at floating interest rate Libor + Margin. The Margin varies from 3.5% to 5.0%, the loan was obtained for financing of the investment programme to rehabilitate electricity distribution low-voltage network system in Georgia. The loan is payable on 4 November 2020. The Parent Company acts as a guarantor under this agreement.

(vi) On 30 April 2009 CJSC Elektricheskie seti Armenii obtained a loan amounting to EUR 42 million at floating interest rate Libor + Margin from EBRD for the purposes of financing the investment programme on rehabilitation and upgrading of the electricity distribution network system. The margin varies from 3.5% to 5.0%. The loan is payable in October 2018. The Parent Company acted as a guarantor under this agreement. Starting from 30 October 2015 due to disposal of controlling interest in CJSC Elektricheskie seti Armenii the loan was accounted as the part on investment in joint venture (Note 5, 8). CJSC Elektricheskie seti Armenii has prepaid the loan in June 2016.

(vii) On 17 June 2009 CJSC Elektricheskie seti Armenii obtained a loan from SC Vnesheconombank amounting to EUR 22.5 million at floating interest rate Euribor + 7.0% for the purpose of financing the investment programme on rehabilitation and upgrading of the electricity distribution network system. In the first half of 2011, in accordance with terms of agreement, the margin was changed to 5.0%. The loan is payable in October 2018. On 15 October 2009 the Parent Company issued financial guarantee for the joint liability under the above loan agreement. Starting from 30 October 2015 due to disposal of controlling interest in CJSC Elektricheskie seti Armenii the loan was accounted as the part on investment in joint venture (Note 5, 8). CJSC Elektricheskie seti Armenii has prepaid the loan on 25 August 2016.

(in millions of RUR)

19. Loans and borrowings (continued)

Effective interest rates (continued)

(viii) On 23 September 2011 INTER RAO Credit B.V. obtained a loan from ING Bank N.V. in the amount of USD 74 million at nominal interest rate of 2.43%, for the purposes of financing an acquisition of JSC Khramhesi GES I and JSC Khramhesi GES II. The Parent Company and JSC INTER RAO – Electric Power Plants acted as guarantors under this agreement. The Group has repaid the loan on 23 September 2016.

On 10 December 2012 the Group obtained a loan from ING Bank N.V. in the amount of USD 89 million with variable interest rate Libor + 3.75%, with the purposes of financing acquisition of Trakya Elektrik Uretim ve Ticaret A.S. The loan is payable in May 2017. Parent Company and JSC INTER RAO – Electric Power Plants act as guarantors under this agreement.

(ix) With the acquisition of controlling interest in Trakya Elektrik Uretim ve Ticaret A.S., the Group assumed liability under two loans from Vakifbank with variable interest rate Libor + 4.15%, in the amount of USD 75 million as at 31 December 2015. The loans are payable in May 2019.

(x) As at 31 December 2015 the Group held RUR 9.600 million under long-term credit line from EBRD within the agreement signed 31 July 2012 with an interest rate 3M MosPrime + 1.5%, 1,000 million under long-term credit line from ROSSIYA JSC within the agreement signed 31 July 2014 with an interest rate of 13.5% and RUR 20,774 million under long-term credit from VTB Bank (Deutschland) AG with an interest rate MosPrime + 2.3% to repay obligations under Put and Call option agreement with SC Vnesheconombank. The Parent Company acted as a guarantor under these agreements. In December 2016 the Group has prepaid the loans.

(xi) In April 2014 the Group obtained EUR 29 million under the credit line with ING Bank N.V. at floating interest rate EURIBOR + 0.74% for the purpose construction of the forth power generation block Permskaya GRES JSC INTER RAO – Electric Power Plants. The Parent Company acted as a guarantor under this agreement. The Group has prepaid the loan on 19 December 2016.

(xii) On 5 November 2015 Parent company signed RUR 10,536 million long-term credit line agreement with Sberbank PJSC with interest rate 11.5% for financing of construction Zatonskaya TEC under government decree № 1044.

In June 2010 JSC Stantsiya Ekibastuzskaya GRES-2, joint venture till the December 2016 (Note 8), recognised liability under two credit lines in the amount of USD 385 million and RUR 12,000 million from Eurasian Development Bank and SC Vnesheconombank, accordingly, maturing in 2025. Shareholders of JSC Stantsiya Ekibastuzskaya GRES-2 issued guarantees to the banks in the amount equal to 50% of the loans carrying value and pledged shares of JSC Stantsiya Ekibastuzskaya GRES-2 as a collateral. The Parent Company's liability under the guarantee and collateral is limited by 50% of the two loans in the amount of RUR 8,427 million as at 31 December 2016 (as at 31 December 2015: RUR 10,180 million; as at 31 December 2014: RUR 9,119 million); another 50% of the loans were guaranteed and collateralised by JSC Samruk-Energo.

Gross finance lease liabilities – minimum lease payments:

	31 December 2016	*31 December 2015*	*1 January 2015*
Less than one year	678	786	1,035
Between one and five years	260	1,081	1,503
After five years	44	60	52
	982	**1,927**	**2,590**
Future finance charges on finance leases	(70)	(203)	(340)
Present value of finance lease liabilities	**912**	**1,724**	**2,250**

Present value of finance lease liabilities is as follows:

	31 December 2016	*31 December 2015*	*1 January 2015*
Less than one year	630	669	858
Between one and five years	248	1,014	1,349
After five years	34	41	43
	912	**1,724**	**2,250**

(in millions of RUR)

19. Loans and borrowings (continued)

Effective interest rates (continued)

Changes in interest rates impact loans and borrowings by changing either their fair value (fixed rate debt) or their future cash flows (variable rate debt). The Parent Company has a formal policy of determining how much of the Company's exposure should be to fixed or variable rates. At the time of raising new loans or borrowings management applies the policy to determine whether a fixed or variable rate would be more favourable to the Company over the expected period until maturity. As for other entities of the Group, following the corporate regulative documents, the decisions on raising new loans and borrowings on the subsidiaries level are subject for approval by the Parent Company. Management applies the same policy in making decisions in respect of the conditions of raising loans and borrowings on the subsidiary level.

Current loans and borrowings and current portion of non-current loans and borrowings:

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Current loans and borrowings	4,415	7,801	8,741
Current portion of non-current loans and borrowings	3,641	24,862	35,413
Current portion of finance lease liability	630	669	858
Interest payable	52	2,227	755
Total	**8,738**	**35,559**	**45,767**

The Group has the following undrawn borrowing facilities:

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Floating rate			
Expiring within one year	8,722	5,750	5,570
Expiring beyond one year	24,500	14,500	27,626
	33,222	**20,250**	**33,196**
Fixed rate			
Expiring within one year	33,603	20,645	30,106
Expiring beyond one year	61,699	50,504	22,032
	95,302	**71,149**	**52,138**
Total	**128,524**	**91,399**	**85,334**

20. Accounts payable and accrued liabilities

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Financial liabilities			
Trade payables	47,832	50,091	53,812
Short-term derivative financial instruments	17	216	2,359
Dividends payable	9	13	128
Other payables and accrued expenses	4,828	5,095	5,453
Total	**52,686**	**55,415**	**61,752**
Non-financial liabilities			
Advances received	35,694	29,249	28,667
Staff payables	9,333	8,652	6,591
Provisions, short-term	7,755	4,552	2,686
Total	**52,782**	**42,453**	**37,944**
	105,468	**97,868**	**99,696**

(in millions of RUR)

20. Accounts payable and accrued liabilities (continued)

As at 31 December 2016 short-term derivative financial instruments include fair value of open electricity derivatives of RAO Nordic Oy and AB INTER RAO Lietuva held for the purposes of hedging future electricity purchases equalled to RUR nil (31 December 2015: RUR 192 million; 1 January 2015: RUR 967 million), RUR nil of foreign currency forward of the Parent Company and Eastern Energy Company JSC (31 December 2015: RUR nil; 1 January 2015: RUR 1,370 million) and RUR 17 million of short-term portion of interest rate swap of Vydmantai Wind Park UAB (31 December 2015: RUR 24 million; 1 January 2015: RUR 22 million).

As at 31 December 2016 other payables and accrued expenses included RUR 728 million of VAT on advances given by JSC INTER RAO – Electric Power Plants (31 December 2015: RUR 634 million; 1 January 2015: RUR 1,531 million) and RUR 160 million of the Group's liability for the contribution to the additional paid-in-capital of RUS Gas Turbines Holding B.V. (31 December 2015: RUR 80 million; 1 January 2015: RUR 444 million).

As at 31 December 2016 advances received included RUR 18,949 million of payments for electricity sales from customers of PJSC Mosenergosbyt, JSC Saint Petersburg Power Supply Company, LLC RN-Energo and Group Bashkir Generation Company (31 December 2015: RUR 15,810 million; 1 January 2015: RUR 15,105 million), RUR 2,247 million of advances received by the Parent Company from buyers of equipment in Ecuador and Venezuela (31 December 2015: RUR 2,640 million; 1 January 2015: RUR 4,523 million), RUR 7,817 million of advances received for construction from customers of LLC INTER RAO Engineering (31 December 2015: RUR 1,773 million; 1 January 2015: RUR 2,180 million) and RUR 3,698 million of advances received by Inter RAO Export for construction of power station in Ecuador (31 December 2015: RUR 4,494 million; 1 January 2015: RUR nil).

As at 31 December 2016 provisions short-term included other provisions related to JSC INTER RAO – Electric Power Plants penalties on delay of fulfillment of power delivery construction contracts in the amount of RUR nil (31 December 2015: RUR nil; 1 January 2015: RUR 327 million), RUR 1,559 million related to disputes for non-compliance with the Russian legislation on competition (31 December 2015: RUR 1,050 million; 1 January 2015: RUR 712 million).

Movements in short-term provisions are as follows:

	Provision for legal claims	***Provision for taxes***	***Provision for income tax***	***Other provisions***	***Total***
Balance at 1 January 2015 (restated)	**766**	**65**	**158**	**1,697**	**2,686**
Additions	959	88	105	3,406	**4,558**
Provision used during the period	–	–	(152)	–	**(152)**
Release of provision	(579)	(116)	(3)	(1,676)	**(2,374)**
Reclassification	(59)	–	–	(38)	**(97)**
Disposal of subsidiaries	(43)	–	–	(70)	**(113)**
Transfer to Other Balance Accounts	5	–	–	–	**5**
Translation difference	20	–	–	19	**39**
Balance at 31 December 2015 (restated)	**1,069**	**37**	108	**3,338**	**4,552**
Balance at 1 January 2016	**1,069**	**37**	108	**3,338**	**4,552**
Additions	1,947	34	149	3,176	**5,306**
Provision used during the period	–	–	(44)	–	**(44)**
Release of provision	(411)	(48)	(60)	(1,520)	**(2,039)**
Reclassification	495	21	(3)	(499)	**14**
Disposal of subsidiaries	–	–	–	–	**–**
Transfer to Other Balance Accounts	(2)	–	–	–	**(2)**
Translation difference	(27)	–	–	(5)	**(32)**
Balance at 31 December 2016	**3,071**	**44**	**150**	**4,490**	**7,755**

Additional provision (net of release) for the year ended 31 December 2016 in the amount of RUR 3,178 million (for the year ended 31 December 2015: RUR 2,082 million) was recognised in Other provisions within Operating expenses, net in the consolidated statement of comprehensive income.

Additional provision for income tax, net of release for the year ended 31 December 2016 in the amount of RUR 89 million (for the year ended 31 December 2015: RUR 102 million) was recognised within Income tax expense in the consolidated statement of comprehensive income.

(in millions of RUR)

21. Other non-current liabilities

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Financial liabilities			
Long-term derivative financial instruments	14	40	1,249
Other long-term liabilities	451	445	217
Total financial liabilities	**465**	**485**	**1,466**
Non-financial liabilities			
Pensions liabilities	4,081	4,168	3,800
Advances received	–	99	5,053
Restoration provision	1,946	1,159	586
Government grants	42	71	645
Other long-term liabilities	726	**221**	30
Total non-financial liabilities	**6,795**	**5,718**	**10,114**
Total	**7,260**	**6,203**	**11,580**

Long-term derivative financial instruments as at 31 December 2016 in the total amount of RUR 14 million (31 December 2015: RUR 40 million; 1 January 2015: RUR 1,249 million) are represented by the fair value of derivatives of RAO Nordic Oy and AB INTER RAO Lietuva held for the purposes of hedging future electricity purchases in the amount RUR nil (31 December 2015: RUR 14 million; 1 January 2015: RUR 1,216 million) in RAO Nordic Oy (Note 11) and RUR 14 million (31 December 2015: RUR 26 million; 1 January 2015: RUR 33 million) of long-term portion of interest rate swap of Vydmantai Wind Park UAB.

As at 1 January 2015 advances received included advances received by Inter RAO Export for construction of power station in Ecuador in the amount of RUR 5,042 million.

Restoration provision relates to rehabilitation of land plots used for ash dumps by coal powered plants of the Group. The Group has recognised an obligation to restore the disturbed plots occupied by ash dumps on expiration of their useful lives.

Restoration provision at 1 January 2015	**586**
Unwinding of discount	65
Changes in estimates of existing obligations	556
Reclass of short-term portion	(48)
Restoration provision at 31 December 2015	**1,159**
Restoration provision at 31 December 2015	**1,159**
Acquisition of controlling interest	(16)
Unwinding of discount	125
Changes in estimates of existing obligations	678
Restoration provision at 31 December 2016	**1,946**

Discount rate used to calculate net present value of future cash outflows for land rehabilitation was in the range from 8.34% to 8.56% per annum in 2016 (in 2015 – 9.89% per annum).

Post-employment benefits

The Group provides certain post-employment benefits to their employees in accordance with labour agreements. Post-employment benefits consist of pension benefits via non state fund, lump sum payments at retirement and towards, employees' jubilees, pension benefits to non-working pensioners-veterans and funeral compensation.

These benefits generally depend on the years of service, terminal salary and amount of benefits provided under labour agreements. The Group pays post-employment benefits when they fall due.

The tables below provide information about liabilities related to pension and other post-employment benefits, plan assets and actuarial assumptions used for current and previous reporting periods.

(in millions of RUR)

21. Other non-current liabilities (continued)

Post-employment benefits (continued)

Amounts recognised in the consolidated statement of financial position:

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Present value of defined benefit obligations	4,081	4,168	3,800
Less: fair value of plan assets	–	–	–
Deficit in plan	**4,081**	**4,168**	**3,800**
Pension liabilities in the consolidated statement of financial position	**4,081**	**4,168**	**3,800**

Amounts recognised in the consolidated statement of comprehensive income:

	Year ended 31 December 2016	*Year ended 31 December 2015 (restated)*
Current service cost	194	184
Interest cost	384	384
Recognised actuarial loss	82	(6)
Recognised past service cost	(350)	17
Total	**310**	**579**
Curtailment and settlement gain	(139)	(40)
Other	26	114
Total	**197**	**653**

Changes in the present value of the Group's defined benefit obligation and plan assets are as follows:

	31 December 2016	*31 December 2015 (restated)*
Present value of defined benefit obligations as at the beginning of the period	4,168	3,800
Current service cost	194	184
Interest cost	384	384
Actuarial loss	82	(6)
Past service cost	(350)	19
Benefits paid	(266)	(260)
Curtailment and settlement gain	(139)	(40)
Other	8	87
Present value of defined benefit obligations as at the end of the period	**4,081**	**4,168**

Plan assets:

	31 December 2016	*31 December 2015 (restated)*
Employer contributions	266	260
Benefits paid	(266)	(260)
Fair value of plan assets as at the end of the period	–	–

Changes in the pension liabilities are as follows:

	31 December 2016	*31 December 2015 (restated)*
Pension liabilities at the beginning of the year	4,168	3,800
Net expense recognised in the consolidated statement of comprehensive income	197	653
Benefits paid	(266)	(260)
Other income	(18)	(25)
Pension liabilities at the end of the period	**4,081**	**4,168**

(in millions of RUR)

21. Other non-current liabilities (continued)

Post-employment benefits (continued)

Principal actuarial assumptions are as follows:

	31 December 2016	*31 December 2015*	*1 January 2015*
Discount rate	9.51%	10.33%	10.00%
Salary increase	7.00%	8.00%	8.00%
Inflation	6.50%	6.00%	6.00%
Mortality	RUS 2014 mortality reduced by 20%	RUS 2013 mortality reduced by 20%	RUS 2012 mortality reduced by 20%

Staff turnover was assessed using an experience-based model.

The Group's best estimate of contributions to be paid in next year-long period is RUR 228 million (31 December 2015: RUR 230 million).

Sensitivity analysis as of 31 December 2016 on principal actuarial assumptions is presented below:

	Change in assumption	*Effect on defined benefit obligation*
Discount rate	+ / -0.75% p.a.	268
Salary increase	+ / -0.75% p.a.	88
Inflation	+ / -0.75% p.a.	104
Staff turnover	+ / -1.5% p.a.	145

Funded status of the pension and other post-employment and long-term obligations as well as gains arising from experience adjustments is as follows:

	31 December 2016	*31 December 2015*	*1 January 2015*
Defined benefit obligation	4,081	4,168	3,800
Deficit in plan	4,081	4,168	3,800
Experience adjustments on plan liabilities, loss	23	–	–

22. Other taxes payable

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Value added tax (VAT)	7,450	5,272	4,385
Property tax	648	544	658
Social tax	634	454	382
Personal income tax	217	207	227
Other taxes	56	215	268
	9,005	**6,692**	**5,920**

23. Revenue

	Year ended 31 December 2016	*Year ended 31 December 2015 (restated)*
Electricity and capacity	795,675	764,493
Thermal energy sales	42,138	37,977
Other revenue	30,369	29,517
	868,182	**831,987**

Other revenue for the year ended 31 December 2016 included received reimbursement from the government of the Russian Federation in the amount of RUR 11,842 million (for the year ended 31 December 2015: RUR 13,300 million) as a compensation for the difference between tariffs set for electricity supply companies in some regions of the country and the Group's cost of electricity purchases.

(in millions of RUR)

24. Other operating income

	Year ended 31 December 2016	Year ended 31 December 2015 (restated)
Penalties and fines receivable	4,200	2,181
Income from sale of available-for-sale financial assets and assets classified as held for sale (Note 10, 15)	31,870	1,365
Electricity derivatives	330	1,655
Rental income	373	429
Other	2,347	3,078
	39,120	**8,708**

Other operating income for the year ended 31 December 2016 included: income from various compensation payments received by JSC Inter RAO – Electric Power Plants in the amount of RUR 617 million (for the year ended 31 December 2015: RUR 403 million), insurance compensation received by Group Bashkir Generation Company in the amount of RUR 28 million (for the year ended 31 December 2015: RUR 112 million); income due to the decision of the court on disputes of PJSC Tomskenergosbyt with the network company for 2012 in the amount of RUR nil (for the year ended 31 December 2015: RUR 583 million); income from sale of equipment to Venezuela and Ecuador in the amount of RUR 391 million (for the year ended 31 December 2015: RUR 680 million).

Income from sale of available-for-sale financial assets and assets classified as held for sale for the year ended 31 December 2015 also included RUR 535 million related to contingent consideration under the contract for sale of PJSC Enel OGK-5 ordinary shares to the consortium of investors in 2012. The structure of the deal involved the distribution of Group's share in PJSC Enel OGK-5 income for 2012-2014 from the consortium.

25. Operating expenses, net

	Year ended 31 December 2016	Year ended 31 December 2015 (restated)
Purchased electricity and capacity	327,740	320,150
Electricity transmission fees	234,918	207,468
Fuel expense	124,403	141,147
Employee benefit expenses and payroll taxes	49,892	47,987
Depreciation and amortisation (Note 6, 7)	22,904	23,609
Provision for impairment of account receivables, net	8,496	6,500
Repairs and maintenance	6,415	7,665
Agency fees	4,720	4,914
Impairment of property, plant and equipment – charge (Note 6)	4,082	14,766
Taxes other than income tax	4,078	3,695
Other provisions charge (Note 12, 20, 21)	3,398	2,185
Other materials for production purposes	3,281	2,903
Water supply expenses	3,082	2,921
Impairment of assets classified as held-for-sale	3,020	–
Loss from disposal of Group entities, net (Note 5, 8)	2,192	951
Transportation expenses	2,060	1,944
Operating lease expenses	1,960	1,787
Thermal power transmission expenses	1,773	1,477
Consulting, legal and auditing services	1,008	1,187
Cost of equipment sold	524	8
Loss on sale or write-off of inventory	51	49
Loss from electricity derivatives	–	1,960
Impairment of available-for-sale financial assets (Note 11)	–	19
Other	20,045	19,660
	830,042	**814,952**

(in millions of RUR)

26. Finance income and expense

	Year ended 31 December 2016	***Year ended 31 December 2015 (restated)***
Finance income		
Interest income	9,495	7,486
Dividend income	260	1,149
Foreign currency exchange gain, net	–	2,061
Other finance income	366	1,425
	10,121	**12,121**

	Year ended 31 December 2016	***Year ended 31 December 2015 (restated)***
Finance expenses		
Interest expense	7,229	10,660
Foreign currency exchange loss, net	3,642	–
Other finance expenses	13,440	318
	24,311	**10,978**

In June 2015 the Group received dividend income from PJSC Irkutskenergo in the amount of RUR 1,011 million.

For the year ended 31 December 2015 the Group recognised income from foreign currency forward and option contracts in the amount of RUR 840 million within other finance income.

27. Income tax expense

	Year ended 31 December 2016	***Year ended 31 December 2015 (restated)***
Current tax expense	12,225	6,589
Deferred tax benefit	(4,683)	(3,686)
Amended tax declaration	(395)	(66)
Provision for income tax	89	102
Income tax expense	**7,236**	**2,939**

The Parent Company's applicable tax rate is the corporate income tax rate of 20% (31 December 2015: 20%). The corporate income tax rate in Finland is 20% (31 December 2015: 20%), in Georgia is 15% (31 December 2015: 15%), in Lithuania is 15% (31 December 2015: 15%), in Kazakhstan 20% (31 December 2015: 20%). The tax system in Transdniestria Republic, Moldavia, where Moldavskaya GRES operates, is based on revenue at a rate of 11% (31 December 2015: 11%).

In accordance with tax legislation, tax losses in various Group entities in the countries where they operate may not be offset against taxable profit of other Group entities. Accordingly, profit tax may be accrued even where there is a net consolidated tax loss.

(in millions of RUR)

27. Income tax expense (continued)

Profit before tax for financial reporting purposes is reconciled to income tax expense as follows:

	Year ended 31 December 2016	*Year ended 31 December 2015 (restated)*
Profit before tax	**(68,548)**	**(26,761)**
Theoretical profit tax charge at 20% – expense	**13,710**	**5,352**
Effect of different tax rates	873	(113)
Effect of different tax base	138	530
Effect from disposal of assets classified as held for sale	(6,374)	–
Effect from impairment of assets classified as held for sale	(604)	–
Effect from disposal of controlling interest	438	–
Utilisation of previously unrecognised tax losses	(259)	(2,072)
Tax effect of items which are not deductible or assessable for taxation purposes, net	(87)	969
Recognition of previously unrecognised temporary differences	–	(2,495)
Provision for income tax	89	102
Other	(688)	666
Income tax expense	**7,236**	**2,939**

28. Financial instruments and financial risk factors

Financial risk factors

The Group's activities expose it to a variety of financial risks: market risk (including foreign currency exchange risk, interest rates risk), credit risk and liquidity risk. Risk management is carried out in accordance with risk policy approved by the Management Board.

This risk policy provides principles of overall risk management and policies for specific areas, such as foreign exchange risk, and credit risk. Management considers these measures to be sufficient to control the risks within the Group's business activities.

Information on financial instruments in terms of categories is presented below:

As at 31 December 2016	*Note*	*Loans and receivables, held to maturity investments*	*Derivatives used for hedging*	*Available for sale financial assets*	*Total*
Assets as per consolidated statement of financial position					
Available-for-sale financial assets	10	–	–	7,810	**7,810**
Derivative financial instruments	11, 16	–	72	–	**72**
Trade and other receivables excluding prepayments	11, 13	99,955	–	–	**99,955**
Other non-current assets	11	3,260	–	–	**3,260**
Restricted cash	16	3,727	–	–	**3,727**
Bank deposits with maturity exceeding 3 months	11, 16	19	–	–	**19**
Bonds	16	375	–	–	**375**
Cash and cash equivalents	14	95,988	–	–	**95,988**
Total assets		**203,324**	**72**	**7,810**	**211,206**

As at 31 December 2016	*Note*	*Liabilities at fair value through profit and loss*	*Other financial liabilities at amortised cost*	*Finance lease liabilities*	*Total*
Liabilities as per consolidated statement of financial position					
Loans and borrowings (excluding finance lease liabilities)	19	–	16,712	–	**16,712**
Finance lease liabilities	19	–	–	912	**912**
Derivative financial instruments	20, 21	31	–	–	**31**
Trade and other payables excluding taxes	20, 21	–	53,120	–	**53,120**
Total liabilities		**31**	**69,832**	**912**	**70,775**

(in millions of RUR)

28. Financial instruments and financial risk factors (continued)

Financial risk factors (continued)

As at 31 December 2015 (restated)	*Note*	*Loans and receivables, held to maturity investments*	*Derivatives used for hedging*	*Available for sale financial assets*	*Total*
Assets as per consolidated statement of financial position					
Available-for-sale financial assets	10	–	–	5,865	**5,865**
Derivative financial instruments	11, 16	–	35	–	**35**
Trade and other receivables excluding prepayments	11, 13	77,361	–	–	**77,361**
Restricted cash	16	627	–	–	**627**
Bank deposits with maturity exceeding 3 months	11, 16	17,864	–	–	**17,864**
Bonds	16	313	–	–	**313**
Cash and cash equivalents	14	66,280	–	–	**66,280**
Total assets		**162,445**	**35**	**5,865**	**168,345**

As at 31 December 2015 (restated)	*Note*	*Liabilities at fair value through profit and loss*	*Other financial liabilities at amortised cost*	*Finance lease liabilities*	*Total*
Liabilities as per consolidated statement of financial position					
Loans and borrowings (excluding finance lease liabilities)	19	–	76,452	–	**76,452**
Finance lease liabilities	19	–	–	1,724	**1,724**
Derivative financial instruments	20, 21	256	–	–	**256**
Trade and other payables excluding taxes	20, 21	–	55,644	–	**55,644**
Total liabilities		**256**	**132,096**	**1,724**	**134,076**

As at 1 January 2015 (restated)	*Note*	*Loans and receivables, held to maturity investments*	*Derivatives used for hedging*	*Available for sale financial assets*	*Total*
Assets as per consolidated statement of financial position					
Available-for-sale financial assets		–	–	7,260	**7,260**
Derivative financial instruments	11, 16	–	2,681	–	**2,681**
Trade and other receivables excluding prepayments	11, 13	75,069	–	–	**75,069**
Restricted cash	16	838	–	–	**838**
Bank deposits with maturity exceeding 3 months	11, 16	6,167	–	–	**6,167**
Bonds	16	302	–	–	**302**
Cash and cash equivalents	14	76,627	–	–	**76,627**
Total assets		**159,003**	**2,681**	**7,260**	**168,944**

As at 1 January 2015 (restated)	*Note*	*Liabilities at fair value through profit and loss*	*Other financial liabilities at amortised cost*	*Finance lease liabilities*	*Total*
Liabilities as per consolidated statement of financial position					
Loans and borrowings (excluding finance lease liabilities)	19	–	107,702	–	**107,702**
Finance lease liabilities	19	–	–	2,250	**2,250**
Derivative financial instruments	20, 21	3,608	–	–	**3,608**
Trade and other payables excluding taxes	20, 21	–	59,610	–	**59,610**
Total liabilities		**3,608**	**167,312**	**2,250**	**173,170**

(in millions of RUR)

28. Financial instruments and financial risk factors (continued)

(a) Credit risk

The Group is exposed to credit risk, which is the risk that a counterparty will not be able to pay amounts in full when due. Credit risk is managed on the Group basis, as well as at the level of a particular Group entity. Financial assets which are potentially subject to credit risk are presented in the tables below net of provision for impairment and consist principally of trade and other receivables.

The Group has policies in place to ensure that sales of products and services are made to customers with an appropriate credit history. The Group’s current arrangements include assessing customers’ financial position, past experience and other relevant factors. Carrying amount of trade and other receivables, net of provision for impairment, represents the maximum amount exposed to credit risk. Although collection of receivables could be influenced by economic and other factors, management believes that there is no significant risk of loss to the Group beyond the provision for impairment already recorded.

Cash is placed in financial institutions, which are considered to have minimal risk of default. Despite the fact that certain banks do not have international credit ratings they are considered as reliable counterparties that have stable positions in the financial market of the Russian Federation or other countries in which the Group entities operate. In 2016, the Group has tightened the procedure for consideration and approval of the credit institutions, in which the Group can place free funds. On the basis of the analysis the list of credit institutions includes banks with a reliable credit rating. The Group believes that greater control over the placement of funds will reduce the exposure to credit risk.

As at 31 December 2016 receivables potentially involving credit risks for the Group consisted mainly of trade receivables in the amount of RUR 70,224 million (31 December 2015: RUR 62,087 million; 1 January 2015: RUR 61,020 million), and other receivables in the amount of RUR 29,731 million (31 December 2015: RUR 15,274 million; 1 January 2015: RUR 14,049 million). Total carrying value of receivables as at 31 December 2016 was RUR 99,955 million (as at 31 December 2015: RUR 77,361 million; 1 January 2015: RUR 75,069 million).

The Group’s general objective in managing credit risk is to ensure continuous revenue collection and stable cash inflow as well as efficient financial assets utilisation.

Being mainly linked to trade receivables, the Group’s exposure to credit risk is generally affected by quality of debtors. It is considered, that business activities among the diverse entities within the Group differ. Consequently, credit risks are specific for different types of trade receivables (residential sector, wholesale trading, etc.).

Due to impracticability of determining independent credit ratings for each customer and trade partner, as well as taking into account dissimilarity among different groups of them, the Group assesses credit risks allied with trade receivables based upon particular precedent experience and business relationship supported by other factors.

In order to obtain better credit risk monitoring the Group classifies receivables according to understanding of their credit risk rate. The Group makes sure that provision for impairment of accounts receivable reflects the credit risk classification in order to consistently grade and treat different groups of receivables in a similar manner.

As at 31 December 2016	*Nominal value*	*Provision for impairment*	*Carrying amount*	*Share in total, %*
A	82,069	–	82,069	60%
B’	16,604	(2,560)	14,044	12%
B’’	3,251	(1,048)	2,203	2%
B’’’	3,528	(2,189)	1,339	3%
C	30,942	(30,642)	300	23%
Total	**136,394**	**(36,439)**	**99,955**	**100%**

As at 31 December 2015 (restated)	*Nominal value*	*Provision for impairment*	*Carrying amount*	*Share in total, %*
A	65,557	–	65,557	59%
B’	8,674	(833)	7,841	8%
B’’	3,482	(1,076)	2,406	3%
B’’’	2,986	(1,788)	1,198	3%
C	29,282	(28,923)	359	27%
Total	**109,981**	**(32,620)**	**77,361**	**100%**

(in millions of RUR)

28. Financial instruments and financial risk factors (continued)

(a) Credit risk (continued)

As at 1 January 2015 (restated)	*Nominal value*	*Provision for impairment*	*Carrying amount*	*Share in total, %*
A	64,159	–	64,159	62%
B’	7,595	(496)	7,099	7%
B’’	2,591	(692)	1,899	2%
B’’’	4,773	(3,060)	1,713	5%
C	24,772	(24,573)	199	24%
Total	**103,890**	**(28,821)**	**75,069**	**100%**

The Group applies three main Credit risk Classes – A (premium), B (medium), C (low-grade).

Class A – parties with stable financial performance who have rarely allowed delayed settlement or defaulted on their financial obligations towards the Group. The credit risk related to those entities and individuals is considered minimal. No provision is applied for such receivables.

Class B – parties, whose capacity to clear their financial obligations towards the Group is to some extent affected by credit risk. This group is sequentially divided into three sub-classes:

- Class B’ – parties with satisfactory creditworthiness, where any delaying of payments has been only short-term and temporary in character, related agreements are put in place accordingly, credit risk related to those entities and individuals is considered low.
- Class B’’ – parties with poor creditworthiness, reasonably frequent delays in payments happen from time to time, there is reasonable uncertainty regarding their capacity to clear their financial obligations towards the Group. The credit risk related to those entities and individuals is considered acceptable.
- Class B’’’ – parties with unsatisfactory creditworthiness, frequent delay in payments happen or/and have systematic grounds (reasons), there is significant uncertainty regarding their capacity to clear their financial obligations towards the Group. The credit risk related to those entities and individuals is considered moderate.

The main reason behind dividing Class B into the three sub-classes is to develop a tool for more precise monitoring of the status of receivables and the outcome of credit risk-management measures employed.

Class C – parties with uncertain capacity to meet their financial obligations towards the Group. The credit risk related to those entities and individuals, mainly residential subscribers in the Russian Federation and Georgia, is considered high. The Group cannot switch off the debtors from electricity supply or reject potential debtors of this class due to social and political reasons.

Policies and procedures to address credit risk-management include participation in financial claims and court proceedings. Group entities also use a wide range of proactive credit risk-management procedures where they consider the rules of national energy markets. Such procedures include preliminary credit risk-assessment before setting up a contract or a deal.

(b) Market risk

(i) Foreign exchange risk

Individual subsidiaries and the Group as a whole are exposed to currency risk on sales, purchases and borrowings that are denominated in a currency other than their functional currency. The currencies giving rise to this risk are primarily USD and EUR.

(in millions of RUR)

28. Financial instruments and financial risk factors (continued)

(b) Market risk (continued)

The Group has the following foreign-currency denominated financial assets and liabilities (these are disclosed on stand-alone basis inclusive of intercompany balances and exclusive receivables considered as net investments and liabilities related to those assets):

At 31 December 2016	*EUR*	*USD*	*Other*	*Total*
Trade and other receivables (excluding prepayments)	3,767	5,567	222	**9,556**
Cash and cash equivalents	3,759	7,559	561	**11,879**
Restricted cash	–	526	12	**538**
Loans and borrowings (excluding finance lease liabilities)	–	(913)	(531)	**(1,444)**
Finance lease liabilities	–	(689)	–	**(689)**
Trade and other payables (excluding taxes)	(1,127)	(1,720)	(358)	**(3,205)**
Net foreign currency position	**6,399**	**10,330**	**(94)**	**16,635**

At 31 December 2015	*EUR*	*USD*	*Other*	*Total*
Trade and other receivables (excluding prepayments)	7,201	10,515	231	**17,947**
Cash and cash equivalents	394	5,935	144	**6,473**
Restricted cash	–	86	8	**94**
Loans and borrowings (excluding finance lease liabilities)	(3,431)	(6,239)	(563)	**(10,233)**
Finance lease liabilities	–	(1,337)	–	**(1,337)**
Trade and other payables (excluding taxes)	(754)	(3,374)	(425)	**(4,553)**
Net foreign currency position	**3,410**	**5,586**	**(605)**	**8,391**

At 1 January 2015	*EUR*	*USD*	*Other*	*Total*
Trade and other receivables (excluding prepayments)	7,149	19,884	639	**27,672**
Long-term bank deposits	69	–	–	**69**
Bank deposits with maturity of 3-12 months	–	3,094	–	**3,094**
Cash and cash equivalents	596	15,745	5	**16,346**
Restricted cash	112	108	–	**220**
Derivative financial instruments (assets)	389	–	–	**389**
Loans and borrowings (excluding finance lease liabilities)	(11,088)	(34,939)	(1,346)	**(47,373)**
Finance lease liabilities	(218)	(1,541)	–	**(1,759)**
Derivative financial instruments (liabilities)	(1,284)	(141)	–	**(1,425)**
Trade and other payables (excluding taxes)	(1,352)	(1,923)	(113)	**(3,388)**
Net foreign currency position	**(5,627)**	**287**	**(815)**	**(6,155)**

For sensitivity analysis, management estimated the reasonably possible changes in currency exchange rates based on expectations on their volatility. If currency exchange rates had weakened/strengthened within the estimated levels (see table below), with all other variables held constant, the hypothetical effect on income/(loss) and equity for the year ended 31 December 2016 would have been increase of income by RUR 1,901 million or decrease of income by RUR 1,836 million (for the year ended 31 December 2015: increase of income by RUR 2,303 million or decrease of income by RUR 2,140 million) in accordance with positive and negative scenario, respectively.

At 31 December 2016	*USD/EUR*	*RUR/USD*	*RUR/EUR*	*GEL/USD*	*GEL/EUR*
Upper level	4.99%	(12.88)%	(13.77)%	(5,63)%	(0.92)%
Lower level	(4.99)%	12.88%	13.77%	5,63%	0.35%

At 31 December 2015	*USD/EUR*	*RUR/USD*	*RUR/EUR*	*GEL/USD*	*GEL/EUR*
Upper level	3.03%	(26.64)%	(27.53)%	(11.18)%	(8.48)%
Lower level	(3.03)%	26.64%	27.53%	11.18%	7.80%

Expected deviations are based on possible changes in exchange rates based on an analysis of recent trends.

(in millions of RUR)

28. Financial instruments and financial risk factors (continued)

(b) Market risk (continued)

(ii) Interest rate risk

The Group's income/(loss) and operating cash flows are substantially independent of changes in market interest rates. Changes in interest rates impact primarily loans and borrowings by changing either their fair value (fixed rate debt) or their future cash flows (variable rate debt). The Group has formal policy to determine how much of the Group's exposure is attributable to fixed or variable rates.

Variable rate debt	*31 December 2016*	*31 December 2015*
MosPrime	–	37,933
Libor	7,140	14,340
EURIBOR	877	3,633

The hypothetical effect on income/(loss) for the period due to change in basic points (bp) in the floating interest rates, with all other variables held constant:

	Deviation of LIBOR	
Hypothetical effect on income for the year ended 31 December 2016	9 bp decrease	10 bp increase
	5	(6)
Hypothetical effect on loss for the year ended 31 December 2015	9 bp decrease	10 bp increase
	10	(11)

	Deviation of EURIBOR		*Deviation of MosPrime*	
Hypothetical effect on income for the year ended 31 December 2016	20 bp decrease	10 bp increase	55 bp decrease	60 bp increase
	1	(1)	–	–
Hypothetical effect on loss for the year ended 31 December 2015	5 bp decrease	5 bp increase	175 bp decrease	200 bp increase
	1	(1)	531	(607)

(c) Liquidity risk

The Group's approach to manage liquidity is to ensure, as far as possible, that it has sufficient liquidity to satisfy its liabilities when due, under both normal and stressed conditions, without incurring unacceptable losses or risking to damage the Group's reputation. The Group adopts prudent approach to liquidity risk management which implies holding a reasonable level of cash and maintaining funding available through an adequate amount of committed borrowing facilities (Note 19).

The table below analyses the Group's financial liabilities allocated to relevant maturity groupings based on remaining contractual maturity date. The amounts disclosed in the table are contractual undiscounted cash flows:

At 31 December 2016	*Less than 1 year*	*Between 1 and 2 years*	*Between 2 and 5 years*	*Between 5 and 20 years*	*Over 20 years*	*Total*
Loans and borrowings	8,299	6,381	2,384	286	3,015	**20,365**
Trade and other payables	52,669	284	163	30	27	**53,173**
Finance lease payables	678	246	14	44	–	**982**
Derivative financial liabilities	17	9	5	–	–	**31**
Total	**61,663**	**6,920**	**2,566**	**360**	**3,042**	**74,551**

At 31 December 2015 (restated)	*Less than 1 year*	*Between 1 and 2 years*	*Between 2 and 5 years*	*Between 5 and 20 years*	*Over 20 years*	*Total*
Loans and borrowings	43,884	26,763	15,933	849	4,020	**91,449**
Trade and other payables	55,202	441	–	6	–	**55,649**
Finance lease payables	786	772	309	60	–	**1,927**
Derivative financial liabilities	216	28	12	–	–	**256**
Total	**100,088**	**28,004**	**16,254**	**915**	**4,020**	**149,281**

(in millions of RUR)

28. Financial instruments and financial risk factors (continued)

(c) Liquidity risk (continued)

At 1 January 2015 (restated)	*Less than 1 year*	*Between 1 and 2 years*	*Between 2 and 5 years*	*Between 5 and 20 years*	*Over 20 years*	*Total*
Loans and borrowings	53,415	34,334	40,142	3,912	4,050	**135,853**
Trade and other payables	59,359	933	6	7	26	**60,331**
Finance lease payables	1,035	647	856	52	–	**2,590**
Derivative financial liabilities	2,360	590	613	46	–	**3,609**
Total	**116,169**	**36,504**	**41,617**	**4,017**	**4,076**	**202,383**

(d) Capital management

The Group's objective in managing capital is to safeguard the Group's ability to continue operations on a going concern basis and to provide returns to shareholders as well as to maintain a strong capital base to provide creditors and the market with confidence in operating with the Group.

The Company monitors capital based on ratios calculated based on the statutory financial statements of PJSC Inter RAO and management accounts of its subsidiaries prepared according to local statutory requirements. The Group analyses equity and debt financing (see Notes 17 and 19 respectively). As at 31 December 2016 and 31 December 2015 the Group was in compliance with the gearing ratios imposed by loan agreements held with certain banks.

Group entities registered in the Russian Federation are individually subject to the following externally imposed capital requirements that are relevant for joint stock companies only:

- share capital cannot be lower than 1,000 minimum wages at the date of the company registration;
- if share capital is greater than its net assets, then share capital must be reduced to a value not exceeding net assets;
- if minimum allowed share capital is greater than net assets, then a liquidation procedure shall follow.

As at 31 December 2016, the Group entities registered in the Russian Federation were in compliance with the above capital requirements.

(e) Fair values

Fair value is determined either by reference to market or by discounting relevant cash flows using market interest rates for similar instruments. As a result of this exercise management believes that fair value of its financial assets and liabilities approximates their carrying amounts except for loans and borrowings. Fair value of loans and borrowings is disclosed in Note 19.

Financial assets and liabilities measured using a valuation technique based on assumptions that are supported by observable current market transactions and assets and liabilities for which pricing is obtained via pricing services. In case prices have not been determined in an active market, financial assets with fair values based on broker quotes, investments in private equity funds with fair values obtained via fund managers and assets that are valued using the Group's own models whereby the majority of assumptions are market observable. Non market observable inputs mean that fair values are determined in whole or partly using a valuation technique (model) based on assumptions that are neither supported by prices from observable current market transactions with the same instrument nor they are based on available market data. Main asset classes in this category are unlisted equity investments and debt instruments. Valuation techniques are used to the extent that observable inputs are not available, whereby allow situations in which there is little, if any, market activity for the financial instrument at the measurement date. Therefore, unobservable inputs reflect the Group's own assumptions about the assumptions that market participants would use in pricing of the financial instrument (including risk assumptions). These inputs are developed based on the best information available, which might include the Group's own data.

Determination of fair value and fair values hierarchy

The Group uses the following hierarchy to determine and disclose fair value of financial instruments:

- Level 1 – quoted (unadjusted) market prices in active markets for identical assets or liabilities.
- Level 2 – valuation techniques for which the lowest level input that is significant to the fair value measurement is directly or indirectly observable.
- Level 3 – valuation techniques for which the lowest level input that is significant to the fair value measurement is unobservable.

(in millions of RUR)

28. Financial instruments and financial risk factors (continued)

(e) Fair values (continued)

The following table shows an analysis of financial instruments by level of the fair value hierarchy:

At 31 December 2016	*Note*	*Total fair value*	*Fair value hierarchy*		
			Level 1	*Level 2*	*Level 3*
Financial assets					
Derivative financial instruments					
Electricity derivatives	11, 16	**72**	72	–	–
Available-for-sale financial assets					
Quoted investment securities	10	**6,104**	6,104	–	–
Held to maturity financial assets					
Bonds issued by financial institutions	16	**375**	375	–	–
Total financial assets		**6,551**	**6,551**	**–**	**–**
Financial liabilities					
Derivative financial instruments					
Electricity derivatives	20, 21	**3**	3	–	–
Interest rate SWAP	20, 21	**28**	–	28	–
Financial liabilities at amortised cost					
Loans and borrowings	19	**13,417**	–	13,417	–
Total financial liabilities		**13,448**	**3**	**13,445**	**–**

At 31 December 2015	*Note*	*Total fair value*	*Fair value hierarchy*		
			Level 1	*Level 2*	*Level 3*
Financial assets					
Derivative financial instruments					
Electricity derivatives	11, 16	**35**	35	–	–
Available-for-sale financial assets					
Quoted investment securities	10	**4,159**	4,159	–	–
Held to maturity financial assets					
Long-term bank deposits	11	**80**	–	–	80
Bonds issued by financial institutions	16	**313**	313	–	–
Total financial assets		**4,587**	**4,507**	**–**	**80**
Financial liabilities					
Derivative financial instruments					
Electricity derivatives	20, 21	**206**	206	–	–
Interest rate SWAP	20, 21	**50**	–	50	–
Financial liabilities at amortised cost					
Loans and borrowings	19	**68,196**	–	68,196	–
Total financial liabilities		**68,452**	**206**	**68,246**	**–**

(in millions of RUR)

28. Financial instruments and financial risk factors (continued)

(e) Fair values (continued)

At 1 January 2015	*Note*	*Total fair value*	*Fair value hierarchy* Level 1	*Level 2*	*Level 3*
Financial assets					
Derivative financial instruments					
Forward foreign exchange contracts	16	**317**	317	–	–
Foreign exchange SWAP	16	**82**	–	82	–
Electricity derivatives	11, 16	**2,282**	2,282	–	–
Available-for-sale financial assets					
Quoted investment securities		**5,806**	5,806	–	–
Held to maturity financial assets					
Long-term bank deposits	11	**69**	–	–	69
Bonds issued by financial institutions	16	**302**	302	–	–
Total financial assets		**8,858**	**8,707**	**82**	**69**
Financial liabilities					
Derivative financial instruments					
Electricity derivatives	20, 21	**2,183**	2,183	–	–
Interest rate SWAP	20, 21	**55**	–	55	–
Forward foreign exchange contracts	20	**1,370**	1,370	–	–
Financial liabilities at amortised cost					
Loans and borrowings	19	**98,454**	–	98,454	–
Total financial liabilities		**102,062**	**3,553**	**98,509**	**–**

29. Operating leases

Non-cancellable operating leases are payable as follows:

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Less than one year	1,377	1,467	1,262
Between one and five years	2,277	2,800	2,558
Over five years	9,921	11,983	10,586
Total	**13,575**	**16,250**	**14,406**

The above table includes the Group's lease agreements relating to land plots owned by local governments. Land lease payments are determined by lease agreements. Lease agreements are concluded for different periods. Part of the lease contracts are concluded annually with the right of future prolongation.

During the year ended 31 December 2016 operating lease expenses were recognised in the amount of RUR 1,960 million in the consolidated statement of comprehensive income (for the year ended 31 December 2015: RUR 1,787 million).

30. Commitments

Investment and capital commitments

In accordance with the memorandum signed between the Group and the Government of Georgia in March 2013, the Group has to invest in projects aimed to improve the electricity network which belongs to the Group entity JSC Telasi. In accordance with memorandum the investment commitments as at 31 December 2016 are as follows:

Year	*Investments, GEL, million*
2017	24
2018-2019	35
2020-2021	39
2022-2025	92

(in millions of RUR)

30. Commitments (continued)

Investment and capital commitments (continued)

As at 31 December 2016 realisation of investment commitments was in line with schedule for the year 2016. Exchange rate for Georgian lari to Russian rouble as at 31 December 2016 is set by National Bank of Georgia at GEL 4.29 for RUR 100.

As at 31 December 2016 capital commitments of subsidiaries of the Company, are as follows:

Subsidiary	***RUR, million***
JSC Inter RAO – Electric Power Plants	8,506
LLC Bashkir Generation Company	6,147
JSC TGK-11	250
JSC OmskRTS	90
Total	**14,993**

Capital commitments of JSC Inter RAO – Electric Power Plants as at 31 December 2016 are mainly for gas turbines and other equipment for Verkhnetagilskaya GRES (block 12) and for supply of equipment for Permskaya GRES.

Capital commitments of LLC Bashkir Generation Company mainly comprise of contractual obligations in favour of LLC Kaskad Energo on completion of the constraction of Zatonskaya TEC.

Capital commitments of JSC TGK-11 mainly comprise of contractual obligation to LLC CTG ECO on reconstruction of ash dump.

As at 31 December 2016 capital commitments of power generating units of JSC INTER RAO – Electric Power Plants are as follows:

Power generating units	***RUR, million***
Permskaya GRES	5,340
Verkhnetagilskaya GRES	2,224
Ivanovskie PGU	470
Kostromskaya GRES	286
Cherepetskaya GRES	141
Gusinoozerskaya GRES	45
Total	**8,506**

Guarantees

- In September 2015 the Group entered into a bank guarantee agreement with ING Bank Eurasia for the purpose of financial support of agreement between the Group and CELEC EP for construction of HPP “Toachi Pilaton” (Ecuador). As at 31 December 2016 the guarantees amounted to USD 24 million, or RUR 1,474 million at the Central Bank of the Russian Federation exchange rate as of 31 December 2016 with an interest rate of 1.6% per annum (as at 31 December 2015: USD 30 million, or RUR 2,192 million at the Central Bank of the Russian Federation exchange rate as of 31 December 2015 with an interest rate of 1.85% per annum). These guarantees will expire in December 2017.
- In January-September 2016 the Group entered into the new guarantee agreement with ING Bank Eurasia for the purpose of financial support of agreement between the Group and CELEC EP for construction of HPP “Machala” (Ecuador). As at 31 December 2016 the guarantee amounted to USD 32 million, or RUR 1,964 million at the Central Bank of the Russian Federation exchange rate as of 31 December 2016 with an interest rate of 1.7% per annum. The guarantee will expire in January 2018.
- In May 2016 the Group entered into the new guarantee agreement with State Corporation “Bank for Development and Foreign Economic Affairs (Vnesheconombank)” for the purpose of financial support of agreement between the Group and Empresa Importadora de Objetivos Electroenergeticos for capacity increase of TPP “East Havana” and TPP “Maximo Gomes” (Cuba). As at 31 December 2016 the guarantee amounted to EUR 7 million, or RUR 445 million at the Central Bank of the Russian Federation exchange rate as of 31 December 2016 with an interest rate of 1.05% per annum. The guarantee will expire in January 2024.

(in millions of RUR)

30. Commitments (continued)

Guarantees

- In August 2016 the Group entered into the guarantee agreement with ING Bank Eurasia for the purpose of financial support of the gas supplies between the Group and BOTAS Petroleum Pipeline Corporation (Republic of Turkey). As at 31 December 2016 the guarantee amounted to USD 53 million, or RUR 3,193 million at the Central Bank of the Russian Federation exchange rate as of 31 December 2016 with an interest rate of 1.25% per annum. The guarantee will expire in February 2017.
- In December 2010 the Group established together with General Electric and State Corporation Russian Technologies an associate entity, RUS Gas Turbines Holding B.V. The Group's share in the entity is 25%. The entity was established to participate in production and sales of high-performance industrial gas turbines in the Russian Federation. The Group carries certain financial obligations to finance the associate.

  In August 2012 the Group entered into the standby letter of credit with PJSC VTB Bank issued a standby letter of credit in favour of GE ENERGY HOLDINGS VOSTOK B.V. (Beneficiary) to the maximum aggregate amount of EUR 50 million in order to fulfill the Group's investment obligations related to the associate at an annual interest rate of 0.45%.

  As at 31 December 2016 the standby letter of credit outstanding amount was EUR 25 million, or RUR 1,592 million at the Central Bank of the Russian Federation exchange rate as of 31 December 2016 (as at 31 December 2015: EUR 29 million, or RUR 2,320 million at the Central Bank of the Russian Federation exchange rate as of 31 December 2015). The standby letter of credit expires in August 2020.
- Guarantees of the Group's share of the joint ventures contingent liabilities in the amount of RUR 1,136 million which are to be incurred jointly with other investors (as at 31 December 2015: RUR 1,453 million).

31. Contingencies

(a) Operating environment

The operations and earnings of Group entities continue, from time to time and in varying degrees, to be affected by political, legislative, fiscal and regulatory developments, including those related to environmental protection, in Russia, Georgia, Armenia, Moldavia (including Transdniestria Republic), Lithuania and Kazakhstan.

A significant drop in crude oil prices and a significant devaluation of the Russian rouble, as well as series of unilateral restrictive political and economic measures imposed on Russian Federation by several countries occurred in 2014, continued to have a negative impact on the economy of the Russian Federation, primary jurisdiction of the Group, in 2016. The combination of the above resulted in reduced access to capital, a higher cost of capital, increased inflation and uncertainty regarding economic growth in the Russian Federation, which could negatively affect the Group's future financial position, results of operations and business prospects. Management believes it is taking appropriate measures to support the sustainability of the Group's business in the current circumstances.

(b) Insurance

The unified corporate standards are established in the Group for insurance coverage, for insurance companies reliability requirements and insurance coverage procedures developed by Parent Company.

There are two types of insurance undertaken by the Group: obligatory (as required by the law or by agreement between parties) and voluntary.

Obligatory insurance includes public liability insurance of owners of dangerous facilities and public liability insurance of car owners. The Group is obligated to insure different types of property, plant and equipment under loan agreements provisions.

Voluntary insurance includes property insurance against certain risks and equipment breakdown insurance, vehicles insurance, insurance against construction and assembly risks, voluntary public liability insurance of owners of dangerous facilities against social and environmental harm risks. The Group also undertakes insurance of directors' and officials' of certain Group entities responsibilities to cover financial losses of third parties.

The Groups' assets are insured for its replacement value which is set by valuation reports for insurance purposes considering technical risks. Obligatory condition of the property insurance of foreign subsidiaries is the availability of reliable reinsurance protection, which is done by transferring part of the risk to the foreign reinsurers with high reliability ratings.

In order to optimise insurance protection management performs regular appraisal of efficiency of Group's insurance terms and rationale for new insurance products acquired.

(in millions of RUR)

31. Contingencies (continued)

(c) Litigation

Legal proceedings

In the normal course of business the Group is a party to legal actions and consequently had received a number of legal claims from customers with the likelihood of negative outcome for the Group as not probable, but only possible, and, consequently, no provision has been made in these financial statements:

	31 December 2016	***31 December 2015 (restated)***	***1 January 2015***
Subcontractors claims, including	6,464	2,733	671
joint ventures	*–*	*179*	*34*
Customer's complaints	145	103	79
	6,609	**2,836**	**750**

Other than those litigations which have been accrued in the provisions (Note 14) and disclosed above, management of the Group is unaware of any actual, pending or threatened claims as at the date of approval of these consolidated financial statements, which would have a material impact on the Group.

(d) Tax contingencies

The taxation systems in the Russian Federation and in other countries in which the Group operates are relatively new and characterised by frequent changes in legislation, official pronouncements and court decisions which are often unclear, contradictory and subject to varying interpretation by different tax authorities. Taxes are subject to review and investigation by a number of authorities, which have the authority to impose severe fines, penalties and interest charges.

A tax year remains open for review by the tax authorities during three to five subsequent calendar years; however, under certain circumstances a tax year may remain open longer.

In addition, tax and other legislation do not address specifically all the aspects of the Group's reorganisation related to reforming of the electric utilities industry in the Russian Federation. As such there may be tax and legal challenges to the various interpretations, transactions and resolutions that were a part of the reorganisation and reform process.

These circumstances may create tax risks in the Russian Federation and in the other countries in which the Group operates. Management believes that it has adequately provided for tax liabilities based on its interpretations of applicable relevant tax legislation, official pronouncements and court decisions.

However, the interpretations of the relevant authorities could differ and the effect on these consolidated financial statements, if the authorities were successful in enforcing their interpretations, could be significant.

The Parent Company and subsidiaries in the countries where they operate have various transactions with related parties. The pricing policy could give rise to transfer pricing risks. In management's opinion, the Group is in substantial compliance with the tax laws of the countries where Group entities operate. However, relevant authorities could take different positions with regard to interpretive issues or court practice could develop adversely with respect to the positions taken by the Group and the effect could be significant.

The Group includes a number of operating and investment companies located in a number of different tax jurisdictions across Europe and the CIS. Those entities are subject to a complex variety of tax regimes and the nature of current and past trading and investment activities exposes them to areas of tax legislation involving considerable judgement and, consequently, uncertainty. The Group estimates that possible claims in respect of certain open tax positions of Group entities as at 31 December 2016 would be successfully challenged in the amount of RUR 76 million (as at 31 December 2015: RUR 40 million).

The new Russian transfer pricing legislation, which came into force on 1 January 2012, allows the tax Russian authority to apply transfer pricing adjustments and impose additional profit tax liabilities in respect of all "controlled" transactions if the transaction price differs from the market level of prices. The list of "controlled" transactions includes transactions performed with related parties and certain types of cross-border transactions. For domestic transactions the transfer pricing rules apply only if the amount of all transaction with related party exceeds RUR 1 billion starting 2014 and thereafter. In cases where the domestic transaction resulted in an accrual of additional tax liabilities for one party, another party could correspondingly adjust its profit tax liabilities according to the special notification issued by the authorised body in due course.

(in millions of RUR)

31. Contingencies (continued)

(d) Tax contingencies (continued)

The current Russian transfer pricing rules have considerably increased the compliance burden for the taxpayers compared to the transfer pricing rules which were in effect before 2012 due to, inter alia, shifting the burden of proof from the Russian tax authorities to the taxpayers. These rules are applicable not only to the transactions taking place in 2012 but also to the prior transactions with related parties if related income and expenses were recognised in 2012. Special transfer pricing rules apply to transactions with securities and derivatives.

In 2016 the Group determined its tax liabilities arising from "controlled" transactions using actual transaction prices (or making appropriate transfer pricing adjustments (where applicable).

Due to the uncertainty and absence of current practice of application of the current Russian transfer pricing legislation the Russian tax authorities may challenge the level of prices applied by the Company under the "controlled" transactions and assess additional tax liabilities unless the Company is able to demonstrate the use of market prices with respect to the "controlled" transactions, and that there has been proper reporting to the Russian tax authorities, supported by appropriate available transfer pricing documentation.

(e) Environmental matters

Group entities operate in the electric power industry in the Russian Federation, Georgia, Armenia, Kazakhstan and Moldavia. The enforcement of environmental regulations in these countries is evolving and position of government authorities is continually being reconsidered. Group entities periodically evaluate their obligations under environmental regulations.

Potential liabilities might arise as a result of changes in legislation and regulation or civil litigation. The impact of these potential changes cannot be estimated but could be material. In the current enforcement climate under existing legislation, management believes that there are no significant liabilities for environmental damage, except restoration provision.

Restoration provision liabilities relate to reclamation of land plots, used for ash dumps by generating entities, which use coal for production purposes (see Note 21).

(f) Ownership of land

The current legislation in Georgia is unclear in relation to ownership issues with regard to land over which the Company's (JSC Telasi) equipment for the transmission of electricity is located. On further clarification of the law, it is possible that the Company may be required to acquire ownership over certain land plots or to pay rentals to other parties for their use. At the date of approval of these financial statements, management considers that it is not possible to quantify any additional expense, if any, which JSC Telasi might incur and consequently, no provision has been made against such potential liabilities in these financial statements.

32. Related party transactions

(a) Parent Company and control relationships

The Russian Federation is the ultimate controlling party of PJSC Inter RAO and has a controlling interest in the Company of over 50%. Details of operations with entities controlled by the Russian Federation are provided in Note 32 (d).

(b) Transactions with key management personnel

The members of the Management Board and Board of Directors of PJSC Inter RAO own 0.0145% of ordinary shares of PJSC Inter RAO as at 31 December 2016 (31 December 2015: 0.0137%).

(in millions of RUR)

32. Related party transactions (continued)

(b) Transactions with key management personnel (continued)

Compensation paid to key management and members of the Board of Directors for their service in that capacity is made up of contractual salary and performance bonuses. Key management and members of the Board of Directors received the following remuneration during the period, which is included in employee benefit expenses and payroll taxes (Note 25):

	Year ended 31 December 2016	*Year ended 31 December 2015*
Salaries and bonuses	984	849

Employee's Share Option Programme

In February 2016 the Company's Board of Directors approved Share Option Programme (hereinafter referred to as "the Programme") in which members of the Management Board and other key employees of the Group were to be participants (hereinafter referred to as "the Programme participants").

In July 2016 the basic conditions of the Programme have been communicated to key managers. The total number of shares participating in the Programme, is 2% of the share capital of the Parent company. The Programme participants can exercise the share option at any time from February 2018 to February 2020.

Changes in the amounts of options granted are described in the table below:

	All options granted under the Programme	*Attributed to members of the Management Board*
Number of options outstanding as at 31 December 2015	**–**	**–**
Options signed during the year ended 31 December 2016	2,088,000,000	657,720,000
Number of options outstanding as at 31 December 2016	**2,088,000,000**	**657,720,000**

Fair value of services received in return for share options granted to employees is measured by reference to fair value of the share options granted. The estimate of the fair value of the services received is measured based on the Binomial model.

	31 December 2016
Weighted average price (RUR)	2.8086
Expected volatility	42.50%
Option life, years	3.6
Risk-free interest rate	8.60%
Fair value of the option at measurement date (in RUR)	1.653330801

To determine volatility the Group used the historical volatility of the market prices of the Company's publicly traded shares. For the year ended 31 December 2016 the Group recognised a loss of RUR 2,524 million within employee benefit expenses in the consolidated statement of comprehensive income related to the fair value of the options agreements signed.

(c) Transactions with associates and joint ventures

Detailed list of the Group's joint ventures and associates is disclosed in Note 8. Sales to and purchases from joint ventures and associates are made at terms equivalent to those that prevail in arm's length transactions.

(in millions of RUR)

32. Related party transactions (continued)

(c) Transactions with associates and joint ventures (continued)

The Group's transactions with associates and joint ventures are disclosed below.

	Year ended 31 December 2016	*Year ended 31 December 2015 (restated)*
Revenue		
Joint ventures	694	991
Associates	9	–
Other operating income		
Joint ventures	5	8
Associates	1	–
Interest income		
Joint ventures	235	68
Associates	2	2
Dividend income		
Joint ventures	57	176
	1,003	**1,245**
Purchased power		
Joint ventures	1,323	102
Purchased capacity	1,071	1,104
Joint venture		
Other expenses		
Joint venture	53	620
Interest expenses		
Joint venture	1,447	293
	3,894	**2,119**
Capital expenditures		
Joint ventures	51	363

	31 December 2016	*31 December 2015*	*1 January 2015*
Accounts receivable			
Joint ventures	154	85	149
Associates	1	–	–
Loans issued			
Joint ventures	–	4,791	300
Associates	–	424	–
Accounts payable			
Joint ventures	96	127	253

(in millions of RUR)

32. Related party transactions (continued)

(d) Transactions with entities controlled by the Russian Federation

Sales to and purchases from entities controlled by the Russian Federation are made at terms equivalent to those that prevail in arm's length transactions.

Information on transactions with entities controlled by the Russian Federation is presented below:

	Year ended 31 December 2016	*Year ended 31 December 2015 (restated)*
Revenue		
Electricity and capacity	271,743	250,241
Other revenues	15,858	15,324
Other operating income	1,468	2,305
	289,069	**267,870**
Operating expenses		
Purchased power and capacity	74,826	73,601
Transmission fees	212,570	196,530
Fuel expense (gas)	94,321	48,158
Fuel expense (coal)	817	964
Other purchases	135	120
Other expenses	14,856	13,297
	397,525	**332,670**
Capital expenditures	**551**	**2,339**

	Year ended 31 December 2016	*Year ended 31 December 2015 (restated)*
Finance income/(expenses)		
Interest income	2,421	1,977
Other finance income	28	35
Interest expenses	(2,158)	(4,701)
	291	**(2,689)**

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Long-term accounts receivable			
Other account receivables	204	352	53
Less impairment provision	(23)	(35)	(38)
Other receivables – net	**181**	**317**	**15**
Short-term accounts receivable			
Trade accounts receivable, gross	34,769	28,107	23,885
Less impairment provision	(13,402)	(11,382)	(9,306)
Trade receivables – net	**21,367**	**16,725**	**14,579**
Advances issued	918	776	1,437
Advances issued for capital construction	52	1,019	301
Other receivables	1,596	3,091	2,673
	23,933	**21,611**	**18,990**

(in millions of RUR)

32. Related party transactions (continued)

(d) Transactions with entities controlled by the Russian Federation (continued)

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Accounts payable			
Trade accounts payable	21,812	24,816	25,492
Payables for capital construction	50	159	1,466
Other accounts payable	337	695	1,028
Advances received	13,723	7,017	7,285
	35,922	**32,687**	**35,271**

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Loans and borrowings			
Short-term loans and borrowings	210	13,258	26,853
Long-term loans and borrowings	–	8,456	20,770
Interest on loans and borrowings	1	1,771	249
	211	**23,485**	**47,872**

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Cash and cash equivalents	**6,342**	**2,809**	**9,332**

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Other current assets (bank deposits)	**11,771**	**14,161**	**16,997**

	Year ended 31 December 2016	*Year ended 31 December 2015 (restated)*
Financial transactions		
Loans and borrowings received	1,589	47,852
Loans and borrowings repaid	(23,102)	(74,621)
	(21,513)	**(26,769)**

In July 2011 subsidiary of PJSC Inter RAO entered into an agreement with a state-controlled company for sale of electric power under the “take-or-pay” arrangement through 30 June 2026. The sales to and purchases from enterprises controlled by the Russian Federation are made at terms equivalent to those that prevail in arm’s length transactions.

(in millions of RUR)

32. Related party transactions (continued)

(e) Transactions with other related parties

Sales to and purchases from other related parties are made at terms equivalent to those that prevail in arm's length transactions. Amounts of transactions with other related parties (except for those controlled by the Russian Federation, associates and joint ventures), for each of the reporting periods are provided below:

	Year ended 31 December 2016	*Year ended 31 December 2015*
Revenue		
Electricity and capacity	4,086	4,922
Dividends received	–	1,018
	4,086	**5,940**
Operating expenses		
Purchased electricity and capacity	3,854	3,865

	31 December 2016	*31 December 2015*	*1 January 2015*
Short-term accounts receivable			
Trade and other accounts receivable	630	362	248
Short-term accounts payable			
Trade and other accounts payable	259	96	134

	31 December 2016	*31 December 2015*	*1 January 2015*
Loans and borrowings payable			
Long-term loans and borrowings	–	4,044	9,033
Short-term loans and borrowings	825	3,810	3,560
	825	**7,854**	**12,593**

	31 December 2016	*31 December 2015 (restated)*	*1 January 2015 (restated)*
Cash and cash equivalents			
Cash in bank	28,665	7,812	13,910
Short-term bank deposits	6,080	3,335	7,788
	34,745	**11,147**	**21,698**

	Year ended 31 December 2016	*Year ended 31 December 2015*
Income and expenses		
Interest income	883	1,157
Interest expenses	(1,438)	(1,145)

(in millions of RUR)

33. Significant subsidiaries

Significant subsidiaries consolidated in the Group's consolidated financial statements are disclosed in the table below:

	Country of incorporation	*31 December 2016 ownership/ voting*	*31 December 2015 ownership/ voting (restated)*	*1 January 2015 ownership/ voting (restated)*
Trading entities				
RAO Nordic Oy[1]	Finland	100.00%	100.00%	100.00%
AB INTER RAO Lietuva[1]	Lithuania	51.00%	51.00%	51.00%
Distributing entities				
JSC Telasi	Georgia	75.11%	75.11%	75.11%
CJSC Elektricheskiye seti Armenii (Note 5)	Armenia	–	50.00%	100.00%
Supply entities				
PJSC Mosenergosbyt (group of companies) (Note 5)	The Russian Federation	93.99%	93.99%	50.92%
JSC Saint Petersburg Power Supply Company	The Russian Federation	100.00%	100.00%	100.00%
PJSC Tambov Energy Retailing Company	The Russian Federation	59.38%	59.38%	59.38%
PJSC Saratovenergo	The Russian Federation	56.97%	56.97%	56.97%
JSC Altayenergosbyt	The Russian Federation	100.00%	100.00%	100.00%
LLC RN – Energo	The Russian Federation	100.00%	100.00%	100.00%
PJSC Tomskenergosbyt (Note 5)	The Russian Federation	93.58%	89.42%	59.18%
LLC ESC Bashkortostan (Note 2, 5, 17)	The Russian Federation	100.00%	100.00%	100.00%
Generating entities				
Mtkvari Energy LLC	Georgia	–	100.00%	100.00%
CJSC Moldavskaya GRES	Moldavia, Transdniestria Republic	100.00%	100.00%	100.00%
JSC INTER RAO – Electric Power Plants	The Russian Federation	100.00%	100.00%	100.00%
JSC Khramhesi GES I	Georgia	100.00%	100.00%	100.00%
JSC Khramhesi GES II	Georgia	100.00%	100.00%	100.00%
JSC TGK-11 (group of companies)	The Russian Federation	100.00%	100.00%	100.00%
LLC Bashkir Generation Company	The Russian Federation	100.00%	100.00%	100.00%
LLC Bashkir Heat Distribution Grid	The Russian Federation	100.00%	100.00%	100.00%
JSC RazTES (Note 5)	Armenia	–	50.00%	100.00%
Trakya Elektrik Uterim Ve Ticaret A.S. (Note 5)	Turkey	100.00%	100.00%	100.00%
Other entities				
JSC Inter RAO Capital	The Russian Federation	100.00%	100.00%	100.00%
LLC INTER RAO – Procurement Centre	The Russian Federation	100.00%	100.00%	100.00%
JSC Eastern energy company	The Russian Federation	100.00%	100.00%	100.00%
JSC Electrolutch	The Russian Federation	100.00%	100.00%	100.00%
LLC Kvarz Group (Note 5)	The Russian Federation	100.00%	100.00%	100.00%
INTER RAO Credit B.V.	Netherlands	100.00%	100.00%	100.00%

[1] RAO Nordic Oy and AB INTER RAO Lietuva also act as holding companies for certain Group entities.

(in millions of RUR)

33. Significant subsidiaries (continued)

Non-controlling interests in subsidiaries

The following table summarises the information relating to each of the Group's subsidiaries that has material non-controlling interests, before any intra-group eliminations for the year ended 31 December 2016, including amounts related to both: shareholders and non-controlling interest:

	PJSC Mosenergosbyt (group of companies)	*AB INTER RAO Lietuva*	*JSC Telasi*	*PJSC Tambov Energy Retailing Company*	*PJSC Saratovenergo*	*PJSC Tomsk-energosbyt*	*Other individually immaterial subsidiaries*	*Total*
Non-controlling interest (percentage)	**6.01%**	**49.00%**	**24.89%**	**40.62%**	**43.03%**	**6.42%**		
Non-current assets	8,548	762	4,691	149	92	641	1,180	**16,063**
Current assets	38,941	1,295	1,948	585	2,196	2,163	820	**47,948**
Non-current liabilities	(368)	(1)	(548)	(20)	(136)	–	(761)	**(1,834)**
Current liabilities	(38,294)	(999)	(2,635)	(537)	(3,125)	(1,998)	(712)	**(48,300)**
Net assets	**8,827**	**1,057**	**3,456**	**177**	**(973)**	**806**	**527**	**13,877**
Carrying amount of non-controlling interest at 31 December 2016	**(565)**	**(518)**	**(1,035)**	**(73)**	**174**	**(52)**	**(122)**	**(2,191)**
Revenue	293,908	10,276	11,549	5,105	18,383	13,554	5,164	**357,939**
Profit/(loss) for the period	111	715	1,103	(2)	(274)	4	54	**1,711**
Total comprehensive income/(loss) for the year ended 31 December 2016	**136**	**715**	**1,100**	**1**	**(274)**	**4**	**55**	**1,737**
Profit/(loss) allocated to non-controlling interest	**18**	**351**	**276**	**(1)**	**(118)**	**–**	**25**	**551**
Cash flows from operating activities	(2,746)	832	1,141	(85)	828	496	57	**523**
Cash flows used for investing activities	16,382	–	(824)	1	(56)	(109)	68	**15,462**
Cash flows used for financing activities before dividends to non-controlling interest	(2,935)	(1,576)	(166)	(7)	(755)	(50)	(321)	**(5,810)**
Net increase/(decrease) in cash and cash equivalents for the year ended 31 December 2016	**10,701**	**(744)**	**151**	**(91)**	**17**	**337**	**(196)**	**10,175**
Cash flows used for financing activities – cash dividends to non-controlling interest	–	(239)	–	–	–	–	–	**(239)**

(in millions of RUR)

33. Significant subsidiaries (continued)

Non-controlling interests in subsidiaries (continued)

The following table summarises the information relating to each of the Group's subsidiaries that has material non-controlling interests, before any intra-group eliminations for the year ended 31 December 2015, including amounts related to both: shareholders and non-controlling interest:

	PJSC Mosenergosbyt (group of companies)	*AB INTER RAO Lietuva*	*JSC Telasi*	*PJSC Tambov Energy Retailing Company*	*PJSC Saratovenergo*	*PJSC Tomsk-energosbyt*	*Other individually immaterial subsidiaries*	*Total*
Non-controlling interest (percentage)	**6.01%**	**49.00%**	**24.89%**	**40.62%**	**43.03%**	**10.58%**		
Non-current assets	6,995	980	5,649	163	54	904	1,818	**16,563**
Current assets	38,765	2,658	2,371	679	2,590	1,447	1,097	**49,607**
Non-current liabilities	(672)	(13)	(967)	(20)	(180)	–	(1,190)	**(3,042)**
Current liabilities	(36,406)	(1,847)	(3,625)	(646)	(3,162)	(1,548)	(914)	**(48,148)**
Net assets	**8,682**	**1,778**	**3,428**	**176**	**(698)**	**803**	**811**	**14,980**
Carrying amount of non-controlling interest at 31 December 2015	**(556)**	**(871)**	**(1,028)**	**(72)**	**56**	**(85)**	**(149)**	**(2,705)**
Revenue	268,085	10,673	8,704	4,574	16,909	12,893	6,841	**328,679**
Profit/(loss) for the period	1,048	1,111	184	(2)	213	809	158	**3,521**
Total comprehensive income for the year ended 31 December 2015	**1,003**	**1,111**	**190**	**–**	**214**	**809**	**158**	**3,485**
Profit allocated to non-controlling interest	**131**	**545**	**46**	**7**	**91**	**327**	**74**	**1,221**
Cash flows from operating activities	6,559	1,042	1,067	100	(243)	310	288	**9,123**
Cash flows used for investing activities	(15,439)	4	(824)	6	(5)	(102)	11	**(16,349)**
Cash flows used for financing activities before dividends to non-controlling interest	(605)	(547)	(808)	–	249	(7)	(258)	**(1,976)**
Net (decrease)/increase in cash and cash equivalents for the year ended 31 December 2015	**(9,485)**	**499**	**(565)**	**106**	**1**	**201**	**41**	**(9,202)**
Cash flows used for financing activities – cash dividends to non-controlling interest	(15)	(153)	(59)	–	–	–	–	**(227)**

(in millions of RUR)

34. Events after the reporting period

In June 2016 annual shareholders meeting of PJSC Mosenergosbyt decided to increase the Company’s share capital through private subscription placement of the Company’s common shares. In February 2017 the Group participated in PJSC Mosenergosbyt shares placement. The state registration of placement results report and changes to the Charter including changes to the share capital value and the number of authorized share is expected in March 2017.

Other

In January 2016 Moody’s Investors Service has upgraded the Group corporate family rating to Ba1 on the global scale, with the outlook installed in accordance with the forecast of the sovereign rating of the Russian Federation. The rating upgrade reflects the company's track record of reporting consistently strong credit metrics, diversified business profile and positive changes in the electricity market structure of the Russian Federation in the past year.