

# **Year-end report**

### January-December 2016

- Net sales of SEK 152,667 million (164,510) for Total Vattenfall<sup>1</sup>, of which SEK 139,208 million (143,576) for continuing operations
- Underlying operating profit<sup>2,3</sup> of SEK 21,693 million (20,541) for Total Vattenfall<sup>1</sup>, of which SEK 21,697 million (20,529) for continuing operations
- Operating profit<sup>3</sup> of SEK -21,205 million (-22,967) for Total Vattenfall<sup>1</sup>, of which SEK 1,337 million (-5,069) for continuing operations
- Profit for the year of SEK -26,004 million (-19,766) for Total Vattenfall<sup>1</sup>, of which SEK -2,171 million (-5,188) for continuing operations
- Electricity generation of 159.8 TWh (172.7) for Total Vattenfall<sup>1</sup>, of which 119.0 TWh (118.0) for continuing operations

### October-December 2016

- Net sales of SEK 37,913 million (45,499) for Total Vattenfall<sup>1</sup>, of which SEK 37,796 million (42,368) for continuing operations
- Underlying operating profit<sup>2,3</sup> of SEK 6,943 million (6,449) for Total Vattenfall<sup>1</sup>, of which SEK 7,095 million (6,407) for continuing operations
- Operating profit<sup>3</sup> of SEK -3,021 million (3,690) for Total Vattenfall<sup>1</sup>, of which SEK -2,841 million (3,641) for continuing operations
- Profit for the period of SEK -4,152 million (2,460) for Total Vattenfall<sup>1</sup>, of which SEK -3,960 million (4,550) for continuing operations
- Electricity generation of 32.5 TWh (45.5) for Total Vattenfall<sup>1</sup>, of which 32.6 TWh (32.5) for continuing operations

The financial performance that is reported and commented on in this year-end report pertains to Vattenfall's continuing operations, unless indicated otherwise. In view of the divestment of Vattenfall's lignite operations, these are classified and reported as a discontinued operation, see Note 4 on page 37. Text shadowed in light blue pertains to the divestment of Vattenfall's lignite operations.

Rounding differences may occur in this document.

Total Vattenfall, including lignite operations.

Underlying operating profit is defined as operating profit excluding items affecting comparability. For a specification of items affecting comparability, see page 10. See Definitions and calculations of key ratios for definitions of Alternative Performance Measures.



### CEO's comments

"We entered 2016 with a number of fundamental issues that needed to be resolved in order to support the transition of the energy system and to shape a Vattenfall that is ready to take on the future. Looking back, we can conclude that significant progress has been made with a positive outcome for the company and our customers and, not least, reduced risk. Vattenfall has taken key steps to adapt the portfolio in the right direction by divesting the lignite operations and focus on growth in wind power and other business opportunities that support the energy transition. The Swedish energy policy agreement will provide greater clarity and a basis for necessary investments and long-term planning in the country's energy sector. We welcome the commitment to a fossil free future and the acknowledgement of the importance of existing nuclear and hydro power. In Germany we have achieved clarity on the responsibility for handling nuclear waste disposal. The nuclear law that was approved by the German parliament in December provides the framework for how the responsibility for intermediate and long-term storage will be transferred from nuclear operators to the government, in exchange for the nuclear power operators financing a fund to pay for the costs.

Despite a number of positive developments, the electricity business situation remains tough with low prices and continued over capacity. The entire electricity sector is under price pressure which resulted in significant impairment losses in 2016 which the majority were already announced in the second quarter. Profit for the year totalled SEK -2.2 billion for continuing operations and SEK -26 billion for Total Vattenfall, including the lignite operations.

In terms of our continuing operations we are beginning to see some positive financial result development in line with our strategic direction. In 2016 the underlying operating profit for continuing operations was SEK 21.7 billion, which is an increase of SEK 1.2 billion compared with 2015. Our focus on reducing costs was a key contributing factor, together with strong earnings performance by our Heat and Customers & Solutions business areas. Increased focus on sales also contributed to growth of our customer base by approximately 200,000 contracts in 2016.

Improved regulatory certainty combined with more stable financial conditions provide us with the financial flexibility we need to invest for the future. Vattenfall has decided to invest in lifetime extensions through independent core cooling in the reactors at Forsmark and is investigating the prospects for Ringhals reactors 3 and 4. As part of our modernisation programme in hydro power we also completed a major refurbishment and expansion of the Akkats hydro power plant near Jokkmokk, Sweden. We are investing in significant quality upgrades of our distribution network and in wind power growth. Recently Vattenfall secured several offshore wind projects in a competitive market, through greater efficiency and cost optimisation that will ensure long-term project profitability. As a final point I am excited to say that we are investing in new areas such as solar PV, battery storage, micro grids and e-mobility which all contribute to providing innovative and sustainable energy solutions for our customers.

I believe that through continuing our strong growth in renewables, improving our customers' experiences, developing decentralised electricity and heat solutions, enhancing our digitalisation expertise, reducing our climate impact, and increasing cost-efficiency in our core operations, we will create exciting future opportunities."

Magnus Hall

President and CEO



### Key data

| Amounts in SEK million unless indicated otherwise  | Q4<br>2016            | Q4<br>2015          | Full year<br>2016   | Full year<br>2015   |
|--|-----------------------|---------------------|---------------------|---------------------|
| Continuing operations  | 2010                  | 2010                | 2010                | 2010                |
| Net sales  | 37 796                | 42 368              | 139 208             | 143 576             |
| Operating profit before depreciation, amortisation and impairment losses (EBITDA) <sup>1</sup> | 3 313                 | 7 729               | 27 209              | 30 604              |
| Underlying operating profit before depreciation, amortisation and impairment losses (EBT/B/V)  | 10 880                | 10 222              | 36 144              | 35 229              |
| Operating profit (EBIT) <sup>1</sup>   | -2 841                | 3 641               | 1 337               | -5 069              |
| Underlying operating profit <sup>1</sup>   | 7 095                 | 6 407               | 21 697              | 20 529              |
| Profit for the period  | -3 960                | 4 550               | -2 171              | -5 188              |
| Funds from operations (FFO) <sup>1,2</sup>   | 7 157                 | 9 362               | 28 186              | 29 009              |
| Net debt <sup>1</sup>  | 50 724                | 64 201              | 50 724              | 64 201              |
| Adjusted net debt <sup>1</sup>   | 124 741               | 137 585             | 124 741             | 137 585             |
| Electricity generation, TWh  | 32.6                  | 32.5 <sup>3</sup>   | 119.0               | 118.0 <sup>3</sup>  |
| - of which, hydro power  | 7.9                   | 10.6                | 34.8                | 39.5                |
| - of which, nuclear power  | 13.1                  | 11.2                | 46.9                | 42.2                |
| - of which, fossil-based power <sup>4</sup>  | 9.5                   | 7.8 <sup>3</sup>    | 30.8                | 29.0 <sup>3</sup>   |
| of which, wind power   | 1.9                   | 2.0                 | 5.8                 | 5.8                 |
| of which, biomass, waste <sup>4</sup>  | 0.2                   | $0.9^{3}$           | 0.7                 | 1.5 <sup>3</sup>    |
| Sales of electricity, TWh <sup>5</sup>   | 40.7                  | 51.8                | 193.2               | 197.2               |
| Sales of heat, TWh   | 7.6                   | 6.1 <sup>3</sup>    | 20.3                | 20.6 <sup>3</sup>   |
| Sales of gas, TWh  | 18.3                  | 15.0                | 53.1                | 50.7                |
| CO <sub>2</sub> emissions, Mtonnes   | 7.4 <sup>7</sup>      | 6.9                 | 23.1                | 23.6                |
| Work related accidents, number (LTIF) <sup>6</sup>   | 2.0                   | 2.3                 | 2.0                 | 2.3                 |
| Total Vattenfall   |                       |                     |                     |                     |
| Number of employees, full-time equivalents   | 19 935                | 28 567 <sup>8</sup> | 19 935              | 28 567 <sup>8</sup> |
| Key ratios   |                       |                     |                     |                     |
| Return on capital employed, continuing operations, %   | 0.5 <sup>9,10</sup>   | - 1.8 <sup>9</sup>  | 0.5 <sup>10</sup>   | - 1.8               |
| Return on capital employed, total Vattenfall, %  | - 8.5 <sup>9,10</sup> | - 8.2 <sup>9</sup>  | - 8.5 <sup>10</sup> | - 8.2               |
| Net debt/equity, %   | 60.5                  | 55.4                | 60.5                | 55.4                |
| FFO/adjusted net debt, continuing operations, %  | 21.6 <sup>9</sup>     | 19.5 <sup>9</sup>   | 21.6                | 19.5                |
| FFO/adjusted net debt, total Vattenfall, %   | 22.6 <sup>9,11</sup>  | 21.1 <sup>9</sup>   | 22.6 <sup>11</sup>  | 21.1                |
| Adjusted net debt/EBITDA, continuing operations, times   | 4.6 <sup>9</sup>      | 4.5 <sup>9</sup>    | 4.6                 | 4.5                 |
| Adjusted net debt/EBITDA, total Vattenfall, times  | 4.4 <sup>9,11</sup>   | 4.2 <sup>9</sup>    | 4.4 <sup>11</sup>   | 4.2                 |

- See Definitions and calculations of key ratios for definitions of Alternative Performance Measure.
- Pertains to Total Vattenfall, including the lignite operations.
- The value has been adjusted compared with the value presented in Vattenfall's 2015 year-end report.
- Values for 2016 are preliminary.
- Sales of electricity also include bilateral sales to Nordpool.

  Lost Time Injury Frequency (LTIF) is expressed in terms of the number of lost time work injuries (per 1 million hours worked), i.e., work related accidents resulting in absence longer than one day, and accidents resulting in fatality. Pertains only to Vattenfall employees and is based on last 12-month values.

  Consolidated values for 2016. Consolidated emissions are approximately 0.5% higher than pro rata emissions, corresponding to Vattenfall's share of ownership.
- 6,802 FTEs pertain to the lignite operations.
- Last 12-month values.
- 10) The key ratio is based on average capital employed. The lignite operations were classified as assets held for sale on the balance sheet as per 30 June 2016,
- which entails that the calculation of average capital employed excludes the lignite operations as from 30 June 2016.

  11) The lignite operations were classified as assets held for sale on the balance sheet as per 30 June 2016. As a result, the lignite operations are excluded from balance sheet items included in the calculations of key ratios as from 30 June 2016.



### Liability for nuclear waste costs in Germany

#### Introduction

In 2016 the German federal cabinet approved a draft law under which the country's nuclear power operators will shift their liability for the transport, intermediate and final storage of nuclear waste to the state through payment of a total of EUR 23.6 billion into a public fund.

#### **Process**

During the summer of 2015 the German government, with the support of an independent expert, began a stress test of the nuclear power operators' provisions for their obligations for the future dismantling of nuclear power in Germany. In October 2015, the German government published the review report on nuclear power provisions in Germany that the auditing firm Warth & Klein Grant Thornton AG produced under commission by the German government. In a press release the German government affirmed that the nuclear power operators have made sufficient provisions to cover all costs. In addition, the government did not find any reasons to object to the nuclear power operators' principles for calculating their provisions. However, the government decided to appoint a commission to review how the funding of nuclear power dismantling costs in Germany can be ensured.

On 27 April 2016 the commission presented its recommendations for the division of responsibility for dismantling nuclear power in Germany. According to these, the liability for intermediate and final storage of radioactive waste shall be transferred to the German state along with the necessary funds. The nuclear power operators will still bear responsibility for decommissioning and dismantling the reactors as well as packaging the radioactive waste. The German law on nuclear waste was passed by Germany's parliament in December 2016. Approval must still be obtained from the EU and is expected to be received in early 2017

The legislative change means that the nuclear power operators are to transfer a total of EUR 17,389 million to a special fund. In addition, a risk premium of 35.47%, or EUR 6.2 billion, may be payable to cover risks for any future costs for intermediate and final storage of radioactive waste.

### Financial consequences for Vattenfall

The base amount for Vattenfall to pay to the fund amounts to SEK 12.3 billion (EUR 1.3 billion). Together with the risk premium of 35.47% and six months' interest payments at an annualised rate of 4.58% to be paid by law, Vattenfall will transfer a total of SEK 17.0 billion (EUR 1.8 billion). This also entails that the duration of remaining nuclear power provisions in Germany is calculated to be approximately 15 years, which changes the discount rate. A new discount rate of 1.75% is used for the remaining nuclear power provisions.

#### Total effect on Vattenfall's earnings

The earnings effect related to the risk premium of 35.47% including interest payments amount to SEK -5.4 billion (including 100% of Brunsbüttel). In addition higher provisions for decommissioning, dismantling and packaging the nuclear waste as a result of lower discount rate applied due to the shorter duration of the obligations were almost fully offset by lower anticipated cost for decommissioning and dismantling, SEK -0.2 billion, net. In total the earnings effect for Vattenfall in the fourth quarter of 2016 amounts to SEK -5.6 billion.

### Effect on adjusted net debt

On a pro rata basis (corresponding to Vattenfall's share of ownership), Vattenfall's adjusted net debt has increased by SEK 5.0 billion as a result of the higher provisions, of which SEK 4.7 billion relates to the risk premium including interest. A lower discount rate and lower anticipated costs as described above resulted in a delta of SEK 0.3 billion.

#### Impact on Vattenfall's future earnings

For Vattenfall this change in law entails that the financial uncertainty over future cost increases for intermediate and final storage of radioactive waste disappear.



### Targets and target achievement

(The financial and strategic targets are reported for both continuing operations and Total Vattenfall)

### Strategic targets

Vattenfall aims to contribute to a sustainable energy system across the value chain and be a truly customer-centric company. At the same time, Vattenfall is working to shift to a long-term sustainable production portfolio. Vattenfall's strategy is built upon four strategic objectives: 1) Leading towards sustainable consumption, 2) Leading towards sustainable production, 3) High performing operations, and 4) Empowered and engaged organisation. The strategic targets apply as from January 2016.

|   | Target<br>2020                | Full year<br>2016 | Full year<br>2015 |
|---|-------------------------------|-------------------|-------------------|
| Customer loyalty, NPS (Net Promoter Score)                          | + 2 NPS relative <sup>1</sup> | +7                | _                 |
| Commissioned renewables capacity accumulated from 2016              | ≥ 2,300 MW <sup>2</sup>       | 297               | 375               |
| Absolute CO <sub>2</sub> emissions, pro rata, continuing operations | ≤ 21 Mtonnes                  | 23.1 <sup>3</sup> | 23.6              |
| Absolute CO <sub>2</sub> emissions, pro rata, total Vattenfall      |                               | 67.6 <sup>3</sup> | 83.8              |
| Return on capital employed (ROCE), continuing operations            | 9%                            | 0.5 4             | -1.8              |
| Return on capital employed (ROCE), total Vattenfall                 | 9%                            | -8.5 <sup>4</sup> | -8.2              |
| LTIF <sup>5</sup> (Lost Time Injury Frequency)                      | ≤ 1.25                        | 2.0               | 2.3               |
| Employee Engagement Index   | ≥ 70% <sup>6</sup>            | 57                | 59                |
|   |                               |                   | ,                 |

- 1) NPS is a tool for measuring customer loyalty and for gaining an understanding of customers' perceptions of Vattenfall's products and services. The target is a positive NPS in absolute terms +2 compared to Vattenfall's peer competitors. NPS is a new strategic target that is measured on a yearly basis.
- Pertains only to completed and commissioned wind farms as per 31 December 2016.
- Consolidated values for 2016. Consolidated emissions are approximately 0.5% higher than pro rata values, corresponding to Vattenfall's share of ownership.
- The key ratio is based on average capital employed. The lignite operations were classified as assets held for sale on the balance sheet as per 30 June 2016, which entails that the calculation of average capital employed excludes the lignite operations as from 30 June 2016.
- Lost Time Injury Frequency (LTIF) is expressed in terms of the number of lost time work injuries (per 1 million hours worked), i.e., work related accidents resulting in absence longer than one day, and accidents resulting in fatality. The ratio pertains only to Vattenfall employees and is based on last 12-month values. Documentation for measurement of target achievement is derived from the results of the My Opinion employee survey, which is conducted on an annual basis.

Comment: The Customers & Solutions operating segment continued its positive trend in NPS in 2016 with improvement in the end customer market in all four core markets, Sweden, Finland, Germany and the Netherlands. A total of 297 MW of new, renewable capacity was installed in 2016. New capacity is being added with the German offshore wind farm Sandbank (216 MW of a total of 288 MW), the Swedish onshore wind farms Högabjär (38 MW) and Höge Väg (38 MW) and the 5 MW of solar energy adjacent to Vattenfall's Parc Cynog onshore wind farm in Wales. CO<sub>2</sub> emissions in 2016 for continuing operations were slightly lower than in 2015. Lost Time Injury Frequency (LTIF) was lower compared with the preceding year. The My Opinion light version in 2016 showed a lower engagement score. The next full scale My Opinion survey will start in Q3 2017.

### Financial targets

The financial targets relate to profitability, capital structure and the dividend policy, and were set by the owner in November 2012. These targets are intended to ensure that Vattenfall creates value and generates a market rate of return that the capital structure is efficient, and that financial risk is kept at a reasonable level. The targets are to be evaluated over a business cycle.

|  | Target                                 | Full year<br>2016 | Full year<br>2015 |
|--|--|-------------------|-------------------|
| Return on capital employed (ROCE), continuing operations | 9%                                     | 0.5               | -1.8              |
| Return on capital employed (ROCE), total Vattenfall      | 9%                                     | -8.5 <sup>1</sup> | -8.2              |
| FFO/adjusted net debt, continuing operations             | 22%-30%                                | 21.6              | 19.5              |
| FFO/adjusted net debt, total Vattenfall                  | 22%-30%                                | 22.62             | 21.1              |
| Net debt/equity  | 50%-90%                                | 60.5              | 55.4              |
| Dividend policy  | 40%-60% of the year's profit after tax | _                 |                   |
|  |  |                   |                   |

The key ratio is based on average capital employed. The lignite operations were classified as assets held for sale on the balance sheet as per 30 June 2016, which entails that the calculation of average capital employed excludes the lignite operations as from 30 June 2016.

Comment: Return on capital employed has been negatively affected by the recognition of impaired asset values. Excluding impairment losses and other items affecting comparability, return on capital employed was 8.7% (7.4%) for Total Vattenfall and 8.7% (7.3%) for continuing operations. FFO/adjusted net debt increased compared to 2015 and was 22.6% (21.1%) for Total Vattenfall. For continuing operations FFO/adjusted net debt was 21.6% (19.5%). Adjusted net debt decreased, mainly due to the lower net debt, at the same as the FFO decreased slightly. The debt/equity ratio is still within the target interval but increased slightly compared to 2015, mainly due to the negative result of the year. Due to the negative profit for the year, the Board of Directors has proposed – in accordance with Vattenfall's dividend policy – that no dividend be paid for 2016.

The lignite operations were classified as assets held for sale on the balance sheet as per 30 June 2016. As a result, the lignite operations are excluded from balance sheet items included in the calculations of key ratios as from 30 June 2016.



### **Important events 2016**

### Q1

### Sale of Netzservice/Metering in Hamburg

In January Vattenfall completed the sale of its network services operation in Hamburg, Germany. The sale generated a capital gain of SEK 1.2 billion.

### Secure supply of district heating in Hamburg

Vattenfall decided to invest EUR 83.5 million in the refurbishment of a combined heat and power (CHP) plant in the Wedel district of western Hamburg to secure the city's supply of heat for the coming years. In parallel with this, Vattenfall and the City of Hamburg are working together to achieve climate neutrality in Hamburg's heat operations by 2050.

### Planning process for two large wind farms in the UK

Vattenfall commenced the planning process for two wind farms in the UK (Norfolk Vanguard and Norfolk Boreas). Once an investment decision has been made, the two projects will gain combined installed capacity of 3.6 GW, corresponding to the electricity needs of more than 2.6 million British households.

#### Construction of first solar farm completed

Vattenfall's first large-scale solar farm (5 MW), adjacent to the Parc Cynog wind farm in Wales, was completed and began generating electricity at the end of March. The solar farm has the capacity to generate 5.5 GWh of electricity per year, corresponding to the annual consumption of 1,440 average British households. The total investment amounted to approximately SEK 50 million.

### Vattenfall, SSAB and LKAB in joint industrial development project

In partnership with the steel company SSAB and the minerals group LKAB, Vattenfall initiated preliminary studies into the possibility of replacing coal with hydrogen gas in steelmaking processes in the aim of making Sweden's iron and steel manufacturing entirely carbon dioxide—free.

### Q2

### Sale of German lignite operations

Vattenfall signed an agreement to sell its lignite operations in Germany to the Czech energy company EPH and its financial partner PPF Investments. Vattenfall's owner, the Swedish state, confirmed its support of the sale. Vattenfall completed the sale in September after receiving clearance from the European Commission.

### Impairment losses

Vattenfall recognised impairment losses totalling SEK 30.0 billion, of which SEK 21.0 billion is attributable to Vattenfall's lignite operations, which starting with the second quarter are classified and reported as "Discontinued operations".

### Multi-billion kronor investment in Uppsala to reduce CO2 emissions

Vattenfall decided to proceed with project planning for a new heating plant in Uppsala that will replace peat and oil with renewable biomass, which will reduce CO<sub>2</sub> emissions in Uppsala by 210,000 tonnes. The aim is to make a definitive investment decision in 2018.

### Construction of Horns Rev 3 offshore wind farm

During the quarter construction was started of the Horns Rev offshore wind farm (407 MW), off Denmark's west coast. Horns Rev 3 will be commissioned in 2019/20 and will supply enough electricity to power 425,000 Danish homes. The total investment will be just over DKK 7.5 billion (corresponding to approximately SEK 9.6 billion).

### Offshore wind farm extension inaugurated in the UK

On 6 June the extension of the Kentish Flats offshore wind farm (combined 150 MW) in the UK was inaugurated. The extension, comprising an additional 15 wind turbines (50 MW), became operational at the end of 2015.

### SKB meets radiation protection requirements for final repository method according to SSM

In a statement to Sweden's land and environmental court, the Swedish Radiation Safety Authority (SSM) stated that the system for final storage of spent nuclear fuel chosen by SKB (the Swedish Nuclear Fuel and Waste Company) meets existing radiation protection requirements. SKB filed an application in 2011 for permission to build the final repository for spent nuclear fuel in Forsmark, in Östhammar municipality. The application also included an encapsulation facility. In 2017 SSM will give its final assessment to the Swedish government, which will decide if the repository may be built or not. If construction starts as planned in 2019, the repository can be put into operation in 2027.



#### Gradual phase-out of tax on nuclear and lower tax on hydro power generation in Sweden

On 10 June a parliamentary agreement on the future direction of Swedish energy policy was reached, with the ambition to create a 100% renewable energy system for the future. The agreement entails a gradual phase-out of the nuclear capacity tax over a two-year period, starting in 2017. The agreement also entails that the property tax on hydro power will be successively lowered during a four-year period starting in 2017, from 2.8% to 0.5%.

#### Vattenfall decides on investment in Forsmark

Following the government's decision to phase out the nuclear capacity tax pursuant to the energy policy agreement, Vattenfall's board of directors decided to invest in independent core cooling in Forsmark's three nuclear reactors. A decision was also made by Forsmark Kraftgrupp AB's board of directors, after which implementation can begin.

### Q3

#### Decision to invest in offshore wind farm off the coast of Aberdeen

Vattenfall decided to invest approximately GBP 335 million (corresponding to approximately SEK 3.7 billion) in an offshore wind farm (92 MW) off the coast of Aberdeen, Scotland. The wind farm is expected to be operational in 2018.

#### Acquisition of offshore wind project in Germany

Vattenfall acquired a German offshore wind project in the North Sea (known as the Global Tech II Offshore Wind Project), with the ultimate goal of building up to 79 wind turbines. Vattenfall's goal is to further develop and prepare the project, and make it competitive in the tendering process for subsidies and permits for offshore projects, which is expected to be initiated in spring 2017.

### Sandbank supplies its first power

Vattenfall's Sandbank (288 MW) offshore wind farm in Germany began generating its first electricity in September, with fewer than half of all turbines installed. The wind farm delivered at full capacity in early 2017.

### Winning bid for Danish wind power

Vattenfall won a tender to build two near shore wind farms at two sites off the west coast of Jutland, in Denmark. Vattenfall's plan is to build two wind farms with combined capacity of 350 MW, corresponding to the electricity consumption of 375,000 Danish households.

### Decision to phase-out coal at combined heat and power plant in Berlin

Vattenfall decided to replace coal with natural gas at the Klingenberg combined heat and power plant in Berlin three years ahead of plan, which will result in a reduction of CO<sub>2</sub> emissions by 600,000 tonnes per year. The change will entail a total investment of approximately EUR 100 million (corresponding to approximately SEK 1 billion).

### Application for re-extension of grid concession in Berlin

At the end of August Vattenfall submitted an application for a re-extension of its grid concession in Berlin. In October 2015 Berlin's Senate Administration for Finance decided to resume the tendering process after it had been suspended in 2014.

### Q4

### SSM presents proposal for changed calculation of nuclear waste fees in Sweden

In a statement to the government, the Swedish Radiation Safety Authority (SSM) proposed that the nuclear waste fee for nuclear reactors shall be calculated on the basis of an operating lifetime of 50 years instead of 40 years, as currently. The government will decide on the fees for 2018-2020 during the autumn of 2017.

### Approved draft law for nuclear waste fund in Germany

On 19 October the German federal cabinet approved a draft law for nuclear waste fund in Germany. In December, the law was passed by Germany's parliament. Approval from the EU remains and is expected to be received in early 2017.

### Ruling handed down by German Federal Constitutional Court

The ruling handed down by the German Federal Constitutional Court affirms that Germany's decision on the immediate shutdown of the nuclear power plants operated by Vattenfall, without compensation, was not in compliance with German law. No decision has been made yet on the amount, type and time of compensation for Vattenfall. The closure of nuclear power as such has not been considered to be contrary to German law. Vattenfall will pursue the process at the International Centre for Settlement of Investment Disputes (ICSID) in Washington, D.C., where Vattenfall's right to compensation will be established. A decision is expected by summer 2017.

### Launch of inCharge – a partner-based charging network

In early November, the inCharge charging network was launched, which Vattenfall is building together with a number of partners in Sweden and northern Europe. The network will include thousands of charging stations and will make it easy for businesses, local authorities and local power companies to offer electric car charging.



### Winning bid to build Denmark's largest offshore wind farm

Vattenfall won the tender to build the Kriegers Flak offshore wind farm (600 MW) in Denmark. Once operational, Kriegers Flak will supply 600,000 Danish households with electricity. The total investment sum is approximately DKK 7.4-9.4 billion, pending a final investment decision by the company's board of directors.

### New head appointed for Markets Business Area

Anna Borg was appointed Senior Vice President of Vattenfall's Markets Business Area. She is currently Senior Vice President and head of Klarna's commercial operations in the Nordics. Before this she spent 18 years at Vattenfall, holding numerous management positions, including as head of business development for the market and trading operations. She will be a member of Vattenfall's Executive Group Management and will take up her new position on 1 April 2017.

#### Sale of two waste-to-energy power plants

In November Vattenfall sold the two German waste-to-energy power plants Lauta and Rüdersdorf to STEAG. The deal is expected to close during the first half of 2017. The parties have agreed to not disclose the financial details of the transaction.

### Restart of Ringhals 2 reactor

The Swedish Radiation Safety Authority (SSM) decided to grant Ringhals AB dispensation from the Authority's regulations and the Ringhals 2 (R2) reactor has been restarted, contingent upon the fulfilment of certain requirements, and began operating after a two-year outage.

### Vattenfall enters Danish consumer market

In December Vattenfall acquired the Danish company Vindstød.dk, which offers 100% wind power–based electricity to Danish consumers, and has thereby made an entry into the Danish consumer sales market. Vindstød.dk offers an existing customer base, a strong IT platform and an efficient organisation, and the aim is to grow the business further. The parties have agreed to not disclose the financial details of the transaction.

#### Inauguration of wireless charging station on new electric bus route

Vattenfall inaugurated the first hybrid electric bus route in the Nordic region with wireless bus stop charging in Södertälje, south of Stockholm. Wireless bus stop charging means that the bus parks over a charging segment hidden in the road, where charging takes place automatically. Seven minute of wireless charging is enough for the bus to run its entire 10 km route. Vattenfall owns and operates the charging station and supplies it with renewable electricity. The project is cooperation between Scania, SL, Vattenfall, Södertälje municipality and the Royal Institute of Technology (KTH) designed to develop silent and sustainable public transport.

#### Vattenfall secures nuclear fuel supply

Vattenfall secured its future supply of nuclear fuel by signing new contracts with three different suppliers: Areva (France), Westinghouse (USA) and TVEL (Russia). The contracts are worth approximately SEK 1.2 billion and cover the period 2018–2025. Nuclear fuel procurement complies with the rules and guiding principles established by the Euroatom Supply Agency (ESA) and International Atomic Energy Agency (IAEA). In addition, Areva, TVEL and Westinghouse comply with the Vattenfall Code of Conduct for Suppliers.

### Changes in Vattenfall's board of directors and management

At Vattenfall's Annual General Meeting on 27 April 2016, Lars G. Nordström was re-elected as Chairman of the Board. Fredrik Arp, Viktoria Bergman, Håkan Erixon, Tomas Kåberger, Jenny Lahrin and Åsa Söderström Jerring were re-elected as board members. Staffan Bohman and Hilde Tonne were elected as new board members.

Stefan Dohler was appointed as new CFO of Vattenfall, effective 1 December 2016. He succeeded Ingrid Bonde, who left Vattenfall on her own decision. Karin Lepasoon took office as Head of Corporate Communications on 1 April 2016 and has been a member of the Executive Group Management since then.

### Important events after the balance sheet date

### Agreement signed to acquire offshore wind power project Atlantis

Vattenfall has signed an agreement to acquire the project company PNE WIND Atlantis I GmbH, which is the owner of the offshore wind project Atlantis I located northwest of the island of Borkum in the German North Sea.

### New combined heat and power plant in Berlin

Vattenfall has decided to invest in a new combined heat and power plant in Berlin, Marzahn-Hellersdorf, with capacity for 260 MW electricity and 230 MW heat. The CHP plant will be able to utilise 90% of the fuel's energy and will thus be one of the most modern and efficient plants of its kind. Start of construction is planned in April, and the plant is expected to be commissioned in summer 2020. The investment sum is 325 MEUR.



### Sales, profit and cash flow

(Reporting of figures and comments pertains to continuing operations, unless indicated otherwise)

### Net sales

| Continuing operations, amounts in SEK million | Q4     | Q4     | Full year | Full year |
|---|--------|--------|-----------|-----------|
|   | 2016   | 2015   | 2016      | 2015      |
| Net sales                                     | 37 796 | 42 368 | 139 208   | 143 576   |

Comment full year 2016: Consolidated net sales decreased by SEK 4.4 billion, mainly owing to average lower prices achieved.

Comment Q4: Consolidated net sales decreased by SEK 4.6 billion, mainly owing to average lower prices achieved.

### **Earnings**

| Continuing operations, amounts in SEK million  | Q4<br>2016 | Q4<br>2015 | Full year<br>2016 | Full year<br>2015 |
|--|------------|------------|-------------------|-------------------|
| Operating profit (EBIT) <sup>1</sup>   | -2 841     | 3 641      | 1 337             | -5 069            |
| Depreciation, amortisation and impairment losses   | 6 154      | 4 088      | 25 872            | 35 673            |
| Operating profit before depreciation, amortisation and impairment losses (EBITDA) <sup>1</sup>   | 3 313      | 7 729      | 27 209            | 30 604            |
| Items affecting comparability excl. impairment losses and reversed impairment losses             | 7 567      | 2 493      | 8 935             | 4 625             |
| Underlying operating profit before depreciation, amortisation and impairment losses <sup>1</sup> | 10 880     | 10 222     | 36 144            | 35 229            |
| Operating profit (EBIT)  | - 2 841    | 3 641      | 1 337             | - 5 069           |
| Items affecting comparability <sup>1</sup>   | 9 936      | 2 766      | 20 360            | 25 598            |
| Underlying operating profit <sup>1</sup>   | 7 095      | 6 407      | 21 697            | 20 529            |
|  |            |            |                   |                   |

<sup>1)</sup> See Definitions and calculations of key ratios for definitions of Alternative Performance Measures.

Comment full year 2016: The underlying operating profit increased by SEK 1.2 billion, which is explained by the following:

- Lower production margins in the Power Generation operating segment, mainly owing to lower average electricity and fuel prices achieved (SEK -1.3 billion)
- A higher earnings contribution from the heat operations as a result of lower fuel costs (SEK 1.4 billion)
- A higher earnings contribution from trading and gas sourcing activities (SEK 0.4 billion)
- Other items, net (SEK 0.7 billion)

Comment Q4: The underlying operating profit increased by SEK 0.7 billion, which is explained by the following:

- Lower production margins in the Nordic countries, mainly owing to hydro power (SEK -0.6 billion)
- A higher earnings contribution from the heat operations as a result of lower fuel costs (SEK 0.9 billion)
- A higher earnings contribution from trading and gas sourcing activities (SEK 0.8 billion)
- Other items, net (SEK -0.4 billion)



Items affecting comparability with an effect on operating profit (EBIT)

|  | 399        | - 399      | 997               | - 657             |
|--|------------|------------|-------------------|-------------------|
| Unrealised changes in the fair value of inventories        | 200        |            |                   |                   |
| Unrealised changes in the fair value of energy derivatives | 1 015      | 539        | - 2 417           | 1 558             |
| Provisions   | - 8 373    | - 2 150    | - 8 249           | - 3 463           |
| Reversed impairment losses                                 | 929        | 40         | 929               | 534               |
| Impairment losses  | - 3 298    | - 313      | - 12 354          | - 21 507          |
| Capital losses   | - 277      | - 126      | - 376             | - 369             |
| Capital gains  | 84         | 75         | 2 152             | 249               |
| Continuing operations, amounts in SEK million              | Q4<br>2016 | Q4<br>2015 | Full year<br>2016 | Full year<br>2015 |

Comment full year 2016: Items affecting comparability amounted to SEK -20.4 billion (-25.6). Capital gains pertain mainly to the sale of the network services operation in Hamburg (SEK 1.2 billion) and the sale of real estate in Hamburg and Berlin (SEK 0.7 billion). Impairment of asset values amounted to SEK -12.4 billion and pertained primarily to the Moorburg power plant in Hamburg, hydro power assets in Germany, fossil-based assets in the Netherlands, and impairment of the shareholdings in the German nuclear power plants Brokdorf and Stade. Provisions pertain mainly to higher provisions for nuclear power in Germany (SEK -5.6 billion) and Sweden (SEK -2.1 billion). Other items affecting comparability pertain to capital losses (SEK -0.4 billion), unrealised changes in the fair value of energy derivatives and inventories (SEK -1.4 billion), restructuring costs (SEK -0.8 billion), and other nonrecurring items affecting comparability (SEK -0.3 billion).

Items affecting comparability in 2015 consisted mainly of impairment of asset values. These pertain mainly to impairment of Ringhals nuclear power reactors 1 and 2 in Sweden and impairment of Moorburg power plant in Hamburg, Germany. The increase in provisions pertains mainly to higher provisions for nuclear power and operations in Germany.

**Comment Q4:** Items affecting comparability amounted to SEK -9.9 billion (-2.8). The increase in provisions pertains mainly to higher provisions for nuclear power in Germany (SEK -5.6 billion) and Sweden (SEK -2.1 billion). Impairment of asset values pertains mainly to revaluation of Dutch gas assets in the Netherlands and to impairment of the shareholdings in the German nuclear power plants Brokdorf and Stade.

For further information about impairment losses attributable to the lignite operations, see Note 4, Divested operations, on page 37.



### Profit for the period

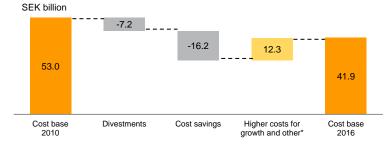
|   | Q4      | Q4    | Full year | Full year |
|---|---------|-------|-----------|-----------|
| Continuing operations, amounts in SEK million | 2016    | 2015  | 2016      | 2015      |
| Profit for the period                         | - 3 960 | 4 550 | - 2 171   | - 5 188   |
|   |         |       |           |           |

**Comment full year 2016:** Profit for the period amounted to SEK -2.2 billion (-5.2). Impairment losses, higher provisions and other items affecting comparability had a negative impact on earnings (net after tax) of SEK -14.8 billion (-19.2).

**Comment Q4:** Profit for the period amounted to SEK -4.0 billion (4.6). Impairment losses, higher provisions and other items affecting comparability had a negative impact on earnings (net after tax) of SEK -7.5 billion (-1.9).

### Cost savings

(Reporting of figures and comments pertains to Total Vattenfall)



Higher costs for growth and other include among others costs related to growth, exchange rate effects and restructuring costs.

Comment full year 2016: Vattenfall has taken numerous measures to cut costs, and compared with the cost base in 2010, Vattenfall has lowered costs under its control by approximately 31%. The cost savings programme of SEK 2.5 billion for 2015-2016 has been completed. Vattenfall will continuously improve efficiency to further reduce costs.



### Financial items

| Continuing operations, amounts in SEK million              | Q4<br>2016 | Q4<br>2015 | Full year<br>2016 | Full year<br>2015 |
|--|------------|------------|-------------------|-------------------|
| Net financial items  | - 2 017    | - 1 127    | - 6 382           | - 4 776           |
| - of which, interest income                                | 87         | 497        | 381               | 907               |
| - of which, interest expenses                              | - 850      | - 883      | - 3 502           | - 3 448           |
| - of which, return from the Swedish Nuclear Waste Fund     | 104        | 234        | 866               | 1 168             |
| - of which, interest components related to pension costs   | - 243      | - 229      | - 954             | - 922             |
| - of which, discounting effects attributable to provisions | - 778      | - 694      | - 3 243           | - 2 908           |
| - of which, other  | - 337      | - 52       | 70                | 427               |
| Interest received <sup>1</sup>                             | 93         | 276        | 978               | 845               |
| Interest paid <sup>1</sup>                                 | - 308      | - 240      | - 3 421           | - 3 413           |
|  |            |            |                   |                   |

#### 1) Pertains to cash flows.

**Comment full year 2016:** Net financial items were higher in 2016, mainly owing to a higher level of net interest expenses, higher interest on provisions, and a lower return from the Swedish Nuclear Waste Fund.

Comment Q4: Net financial items were higher in the fourth quarter of 2016 than in the corresponding period in 2015.

### Cash flow

(Reporting of figures and comments pertains to Total Vattenfall)

| Total Vattenfall, amounts in SEK million   | Q4<br>2016 | Q4<br>2015 | Full year<br>2016 | Full year<br>2015 |
|--|------------|------------|-------------------|-------------------|
| Funds from operations (FFO)  | 7 157      | 9 362      | 28 186            | 29 009            |
| Cash flow from changes in operating assets and operating liabilities (working capital) | 3 905      | 233        | 2 597             | 11 925            |
| Cash flow from operating activities  | 11 062     | 9 595      | 30 783            | 40 934            |
|  |            |            |                   |                   |

Comment full year 2016: Funds from operations (FFO) decreased by SEK 0.8 billion.

Cash flow from changes in working capital amounted to SEK 2.6 billion. This is mainly attributable to a positive net change in operating receivables and operating liabilities (SEK 1.3 billion), and a lower inventory of CO<sub>2</sub> emission allowances (SEK 1.2 billion).

**Comment Q4:** Funds from operations (FFO) decreased by SEK 2.2 billion. This is mainly attributable to a lower profit due to the divestment of lignite operations.

Cash flow from changes in working capital amounted to SEK 3.9 billion. This is mainly attributable to a net change in margin calls (SEK 4.5 billion).



### **Financial position**

| Amounts in SEK million                                | 31 Dec.<br>2016     | 31 Dec.<br>2015     | Change, % |
|---|---------------------|---------------------|-----------|
| Cash and cash equivalents, and short-term investments | 43 292 <sup>1</sup> | 44 256 <sup>1</sup> | -2.2      |
| Committed credit facilities (unutilised)              | 19 105              | 18 379              | 4.0       |
|   |                     |                     |           |

1) The amounts as per 31 December 2016 pertain to continuing operations, and the amounts as per 31 December 2015 pertain to Total Vattenfall.

**Comment:** Cash and cash equivalents, and short-term investments decreased by SEK 1.0 billion compared with the level at 31 December 2015.

Committed credit facilities consist of a EUR 2.0 billion Revolving Credit Facility that expires on 10 December 2021. As per 31 December 2016, available liquid assets and/or committed credit facilities amounted to 36% of net sales. Vattenfall's target is to maintain a level of no less than 10% of the Group's net sales, but at least the equivalent of the next 90 days' maturities.

| Amounts in SEK million                       | 31 Dec.<br>2016      | 31 Dec.<br>2015      | Change, % |
|--|----------------------|----------------------|-----------|
| Interest-bearing liabilities <sup>1</sup>    | 96 667 <sup>3</sup>  | 110 585 <sup>3</sup> | -12.6     |
| Net debt <sup>1</sup>                        | 50 724 <sup>3</sup>  | 64 201 <sup>3</sup>  | -21.0     |
| Adjusted net debt <sup>1</sup> (see page 27) | 124 741 <sup>3</sup> | 137 585 <sup>3</sup> | -9.3      |
| Average interest rate, % <sup>2</sup>        | 4.4                  | 3.9                  | _         |
| Duration, years <sup>2</sup>                 | 5.6                  | 3.9                  | _         |
| Average time to maturity, years <sup>2</sup> | 8.5                  | 8.1                  | _         |
|  |                      |                      |           |

- 1) See Definitions and calculations of key ratios for definitions of Alternative Performance Measures.
- 2) Including Hybrid Capital and loans from owners with non-controlling interests and associated companies.
- 3) The amounts as per 31 December 2016 pertain to Continuing operations, and the amounts as per 31 December 2015 pertain to Total Vattenfall.

**Comment:** Total interest-bearing liabilities decreased by SEK 14 billion compared with the level at 31 December 2015. This is mainly attributable to maturity of bonds and repurchases.

Net debt decreased by SEK 13.5 billion compared with the level at 31 December 2015. This is mainly attributable to a positive cash flow after investments which was partly offset by effects of the sale of the lignite operations, which reduced cash holdings.

Adjusted net debt decreased by SEK 12.8 billion compared with the level at 31 December 2015. The decrease is mainly attributable to a lower level of net debt and to effects of the sale of the lignite operations, which reduced provisions for future obligations for mining operations. Higher nuclear power provisions in both Germany and Sweden increased adjusted net debt by a total of SEK 9.0 billion.

### **Credit ratings**

On 13 May 2016, Moody's affirmed Vattenfall's long-term A3 rating and Baa2 rating for hybrid bonds. The outlook for Vattenfall's rating is negative. On 19 May 2016 Standard & Poor's affirmed Vattenfall's long-term BBB+ rating. At the same time, Standard & Poor's affirmed Vattenfall's short-term A-2 rating. The outlook for Vattenfall's rating is negative.



### Investments and divestments

| Q4<br>2016 | Q4<br>2015   | Full year<br>2016  | Full year<br>2015  |
|------------|--|--|--|
| 4 024      | 3 833  | 10 557   | 12 329   |
| 3 770      | 3 708  | 11 561   | 12 709   |
| 7 794      | 7 541  | 22 118   | 25 038   |
| - 226      | - 3  | - 197  | 738  |
| 7 568      | 7 538  | 21 921   | 25 776   |
| 10         | 909  | 1 149  | 2 950  |
| 7 578      | 8 447  | 23 070   | 28 726   |
| 146        | 464  | 4 406  | 2 814  |
| 20         | - 11   | 1 298  | 206  |
|            | 2016<br>4 024<br>3 770<br>7 794<br>- 226<br>7 568<br>10<br>7 578 | 2016     2015       4 024     3 833       3 770     3 708       7 794     7 541       - 226     - 3       7 568     7 538       10     909       7 578     8 447       146     464 | 2016     2015     2016       4 024     3 833     10 557       3 770     3 708     11 561       7 794     7 541     22 118       - 226     - 3     - 197       7 568     7 538     21 921       10     909     1 149       7 578     8 447     23 070       146     464     4 406 |

**Comment:** Investments are specified in the table below. Divestments in 2016 pertain mainly to Vattenfall's network services operation in Hamburg, Germany, the sale of real estate in Hamburg and Berlin, and the Nordjylland combined heat and power station in Denmark. Divestments in 2015 pertained primarily to combined heat and power assets in Utrecht, the Netherlands.

### Specification of investments

|  | Q4    | Q4    | Full year | Full year |
|--|-------|-------|-----------|-----------|
| Amounts in SEK million   | 2016  | 2015  | 2016      | 2015      |
| Electricity generation   |       |       |           |           |
| Hydro power  | 547   | 705   | 1 511     | 1 706     |
| Nuclear power  | 394   | 1 028 | 2 162     | 4 219     |
| Coal power   | 124   | 203   | 454       | 1 292     |
| Gas  | 37    | 114   | 164       | 174       |
| Wind power and solar PV  | 2 611 | 1 974 | 8 782     | 8 629     |
| Biomass, waste   | 6     | 17    | 22        | 25        |
| Total electricity generation                                       | 3 719 | 4 041 | 13 095    | 16 045    |
| CHP/heat   |       |       |           |           |
| Fossil-based power   | 823   | 675   | 1 840     | 1 949     |
| Biomass, waste   | 61    | 72    | 156       | 145       |
| Other  | 503   | 547   | 1 064     | 1 242     |
| Total CHP/heat   | 1 387 | 1 294 | 3 060     | 3 336     |
| Electricity networks   |       |       |           |           |
| Electricity networks   | 2 241 | 1 830 | 5 248     | 4 671     |
| Total electricity networks   | 2 241 | 1 830 | 5 248     | 4 671     |
| Purchases of shares, shareholder contributions                     | 30    | - 59  | - 361     | - 267     |
| Other  | 417   | 435   | 1 076     | 1 253     |
| Total investments from continuing operations                       | 7 794 | 7 541 | 22 118    | 25 038    |
| Accrued investments (-)/release of accrued investments (+)         | - 226 | - 3   | - 197     | 738       |
| Total investments with cash flow effect from continuing operations | 7 568 | 7 538 | 21 921    | 25 776    |
| Investments with cash flow effect from discontinued operations     | 10    | 909   | 1 149     | 2 950     |
| Total investments with cash flow effect                            | 7 578 | 8 447 | 23 070    | 28 726    |
|  |       |       |           |           |

### Vattenfall's investment plan for 2017–2018

Vattenfall has decided on an investment plan for 2017–2018 of SEK 50 billion, of which SEK 33 billion, or 66%, is earmarked for investments in electricity and heat production. Vattenfall plans to invest the remainder, SEK 17 billion, primarily in electricity and heating networks. The biggest share of growth investments, SEK 19 billion, or 68%, is planned for investment in renewable energy generation, of which investments in wind power will amount to SEK 17 billion. Vattenfall will also invest in solar PV and in new areas, such as batteries and e-mobility, which will enable innovative and sustainable solutions demanded by our customers.



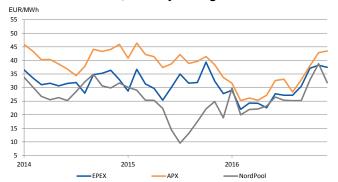
### Wholesale price trend

### Spot prices - electricity

Average Nordic spot prices were 28% higher in 2016, mainly owing to drier weather and a lower hydrological balance. During the fourth quarter of 2016 they were 57% higher than in the corresponding period in 2015. Average spot prices in Germany and the Netherlands were 8% and 19% lower, respectively, than in 2015 as a result of lower commodity prices. As a result of lower nuclear power availability in France and higher commodity prices, average spot prices in Germany and the Netherlands were 13% and 9% higher, respectively, during the fourth quarter than in the corresponding quarter in 2015.

| Time period    | Nord Pool Spot     | EPEX      | APX           |
|----------------|--------------------|-----------|---------------|
| EUR/MWh        | (Nordic countries) | (Germany) | (Netherlands) |
| Full year 2016 | 26.9               | 29.0      | 32.2          |
| Full year 2015 | 21.0               | 31.6      | 40.1          |
| %              | 28%                | -8%       | -19%          |
| Q4 2016        | 34.5               | 37.6      | 41.4          |
| Q4 2015        | 22.0               | 33.3      | 38.0          |
| %              | 57%                | 13%       | 9%            |
| Q3 2016        | 25.2               | 28.2      | 31.4          |
| %              | 37%                | 33%       | 32%           |
|                |                    |           |               |

### Electricity spot prices in the Nordic countries, Germany and the Netherlands, monthly averages



### Futures prices – electricity

Volatile commodity prices led to major fluctuations in futures prices for electricity in all markets. Electricity futures prices were 12%–20% lower than in 2015. Compared with the fourth quarter of 2015, electricity futures prices were 1%–29% higher.

| Time period    | Nordic cou |      | Germ<br>(EE | ,    | Nether<br>(ICI |      |
|----------------|------------|------|-------------|------|----------------|------|
| EUR/MWh        | 2017       | 2018 | 2017        | 2018 | 2017           | 2018 |
| Full year 2016 | 22.6       | 20.7 | 26.6        | 25.1 | 30.9           | 28.9 |
| Full year 2015 | 25.7       | 25.7 | 30.3        | 30.1 | 36.3           | 36.3 |
| %              | -12%       | -19% | -12%        | -16% | -15%           | -20% |
| Q4 2016        | 28.1       | 23.5 | 31.8        | 28.4 | 36.1           | 32.4 |
| Q4 2015        | 21.7       | 21.8 | 27.6        | 27.2 | 32.9           | 32.2 |
| %              | 29%        | 8%   | 15%         | 4%   | 10%            | 1%   |

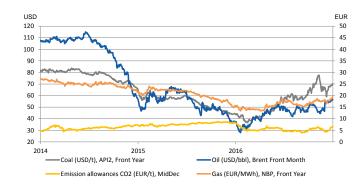
### Electricity futures prices in the Nordic countries, Germany and the Netherlands



### Commodity prices

Oil prices (Brent crude) were an average of 16% lower than in 2015, mainly owing to larger supply and a stronger US dollar. Coal prices were an average of 1% lower than in 2015. Gas prices were 22% lower than in 2015. Prices of  $CO_2$  emission allowances were an average of 30% lower than in 2015. During the fourth quarter of 2016, oil prices were 14% higher, coal prices were 46% higher, gas prices were 1% higher, and  $CO_2$  emission allowances were 34% lower than in the corresponding period in 2015.

#### Price trend for oil, coal, gas and CO<sub>2</sub> emission allowances





### Vattenfall's price hedging

(Reporting of figures and comments pertains to continuing operations)

Vattenfall continuously hedges its future electricity generation through sales in the forward and futures markets. Spot prices therefore have only a limited impact on Vattenfall's earnings in the near term.

Following the sale of the lignite operations, Vattenfall's portfolio and risk exposure have changed substantially. The dominant risk exposure is now related to price exposure for Nordic nuclear and hydro power base load generation. In addition, Vattenfall's continuing operations generate a higher share of regulated revenue from distribution, heat and subsidies from wind power, which reduces the total risk exposure. On the Continent Vattenfall continues to have some price exposure between electricity and used fuel. Such an exposure has a lower risk profile than in the Nordic countries. Based on this, Vattenfall has decided to decrease its price hedging activity and to focus on hedging its Nordic generation.

### Average indicative Nordic hedge prices as per 31 December 2016

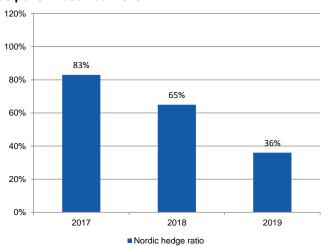
| EUR/MWh | 2017 | 2018 | 2019 |
|---------|------|------|------|
|         | 29   | 27   | 30   |

#### Sensitivity analysis - Continental portfolio

| Market<br>quoted |        | +/-10% impact on future profit before tax, SEK million <sup>1</sup> |         | Observed yearly volatiliy <sup>2</sup> |
|------------------|--------|---|---------|--|
|                  | 2017   | 2018  | 2019    |  |
| Electricity      | +/-399 | +/- 401   | +/- 820 | 22% - 23%                              |
| Coal             | +/-11  | -/+ 241   | -/+ 244 | 31% - 32%                              |
| Gas              | +/-240 | -/+ 412   | -/+ 412 | 25% - 27%                              |
| CO <sub>2</sub>  | +/-15  | -/+ 79  | -/+ 94  | 54% -55%                               |

- The denotation +/- entails that a higher price affects operating profit favourably, and -/+ vice versa.
- Observed yearly volatility in 2016 for daily price movements for each commodity, based on forward contracts for the period 2017-2019. Volatility normally declines the further ahead in time the contract pertains to.

### Vattenfall's estimated Nordic hedge ratio (%) as per 31 December 2016





### **Operating segments**

(Reporting of figures and comments pertains to continuing operations, unless indicated otherwise)

### **Customers & Solutions**

| Continuing operations, amounts in SEK million unless indicated otherwise            | Q4<br>2016 | Q4<br>2015 | Full year<br>2016 | Full year<br>2015 |
|---|------------|------------|-------------------|-------------------|
| Net sales   | 20 066     | 23 596     | 69 230            | 87 523            |
| External net sales  | 19 615     | 22 888     | 67 862            | 84 905            |
| Underlying operating profit before depreciation, amortisation and impairment losses | 670        | 274        | 2 825             | 2 271             |
| Underlying operating profit   | 399        | 58         | 1 830             | 1 390             |
| Sales of electricity, TWh   | 22.8       | 32.9       | 88.9              | 123.2             |
| - of which, private customers   | 7.6        | 7.6        | 27.0              | 26.8              |
| - of which, resellers   | 1.5        | 9.1        | 5.5               | 33.5              |
| - of which, business customers  | 13.7       | 16.2       | 56.4              | 62.9              |
| Sales of gas, TWh   | 18.3       | 15.0       | 53.1              | 50.7              |
| Number of employees, full-time equivalents  | 2 930      | 3 168      | 2 930             | 3 168             |
|   |            |            |                   |                   |

The Customers & Solutions Business Area is responsible for sales of electricity, gas and energy services in all of Vattenfall's markets.

- Net sales for 2016 decreased, mainly due to a reallocation of contracts with resellers from the Customers & Solutions Business Area to the Markets Business Area, which is included in the Power Generation operating segment. Lower sold volumes in Germany and negative price effects in the Netherlands had a negative impact on net sales.
- Lower sales and administration costs had a positive effect on the underlying operating profit for 2016.
- Sales of electricity to private customers increased in 2016. Vattenfall's customer base in Customers & Solutions grew by some 144,000 contracts since the start of the year, of which the acquisition of the Danish consumer company Vindstød.dk is included (27,000). Sales of gas were slightly higher than in 2015, mainly due to a larger number of customer contracts in Germany and colder weather in the Netherlands.

### **Power Generation**

| External net sales       12 311       13 383       49 276       35 7         Underlying operating profit before depreciation, amortisation and impairment losses       4 642       4 295       14 354       15 8         Underlying operating profit       3 861       3 584       11 410       12 3         Electricity generation, TWh¹       21.0       22.5       81.7       82         - of which, hydro power       7.9       10.6       34.8       38         - of which, nuclear power       13.1       11.2       46.9       42         - of which, biomass, waste       —       0.7       —       0.7         Sales of electricity, resellers, TWh       8.5       —       31.6 | Continuing operations, amounts in SEK million unless indicated otherwise            | Q4<br>2016 | Q4<br>2015 | Full year<br>2016 | Full year<br>2015 |
|---|---|------------|------------|-------------------|-------------------|
| Underlying operating profit before depreciation, amortisation and impairment losses       4 642       4 295       14 354       15 8         Underlying operating profit       3 861       3 584       11 410       12 3         Electricity generation, TWh¹       21.0       22.5       81.7       82         - of which, hydro power       7.9       10.6       34.8       38         - of which, nuclear power       13.1       11.2       46.9       42         - of which, biomass, waste       —       0.7       —       0.7         Sales of electricity, resellers, TWh       8.5       —       31.6  | Net sales   | 28 340     | 30 795     | 98 997            | 91 643            |
| Underlying operating profit       3 861       3 584       11 410       12 3         Electricity generation, TWh¹       21.0       22.5       81.7       82         - of which, hydro power       7.9       10.6       34.8       38         - of which, nuclear power       13.1       11.2       46.9       42         - of which, biomass, waste       —       0.7       —       0.7         Sales of electricity, resellers, TWh       8.5       —       31.6  | External net sales  | 12 311     | 13 383     | 49 276            | 35 783            |
| Electricity generation, TWh¹       21.0       22.5       81.7       82.7         - of which, hydro power       7.9       10.6       34.8       38.7         - of which, nuclear power       13.1       11.2       46.9       42.7         - of which, biomass, waste       —       0.7       —       0.7         Sales of electricity, resellers, TWh       8.5       —       31.6  | Underlying operating profit before depreciation, amortisation and impairment losses | 4 642      | 4 295      | 14 354            | 15 822            |
| - of which, hydro power       7.9       10.6       34.8       38         - of which, nuclear power       13.1       11.2       46.9       42         - of which, biomass, waste       —       0.7       —       0.0         Sales of electricity, resellers, TWh       8.5       —       31.6   | Underlying operating profit   | 3 861      | 3 584      | 11 410            | 12 376            |
| - of which, nuclear power       13.1       11.2       46.9       42         - of which, biomass, waste       —       0.7       —       0         Sales of electricity, resellers, TWh       8.5       —       31.6  | Electricity generation, TWh <sup>1</sup>  | 21.0       | 22.5       | 81.7              | 82.4              |
| - of which, biomass, waste  | - of which, hydro power   | 7.9        | 10.6       | 34.8              | 39.5 <sup>2</sup> |
| Sales of electricity, resellers, TWh 8.5 — 31.6   | - of which, nuclear power   | 13.1       | 11.2       | 46.9              | 42.2              |
|   | - of which, biomass, waste  | _          | 0.7        | _                 | 0.7 <sup>2</sup>  |
| Number of employees full-time equivalents 7 493 7 771 7 493 7 7   | Sales of electricity, resellers, TWh  | 8.5        | _          | 31.6              | _                 |
| Table of employees, full time equivalents   | Number of employees, full-time equivalents  | 7 493      | 7 771      | 7 493             | 7 771             |

Power Generation comprises the Generation and Markets Business Areas. The segment includes Vattenfall's hydro and nuclear power operations, and optimisation and trading operations.

Net sales for 2016 increased, mainly owing to the reallocation of contracts with resellers from the Customers & Solutions Business Area to the Markets Business Area, which is included in the Power Generation operating segment.

Values for 2016 are preliminary. The value has been adjusted compared with the value presented in Vattenfall's 2015 year-end report.



- The underlying operating profit for 2016 decreased, mainly owing to lower production margins resulting from average lower electricity and fuel prices achieved.
- Hydro power generation in 2016 decreased as a result of lower reservoir levels. Nordic reservoir levels were 52% (74%) of capacity at the end of the fourth quarter, which is 5 percentage points below the normal level.
- Nuclear power generation in 2016 increased compared with the preceding year, owing to higher availability. The Ringhals 2 reactor (R2) was restarted during the fourth quarter. Combined availability for Vattenfall's nuclear power plants for the full year 2016 was 75.4% (69.7%). The corresponding figure for the fourth quarter of 2016 was 83.9% (71.8%).
- For 2016 Forsmark had availability of 84.0% (76.1%) and generation of 24.0 TWh (21.1). Ringhals had availability of 68.2% (64.4%) and generation of 22.9 TWh (21.1). For the fourth quarter of 2016 Forsmark had availability of 86.1% (89.8%) and generation of 6.1 TWh (6.4). Ringhals had availability of 82.0% (76.1%) and generation of 7.0 TWh (8.0).

### Wind

| Continuing operations, amounts in SEK million unless indicated otherwise            | Q4<br>2016 | Q4<br>2015 | Full year<br>2016 | Full year<br>2015 |
|---|------------|------------|-------------------|-------------------|
| Net sales   | 2 183      | 2 155      | 6 702             | 6 769             |
| External net sales  | 1 408      | 1 296      | 4 384             | 4 267             |
| Underlying operating profit before depreciation, amortisation and impairment losses | 1 378      | 1 489      | 4 297             | 4 621             |
| Underlying operating profit   | 398        | 627        | 878               | 1 469             |
| Electricity generation - wind power TWh   | 1.9        | 2.0        | 5.8               | 5.8               |
| Number of employees, full-time equivalents  | 706        | 577        | 706               | 577               |
|   |            |            |                   |                   |

The Wind Business Area is responsible for Vattenfall's wind power and solar energy operations.

- Net sales for 2016 decreased slightly compared with 2015, mainly owing to lower average prices received and less favourable wind conditions.
- The underlying operating profit decreased, mainly owing to lower production revenue, higher depreciation associated with the commissioning of new wind farms, and higher project planning and repair costs.
- Electricity generation is in line with 2015 despite commissioning of new wind farms during 2016. This is mainly due to less favourable wind conditions, with available wind of 20% below a normal year. New capacity added in 2016 includes the German offshore wind farm Sandbank (216 MW of a total of 288 MW), the Swedish onshore wind farms Högabjär (38 MW) and Höge Väg (38 MW), and the 5 MW of solar energy adjacent to Vattenfall's Parc Cynog onshore wind farm in Wales.



### Heat

| Continuing operations, amounts in SEK million unless indicated otherwise            | Q4<br>2016 | Q4<br>2015 | Full year<br>2016 | Full year<br>2015 |
|---|------------|------------|-------------------|-------------------|
| Net sales   | 9 712      | 7 499      | 28 414            | 27 345            |
| External net sales  | 4 701      | 3 493      | 15 110            | 14 356            |
| Underlying operating profit before depreciation, amortisation and impairment losses | 2 435      | 1 528      | 7 059             | 5 689             |
| Underlying operating profit   | 1 532      | 335        | 3 230             | 1 759             |
| Electricity generation - TWh <sup>1</sup>   | 9.7        | 8.0        | 31.5              | 29.8 <sup>2</sup> |
| - of which, fossil-based power  | 9.5        | 7.8        | 30.8              | 29.0 <sup>2</sup> |
| - of which, biomass, waste  | 0.2        | 0.2        | 0.7               | 0.8               |
| Sales of heat, TWh  | 7.6        | 6.1        | 20.3              | 20.6              |
| Number of employees, full-time equivalents  | 3 790      | 4 202      | 3 790             | 4 202             |

<sup>1)</sup> Figures for 2016 are preliminary.

The Heat Business Area comprises Vattenfall's heat operations, including all thermal operations.

- Net sales increased in 2016, mainly owing to a higher number of customer contracts, mainly in Berlin. Vattenfall's customer base in Heat grew by approximately 40,000 contracts since the start of the year.
- The underlying operating profit improved for 2016, which is primarily explained by a higher gross margin mainly resulting from lower fuel costs.
- The decrease in the number of employees is mainly attributable to the divestment of the Nordjylland combined heat and power plant in Denmark.

### Distribution

| Continuing operations, amounts in SEK million unless indicated otherwise            | Q4<br>2016 | Q4<br>2015 | Full year<br>2016 | Full year<br>2015 |
|---|------------|------------|-------------------|-------------------|
| Net sales   | 5 267      | 5 578      | 19 661            | 19 914            |
| External net sales  | 4 015      | 4 322      | 15 233            | 15 355            |
| Underlying operating profit before depreciation, amortisation and impairment losses | 1 850      | 2 402      | 7 669             | 8 189             |
| Underlying operating profit   | 1 120      | 1 703      | 4 863             | 5 465             |
| Number of employees, full-time equivalents  | 2 010      | 2 728      | 2 010             | 2 728             |
|   |            |            |                   |                   |

The Distribution Business Area comprises Vattenfall's electricity distribution operations in Sweden and Germany (Berlin).

- Net sales in 2016 excluding the divested network services operation in Hamburg increased as a result of higher prices and slightly higher transmission volumes.
- The underlying operating profit, excluding the divested network services operation in Hamburg, decreased mainly as a result of higher costs in Germany and the earlier scheduling of maintenance investments. The lost earnings contribution from the divested network services operation in Hamburg amounted to approximately SEK 0.5 billion for the full year 2016.
- Vattenfall's customer base in Distribution grew by approximately 24,000 contracts since the start of the year. The trend of growing customer base is mainly driven by urbanization.
- The decrease in the number of employees is mainly attributable to the divestment of the network services operation in Hamburg.

<sup>2)</sup> The value has been adjusted compared with the value presented in Vattenfall's 2015 year-end report.



### Other<sup>1</sup>

| Continuing operations, amounts in SEK million unless indicated otherwise            | Q4<br>2016 | Q4<br>2015 | Full year<br>2016 | Full year<br>2015 |
|---|------------|------------|-------------------|-------------------|
| Net sales   | 1 334      | 1 433      | 5 363             | 5 361             |
| External net sales  | 169        | 45         | 326               | 178               |
| Underlying operating profit before depreciation, amortisation and impairment losses | - 281      | 39         | - 58              | - 1 330           |
| Underlying operating profit   | - 401      | - 95       | - 512             | - 1 897           |
| Number of employees, full-time equivalents  | 3 006      | 3 319      | 3 006             | 3 319             |
|   |            |            |                   |                   |

<sup>1)</sup> Other pertains mainly to all Staff functions, including Treasury and Shared Service Centres.

The data reported above for the operating segments also include eliminations in the Group's sales and earnings. See pages 23-25.



### **Consolidated income statement**

| Amounts in SEK million   | Q4<br>2016          | Q4<br>2015 <sup>9</sup> | Full year<br>2016 | Full year<br>2015 <sup>9</sup> |
|--|---------------------|-------------------------|-------------------|--------------------------------|
| Continuing operations  | 20.0                | 20.0                    | 20.0              | 20.0                           |
| Net sales  | 37 796              | 42 368                  | 139 208           | 143 576                        |
| Cost of products sold <sup>1</sup>   | - 32 629            | - 33 705                | - 119 217         | - 129 222                      |
| Gross profit   | 5 167               | 8 663                   | 19 991            | 14 354                         |
| Selling expenses, administrative expenses and research and development costs <sup>2</sup>  | - 5 863             | - 5 232                 | - 19 259          | - 19 326                       |
| Other operating income and expenses, net   | 26                  | 644                     | 2 456             | 400                            |
| Participations in the results of associated companies <sup>3</sup>   | - 2 171             | - 434                   | - 1 851           | - 497                          |
| Operating profit (EBIT) <sup>4</sup>   | - 2 841             | 3 641                   | 1 337             | - 5 069                        |
|  | - 2 041             | 3 041                   | 1 337             | - 3 003                        |
| Financial income <sup>5,8</sup>  | - 11                | 634                     | 1 767             | 2 755                          |
| Financial expenses <sup>6,7,8</sup>  | - 2 006             | - 1 761                 | - 8 149           | - 7 531                        |
| Profit before tax  | - 4 858             | 2 514                   | - 5 045           | - 9 845                        |
| Income tax expense   | 898                 | 2 036                   | 2 874             | 4 657                          |
| Profit for the period from continuing operations   | - 3 960             | 4 550                   | - 2 171           | - 5 188                        |
| Discontinued operations  |                     |                         |                   |                                |
|  | 10                  |                         |                   |                                |
| Profit for the period from discontinued operations, net after tax  | - 192 <sup>10</sup> | - 2 090                 | - 23 833          | - 14 578                       |
| Profit for the period  | - 4 152             | 2 460                   | - 26 004          | - 19 766                       |
| Attributable to owner of the Parent Company  | - 4 055             | 2 243                   | - 26 324          | - 16 672                       |
| Attributable to non-controlling interests  | - 97                | 217                     | 320               | - 3 094                        |
|  |                     |                         |                   |                                |
| Supplementary information for continuing operations  | 3 313               | 7 729                   | 27 209            | 30 604                         |
| Operating profit before depreciation, amortisation and impairment losses (EBITDA)  Underlying operating profit before depreciation, amortisation and impairment losses | 10 880              | 10 222                  | 36 144            | 35 229                         |
| Underlying operating profit  | 7 095               | 6 407                   | 21 697            | 20 529                         |
| Financial items, net excl. discounting effects attributable to provisions  | 7 093               | 0 407                   | 21 037            | 20 323                         |
| and return from the Swedish Nuclear Waste Fund   | - 1 343             | - 667                   | - 4 005           | - 3 036                        |
|  |                     |                         |                   |                                |
| 1) Of which, depreciation, amortisation and impairment losses  | - 4 990             | - 3 528                 | - 23 423          | - 34 236                       |
| 2) Of which, depreciation, amortisation and impairment losses  | - 46                | - 560                   | - 1 331           | - 1 396                        |
| 3) Of which impairment losses  | - 1 118             | _                       | - 1 118           | - 41                           |
| 4) Including items affecting comparability   | - 9 936             | - 2 766                 | - 20 360          | - 25 598                       |
| 5) Including return from the Swedish Nuclear Waste Fund  | 104                 | 234                     | 866               | 1 168                          |
| 6) Including interest components related to pension costs  | - 243               | - 229                   | - 954             | - 922                          |
| 7) Including discounting effects attributable to provisions  | - 778               | - 694                   | - 3 243           | - 2 908                        |
| 8) Items affecting comparability recognised as financial   |                     |                         |                   |                                |
| income and expenses, net   | - 176               | _                       | - 176             | - 18                           |
|  |                     |                         |                   |                                |

The value for 2015 has been recalculated compared with information previously published in Vattenfall's 2015 interim reports and 2015 Annual and Sustainability
Report. This is because the lignite operations have been divested and are reported as a discontinued operation in accordance with IFRS 5.
 The value for Q4 2016 pertains in all essential respects to the recognised exchange rate effect on the value of divested operations in Q1-3 2016.



### **Consolidated statement of comprehensive income**

| Total Vattenfall, amounts in SEK million   | Q4<br>2016 | Q4<br>2015 | Full year<br>2016 | Full year<br>2015 |
|--|------------|------------|-------------------|-------------------|
| Profit for the period  | - 4 152    | 2 460      | - 26 004          | - 19 766          |
| Other comprehensive income   |            |            |                   |                   |
| Items that will be reclassified to profit or loss when specific conditions are met       |            |            |                   |                   |
| Cash flow hedges - changes in fair value   | - 1 695    | 1 629      | - 17 620          | 11 354            |
| Cash flow hedges - dissolved against income statement                                    | 1 317      | - 936      | 2 737             | - 5 323           |
| Cash flow hedges - transferred to cost of hedged item                                    | - 26       | - 19       | - 71              | - 3               |
| Hedging of net investments in foreign operations   | 113        | 1 434      | - 923             | 1 709             |
| Translation differences and exchange rate effects net, divested companies                | 687        | _          | 1 164             | _                 |
| Translation differences  | - 921      | - 2 962    | 1 927             | - 1 938           |
| Income tax relating to items that will be reclassified                                   | 89         | - 462      | 4 022             | - 1 722           |
| Total items that will be reclassified to profit or loss when specific conditions are met | - 436      | - 1 316    | - 8 764           | 4 077             |
| Items that will not be reclassified to profit or loss                                    |            |            |                   |                   |
| Remeasurement pertaining to defined benefit obligations                                  | 1 941      | - 95       | - 1 805           | 2 867             |
| Income tax relating to items that will not be reclassified                               | - 586      | 48         | 500               | - 762             |
| Total items that will not be reclassified to profit or loss                              | 1 355      | - 47       | - 1 305           | 2 105             |
| Total other comprehensive income, net after tax  | 919        | - 1 363    | - 10 069          | 6 182             |
| Total comprehensive income for the period  | - 3 233    | 1 097      | - 36 073          | - 13 584          |
| Attributable to owner of the Parent Company  | - 3 005    | 1 007      | - 36 485          | - 10 398          |
| Attributable to non-controlling interests  | - 228      | 90         | 412               | - 3 186           |



### **Operating segments, Vattenfall Group**

|   | Q4                         | Q4                             | Full year                | Full year                      |
|---|----------------------------|--------------------------------|--------------------------|--------------------------------|
| Amounts in SEK million                              | 2016                       | 2015                           | 2016                     | 2015                           |
|   |                            |                                |                          |                                |
| External net sales                                  |                            |                                |                          |                                |
| Customers & Solutions                               | 19 615                     | 22 888                         | 67 862                   | 84 905                         |
| Power Generation                                    | 12 311                     | 13 383 <sup>3</sup>            | 49 276                   | 35 783 <sup>3</sup>            |
| Wind  | 1 408                      | 1 296                          | 4 384                    | 4 267                          |
| Heat  | 4 701                      | 3 493                          | 15 110                   | 14 356                         |
| Distribution  | 4 015                      | 4 322                          | 15 233                   | 15 355                         |
| - of which, Distribution Germany                    | 1 298                      | 1 763                          | 4 978                    | 6 018                          |
| - of which, Distribution Sweden                     | 2 717                      | 2 559                          | 10 255                   | 9 337                          |
| Other <sup>1</sup>                                  | 169                        | 45                             | 326                      | 178                            |
| Eliminations <sup>2</sup>                           | - 4 423                    | - 3 059                        | - 12 983                 | - 11 268                       |
| Total continuing operations                         | 37 796                     | 42 368                         | 139 208                  | 143 576                        |
| Discontinued operations                             | 117⁴                       | 3 131                          | 13 459                   | 20 934                         |
| Total   | 37 913                     | 45 499                         | 152 667                  | 164 510                        |
| Internal net sales                                  |                            |                                |                          |                                |
| Customers & Solutions                               | 451                        | 708                            | 1 368                    | 2 618                          |
| Power Generation                                    | 16 029                     | 17 412 <sup>3</sup>            | 49 721                   | 55 860 <sup>3</sup>            |
| Wind  | 775                        | 859                            | 2 318                    | 2 502                          |
| Heat  | 5 011                      | 4 006 <sup>3</sup>             | 13 304                   | 12 989 <sup>3</sup>            |
| Distribution  | 1 252                      | 1 256                          | 4 428                    | 4 559                          |
| - of which, Distribution Germany                    | 1 078                      | 1 066                          | 3 954                    | 4 012                          |
| - of which, Distribution Sweden                     | 174                        | 190                            | 474                      | 547                            |
| Other <sup>1</sup>                                  | 1 165                      | 1 388                          | 5 037                    | 5 183                          |
| Eliminations  | - 24 683                   | - 25 629 <sup>3</sup>          | - 76 176                 | - 83 711 <sup>3</sup>          |
| Total continuing operations                         | _                          | _                              | _                        | _                              |
| Discontinued operations                             | _                          | _                              | _                        | _                              |
| Total   | _                          | _                              | _                        | _                              |
| Total autoples                                      |                            |                                |                          |                                |
| Total net sales                                     | 20.000                     | 22 500                         | 60 000                   | 07 500                         |
| Customers & Solutions                               | 20 066<br>28 340           | 23 596<br>30 795 <sup>3</sup>  | 69 230<br>98 997         | 87 523<br>91 643 <sup>3</sup>  |
| Power Generation                                    |                            |                                |                          |                                |
| Wind<br>Heat  | 2 183<br>9 712             | 2 155<br>7 499 <sup>3</sup>    | 6 702<br>28 414          | 6 769<br>27 345 <sup>3</sup>   |
| Distribution  |                            |                                | 28 414<br>19 661         | 19 914                         |
| - of which, Distribution Germany                    | 5 267                      | 5 578                          |                          |                                |
| •   | 2 376                      | 2 829                          | 8 932<br>10 730          | 10 030                         |
| - of which, Distribution Sweden  Other <sup>1</sup> | 2 891                      | 2 749                          | 10 729<br><b>5 363</b>   | 9 884<br><b>5 361</b>          |
|   | 1 334                      | 1 433<br>- 28 688 <sup>3</sup> | 5 363                    | 5 361<br>- 94 979 <sup>3</sup> |
| Eliminations Total continuing operations            | - 29 106<br>27 706         |                                | - 89 159<br>130 208      |                                |
|   | 37 796<br>117 <sup>4</sup> | <b>42 368</b><br>3 131         | <b>139 208</b><br>13 459 | <b>143 576</b> 20 934          |
| Discontinued operations  Total                      |                            |                                |                          |                                |
| Total   | 37 913                     | 45 499                         | 152 667                  | 164 510                        |



### **Operating segments, Vattenfall Group cont.**

| Amounts in SEK million  | Q4<br>2016         | Q4<br>2015                | Full year<br>2016 | Full year<br>2015          |
|---|--------------------|---------------------------|-------------------|----------------------------|
| Operating profit before depreciation, amortisation and impairment losses (EBITDA)   | 20.0               | 20.0                      | 20.0              |                            |
| Customers & Solutions   | 654                | 239                       | 2 775             | 1 657                      |
| Power Generation  | - 2 263            | 2 226 <sup>3</sup>        | 3 962             | 12 754 <sup>3</sup>        |
| Wind  | 1 389              | 1 138                     | 4 442             | 4 282                      |
| Heat  | 2 301              | 1 501 <sup>3</sup>        | 7 062             | 5 632 <sup>3</sup>         |
| Distribution  | 1 834              | 2 393                     | 7 644             | 8 143                      |
| - of which, Distribution Germany  | 184                | 881                       | 1 337             | 2 649                      |
| - of which, Distribution Sweden   | 1 650              | 1 512                     | 6 307             | 5 494                      |
| Other <sup>1</sup>  | - 788              | 37                        | 1 326             | - 1 831                    |
| Eliminations  | 186                | 195                       | - 2               | - 33                       |
| Total continuing operations   | 3 313              | 7 729                     | 27 209            | 30 604                     |
| Discontinued operations   | 24 4               | 1 106                     | 943               | 2 150                      |
| Total   | 3 337              | 8 835                     | 28 152            | 32 754                     |
| Total   | 3 331              | 8 833                     | 20 132            | 32 7 34                    |
| Underlying operating profit before depreciation, amortisation and impairment losses |                    |                           |                   |                            |
| Customers & Solutions   | 670                | 274                       | 2 825             | 2 271                      |
| Power Generation  | 4 642              | <b>4 295</b> <sup>3</sup> | 14 354            | <b>15 822</b> <sup>3</sup> |
| Wind  | 1 378              | 1 489                     | 4 297             | 4 621                      |
| Heat  | 2 435              | 1 <b>528</b> <sup>3</sup> | 7 059             | 5 689 <sup>3</sup>         |
| Distribution  | 1 850              | 2 402                     | 7 669             | 8 189                      |
| - of which, Distribution Germany  | 190                | 881                       | 1 355             | 2 683                      |
| - of which, Distribution Sweden   | 1 660              | 1 521                     | 6 314             | 5 506                      |
| Other <sup>1</sup>  | - 281              | 39                        | - 58              | - 1 330                    |
| Eliminations  | 186                | 195                       | - 2               | - 33                       |
| Total continuing operations   | 10 880             | 10 222                    | 36 144            | 35 229                     |
| Discontinued operations   | - 135 <sup>4</sup> | 1 132                     | 2 068             | 4 775                      |
| Total   | 10 745             | 11 354                    | 38 212            | 40 004                     |
|   |                    |                           |                   |                            |



### **Operating segments, Vattenfall Group cont.**

|   | Q4                 | Q4                        | Full year | Full year                   |
|---|--------------------|---------------------------|-----------|-----------------------------|
| Amounts in SEK million                              | 2016               | 2015                      | 2016      | 2015                        |
| Operating profit (EBIT)                             |                    |                           |           |                             |
| Customers & Solutions                               | 361                | 22                        | 1 749     | 775                         |
| Power Generation                                    | - 4 412            | 1 512 <sup>3</sup>        | - 3 648   | <b>- 7 699</b> <sup>3</sup> |
| Wind  | 413                | 136                       | 898       | 931                         |
| Heat  | 416                | 183 <sup>3</sup>          | - 3 366   | <b>- 2 555</b> <sup>3</sup> |
| Distribution  | 1 104              | 1 695                     | 4 838     | 5 419                       |
| - of which, Distribution Germany                    | - 38               | 674                       | 527       | 1 848                       |
| - of which, Distribution Sweden                     | 1 142              | 1 021                     | 4 311     | 3 571                       |
| Other <sup>1</sup>                                  | - 909              | - 102                     | 868       | - 1 907                     |
| Eliminations  | 186                | 195                       | - 2       | - 33                        |
| Operating profit (EBIT) continuing operations       | - 2 841            | 3 641                     | 1 337     | - 5 069                     |
| Discontinued operations                             | - 180 <sup>4</sup> | 49                        | - 22 542  | - 17 898                    |
| Operating profit (EBIT)                             | - 3 021            | 3 690                     | - 21 205  | - 22 967                    |
| Operating profit (EBIT) continuing operations       | - 2 841            | 3 641                     | 1 337     | - 5 069                     |
| Financial income and expenses continuing operations | - 2 017            | - 1 127                   | - 6 382   | - 4 776                     |
| Profit before tax from continuing operations        | - 4 858            | 2 514                     | - 5 045   | - 9 845                     |
| Underlying operating profit                         |                    |                           |           |                             |
| Customers & Solutions                               | 399                | 58                        | 1 830     | 1 390                       |
| Power Generation                                    | 3 861              | <b>3 584</b> <sup>3</sup> | 11 410    | <b>12 376</b> <sup>3</sup>  |
| Wind  | 398                | 627                       | 878       | 1 469                       |
| Heat  | 1 532              | 335 <sup>3</sup>          | 3 230     | 1 759 <sup>3</sup>          |
| Distribution  | 1 120              | 1 703                     | 4 863     | 5 465                       |
| - of which, Distribution Germany                    | - 33               | 675                       | 544       | 1 881                       |
| - of which, Distribution Sweden                     | 1 153              | 1 028                     | 4 319     | 3 584                       |
| Other <sup>1</sup>                                  | - 401              | - 95                      | - 512     | - 1 897                     |
| Eliminations  | 186                | 195                       | - 2       | - 33                        |
| Underlying operating profit continuing operations   | 7 095              | 6 407                     | 21 697    | 20 529                      |
| Discontinued operations                             | - 152 <sup>4</sup> | 42                        | - 4       | 12                          |
| Underlying operating profit                         | 6 943              | 6 449                     | 21 693    | 20 541                      |

 <sup>&</sup>quot;Other" pertains mainly to all Staff functions, including Treasury and Shared Service Centres.
 For external net sales, eliminations pertain to sales to the Nordic electricity exchange.
 The value for 2015 has been recalculated compared with information previously published in Vattenfall's 2015 interim reports and 2015 Annual and Sustainability Report. This is because the lignite operations have been divested and are reported as a discontinued operation in accordance with IFRS 5.

<sup>4)</sup> The value for Q4 2016 pertains in all essential respects to the recognised exchange rate effect on the value of divested operations in Q1-3 2016.



### **Consolidated balance sheet**

| Total Vaterial, amounts in SEK million         2015         2015           Assets         Non-current assets         15 702         2015           Non-current assets         11 8 702         17 506         24 508           Peparty, plant and equipment impositions of property         12 9         24 508         38 309         38 308 <t< th=""><th></th><th></th><th>7</th></t<>  |   |                                       | 7       |
|--|---|---------------------------------------|---------|
| Assets   Abone-trans   Abone   | Total Vattenfall amounts in SEK million | · · · · · · · · · · · · · · · · · · · | 31 Dec. |
| Non-current assets         1         70.00   |   | 2010                                  | 2010    |
| Intengable assets: non-current         15 752         27 536           Propeptry, plant and squipment         217 18         338           Biological sissets         43         338           Biological sissets         43         70           Participations in associated companies and joint arrangements         483         70           Other shares and participations         318         27           Share in the Swedish Nuclear Vasie Fund         318         23           Derivative assets         1103         22           Courrent assets         11 00         22           Propaled expenses         15 03         9.28           Other non-current receivables         37.88         9.28           Other non-current receivables         15 03         9.48           Current assets         11 05         16           Current assets         11 05         16           Current assets         15 03         19           Propaid expenses and decrued income         6 03  |   |                                       |         |
| Picpentry, John and equipment (mosterment properly)         121 735         24 856 238           Biological assets         34         38           Biological assets         48         39           Participations in associated companies and joint arrangements         48 39         38           Other shares and participations         11 81         273           Shares in the Swedish Nuclear Waste Fund         30 59         34 172           Current tax assets, non-current         20         100           Delierrod tax assets         20         100           Current tax assets, non-current recovables         37 88         9.48           Total non-current assets         304 628         33 291           Courrent taxes         11 53         20 60           Courrent taxes         13 15         10 60           Intensible assets current         31 5         10 10           Delivative assets         11 65 62         10 65 82           Courrent taxes         11 65 62         10 65 82           Sont 4 semi-invention participation  |   | 16 792                                | 17 564  |
| Investment property   128   388   881   581      | -                                       |                                       |         |
| Seliogical assets  |   |                                       |         |
| Participations in associated companies and joint arrangements         4 830         7 020           Other shares and participations         1818         273           Share in the Swedich Nuclear Waste Fund         36 199         34 172           Delivative assetts         14 030         20 220           Current tax assets, non-current         20         103           Delivative assetts         11 503         29 55           Other non-current taccivables         3 788         9 484           Total non-current assets         11 506         10 50           Inventories         14 566         10 502           Biological assets         1 1 506         10 502           Inventories         2 500         10 50           Biological assets         1 1 50         1 50           Inventories         2 500         1 50           Biological assets         1 50         1 50           Inventories assets         1 50         1 50           Current assets         1 1 40         1 50           Current assets         1 1 40  |   |                                       |         |
| Ober shares and participations         118         273           Shara in the Swedish Nuclear Waste Fund         36         9         34         722         Dehrative assets         110         20   | -                                       |                                       |         |
| Share in the Swedish Nuclear Waste Fund         36 199         34 172           Derivative assets         14 036         20 20           Current tax assets, non-current         20         100           Defined de Assets         20         100           Other non-current receivables         3 788         9 484           Other non-current receivables         3 788         9 494           Current assets         11 533         3 291           Current assets         11 530         3 3291           Current assets         13 191         11 51           Intelligible assets: current         31 5         1 981           Intelligible assets: current         31 5         1 981           Tradia receivables and other receivables         26 08         26 193           Advance payments paid         1 31         1 981           Derivative assets         1 0 656         1 4 586           Current tax assets         1 0 656         1 4 586           Current tax assets         1 3 1         3 20           Sch1 attact (asset) equivalents         1 9 956         1 2 54           Sch2 tax (asset) explored tax (asset) explored tax (asset) explored tax (asset)         1 9 62         1 9 62           Total current assets  |   |                                       | 273     |
| Derivative assets         14 006         22 220           Current tax assets, non-current         20         103           Defered tax assets         11 53         206           Other non-current receivables         3788         9.484           Total non-current assets         304 628         33 3291           Current assets         11 50         16 502           University         11 50         16 502           Biological assets         13 5         1 001           Intendible assets: current         13 5         1 001           Trade receivables and other receivables         26 103         3 10           Advance payments paid         1 11 1         5 007           Derivative assets         1 10 005         1 4 067           Prepaid expenses and accured income         6 43 5 308         3 50           Current tax assets         1 23 227         3 1 505           Short-term investments         2 2 27 3 1 505         1 22 327           Assets held for sale         98 22 22         2 3 30           Total assets         104 502         1 19 502           Equity and liabilities         1 19 502         1 19 502           Equity and liabilities         1 19 502         1 19 502 <tr< td=""><td>·</td><td></td><td></td></tr<>   | ·                                       |                                       |         |
| Propola opspenes         20         10.00         20.00  |   |                                       | 20 220  |
| Prepad appeanes         20         103           Other non-current receivables         3788         9265           Other non-current receivables         304 623         332 3291           Current assets         304 623         304 3291           Current assets         11 566         16 562           Biological assets         11 566         16 562           Biological assets         13 5         10 91           Trade receivables and other receivables         26 008         26 133           Advance payments paid         13 13         3 07           Derivative assets         10 065         26 133           Oberivative assets         10 065         26 133           Short-term investments         23 237         3 050           Cash and cache jevulvaters         23 237         3 100           Assets held for sale         19 995         12 25           Assets held for sale         10 452         110 620           Equity and liabilities         19 925         10 3 84           Equity and liabilities         15 523         11 927           Total equity         8 27         10 3 84           Attributable to cover of the Parent Company         8 12 5         10 3 84           Hyb  | Current tax assets, non-current         | _                                     | 222     |
| Deferred Lax assets         31 538         9.26%           Othar non-current receivables         394 623         343 291           Current assets         18 569         18 569           Inventiones         16 569         15 592           Biological assets         13 31         19 11         11 31         19 19 11           Intemptione assets         26 008         26 133         10 19 11         3 607         10 666         14 667         13 11         3 607         13 11         3 607         13 11         3 607         13 11         3 607         14 668         14 668         14 668         14 668         14 668         14 668         14 668         14 668         14 668         14 668         14 668         14 668         14 668         14 668         14 668         14 668         14 668         14 668         14 668   |   | 20                                    | 103     |
| Other non-current receivables         3 788         9 484           Total non-current assets         304 628         343 291           Inventorises         14 566         16 592           Biological assets         13         19           Inventories         15         19           Biological assets         13         19           Trade receivables and other receivables         26 008         26 133           Advance payments paid         10 666         14 670           Divirative assets         10 666         463         593           Divirative assets         13 14         3 285           Short-term livestiments         23 297         31 905           Cash and cash equivalents         99 50         12 31           Short-term livestiments         68 43         380           Total assets         10 4 522         119 956           Equity and liabilities         68 44         3 80           Equity and liabilities         68 272         10 3 964           Equity and liabilities         15 258         11 972           Total assets         10 4 522         119 926           Non-current liabilities         68 272         10 3 964           Non-current liabilities <td></td> <td></td> <td>9 265</td>  |   |                                       | 9 265   |
| Total non-current assets         304 628         343 291           Current assets         8           Biological assets         14 566         16 569           Biological assets         13         19           Intemplible assets: current         315         109           Tade receivables and other receivables         26 008         26 133           Advance payments paid         1 311         3 307           Derivative assets         1 6 64         5 936           Propial expenses and accrued income         6 463         5 936           Current txx assets         1 314         2 28           Short-term investments         2 23 297         31 905           Cash and cash equivalents         1 995         1 2 314           Assets held for sale         994         3 980           Total current assets         409 280         462 317           Equity and liabilities         684 271         103 984           Equity and liabilities         887 272         103 984           Equity and liabilities         888 272         103 984           Charles assets         409 280         462 317           Total current liabilities         15 528         11 972           Total provisions  |   |                                       | 9 484   |
| Inventories         14 566         16 592         16  |   |                                       | 343 291 |
| Inventories         14 566         16 592         16  | Current assets                          |                                       |         |
| Biological assets   13   19   11   11   11   13   19   11   13   19   11   13   19   13   19   13   19   13   19   13   19   13   19   13   19   13   19   13   19   13   19   13   19   13   19   13   13   |   | 14 566                                | 16 592  |
| Intangible assets: current         315         1 091           Trade receivables and other receivables         26 008         26 193           Advance payments paid         1 311         3 607           Derivative assets         10 656         14 667           Prepaid expenses and accrued income         6 463         5 936           Current tax assets         1 314         3 285           Short-term investments         23 297         31 905           Cash and cash equivalents         19 95         12 351           Assets held for sale         664         3 880           Total current assets         104 632         119 026           Total assets         409 260         462 317           Equity and liabilities         409 260         462 317           Equity and liabilities         21 19 026         462 317           Equity and liabilities         1 15 528         11 972           Total equity         88 272         103 984           Attributable to owner of the Parent Company         46 8 272         103 984           Mithibutable to owner of the Parent Company         48 272         103 984           Non-current liabilities         1 9 164         18 546           Non-current liabilities         1 9 164   |   |                                       | 19      |
| Trade receivables and other receivables         26 008         26 133           Advance payments paid         1 311         3 607           Derivative assets         10 66         14 667           Prepaid expenses and accrued income         6 463         5 936           Current it as assets         1 314         3 285           Short-term investments         23 297         31 955           Cash and cash equivalents         19 995         1 2 351           Assets held for sale         694         3 980           Total current assets         104 632         119 026           Total assets         409 260         462 317           Equity and liabilities         409 260         462 317           Equity and liabilities         10 3 984         119 192           Equity and liabilities         1 5 528         11 972           Total equity         38 800         115 528         11 972           Total equity         38 800         115 528         11 972           Total equity         38 90         15 556         11 972           Non-current liabilities         19 164         18 546         60 479           Pension provisions         19 164         18 546         60 479 <t< td=""><td>-</td><td></td><td></td></t<>  | -                                       |                                       |         |
| Advance payments paid Derivative assets 10 656 11 607 Prepaid expenses and accrued income 6 463 5 936 Current tax assets 1 1314 3 285 Short-term investments 23 297 13 1905 Cash and cash equivalents 4 19 955 12 351 Assets held for sale 6 493 3 980 Total current assets 10 4632 11 9955 12 351 Assets held for sale 10 4632 11 9026 11 902 |   |                                       | 26 193  |
| Derivative assets         10 656         14 067           Prepaid expenses and accrued income         6.463         5.936           Current tax assets         1.314         3.285           Short-term investments         23 297         31 905           Cash and cash equivalents         1995         1.231           Assets held for sale         694         3 980           Total current assets         104 632         119 026           Total sests         409 260         462 317           Equity and liabilities         409 260         462 317           Equity and liabilities         5         11 927           Attributable to owner of the Parent Company         68 272         103 984           Attributable to non-controlling interests         15 528         11 972           Total equity         83 800         115 956           Whord Capital         19 164         8 546           Other interest-bearing liabilities         19 164         8 19 46           Perison provisions         40 644         38 919           Derivative liabilities         12 46         10 579           Derivative liabilities         23 63 23         258 508           Current liabilities         25 300         23 95  |   |                                       |         |
| Prepaid expenses and accrued income         6 463         5 936           Current tax assets         1 314         3 285           Short-term investments         23 297         31 995           Cash and cash equivalents         19 995         12 351           Assets held for sale         694         3 980           Total current assets         104 632         119 026           Total assets         409 260         462 317           Equity and liabilities         2         10 3 984           Equity and liabilities         5         11 972           Equity and liabilities         15 528         11 972           Total acquity         68 272         103 984           Attributable to non-controlling interests         15 528         11 972           Total equity         83 800         115 528           Non-current liabilities         19 164         18 1540           Non-current liabilities         19 164         18 1540           Other interest-bearing provisions         40 64 43         38 919           Pension provisions         40 64 43         38 919           Other interest-bearing liabilities         12 464         10 579           Defired tax liabilities         25 30 32         258 508  |   |                                       |         |
| Current lax assets         1 314         3 285           Short-term investments         23 297         31 905           Cash and cash equivalents         694         3 980           Assets held for sale         694         3 980           Total current assets         104 632         119 026           Total assets         409 260         462 317           Equity         68 272         103 984           Attributable to owner of the Parent Company         68 272         103 984           Attributable to owner of the Parent Company         68 8 272         103 984           Attributable to non-controlling interests         15 528         11 528           Non-current liabilities         11 9 164         18 546           Other interest-bearing liabilities         63 494         68 179           Persion provisions         63 494         68 179           Other interest-bearing provisions         79 341         93 042           Derivative liabilities         12 464         10 579           Other on controllest-bearing liabilities         12 464         10 579           Other noninterest-bearing liabilities         23 3 28         58 508           Current liabilities         23 63 32         28 508           Current liabi  |   |                                       |         |
| Cash and cash equivalents         19 995         12 351           Assets held for sale         694         3 980           Total current assets         409 260         462 317           Equity and liabilities          68 272         103 984           Attributable to owner of the Parent Company         68 272         103 984           Attributable to non-controlling interests         15 528         11 972           Total equity         83 800         115 956           Non-current liabilities         19 164         18 546           Other interest-bearing liabilities         63 494         68 179           Pension provisions         40 644         38 919           Other interest-bearing provisions         79 341         39 042           Deferred tax liabilities         12 464         10 579           Deferred tax liabilities         12 464         10 579           Other noninterest-bearing liabilities         25 330         23 958           Current liabilities         25 330         23 958           Current liabilities         25 330         23 958           Current liabilities         11 552         8 023           Derivative liabilities         25 330         23 958 <t< td=""><td></td><td></td><td>3 285</td></t<>  |   |                                       | 3 285   |
| Assets held for sale         694         3 980           Total current assets         104 632         119 026           Total assets         409 260         462 317           Equity and liabilities         Equity and liabilities         Equity and liabilities           Equity         68 272         103 984           Attributable to owner of the Parent Company         68 272         103 984           Attributable to non-controlling interests         15 528         11 972           Total equity         83 800         15 528         11 972           Non-current liabilities         19 164         18 546         18 546           Other interest-bearing liabilities         63 494         68 179         29 170         20 18 18         18 546  | Short-term investments                  |                                       | 31 905  |
| Assets held for sale         694         3 980           Total current assets         104 632         119 026           Total assets         409 260         462 317           Equity and liabilities         Equity         Equity           Attributable to owner of the Parent Company         68 272         103 984           Attributable to non-controlling interests         15 528         11 972           Total equity         83 800         15 568         11 972           Non-current liabilities         19 164         18 546         60 115 956           Whydrid Capital         19 164         18 546         61 879         68 179           Pension provisions         40 644         38 919         68 179         99 341         93 042         68 179         99 341         93 042         68 179         99 341         93 042         68 179         99 341         93 042         68 179         99 341         93 042         68 179         99 341         93 042         68 179         99 341         93 042         68 179         99 341         93 042         96 044         10 579         94 11 776         92 970         97 041         97 041         98 042         97 041         97 041         97 041         97 041         97 041 <t< td=""><td></td><td></td><td>12 351</td></t<>   |   |                                       | 12 351  |
| Total assets         409 260         462 317           Equity and liabilities         Equity           Attributable to owner of the Parent Company         68 272         103 984           Attributable to non-controlling interests         15 528         11 972           Total equity         83 800         115 956           Non-current liabilities         40 64         18 546           Other interest-bearing liabilities         63 494         68 179           Pension provisions         40 644         38 919           Other interest-bearing provisions         79 341         39 042           Deformed tax liabilities         12 464         10 579           Deferred tax liabilities         14 776         22 970           Other noninterest-bearing liabilities         6 440         6 273           Total non-current liabilities         25 330         23 958           Current tax liabilities         2 15 42         293           Current tax liabilities         15 481         19 969           Current tax liabilities         18 88 <th< td=""><td></td><td>694</td><td>3 980</td></th<>  |   | 694                                   | 3 980   |
| Equity and liabilities         Equity           Attributable to owner of the Parent Company         68 272 103 984 Attributable to non-controlling interests         15 528 11 972 103 984 11 972 103 98   | Total current assets                    | 104 632                               | 119 026 |
| Equity       68 272       103 984         Attributable to owner of the Parent Company       68 272       103 984         Attributable to non-controlling interests       15 528       11 972         Total equity       83 80       15 568         Non-current liabilities       87 80       15 548         Hybrid Capital       19 164       18 546         Other interest-bearing liabilities       63 494       68 179         Pension provisions       40 644       38 919         Other interest-bearing provisions       79 341       93 042         Deferred tax liabilities       12 464       10 579         Deferred tax liabilities       14 776       22 970         Other noninterest-bearing liabilities       6 440       6 273         Total non-current liabilities       26 330       23 808         Current liabilities       25 330       23 958         Current liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       18 83       36         Current princerest-bearing liabilities <td>Total assets</td> <td>409 260</td> <td>462 317</td>  | Total assets                            | 409 260                               | 462 317 |
| Equity       68 272       103 984         Attributable to owner of the Parent Company       68 272       103 984         Attributable to non-controlling interests       15 528       11 972         Total equity       83 80       15 568         Non-current liabilities       87 80       15 548         Hybrid Capital       19 164       18 546         Other interest-bearing liabilities       63 494       68 179         Pension provisions       40 644       38 919         Other interest-bearing provisions       79 341       93 042         Deferred tax liabilities       12 464       10 579         Deferred tax liabilities       14 776       22 970         Other noninterest-bearing liabilities       6 440       6 273         Total non-current liabilities       26 330       23 808         Current liabilities       25 330       23 958         Current liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       18 83       36         Current princerest-bearing liabilities <td>Equity and liabilities</td> <td></td> <td></td>  | Equity and liabilities                  |                                       |         |
| Attributable to owner of the Parent Company       68 272       103 984         Attributable to non-controlling interests       15 528       11 972         Total equity       83 800       15 956         Non-current liabilities       ****       ****         Hybrid Capital       19 164       18 546         Other interest-bearing liabilities       63 494       68 179         Pension provisions       40 644       38 919         Other interest-bearing provisions       79 341       93 042         Deferred tax liabilities       12 464       10 579         Deferred tax liabilities       14 776       22 970         Other noninterest-bearing liabilities       6 440       6 273         Total non-current liabilities       25 330       23 958         Current liabilities       25 330       23 958         Current liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       18 83       306         Current tax liabilities       18 309       30         Current privative liabilities </td <td></td> <td></td> <td></td>   |   |                                       |         |
| Attributable to non-controlling interests       15 528       11 972         Total equity       83 800       115 956         Non-current liabilities       19 164       18 546         Hybrid Capital       19 164       18 546         Other interest-bearing liabilities       63 494       68 179         Pension provisions       40 644       38 919         Other interest-bearing provisions       79 341       93 042         Derivative liabilities       12 464       10 579         Deferred tax liabilities       14 776       22 970         Other noninterest-bearing liabilities       6 440       6 273         Total non-current liabilities       25 330       23 958         Current liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       25 330       23 958         Accrued expenses and deferred income        15 541       19 969         Current tax liabilities       18 88       30 6         Other interest-bearing liabilities       14 009       23 860         Other interest-bearing liabilities       18 359       6 302         Liabilities associated with assets held for sale       354       3 142   |   | 68 272                                | 103 984 |
| Total equity       83 800       115 956         Non-current liabilities       Hybrid Capital       19 164       18 546       Other interest-bearing liabilities       63 494       68 179       Pension provisions       40 644       38 919       Other interest-bearing provisions       79 341       93 042       Defivative liabilities       12 464       10 579       Other noninterest-bearing liabilities       12 464       10 579       Other noninterest-bearing liabilities       6 440       6 273         Total non-current liabilities       23 6 323       258 508         Current liabilities       2 164       2 293         Trade payables and other liabilities       2 164       2 293         Advance payments received       2 164       2 293         Derivative liabilities       1 1552       8 023         Accrued expenses and deferred income       1 1541       19 969         Current tax liabilities       1 8 88       306       302         Other interest-bearing liabilities       1 8 88       306       309       3 860 <t< td=""><td></td><td>15 528</td><td>11 972</td></t<>   |   | 15 528                                | 11 972  |
| Hybrid Capital       19 164       18 546         Other interest-bearing liabilities       63 494       68 179         Pension provisions       40 644       38 919         Other interest-bearing provisions       79 341       93 042         Defivative liabilities       12 464       10 579         Deferred tax liabilities       14 776       22 970         Other noninterest-bearing liabilities       6 440       6 273         Total non-current liabilities       26 332       258 508         Current liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       2 15 481       1 9 969         Accrued expenses and deferred income       1 1 552       8 023         Accrued expenses and deferred income       1 8 88       366         Other interest-bearing liabilities       1 8 88       366         Other interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853   | Total equity                            |                                       | 115 956 |
| Hybrid Capital       19 164       18 546         Other interest-bearing liabilities       63 494       68 179         Pension provisions       40 644       38 919         Other interest-bearing provisions       79 341       93 042         Defivative liabilities       12 464       10 579         Deferred tax liabilities       14 776       22 970         Other noninterest-bearing liabilities       6 440       6 273         Total non-current liabilities       26 332       258 508         Current liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       2 15 481       1 9 969         Accrued expenses and deferred income       1 1 552       8 023         Accrued expenses and deferred income       1 8 88       366         Other interest-bearing liabilities       1 8 88       366         Other interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853   | Non-current liabilities                 |                                       |         |
| Other interest-bearing liabilities       63 494       68 179         Pension provisions       40 644       38 919         Other interest-bearing provisions       79 341       93 042         Derivative liabilities       12 464       10 579         Deferred tax liabilities       14 776       22 970         Other noninterest-bearing liabilities       6 440       6 273         Total non-current liabilities       236 323       258 508         Current liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       1 888       306         Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853  |   | 19 164                                | 18 546  |
| Pension provisions       40 644       38 919         Other interest-bearing provisions       79 341       93 042         Derivative liabilities       12 464       10 579         Deferred tax liabilities       14 776       22 970         Other noninterest-bearing liabilities       6 440       6 273         Total non-current liabilities       236 323       258 508         Current liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       1 888       306         Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853   |   |                                       |         |
| Other interest-bearing provisions       79 341       93 042         Derivative liabilities       12 464       10 579         Deferred tax liabilities       14 776       22 970         Other noninterest-bearing liabilities       6 440       6 273         Total non-current liabilities       236 323       258 508         Current liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       1 888       306         Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853  | -                                       |                                       |         |
| Derivative liabilities       12 464       10 579         Deferred tax liabilities       14 776       22 970         Other noninterest-bearing liabilities       6 440       6 273         Total non-current liabilities       236 323       258 508         Current liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       1 888       306         Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853  | ·                                       |                                       |         |
| Deferred tax liabilities       14 776       22 970         Other noninterest-bearing liabilities       6 440       6 273         Total non-current liabilities       236 323       258 508         Current liabilities       8 25 330       23 958         Trade payables and other liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       1 888       306         Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853  |   |                                       | 10 579  |
| Other noninterest-bearing liabilities         6 440         6 273           Total non-current liabilities         236 323         258 508           Current liabilities         25 330         23 958           Trade payables and other liabilities         25 330         23 958           Advance payments received         2 164         2 293           Derivative liabilities         11 552         8 023           Accrued expenses and deferred income         15 481         19 969           Current tax liabilities         1 888         306           Other interest-bearing liabilities         14 009         23 860           Interest-bearing provisions         18 359         6 302           Liabilities associated with assets held for sale         354         3 142           Total current liabilities         89 137         87 853   | Deferred tax liabilities                | 14 776                                | 22 970  |
| Current liabilities         Trade payables and other liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       1 888       306         Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853   | Other noninterest-bearing liabilities   | 6 440                                 | 6 273   |
| Trade payables and other liabilities       25 330       23 958         Advance payments received       2 164       2 293         Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       1 888       306         Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853   | Total non-current liabilities           | 236 323                               | 258 508 |
| Advance payments received       2 164       2 293         Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       1 888       306         Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853  | Current liabilities                     |                                       |         |
| Advance payments received       2 164       2 293         Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       1 888       306         Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853  | Trade payables and other liabilities    | 25 330                                | 23 958  |
| Derivative liabilities       11 552       8 023         Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       1 888       306         Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853  |   |                                       | 2 293   |
| Accrued expenses and deferred income       15 481       19 969         Current tax liabilities       1 888       306         Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853  |   |                                       | 8 023   |
| Current tax liabilities       1 888       306         Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853   | Accrued expenses and deferred income    | 15 481                                | 19 969  |
| Other interest-bearing liabilities       14 009       23 860         Interest-bearing provisions       18 359       6 302         Liabilities associated with assets held for sale       354       3 142         Total current liabilities       89 137       87 853   | ·                                       | 1 888                                 | 306     |
| Interest-bearing provisions         18 359         6 302           Liabilities associated with assets held for sale         354         3 142           Total current liabilities         89 137         87 853  |   |                                       | 23 860  |
| Liabilities associated with assets held for sale 354 3 142 Total current liabilities 89 137 87 853   | -                                       |                                       | 6 302   |
|  |   |                                       | 3 142   |
|  | Total current liabilities               | 89 137                                | 87 853  |
|  | Total equity and liabilities            | 409 260                               | 462 317 |



### Consolidated balance sheet, cont.

### Supplementary information

| Supplementary information   |                 |                 |
|---|-----------------|-----------------|
| Amounts in SEK million <sup>1</sup>   | 31 Dec.<br>2016 | 31 Dec.<br>2015 |
| Calculation of capital employed   |                 |                 |
| Intangible assets: current and non-current  | 17 107          | 18 655          |
| Property, plant and equipment   | 217 136         | 244 563         |
| Participations in associated companies and joint arrangements                           | 4 839           | 7 002           |
| Deferred and current tax assets   | 12 852          | 12 550          |
| Non-current noninterest-bearing receivables   | 2 659           | 8 309           |
| Inventories   | 14 566          | 16 592          |
| Trade receivables and other receivables   | 26 008          | 26 193          |
| Prepaid expenses and accrued income   | 6 463           | 5 936           |
| Unavailable liquidity   | 6 995           | 6 813           |
| Other   | 484             | 719             |
| Total assets excl. financial assets   | 309 109         | 347 332         |
| Deferred and current tax liabilities  | - 16 664        | - 23 276        |
| Other noninterest-bearing liabilities   | - 6 440         | - 6 273         |
| Trade payable and other liabilities   | - 25 330        | - 23 958        |
| Accrued expenses and deferred income  | - 15 481        | - 19 969        |
| Other   | _ '             | - 77            |
| Total noninterest-bearing liabilities   | - 63 915        | - 73 553        |
| Other interest-bearing provisions not related to adjusted net debt <sup>2</sup>         | - 12 505        | - 9 188         |
| Capital employed <sup>3</sup>   | 232 689         | 264 591         |
| Capital employed, average   | 248 640         | 279 435         |
| Calculation of net debt   | ļ               |                 |
| Hybrid Capital  | - 19 164        | - 18 546        |
| Bond issues, commercial paper and liabilities to credit institutions                    | - 55 807        | - 68 898        |
| Present value of liabilities pertaining to acquisitions of Group companies              | - 51            | _               |
| Liabilities to associated companies   | - 2 798         | - 2 751         |
| Liabilities to owners of non-controlling interests                                      | - 10 109        | - 13 041        |
| Other liabilities   | - 8 738         | - 7 349         |
| Total interest-bearing liabilities  | - 96 667        | - 110 585       |
| Cash and cash equivalents   | 19 995          | 12 351          |
| Short-term investments  | 23 297          | 31 905          |
| Loans to owners of non-controlling interests in foreign Group companies                 | 2 651           | 2 128           |
| Net debt <sup>3</sup>   | - 50 724        | - 64 201        |
| Calculation of adjusted gross debt and net debt   |                 |                 |
| Total interest-bearing liabilities  | - 96 667        | - 110 585       |
| 50% of Hybrid Capital <sup>4</sup>  | 9 582           | 9 273           |
| Present value of pension obligations  | - 40 644        | - 38 919        |
| Provisions for mining, gas and wind operations and other environment-related provisions | - 4 367         | - 19 099        |
| Provisions for nuclear power (net) <sup>5</sup>   | - 41 896        | - 32 944        |
| Margin calls received   | 3 961           | 5 307           |
| Liabilities to owners of non-controlling interests due to consortium agreements         | 8 993           | 11 939          |
| Adjusted gross debt   | - 161 038       | - 175 028       |
| Reported cash and cash equivalents and short-term investments                           | 43 292          | 44 256          |
| Unavailable liquidity   | - 6 995         | - 6 813         |
| Adjusted cash and cash equivalents and short-term investments                           | 36 297          | 37 443          |
|   |                 |                 |
| Adjusted net debt <sup>3</sup>  | - 124 741       | - 137 585       |

The amounts as per 31 December 2016 pertain to continuing operations, and the amounts as per 31 December 2015 pertain to Total Vattenfall.

Includes personnel-related provisions for non-pension purposes, provisions for tax and legal disputes and certain other provisions.

See Definitions and calculations of key ratios for definitions of Alternative Performance Measures.

50% of Hybrid Capital is treated as equity by the rating agencies, which thereby reduces adjusted net debt.

The calculation is based on Vattenfall's share of ownership in the respective nuclear power plants, less Vattenfall's share in the Swedish Nuclear Waste Fund and liabilities to associated companies. Vattenfall has the following ownership interests in the respective plants: Forsmark 66%, Ringhals 70.4%, Brokdorf 20%, Brunsbüttel 66.7%, Krümmel 50% and Stade 33.3%. (According to a special agreement, Vattenfall is responsible for 100% of the provisions for Ringhals.)



### **Consolidated statement of cash flows**

| Part   Valid   Valid   Part   Valid   Valid   Part   Valid   Valid |   |         |         |          |          |
|---|---|---------|---------|----------|----------|
| Operating activities         - 5 042         2 515         - 27 975         - 28 192           Profit before tax         - 5 042         2 515         - 27 975         - 28 192           Reversal of depreciation, amortisation and impairment losses         6 539         5 145         49 539         5 5724           Tax poid         - 144         242         1 290         - 1 340           Other, incl. non-cash items         5 618         1 400         6 913         2 674           Funds from operations (FFO)         7 137         9 362         28 186         2 9009           Changes in inventories         - 9 26         - 1 560         1 199         - 553           Changes in inventories         - 9 26         - 1 560         1 199         - 553           Changes in operating receivables         - 9 26         - 1 560         1 199         - 553           Changes in operating seativities         4 253         8 086         3 623         5 775           Other changes         1 9 25         3 3 23         257         1 192           Cash flow from changes in operating assets and operating liabilities         1 1 062         9 595         30 783         40 934           Investing activities         1 1 02         9 595         30 783 </td <td>T</td> <td></td> <td></td> <td>-</td> <td>-</td>   | T   |         |         | -        | -        |
| Profit before tax         5.042         2.515         2.77 975         2.81 122           Reversal of depreciation, amortisation and impairment losses         6.039         5.145         4.9 539         5.72 5.72           Tax paid         -1.44         2.42         1.29.00         -1.340           Capital gains/losses, net         186         6.0         1.581         1.43           Other, Incl. non-capit liems         5.618         1.400         6.913         2.674           Funds from operations (FFO)         7.157         9.362         2.8186         29000           Changes in inventories         -3.931         5.5245         2.287         4.074           Changes in operating recivables         3.3971         5.5245         2.287         4.074           Changes in operating seasts and operating islabilities         3.908         3.63         5.775           Other changes         4.549         1.108         6.2         2.289           Cash flow from operating activities         3.908         3.30         3.0783         4.93           Investments in associated companies and other shares and participations         1.102         5.5         5.41         2.72           Investments in associated companies         1.129         5.5         5.41   | Total Vattentall, amounts in SEK million                                | 2016    | 2015    | 2016     | 2015     |
| Reversal of depreciation, amortisation and impairment losses         6 539         5145         49 539         55724           Tax paid         1444         424         1290         1 140           Capital gains/losses, net         186         6 60         1 581         1430           Cher, Inch. non-cash items         5 618         1 100         6 913         2 674           Funds from operations (FFO)         7157         9 362         28 186         29 000           Changes in inventories         9 296         1 560         1 199         553           Changes in operating receivables         3 397         5 245         2 2287         4 074           Changes in operating gasetis and operating liabilities         3 395         3 308         3 623         5 775           Other changes         4 549         1 1082         9 595         30 783         2 699           Cash flow from changes in operating assets and operating liabilities         3 305         2 33         2 597         1 192           Cash flow from operating activities         1 1062         9 595         30 783         2 699           Investing activities         1 1082         9 595         30 783         2 2 893           Rocipies in activities         1 1092 <td< td=""><td>Operating activities</td><td></td><td></td><td></td><td></td></td<>   | Operating activities  |         |         |          |          |
| Tax paid         1.144         242         1.290         -1.340           Capital gains/losses, net         186         00         -1.581         143           Childer, Inch. non-cash items         5618         1400         -6132         2.674           Funds from operations (FFO)         7157         9.362         28 186         29.009           Changes in inventories         -9.26         -1.580         1.199         -5.53           Changes in operating receivables         -3.971         5.245         -2.287         4.074           Changes in operating isbilities         4.253         3.086         3.632         5.757         Other Changes         4.253         3.086         3.632         5.757         Other Changes in operating assets and operating liabilities         3.905         2.333         2.597         11.92         -2.287         Other Changes in operating activities         1.062         9.595         30.783         40.934         Investing activities         1.062         9.595         30.783         40.934         Investing activities         1.102         9.595         30.783         40.934         Investing activities         1.129         -         -1.29        5         Investing activities         1.129         -         -1.29        5  | Profit before tax   | - 5 042 | 2 515   | - 27 975 | - 28 192 |
| Capital gains/losses, net         186         60         1.581         1430           Other, inch, non-cash items         5618         1.400         6913         2.670           Funds from operations (FFO)         7157         9.362         28.186         2908           Changes in inventories         9.26         -1.580         1.199         -5.53           Changes in operating receivables         3.971         5.245         -2.287         4.074           Changes in operating liabilities         4.253         8.086         3.623         5.775           Chain flow from changes in operating assets and operating liabilities         3.905         2.33         2.597         1.125           Cash flow from operating activities         1.1062         9.595         30.783         40.344           Investing activities         1.1062         9.595         30.783         40.344           Recupitations in Group companies in operating activities         1.129         -         -         1.29         -         5           Investments in accoulated companies and other shares and participations         1.49         5.9         5.41         2.72           Other investments in accounted companies         1.19         5.9         5.41         2.72           Tot   | Reversal of depreciation, amortisation and impairment losses            | 6 539   | 5 145   | 49 539   | 55 724   |
| Other, incl. non-cash items         5 618         1 400         6 913         2 674           Funds from operations (FFO)         7 157         9 362         28 186         29 009           Changes in inventories         - 9 26         - 1 560         1 199         - 553           Changes in operating receivables         - 3 971         - 5 245         - 2 287         4 074           Changes in operating liabilities         4 253         3 006         3 623         5 775           Other changes         4 549         - 1 048         62         2 629           Cash flow from changes in operating assets and operating liabilities         3 305         2 333         2 597         1 11 925           Cash flow from operating activities         11 062         9 595         30 783         40 934           Investing activities         - 129         - 9         - 129         - 5           Investing activities         - 129         - 9         - 54         27 29           Investing activities         - 149         9         541         27 29           Investing activities         - 7 578         - 8 447         - 23 070         - 28 728           Divestments         1 146         4 64         4 406         2 814   | Tax paid  | - 144   | 242     | 1 290    | - 1 340  |
| Punds from operations (FFO)   | Capital gains/losses, net   | 186     | 60      | - 1 581  | 143      |
| Changes in inventories         - 926         - 1 560         1 199         - 524           Changes in operating receivables         - 3 971         - 5 245         - 2 287         4 074           Changes in operating liabilities         4 253         8 066         3 623         5 775           Other changes         4 549         - 1 048         62         2 629           Cash flow from changes in operating assets and operating liabilities         3 905         233         2 597         1 1 92           Cash flow from operating activities         11 062         9 595         30 783         40 934           Investing activities           Acquisitions in Group companies           Acquisitions in Group companies         1 129         5         51         272           Other investments in associated companies and other shares and participations         1 19         59         541         272           Other investments in associated companies and other shares and participations         1 146         464         4 406         2 812           Divestments         1 146         464         4 406         2 814         2 814           Cash and cash equivalents in acquired companies         1 16         2 8         1 99         6 53   | Other, incl. non-cash items   | 5 618   | 1 400   | 6 913    | 2 674    |
| Changes in operating receivables         -3 971         -5 245         -2 287         4 074           Changes in operating liabilities         4 253         8 086         3 623         5 775           Charges         4 549         1 1048         62         2 629           Cash flow from changes in operating assets and operating liabilities         3 905         233         2 597         11 925           Cash flow from operating activities         11 062         9 595         30 783         40 934           Investing activities         -1 129         - 129         - 129         - 5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         11 92         - 129         - 129         - 129         - 5         4         4         4         4         4         4         4         4         4         4         4         4   | Funds from operations (FFO)   | 7 157   | 9 362   | 28 186   | 29 009   |
| Changes in operating receivables         -3 971         -5 245         -2 287         4 074           Changes in operating liabilities         4 253         8 086         3 623         5 775           Charges         4 549         1 1048         62         2 629           Cash flow from changes in operating assets and operating liabilities         3 905         233         2 597         11 925           Cash flow from operating activities         11 062         9 595         30 783         40 934           Investing activities         -1 129         - 129         - 129         - 5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         11 92         - 129         - 129         - 129         - 5         4         4         4         4         4         4         4         4         4         4         4         4   |   |         |         |          |          |
| Changes in operating liabilities         4 253         8 086         3 623         5 775           Other changes         4 549         -1 048         62         2 629           Cash flow from changes in operating assets and operating liabilities         3 905         233         2 597         1 1925           Cash flow from operating activities         11 1062         9 595         30 783         40 934           Investing activities         -1 129         -         - 129         - 5           Investing activities         -1 129         -         - 129         - 5           Investing activities         -1 129         -         - 129         - 5           Investing in organies and other shares and participations         1 49         59         5 541         2 72           Other investments in non-current assets         - 7 578         8 8 447         - 28 902         - 28 726           Divestments         1 16         4 44         4 406         2 814           Cash and cash equivalents in divested companies         98         -         98         -           Cash flow from investing activities         3 612         1 584         1 20 18         1 4 59           Financing activities         3 612         1 584         1 20  | Changes in inventories  |         |         |          |          |
| Other changes         4 549         -1 048         62         2 629           Cash flow from changes in operating assets and operating liabilities         3 905         233         2 597         11 925           Cash flow from operating activities         11 062         9 595         30 783         40 934           Investing activities   | Changes in operating receivables  |         |         |          |          |
| Cash flow from changes in operating assets and operating liabilities         3 905         233         2 597         11 925           Cash flow from operating activities         11 062         9 595         30 783         40 934           Investing activities         Investing activities           Acquisitions in Group companies         1 29         - 129         - 5         5         5         1         272         25         1         272         25         1         272         25         8 506         23 482         228 993         20         1         27         27         28 506         23 482         228 993         20         1         27         27         28 506         23 482         228 993         20         25 63         23 482         228 993         20         28 726         28 93         20         28 726         228 42         228 993         20         28 726         28 67         28 447         23 070         28 726         28 146         28 447         23 070         28 726         28 93         20         28 726         28 93         20         28 726         28 93         20         28 14         28 14         28 14         28 14         28 14         28 14         28 14         28 14  | Changes in operating liabilities  | 4 253   | 8 086   | 3 623    | 5 775    |
| Cash flow from operating activities   | Other changes   | 4 549   | - 1 048 | 62       | 2 629    |
| Investing activities  | Cash flow from changes in operating assets and operating liabilities    | 3 905   | 233     | 2 597    | 11 925   |
| Acquisitions in Group companies   129   | Cash flow from operating activities                                     | 11 062  | 9 595   | 30 783   | 40 934   |
| Acquisitions in Group companies   129   |   |         |         |          |          |
| 149   59   541   272   275  | Investing activities  |         |         |          |          |
| Other investments in non-current assets         - 7 598         - 8 506         - 23 482         - 28 993           Total investments         - 7 578         - 8 447         - 23 070         - 28 726           Divestments         146         464         4 406         2 814           Cash and cash equivalents in acquired companies         98         —         98         —           Cash and cash equivalents in divested companies         - 116         - 28         - 199         - 563           Cash flow from investing activities         - 7 450         - 8 011         - 18 765         - 26 475           Cash flow before financing activities         3 612         1 584         12 018         14 459           Financing activities         3 612         1 584         12 018         14 459           Financing activities         4 474         - 1 581         1 2 004         235           Changes in loans to owners of non-controlling interests in foreign Group companies         4 474         - 1 581         1 2 004         235           Loans raised 1         4 474         - 1 581         1 2 004         235           Loans raised 2         4 474         - 1 581         1 2 004         2 35           Amortisation of debt pertaining to acquisitions of Group companies </td <td>Acquisitions in Group companies</td> <td>- 129</td> <td>_</td> <td>- 129</td> <td>- 5</td>   | Acquisitions in Group companies   | - 129   | _       | - 129    | - 5      |
| Total investments   | Investments in associated companies and other shares and participations | 149     | 59      | 541      | 272      |
| Divestments         146         464         4 406         2 814           Cash and cash equivalents in acquired companies         98         —         98         —           Cash and cash equivalents in divested companies         -116         -28         -199         -563           Cash flow from investing activities         -7 450         -8 011         -18 765         -26 475           Cash flow before financing activities         3 612         1 584         12 018         14 459           Financing activities           Changes in short-term investments         4 474         -1 581         12 004         235           Changes in loans to owners of non-controlling interests in foreign Group companies         - 605         99         - 434         - 783           Loans raised 1         1 482         848         8 764         5 088           Amortisation of debt pertaining to acquisitions of Group companies         — - — — — — — 19 152           Amortisation of other debt         - 2 051         - 2 357         - 21 549         - 10 223           Divestment of shares in Group companies to owners of non-controlling interests         — 30         — 2 745         —           Effect of early termination of swaps related to financing activities         - 433         — 2 2244         1 690   | Other investments in non-current assets                                 | - 7 598 | - 8 506 | - 23 482 | - 28 993 |
| Cash and cash equivalents in acquired companies         98         —         98         —           Cash and cash equivalents in divested companies         - 116         - 28         - 199         - 563           Cash flow from investing activities         - 7 450         - 8 011         - 18 765         - 26 475           Cash flow before financing activities         3 612         1 584         12 018         14 459           Financing activities         Changes in short-term investments         4 474         - 1 581         12 004         235           Changes in loans to owners of non-controlling interests in foreign Group companies         - 605         99         - 434         - 783           Loans raised <sup>1</sup> 1 482         848         8 764         5 088           Amortisation of debt pertaining to acquisitions of Group companies         —         —         —         —         — 19 152           Amortisation of other debt         - 2 051         - 2 357         - 21 549         - 10 223           Divestment of shares in Group companies to owners of non-controlling interests         — 30         —         2 745         —           Effect of early termination of swaps related to financing activities         — 433         — 2 244         1 690           Redemption of Hybrid Cap   | Total investments   | - 7 578 | - 8 447 | - 23 070 | - 28 726 |
| Cash and cash equivalents in acquired companies         98         —         98         —           Cash and cash equivalents in divested companies         - 116         - 28         - 199         - 563           Cash flow from investing activities         - 7 450         - 8 011         - 18 765         - 26 475           Cash flow before financing activities         3 612         1 584         12 018         14 459           Financing activities         Changes in short-term investments         4 474         - 1 581         12 004         235           Changes in loans to owners of non-controlling interests in foreign Group companies         - 605         99         - 434         - 783           Loans raised <sup>1</sup> 1 482         848         8 764         5 088           Amortisation of debt pertaining to acquisitions of Group companies         —         —         —         —         — 19 152           Amortisation of other debt         - 2 051         - 2 357         - 21 549         - 10 223           Divestment of shares in Group companies to owners of non-controlling interests         — 30         —         2 745         —           Effect of early termination of swaps related to financing activities         — 433         — 2 244         1 690           Redemption of Hybrid Cap   | <b>-</b>  |         |         |          |          |
| Cash and cash equivalents in divested companies         - 116         - 28         - 199         - 563           Cash flow from investing activities         - 7 450         - 8 011         - 18 765         - 26 475           Cash flow before financing activities         3 612         1 584         12 018         14 459           Financing activities         Changes in short-term investments         4 4 74         - 1 581         12 004         235           Changes in loans to owners of non-controlling interests in foreign Group companies         - 605         99         - 434         - 783           Loans raised <sup>1</sup> 1 482         848         8 764         5 088           Amortisation of debt pertaining to acquisitions of Group companies         - 605         99         - 434         - 783           Amortisation of other debt         - 2 051         - 2 357         - 21 549         - 10 223           Divestment of shares in Group companies to owners of non-controlling interests         - 30         - 2 2745         - 2           Effect of early termination of swaps related to financing activities         - 433         - 2 244         1 690           Redemption of Hybrid Capital         - 3 484         - 8 2         - 33         - 2 9 172           Issue of Hybrid Capital         - 3 484 </td <td></td> <td></td> <td>464</td> <td></td> <td>2 814</td>   |   |         | 464     |          | 2 814    |
| Cash flow from investing activities         -7 450         -8 011         -18 765         -26 475           Cash flow before financing activities         3 612         1 584         12 018         14 459           Financing activities         Changes in short-term investments           Changes in loans to owners of non-controlling interests in foreign Group companies         4 474         -1 581         12 004         235           Changes in loans to owners of non-controlling interests in foreign Group companies         - 605         99         - 434         - 783           Loans raised¹         1 482         848         8 764         5 085           Amortisation of debt pertaining to acquisitions of Group companies         19 152           Amortisation of other debt         - 2 051         - 2 357         - 21 549         - 10 223           Divestment of shares in Group companies to owners of non-controlling interests         - 30         2745            Effect of early termination of swaps related to financing activities         - 433         2244         1 690           Redemption of Hybrid Capital         9 172         1 8 636         18 636           Dividends paid to owners         - 165         - 180         - 882         - 333   |   |         | _       |          | _        |
| Cash flow before financing activities         3 612         1 584         12 018         14 459           Financing activities         Changes in short-term investments         4 474         -1 581         12 004         235           Changes in loans to owners of non-controlling interests in foreign Group companies         - 605         99         - 434         - 783           Loans raised¹         1 482         848         8 764         5 088           Amortisation of debt pertaining to acquisitions of Group companies           - 19 152           Amortisation of other debt         - 2 051         - 2 357         - 21 549         - 10 223           Divestment of shares in Group companies to owners of non-controlling interests         - 30         -         2 745         -           Effect of early termination of swaps related to financing activities         - 433         -         2 244         1 690           Redemption of Hybrid Capital         -         -         -         -         -         -         9 172           Issue of Hybrid Capital         -         3 484         -         18 636           Dividends paid to owners         -         165         - 180         - 882         - 333           Contribution from owners of   | Cash and cash equivalents in divested companies                         | - 116   | - 28    | - 199    | - 563    |
| Financing activities         4 474         -1 581         12 004         235           Changes in short-term investments         4 474         -1 581         12 004         235           Changes in loans to owners of non-controlling interests in foreign Group companies         - 605         99         - 434         - 783           Loans raised¹         1 482         848         8 764         5 088           Amortisation of debt pertaining to acquisitions of Group companies           - 19 152           Amortisation of other debt         - 2 051         - 2 357         - 21 549         - 10 223           Divestment of shares in Group companies to owners of non-controlling interests         - 30         -         2 745         -           Effect of early termination of swaps related to financing activities         - 433         -         2 244         1 690           Redemption of Hybrid Capital         -         -         -         -         - 9 172           Issue of Hybrid Capital         -         3 484         -         18 636           Dividends paid to owners         -         165         - 180         - 882         - 333           Contribution from owners of non-controlling interests         537         310         2 107         1 973   | Cash flow from investing activities                                     | - 7 450 | - 8 011 | - 18 765 | - 26 475 |
| Financing activities         4 474         -1 581         12 004         235           Changes in short-term investments         4 474         -1 581         12 004         235           Changes in loans to owners of non-controlling interests in foreign Group companies         - 605         99         - 434         - 783           Loans raised¹         1 482         848         8 764         5 088           Amortisation of debt pertaining to acquisitions of Group companies           - 19 152           Amortisation of other debt         - 2 051         - 2 357         - 21 549         - 10 223           Divestment of shares in Group companies to owners of non-controlling interests         - 30         -         2 745         -           Effect of early termination of swaps related to financing activities         - 433         -         2 244         1 690           Redemption of Hybrid Capital         -         -         -         -         - 9 172           Issue of Hybrid Capital         -         3 484         -         18 636           Dividends paid to owners         -         165         - 180         - 882         - 333           Contribution from owners of non-controlling interests         537         310         2 107         1 973   | Cook flow before financing activities                                   | 2 642   | 4 504   | 42.040   | 44.450   |
| Changes in short-term investments       4 474       -1 581       12 004       235         Changes in loans to owners of non-controlling interests in foreign Group companies       - 605       99       - 434       - 783         Loans raised¹       1 482       848       8 764       5 088         Amortisation of debt pertaining to acquisitions of Group companies       -       -       -       - 19 152         Amortisation of other debt       - 2 051       - 2 357       - 21 549       - 10 223         Divestment of shares in Group companies to owners of non-controlling interests       - 30       -       2 745       -         Effect of early termination of swaps related to financing activities       - 433       -       2 244       1 690         Redemption of Hybrid Capital       -       -       -       -       -       -9 172         Issue of Hybrid Capital       -       3 484       -       18 636         Dividends paid to owners       -       165       - 180       - 882       - 333         Contribution from owners of non-controlling interests       3 209       623       4 999       - 12 041  | Cash now before financing activities                                    | 3 612   | 1 564   | 12 016   | 14 459   |
| Changes in short-term investments       4 474       -1 581       12 004       235         Changes in loans to owners of non-controlling interests in foreign Group companies       - 605       99       - 434       - 783         Loans raised¹       1 482       848       8 764       5 088         Amortisation of debt pertaining to acquisitions of Group companies       -       -       -       - 19 152         Amortisation of other debt       - 2 051       - 2 357       - 21 549       - 10 223         Divestment of shares in Group companies to owners of non-controlling interests       - 30       -       2 745       -         Effect of early termination of swaps related to financing activities       - 433       -       2 244       1 690         Redemption of Hybrid Capital       -       -       -       -       -       - 9 172         Issue of Hybrid Capital       -       3 484       -       18 636         Dividends paid to owners       -       165       - 180       - 882       - 333         Contribution from owners of non-controlling interests       537       310       2 107       1 973         Cash flow from financing activities       3 209       623       4 999       - 12 041   | Financing activities  |         |         |          |          |
| Changes in loans to owners of non-controlling interests in foreign Group companies  Loans raised  1 482 848 8 764 5 088  Amortisation of debt pertaining to acquisitions of Group companies  Amortisation of other debt  -2 051 -2 357 -21 549 -10 223  Divestment of shares in Group companies to owners of non-controlling interests  -30 — 2 745 —  Effect of early termination of swaps related to financing activities  Redemption of Hybrid Capital  -4 33 — 2 244 1 690  Redemption of Hybrid Capital  -7 — -7 — -9 172  Issue of Hybrid Capital  Dividends paid to owners  Contribution from owners of non-controlling interests  3 209 623 4 999 -12 041   | <del>-</del>  | 4 474   | - 1 581 | 12 004   | 235      |
| Loans raised¹       1 482       848       8 764       5 088         Amortisation of debt pertaining to acquisitions of Group companies       —       —       —       -19 152         Amortisation of other debt       -2 051       -2 357       -21 549       -10 223         Divestment of shares in Group companies to owners of non-controlling interests       - 30       —       2 745       —         Effect of early termination of swaps related to financing activities       - 433       —       2 244       1 690         Redemption of Hybrid Capital       —       —       —       -9 172         Issue of Hybrid Capital       —       3 484       —       18 636         Dividends paid to owners       - 165       - 180       - 882       - 333         Contribution from owners of non-controlling interests       537       310       2 107       1 973         Cash flow from financing activities       3 209       623       4 999       - 12 041   | -   |         |         |          |          |
| Amortisation of debt pertaining to acquisitions of Group companies  Amortisation of other debt  Divestment of shares in Group companies to owners of non-controlling interests  - 30  |   |         |         |          |          |
| Amortisation of other debt       - 2 051       - 2 357       - 21 549       - 10 223         Divestment of shares in Group companies to owners of non-controlling interests       - 30       —       2 745       —         Effect of early termination of swaps related to financing activities       - 433       —       2 244       1 690         Redemption of Hybrid Capital       —       —       —       - 9 172         Issue of Hybrid Capital       —       3 484       —       18 636         Dividends paid to owners       - 165       - 180       - 882       - 333         Contribution from owners of non-controlling interests       537       310       2 107       1 973         Cash flow from financing activities       3 209       623       4 999       - 12 041   |   | _       | _       | _        |          |
| Divestment of shares in Group companies to owners of non-controlling interests  - 30  |   | - 2 051 | - 2 357 | - 21 549 |          |
| Effect of early termination of swaps related to financing activities       - 433       —       2 244       1 690         Redemption of Hybrid Capital       —       —       —       - 9 172         Issue of Hybrid Capital       —       3 484       —       18 636         Dividends paid to owners       - 165       - 180       - 882       - 333         Contribution from owners of non-controlling interests       537       310       2 107       1 973         Cash flow from financing activities       3 209       623       4 999       - 12 041  |   |         | _       |          | _        |
| Redemption of Hybrid Capital       —       —       —       —       9 172         Issue of Hybrid Capital       —       3 484       —       18 636         Dividends paid to owners       -       165       -       180       -       882       -       333         Contribution from owners of non-controlling interests       537       310       2 107       1 973         Cash flow from financing activities       3 209       623       4 999       - 12 041   | ·   |         | _       |          | 1 690    |
| Issue of Hybrid Capital       —       3 484       —       18 636         Dividends paid to owners       - 165       - 180       - 882       - 333         Contribution from owners of non-controlling interests       537       310       2 107       1 973         Cash flow from financing activities       3 209       623       4 999       - 12 041  | ·   | _       | _       |          |          |
| Dividends paid to owners         - 165         - 180         - 882         - 333           Contribution from owners of non-controlling interests         537         310         2 107         1 973           Cash flow from financing activities         3 209         623         4 999         - 12 041   |   | _       | 3 484   | _        |          |
| Contribution from owners of non-controlling interests5373102 1071 973Cash flow from financing activities3 2096234 999- 12 041   |   | - 165   |         | - 882    |          |
| Cash flow from financing activities 3 209 623 4 999 - 12 041  | •   |         |         |          |          |
|   |   |         |         |          |          |
| Cash flow for the period 6 821 2 207 17 017 2 418   |   |         |         |          |          |
|   | Cash flow for the period  | 6 821   | 2 207   | 17 017   | 2 418    |
|   |   |         |         |          |          |



### Consolidated statement of cash flows, cont.

|   | Q4       | Q4       | Full year | Full year |
|---|----------|----------|-----------|-----------|
| Total Vattenfall, amounts in SEK million  | 2016     | 2015     | 2016      | 2015      |
| Cash and cash equivalents   |          |          |           |           |
| Cash and cash equivalents at start of period  | 13 108   | 12 497   | 12 351    | 12 283    |
| Cash and cash equivalents included in assets held for sale/sold                           | 68       | - 2 263  | - 9 443   | - 2 263   |
| Cash flow for the period  | 6 821    | 2 207    | 17 017    | 2 418     |
| Translation differences   | - 2      | - 90     | 70        | - 87      |
| Cash and cash equivalents at end of period  | 19 995   | 12 351   | 19 995    | 12 351    |
| Supplementary information   |          |          |           |           |
| Cash flow before financing activities   | 3 612    | 1 584    | 12 018    | 14 459    |
| Financing activities  |          |          |           |           |
| Divestment of shares in Group companies to owners of non-controlling interests            | - 30     | _        | 2 745     | _         |
| Effects from terminating swaps related to financing activities                            | - 433    | _        | 2 244     | 1 690     |
| Dividends paid to owners  | - 165    | - 180    | - 882     | - 333     |
| Contribution from owners of non-controlling interests                                     | 537      | 310      | 2 107     | 1 973     |
| Cash flow after dividend  | 3 521    | 1 714    | 18 232    | 17 789    |
| Analysis of change in net debt  |          |          |           |           |
| Net debt at start of period   | - 57 971 | - 65 405 | - 64 201  | - 79 473  |
| Cash flow after dividend  | 3 521    | 1 714    | 18 232    | 17 789    |
| Changes as a result of valuation at fair value  | 647      | 366      | - 914     | 274       |
| Changes in interest-bearing liabilities for leasing                                       | 1        | - 4      | 13        | 3         |
| Interest-bearing liabilities/short-term investments acquired/divested                     | _        | _        | 4         | 35        |
| Changes in liabilities pertaining to acquisitions of Group companies, discounting effects | _        | _        | _         | - 160     |
| Cash and cash equivalents included in assets held for sale                                | 68       | - 2 263  | - 9 443   | - 2 263   |
| Interest-bearing liabilities associated with assets held for sale                         | 99       | _        | 99        | _         |
| Release of collateralised cash by issuing bank guarantees                                 | 2 515    | _        | 2 515     | _         |
| Translation differences on net debt   | 396      | 1 391    | - 127     | - 406     |
| Reclassification  | _        | _        | 3 098     | _         |
| Net debt at end of period   | - 50 724 | - 64 201 | - 50 724  | - 64 201  |
| Cash flow from operating activities   | 11 062   | 9 595    | 30 783    | 40 934    |
| Maintenance investments   | - 3 907  | - 5 325  | - 11 566  | - 15 921  |
| Free cash flow <sup>2</sup>   | 7 155    | 4 270    | 19 217    | 25 013    |

Short-term borrowings in which the duration is three months or shorter are reported net.
 See Definitions and calculations of key ratios for definitions of Alternative Performance Measures.



### **Consolidated statement of changes in equity**

|   | 31 Dec. 2016   |   |                 | 31 Dec. 2015                                |   |                 |  |
|---|--|---|-----------------|---|---|-----------------|--|
| Total Vattenfall, amounts in SEK million  | Attributable to<br>owner of the<br>Parent<br>Company | Attributable<br>to non-<br>controlling<br>interests | Total<br>equity | Attributable to owner of the Parent Company | Attributable<br>to non-<br>controlling<br>interests | Total<br>equity |  |
| Balance brought forward   | 103 984  | 11 972  | 115 956         | 115 260                                     | 13 202  | 128 462         |  |
|   |  |   |                 |   |   |                 |  |
| Profit for the period   | - 26 324   | 320   | - 26 004        | - 16 672                                    | - 3 094   | - 19 766        |  |
| Cash flow hedges - changes in fair value  | - 17 691   | 71  | - 17 620        | 11 335                                      | 19  | 11 354          |  |
| Cash flow hedges - dissolved against income statement   | 2 746  | - 9   | 2 737           | - 5 324                                     | 1   | - 5 323         |  |
| Cash flow hedges - transferred to cost of hedged item   | - 52   | - 19  | - 71            | - 4   | 1   | - 3             |  |
| Hedging of net investments in foreign operations  | - 923  | _   | - 923           | 1 709                                       | _   | 1 709           |  |
| Translation differences and exchange rate effects net, divested companies                               | 1 164  | _   | 1 164           | _   | _   | _               |  |
| Translation differences   | 1 812  | 115   | 1 927           | - 1 746                                     | - 192   | - 1 938         |  |
| Remeasurement pertaining to defined benefit obligations   | - 1 726  | - 79  | - 1 805         | 2 742                                       | 125   | 2 867           |  |
| Income tax relating to other comprehensive income   | 4 509  | 13  | 4 522           | - 2 438                                     | - 46  | - 2 484         |  |
| Total other comprehensive income for the period   | - 10 161   | 92  | - 10 069        | 6 274                                       | - 92  | 6 182           |  |
| Total comprehensive income for the period   | - 36 485   | 412   | - 36 073        | - 10 398                                    | - 3 186   | - 13 584        |  |
| Dividends paid to owners  | _  | - 882   | - 882           | _   | - 333   | - 333           |  |
| Group contributions from(+)/to(-) owners of non-controlling interests                                   | _  | - 352   | - 352           | _   | 355   | 355             |  |
| Changes in ownership in Group companies on divestments of shares to owners of non-controlling interests | 895  | 2 082   | 2 977           | _   | _   | _               |  |
| Additional purchase price pertaining to previous share purchase   | _  | _   | _               | - 878                                       | _   | - 878           |  |
| Contribution from minority interest   | _  | 2 107   | 2 107           | _   | 1 973   | 1 973           |  |
| Other changes in ownership  | _  | - 28  | - 28            | _   | - 39  | - 39            |  |
| Other changes   | - 122  | 217   | 95              | _   | _   | _               |  |
| Total transactions with equity holders  | 773  | 3 144   | 3 917           | - 878                                       | 1 956   | 1 078           |  |
| Balance carried forward   | 68 272   | 15 528  | 83 800          | 103 984                                     | 11 972  | 115 956         |  |
| - Of which, Reserve for hedges  | - 1 711  | 43  | - 1 668         | 9 460                                       | 7   | 9 467           |  |
| - · , · · · · · · · · · · · · · · · · ·   |  |   |                 | ]   | •   |                 |  |



### **Key ratios, Vattenfall Group**

| In % unless otherwise stated. (x) means times                                      | Q4<br>2016           | Q4<br>2015          | Full year<br>2016  | Full year<br>2015 |
|--|----------------------|---------------------|--------------------|-------------------|
| Operating margin, continuing operations  | - 7.5                | 8.6                 | 1.0                | - 3.5             |
| Operating margin, continuing operations <sup>1</sup>                               | 18.8                 | 15.1                | 15.6               | 14.3              |
| Pre-tax profit margin, continuing operations                                       | - 12.9               | 5.9                 | - 3.6              | - 6.9             |
| Pre-tax profit margin, continuing operations <sup>1</sup>                          | 13.9                 | 12.5                | 11.1               | 11.0              |
| Return on equity, total Vattenfall   | - 33.4 <sup>2</sup>  | - 16.8 <sup>2</sup> | - 33.4             | - 16.8            |
| Return on capital employed, continuing operations                                  | $0.5^{2,4}$          | - 1.8 <sup>2</sup>  | 0.5 <sup>4</sup>   | - 1.8             |
| Return on capital employed, total Vattenfall                                       | - 8.5 <sup>2,4</sup> | - 8.2 <sup>2</sup>  | - 8.5 <sup>4</sup> | - 8.2             |
| Return on capital employed, continuing operations <sup>1</sup>                     | 8.7 <sup>2,4</sup>   | 7.3 <sup>2</sup>    | 8.7 <sup>4</sup>   | 7.3               |
| Return on capital employed, total Vattenfall <sup>1</sup>                          | 8.7 <sup>2,4</sup>   | 7.4 <sup>2</sup>    | 8.7 <sup>4</sup>   | 7.4               |
| EBIT interest cover, continuing operations, (x)                                    | $0.5^{2}$            | - 0.8 <sup>2</sup>  | 0.5                | - 0.8             |
| EBIT interest cover, continuing operations, (x) <sup>1</sup>                       | 4.6 <sup>2</sup>     | 4.8 <sup>2</sup>    | 4.6                | 4.8               |
| FFO interest cover, continuing operations, (x)                                     | 6.5 <sup>2</sup>     | 6.8 <sup>2</sup>    | 6.5                | 6.8               |
| FFO interest cover, net, continuing operations, (x)                                | 7.7 <sup>2</sup>     | 9.8 <sup>2</sup>    | 7.7                | 9.8               |
| Cash flow interest cover after maintenance investments, continuing operations, (x) | 5.6 <sup>2</sup>     | 9.1 <sup>2</sup>    | 5.6                | 9.1               |
| FFO/gross debt , continuing operations   | 27.8 <sup>2</sup>    | 24.2 <sup>2</sup>   | 27.8               | 24.2              |
| FFO/gross debt, total Vattenfall   | 29.2 <sup>2,3</sup>  | 26.2 <sup>2</sup>   | 29.2 <sup>3</sup>  | 26.2              |
| FFO/net debt, continuing operations  | 53.0 <sup>2</sup>    | 41.8 <sup>2</sup>   | 53.0               | 41.8              |
| FFO/net debt, total Vattenfall   | 55.6 <sup>2,3</sup>  | 45.2 <sup>2</sup>   | 55.6 <sup>3</sup>  | 45.2              |
| FFO/adjusted net debt, continuing operations                                       | 21.6 <sup>2</sup>    | 19.5 <sup>2</sup>   | 21.6               | 19.5              |
| FFO/adjusted net debt, total Vattenfall  | 22.6 <sup>2,3</sup>  | 21.1 <sup>2</sup>   | 22.6 <sup>3</sup>  | 21.1              |
| EBITDA/net financial items, continuing operations, (x)                             | 2.5                  | 11.6                | 6.8                | 10.1              |
| EBITDA/net financial items, continuing operations, (x) <sup>1</sup>                | 8.1                  | 15.3                | 9.0                | 11.6              |
| Equity/total assets, total Vattenfall  | 20.5                 | 25.1                | 20.5               | 25.1              |
| Gross debt/equity, total Vattenfall  | 115.4                | 95.4                | 115.4              | 95.4              |
| Net debt/equity, total Vattenfall  | 60.5                 | 55.4                | 60.5               | 55.4              |
| Gross debt/gross debt plus equity, total Vattenfall                                | 53.6                 | 48.8                | 53.6               | 48.8              |
| Net debt/net debt plus equity, total Vattenfall                                    | 37.7                 | 35.6                | 37.7               | 35.6              |
| Net debt/EBITDA, continuing operations, (x)  | 1.9 <sup>2</sup>     | 2.1 <sup>2</sup>    | 1.9                | 2.1               |
| Net debt/EBITDA, total Vattenfall, (x)   | 1.8 <sup>2,3</sup>   | $2.0^{2}$           | 1.8 <sup>3</sup>   | 2.0               |
| Adjusted net debt/EBITDA, continuing operations, (x)                               | 4.6 <sup>2</sup>     | 4.5 <sup>2</sup>    | 4.6                | 4.5               |
| Adjusted net debt/EBITDA, total Vattenfall, (x)                                    | 4.4 <sup>2,3</sup>   | 4.2 <sup>2</sup>    | 4.4 <sup>3</sup>   | 4.2               |
|  |                      |                     |                    |                   |

<sup>1)</sup> Based on Underlying operating profit.

Last 12-month values.

The lignite operations were classified as assets held for sale on the balance sheet as per 30 June 2016. As a result, the lignite operations are excluded from balance sheet items included in the calculations of key ratios as from 30 June 2016.

The key ratio is based on average capital employed. The lignite operations were classified as assets held for sale on the balance sheet as per 30 June 2016, which entails that the calculation of average capital employed excludes the lignite operations as from 30 June 2016.



### **Quarterly information, Vattenfall Group**

| Amounts in SEK million  | Q4<br>2016              | Q3<br>2016          | Q2<br>2016          | Q1<br>2016          | Q4<br>2015          | Q3<br>2015         | Q2<br>2015          | Q1<br>2015         |
|---|-------------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|--------------------|
| Income statement  | 2010                    | 2010                | 2010                | 2010                | 2010                | 2010               | 2010                | 2010               |
|   |                         |                     |                     |                     |                     |                    |                     |                    |
| Continuing operations   | 07.700                  | 00.740              | 20.047              | 44.040              | 40.000              | 20.000             | 20.054              | 00.040             |
| Net sales   | 37 796<br>- 32 629      | 29 746<br>- 22 990  | 30 047              | 41 619<br>- 29 032  | 42 368<br>- 33 705  | 30 939<br>- 23 651 | 30 951<br>- 44 347  | 39 318<br>- 27 518 |
| Cost of products sold Other operating income and expenses                                     | - 52 629<br>- 5 837     | - 22 990<br>- 4 537 | - 34 565<br>- 3 877 | - 29 032<br>- 2 553 | - 33 703<br>- 4 588 | - 4 823            | - 44 347<br>- 5 620 | - 3 897            |
| Participations in the results of associated   | - 3 637                 | - 4 557             | - 3 01 1            | - 2 333             | - 4 300             | - 4 023            | - 3 020             | - 3 091            |
| companies   | - 2 171                 | 32                  | 123                 | 164                 | - 434               | - 125              | - 100               | 163                |
| Operating profit before depreciation,   |                         |                     |                     |                     |                     |                    |                     |                    |
| amortisation and impairment losses (EBITDA)   | 3 313                   | 5 886               | 4 274               | 13 736              | 7 730               | 5 816              | 5 211               | 11 847             |
| Operating profit (EBIT)   | - 2 841                 | 2 251               | - 8 272             | 10 198              | 3 641               | 2 340              | - 19 116            | 8 067              |
| Underlying operating profit   | 7 095                   | 2 602               | 3 701               | 8 299               | 6 407               | 2 681              | 4 056               | 7 386              |
| Financial items, net  | - 2 017                 | - 1 949             | - 843               | - 1 573             | - 1 128             | - 973              | - 1 270             | - 1 404            |
| Profit before tax   | - 4 858                 | 302                 | - 9 115             | 8 625               | 2 514               | 1 366              | - 20 386            | 6 662              |
| Profit for the period from continuing   |                         |                     |                     |                     |                     |                    |                     |                    |
| operations  | - 3 960                 | 787                 | - 5 818             | 6 820               | 4 550               | 41                 | - 14 625            | 4 847              |
| Profit for the period from discontinued   | 102                     | F00                 | 20.006              | 240                 | 2.000               | 4.550              | 44407               | 110                |
| operations, net after tax   | - 192<br><b>- 4 152</b> | - 599               | - 22 826            | - 218               | - 2 090             | 1 559              | - 14 187            | 140                |
| <ul><li>Profit for the period</li><li>of which, attributable to owner of the Parent</li></ul> | - 4 152                 | 188                 | - 28 644            | 6 602               | 2 460               | 1 600              | - 28 812            | 4 987              |
| Company   | - 4 055                 | - 35                | - 28 508            | 6 272               | 2 243               | 1 403              | - 24 996            | 4 679              |
| - of which, attributable to non-controlling   |                         |                     |                     |                     |                     |                    |                     |                    |
| interests   | - 97                    | 223                 | - 136               | 330                 | 217                 | 197                | - 3 816             | 308                |
| Balance sheet   |                         |                     |                     |                     |                     |                    |                     |                    |
| Non-current assets  | 304 628                 | 308 457             | 305 918             | 344 481             | 343 291             | 348 656            | 339 871             | 370 318            |
| Short-term investments  | 23 297                  | 25 440              | 25 559              | 22 171              | 31 905              | 30 867             | 34 006              | 45 634             |
| Cash and cash equivalents   | 19 995                  | 13 108              | 5 399               | 15 254              | 12 351              | 12 497             | 20 006              | 11 606             |
| Other current assets  | 61 340                  | 52 603              | 80 075              | 80 282              | 74 770              | 65 338             | 69 666              | 84 827             |
| Total assets  | 409 260                 | 399 608             | 416 951             | 462 188             | 462 317             | 457 358            | 463 549             | 512 385            |
| Equity - of which, attributable to owner of the Parent  | 83 800                  | 86 806              | 87 713              | 124 368             | 115 956             | 114 440            | 108 303             | 134 678            |
| Company - of which, attributable to non-controlling   | 68 272                  | 71 276              | 72 955              | 109 756             | 103 984             | 103 043            | 97 646              | 120 367            |
| interests   | 15 528                  | 15 530              | 14 758              | 14 612              | 11 972              | 11 397             | 10 657              | 14 311             |
| Hybrid Capital  | 19 164                  | 19 054              | 18 803              | 18 448              | 18 546              | 15 387             | 15 192              | 19 979             |
| Other interest-bearing liabilities  | 77 503                  | 79 520              | 77 831              | 81 710              | 92 039              | 95 659             | 112 970             | 117 400            |
| Pension provisions  | 40 644                  | 42 986              | 42 339              | 38 893              | 38 919              | 42 320             | 41 986              | 44 793             |
| Other interest-bearing provisions   | 97 700                  | 85 596              | 84 493              | 99 834              | 99 344              | 99 663             | 97 550              | 92 761             |
| Deferred tax liabilities  | 14 776                  | 16 726              | 20 732              | 24 109              | 22 970              | 26 463             | 27 202              | 27 454             |
| Other noninterest-bearing liabilities   | 75 673                  | 68 920              | 85 040              | 74 826              | 74 543              | 63 426             | 60 346              | 75 320             |
| Total equity and liabilities  | 409 260                 | 399 608             | 416 951             | 462 188             | 462 317             | 457 358            | 463 549             | 512 385            |
| Capital employed  | 232 689                 | 232 501             | 234 061             | 269 036             | 264 591             | 267 116            | 269 657             | 298 629            |
| Net debt  | - 50 724                | - 57 971            | - 63 654            | - 60 729            | - 64 201            | - 65 405           | - 72 839            | - 78 825           |
| Cash flow   |                         |                     |                     |                     |                     |                    |                     |                    |
| Funds from operations (FFO)   | 7 157                   | 5 501               | 6 446               | 9 082               | 9 362               | 5 698              | 4 154               | 9 795              |
| Cash flow from changes in operating assets  | 2.005                   | 7.020               | 0.440               | 11 710              | 000                 | 0.470              | F F60               | 2.042              |
| and operating liabilities  Cash flow from operating activities                                | 3 905                   | 7 020               | 3 412               | - 11 740            | 233                 | 9 170              | 5 563               | - 3 042            |
| 1 0   | 11 062                  | 12 521              | 9 858               | - 2 658             | 9 595               | 14 868             | 9 717               | 6 753              |
| Cash flow hotors financing activities   | - 7 450                 | - 6 501             | - 4 091<br>5 767    | - 723               | - 8 011             | - 7 883            | - 5 393             | - 5 187            |
| Cash flow before financing activities  Changes in short-term investments                      | 3 612<br>4 474          | 6 020<br>626        | 5 767<br>- 2 910    | - 3 381<br>9 814    | 1 584<br>- 1 581    | 6 985<br>3 501     | 4 324<br>11 336     | 1 566              |
| Changes in short-term investments   | 4 474<br>- 1 100        | 626<br>1 313        | - 2 910<br>- 2 800  | 9 814<br>- 3 536    | - 1 581<br>2 384    | 3 501<br>- 17 965  | 11 336<br>- 7 177   | - 13 022<br>10 816 |
| Loans raised/Amortisation of debt, net, etc.  Dividends paid to owners                        | - 1 100<br>- 165        | 1 313<br>- 214      | - 2 800<br>- 503    | - 3 536             | - 180               | - 17 965<br>- 96   | - / 1//<br>- 57     | 10 816             |
| Cash flow from financing activities   | 3 209                   | 1 725               | - 6 213             | 6 278               | 623                 | - 14 560           | 4 102               | - 2 206            |
| Cash flow for the period  | 6 821                   | 7 745               | - 6213<br>- 446     | 2 897               | 2 207               | - 7 575            | 8 426               | - 640              |
| •   |                         |                     |                     |                     |                     |                    |                     |                    |
| Free cash flow  | 7 155                   | 10 170              | 6 889               | - 4 997             | 4 270               | 10 520             | 6 218               | 4 003              |



### **Quarterly information, Vattenfall Group, cont.**

| In % unless otherwise stated. (x) means times  | Q4<br>2016         | Q3<br>2016         | Q2<br>2016         | Q1<br>2016 | Q4<br>2015 | Q3<br>2015       | Q2<br>2015       | Q1<br>2015       |
|--|--------------------|--------------------|--------------------|------------|------------|------------------|------------------|------------------|
| Key ratios   |                    |                    |                    |            |            |                  |                  |                  |
| Return on equity, total Vattenfall <sup>1</sup>  | - 33.4             | - 23.6             | - 20.6             | - 15.8     | - 16.8     | - 14.8           | - 32.6           | - 10.1           |
| Return on capital employed, continuing operations <sup>1</sup>                                   | 0.5 <sup>5</sup>   | 3.1 <sup>5</sup>   | 3.1 <sup>5</sup>   | - 1.0      | - 1.8      | N/A <sup>4</sup> | N/A <sup>4</sup> | N/A <sup>4</sup> |
| '  |                    |                    |                    |            |            |                  |                  |                  |
| Return on capital employed, total Vattenfall <sup>1</sup> Return on capital employed, continuing | - 8.5 <sup>5</sup> | - 5.8 <sup>5</sup> | - 5.5 <sup>5</sup> | - 7.5      | - 8.2      | - 7.1            | - 14.6           | - 1.9            |
| operations <sup>1, 2</sup>   | 8.7 <sup>5</sup>   | 8.4 <sup>5</sup>   | 8.4 <sup>5</sup>   | 7.6        | 7.3        | N/A <sup>4</sup> | N/A <sup>4</sup> | N/A <sup>4</sup> |
| Return on capital employed, total Vattenfall <sup>1, 2</sup>                                     | 8.7 <sup>5</sup>   | 8.5 <sup>5</sup>   | 8.3 <sup>5</sup>   | 7.4        | 7.4        | 8.1              | 7.5              | 7.6              |
| EBIT interest cover, continuing operations (x) <sup>1</sup>                                      | 0.5                | 1.9                | 2.2                | - 0.2      | - 0.8      | N/A <sup>4</sup> | N/A <sup>4</sup> | N/A <sup>4</sup> |
| EBIT interest cover, continuing operations, (x) <sup>1, 2</sup>                                  | 4.6                | 4.7                | 5.2                | 4.7        | 4.8        | N/A <sup>4</sup> | N/A <sup>4</sup> | N/A <sup>4</sup> |
| FFO/gross debt, continuing operations <sup>1</sup>   | 27.8               | 30.1               | 29.8               | 27.0       | 24.2       | N/A <sup>4</sup> | N/A <sup>4</sup> | N/A <sup>4</sup> |
| FFO/gross debt, total Vattenfall <sup>1</sup>  | 29.2 <sup>3</sup>  | 30.8 <sup>3</sup>  | 31.7 <sup>3</sup>  | 28.3       | 26.2       | 28.9             | 24.5             | 22.7             |
| FFO/net debt, continuing operations <sup>1</sup>   | 53.0               | 51.2               | 45.3               | 44.5       | 41.8       | N/A <sup>4</sup> | N/A <sup>4</sup> | N/A <sup>4</sup> |
| FFO/net debt, total Vattenfall <sup>1</sup>  | 55.6 <sup>3</sup>  | 52.4 <sup>3</sup>  | 48.1 <sup>3</sup>  | 46.6       | 45.2       | 49.1             | 43.2             | 39.5             |
| FFO/adjusted net debt, continuing operations <sup>1</sup>  | 21.6               | 23.9               | 22.4               | 19.7       | 19.5       | N/A <sup>4</sup> | N/A <sup>4</sup> | N/A <sup>4</sup> |
| FFO/adjusted net debt, total Vattenfall <sup>1</sup>   | 22.6 <sup>3</sup>  | 24.5 <sup>3</sup>  | 23.7 <sup>3</sup>  | 20.6       | 21.1       | 22.5             | 21.1             | 20.7             |
| Equity/assets ratio, total Vattenfall  | 20.5               | 21.7               | 21.0               | 26.9       | 25.1       | 25.0             | 23.4             | 26.3             |
| Gross debt/equity, total Vattenfall  | 115.4              | 113.6              | 110.2              | 80.5       | 95.4       | 97.0             | 118.3            | 102.0            |
| Net debt/equity, total Vattenfall  | 60.5               | 66.8               | 72.6               | 48.8       | 55.4       | 57.2             | 67.3             | 58.5             |
| Net debt/net debt plus equity, total Vattenfall  | 37.7               | 40.0               | 42.1               | 32.8       | 35.6       | 36.4             | 40.2             | 36.9             |
| Net debt/EBITDA, continuing operations, (x) <sup>1</sup>   | 1.9                | 1.8                | 2.0                | 1.9        | 2.1        | N/A <sup>4</sup> | N/A <sup>4</sup> | N/A <sup>4</sup> |
| Net debt/EBITDA, total Vattenfall, (x) <sup>1</sup> Adjusted net debt/EBITDA, continuing         | 1.8 <sup>3</sup>   | 1.7 <sup>3</sup>   | 1.8 <sup>3</sup>   | 1.8        | 2.0        | 1.8              | 2.0              | 2.1              |
| operations, (x) <sup>1</sup>   | 4.6                | 3.9                | 4.1                | 4.2        | 4.5        | N/A <sup>4</sup> | N/A <sup>4</sup> | N/A <sup>4</sup> |
| Adjusted net debt/EBITDA, total Vattenfall, (x) <sup>1</sup>                                     | 4.4 <sup>3</sup>   | 3.7 <sup>3</sup>   | 3.7 <sup>3</sup>   | 4.1        | 4.2        | 4.0              | 4.0              | 4.0              |

<sup>1)</sup> Last 12-month values.

Based on Underlying operating profit.

The lignite operations were classified as assets held for sale on the balance sheet as per 30 June 2016. As a result, the lignite operations are excluded from

The key ratio is based on average capital employed. The lignite operations were classified as seed in the balance sheet items included in the calculations of key ratios as from 30 June 2016.

This key ratio has not been calculated, as it is based on last 12-month values, which have not been recalculated for the continuing operations for 2014.

The key ratio is based on average capital employed. The lignite operations were classified as assets held for sale on the balance sheet as per 30 June 2016, which entails that the calculation of average capital employed excludes the lignite operations as from 30 June 2016.



### Note 1 Accounting policies, risks and uncertainties

### **Accounting policies**

The consolidated accounts for 2016 have been prepared, as for the 2015 year-end accounts, in accordance with International Financial Reporting Standards (IFRS) as endorsed by the EU, and the Swedish Annual Accounts Act. This interim report for the Group has been prepared in accordance with IAS 34 – "Interim Financial Reporting", and the Swedish Annual Accounts Act. The accounting policies and calculation methods applied in this interim report are the same as those described in Note 3 to the consolidated accounts, Accounting policies in Vattenfall's 2015 Annual and Sustainability Report. As described in the note, the amended IFRSs endorsed by the EU for application in the 2016 financial year have no significant effect on Vattenfall's financial statements.

#### Risks and uncertainties

For a description of risks, uncertainties and risk management, please refer to Vattenfall's 2015 Annual and Sustainability Report, pages 70-78. Apart from the information provided under important events in this report and under important events in previously published interim reports during 2016, no other material changes have taken place since publication of the 2015 Annual and Sustainability Report.

#### Other

Significant related-party transactions are described in Note 55 to the consolidated accounts in Vattenfall's 2015 Annual and Sustainability Report. No material changes have taken place in relations or transactions with related parties compared with the description in the 2015 Annual and Sustainability Report.

### Note 2 Exchange rates

Key exchange rates applied in the accounts of the Vattenfall Group:

|              | Q <sup>2</sup><br>2016 |         | Full year<br>2016 | Full year<br>2015 |
|--------------|------------------------|---------|-------------------|-------------------|
| Average rate |                        |         |                   |                   |
| EUR          | 9.6981                 | 9.2979  | 9.4496            | 9.3414            |
| DKK          | 1.3033                 | 1.2463  | 1.2690            | 1.2523            |
| NOK          | 1.0738                 | 0.9864  | 1.0181            | 1.0403            |
| PLN          | 2.2164                 | 2.1820  | 2.1647            | 2.2297            |
| GBP          | 11.1819                | 12.8483 | 11.6081           | 12.8325           |
| USD          | 8.9666                 | 8.5155  | 8.5807            | 8.4004            |
|              |                        |         |                   |                   |
|              |                        |         |                   |                   |
|              |                        |         |                   |                   |
|              |                        |         | 31 Dec.           | 31 Dec.           |
|              |                        |         | 2016              | 201               |

|                         | 2016    | 2015    |
|-------------------------|---------|---------|
| Balance sheet date rate |         |         |
| EUR                     | 9.5525  | 9.1895  |
| DKK                     | 1.2849  | 1.2314  |
| NOK                     | 1.0513  | 0.9569  |
| PLN                     | 2.1660  | 2.1552  |
| GBP                     | 11.1571 | 12.5206 |
| USD                     | 9.0622  | 8.4408  |
|                         |         |         |



### Note 3 Financial instruments by category and related effects on income

### Financial instruments by category: Carrying amount and fair value

|  | 31 Dec.         | 31 Dec. 2016  |                 | 2015          |
|--|-----------------|---------------|-----------------|---------------|
| Total Vattenfall, amounts in SEK million <sup>1</sup>      | Carrying amount | Fair<br>value | Carrying amount | Fair<br>value |
| Financial assets at fair value through profit or loss      | 56 206          | 56 206        | 65 042          | 65 042        |
| Loans and receivables                                      | 75 759          | 78 456        | 86 617          | 87 693        |
| Available-for-sale financial assets                        | 118             | 118           | 273             | 273           |
| Financial liabilities at fair value through profit or loss | 24 016          | 24 016        | 18 602          | 18 602        |
| Other financial liabilities                                | 122 779         | 130 474       | 141 436         | 145 986       |
|  |                 |               |                 |               |

<sup>1)</sup> For information of what is included in each respective category in the table above, please refer to Note 47 to the consolidated accounts, Financial instruments by category, offsetting of financial assets and liabilities, and financial instruments' effects on income in Vattenfall's 2015 Annual and Sustainability Report.

For assets and liabilities with a remaining maturity less than three months (e.g., cash and bank balances, trade receivables and other receivables and trade payables and other payables), fair value is considered to be equal to the carrying amount. For other shares and participations carried at cost, in the absence of fair value, cost is considered to be equal to the carrying amount.

Financial instruments that are measured at fair value on the balance sheet are described below according to the fair value hierarchy (levels), which in IFRS 13 is defined as:

Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities

Level 2: Inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly (that is, as prices) or indirectly (that is, derived from prices). In Level 2 Vattenfall reports mainly commodity derivatives, currency-forward contracts and interest rate swaps

Level 3: Inputs for the asset or liability that are not based on observable market data (that is, unobservable inputs)

### Financial assets and liabilities that are measured at fair value on the balance sheet at 31 December 2016

| Total Vattenfall, amounts in SEK million    | Level 1 | Level 2 | Level 3 | Total  |
|---|---------|---------|---------|--------|
| Assets                                      |         |         |         |        |
| Derivative assets                           | _       | 24 438  | 254     | 24 692 |
| Short-term investments and cash equivalents | 13 935  | 17 579  | _       | 31 514 |
| Total assets                                | 13 935  | 42 017  | 254     | 56 206 |
| Liabilities                                 |         |         |         |        |
| Derivative liabilities                      | _       | 23 898  | 118     | 24 016 |
| Total liabilities                           | _       | 23 898  | 118     | 24 016 |
|   |         |         |         |        |

### Financial assets and liabilities that are measured at fair value on the balance sheet at 31 December 2015

| Total Vattenfall, amounts in SEK million    | Level 1 | Level 2 | Level 3 | Total  |
|---|---------|---------|---------|--------|
| Assets                                      |         |         |         |        |
| Derivative assets                           | _       | 33 879  | 408     | 34 287 |
| Short-term investments and cash equivalents | 20 606  | 10 149  | _       | 30 755 |
| Total assets                                | 20 606  | 44 028  | 408     | 65 042 |
| Liabilities                                 |         |         |         |        |
| Derivative liabilities                      | _       | 17 164  | 1 438   | 18 602 |
| Total liabilities                           | _       | 17 164  | 1 438   | 18 602 |



### Changes in level 3 financial instruments

Financial instruments at fair value through profit or loss

|   | Derivative assets |                 | Derivative liabilities |                 |
|---|-------------------|-----------------|------------------------|-----------------|
| Total Vattenfall, amounts in SEK million  | 31 Dec.<br>2016   | 31 Dec.<br>2015 | 31 Dec.<br>2016        | 31 Dec.<br>2015 |
| Balance brought forward   | 408               | 650             | 1 438                  | 670             |
| Revaluations recognised in operating profit (EBIT)  | - 168             | - 232           | - 1 361                | 795             |
| Translation differences   | 14                | - 10            | 41                     | - 27            |
| Balance carried forward   | 254               | 408             | 118                    | 1 438           |
| Total revaluations for the period included in operating profit (EBIT) for assets and liabilities held on the balance sheet date | 49                | - 83            | - 183                  | 459             |

### Sensitivity analysis for Level 3 contracts

For the determination of fair value of financial instruments, Vattenfall strives to use valuation techniques that maximise the use of observable market data where it is available and rely as little as possible on entity-specific estimates.

Entity-specific estimates are based on internal valuation models that are subject to a defined process of validation, approval and monitoring. In the first step the model is designed by the business. The valuation model is then independently reviewed and approved by Vattenfall's risk organisation. If deemed necessary, adjustments are required and implemented. Afterwards, Vattenfall's risk organisation continuously monitors whether the application of the method is still appropriate. This is made by usage of several back-testing tools. In order to reduce valuation risks, the application of the model can be restricted to a limited scope.

Compared to the level 3 contracts in Vattenfall's 2015 Annual and Sustainability Report, the Biomass Sourcing Contract and the Gas supply agreement have been settled. For additional information please refer to Note 47 to the consolidated accounts, Financial instruments by category, offsetting of financial assets and liabilities, and financial instruments' effects on income, in Vattenfall's 2015 Annual and Sustainability Report. The accumulated net value of all level 3 contracts as per 31 December 2016 has been calculated at SEK 136 million (-1,030). A change of +/-5% would affect the total value by approximately SEK +/-37 million (+/-42).

### Financial instruments: Effects on income by category

Net gains (+)/losses (-) and interest income and expenses for financial instruments recognised in the income statement:

|  | 3                                 | 31 Dec. 2016    |                   |                                   | 31 Dec. 2015    |                   |  |
|--|-----------------------------------|-----------------|-------------------|-----------------------------------|-----------------|-------------------|--|
| Total Vattenfall, amounts in SEK million         | Net gains/<br>losses <sup>1</sup> | Interest income | Interest expenses | Net gains/<br>losses <sup>1</sup> | Interest income | Interest expenses |  |
| Derivative assets and derivative liabilities     | 1 758                             | 203             | - 475             | 3 940                             | 116             | - 76              |  |
| Available-for-sale financial assets              | - 143                             | _               | _                 | 15                                | _               | _                 |  |
| Loans and trade receivables                      | 25                                | 1 004           | _                 | - 241                             | 1 546           | _                 |  |
| Financial liabilities measured at amortised cost | - 816                             | _               | - 3 017           | 1 000                             | _               | - 3 306           |  |
| Total  | 824                               | 1 207           | - 3 492           | 4 714                             | 1 662           | - 3 382           |  |

<sup>1)</sup> Exchange rate gains and losses are included in net gains/losses.



### **Note 4 Discontinued operations**

Earnings from discontinued operations

In accordance with IFRS 5 – Non-Current Assets Held for Sale and Discontinued Operations, the lignite operations, which have been divested, are reported as a discontinued operation as from the second quarter of 2016. The lignite operations are thus reported on a separate line in the income statement, and comparison figures for 2015 have been recalculated in a corresponding manner. In the segment reporting, the parts of the Power Generation and Heat segments that pertain to the lignite operations have been reclassified as "Discontinued operations", and the Power Generation and Heat operating segments have been recalculated for earlier periods so that they only include the continuing operations. In accordance with IFRS 5, the balance sheet has not been restated to reflect earlier periods. The Statement of cash flows has not been recalculated. Cash flow from the discontinued lignite operations is presented below in this note.

| 1) The value for Q4 2016 pertains in all essential respects to the recognised exchange rate effect on the | value of diveste | ed operations in | Q1-3 2016. |           |
|---|------------------|------------------|------------|-----------|
| Cash flow from discontinued operations  |                  |                  |            |           |
|   |                  |                  |            |           |
|   |                  |                  |            |           |
|   |                  |                  |            |           |
| 1) The value for Q4 2016 pertains in all essential respects to the recognised exchange rate effect on the | value of diveste | ed operations in | Q1-3 2016. |           |
| Total earnings effect of sale of lignite operations   |                  |                  |            |           |
|   |                  |                  |            | Full year |
| Impairment loss recognised on remeasurement to fair value less costs to sell in Q2 2016                   |                  |                  |            | -21 505   |

Total earnings effect in 2016

- 22 082



### The Parent Company Vattenfall AB

### **Accounting policies**

The Parent Company Vattenfall AB's accounts are prepared in accordance with the Swedish Annual Accounts Act and recommendation RFR 2 – Accounting for Legal Entities, issued by the Swedish Financial Reporting Board. The accounting policies used in this report are the same as those described in Vattenfall's 2015 Annual and Sustainability Report (Note 2 to the Parent Company accounts, Accounting policies).

### Full year 2016

A condensed income statement and balance sheet for the Parent Company are presented below.

- Net sales amounted to SEK 29,752 million (30,670).
- Profit before appropriations and tax was SEK -6,510 million (6,150).
- · Earnings were affected by the following:
  - o Received dividends of SEK 1,729 million.
  - o A small capital gain from the sale of the shareholding in Haparanda Värmeverk AB.
  - An impairment loss of SEK 12,700 million for the shareholding in Vattenfall GmbH.
  - An impairment loss of SEK 633 million for the shareholding in Vattenfall A/S the effect of a received dividend.
- The balance sheet total was SEK 261,902 million (292,057).
- The acquisition of shares in Vindstød A/S took place during the fourth quarter.
- Investments during the period amounted to SEK 7,629 million (589) of which SEK 7,000 million is related to shareholder contribution to Vattenfall Vindkraft AB.
- Cash and cash equivalents, and short-term investments amounted to SEK 35,682 million (38,794).

#### Risks and uncertainties

See Note 1 to the consolidated accounts, Accounting policies, risks and uncertainties.

#### Othor

Significant related-party transactions are described in Note 39 to the Parent Company accounts, Related party disclosures, in Vattenfall's 2015 Annual and Sustainability Report. No material changes have taken place in relations or transactions with related parties compared with the description in Vattenfall's 2015 Annual and Sustainability Report.



### **Parent Company income statement**

| Amounts in SEK million   | Full year<br>2016 | Full year<br>2015 |
|--|-------------------|-------------------|
| Net sales  | 29 752            | 30 670            |
| Cost of products sold  | - 23 999          | - 24 177          |
| Gross profit   | 5 753             | 6 493             |
| Selling expenses, administrative expenses and research and development costs | - 2 398           | - 2 354           |
| Other operating income and expenses, net                                     | 275               | 1 009             |
| Operating profit (EBIT)  | 3 630             | 5 148             |
| Result from participations in subsidiaries                                   | - 11 545          | 3 654             |
| Result from participations in associated companies                           | - 2               | 7                 |
| Result from other shares and participations                                  | 1                 | _                 |
| Other financial income   | 5 127             | 991               |
| Other financial expenses   | - 3 721           | - 3 650           |
| Profit before appropriations and tax   | - 6 510           | 6 150             |
| Appropriations   | 1 466             | 1 194             |
| Profit before tax  | - 5 044           | 7 344             |
| Income tax expense   | - 1 480           | - 908             |
| Profit for the period  | - 6 524           | 6 436             |
|  |                   |                   |



### **Parent Company balance sheet**

| Amounts in SEK million  | 31 Dec.<br>2016 | 31 Dec.<br>2015 |
|---|-----------------|-----------------|
| Assets  | 2010            | 2013            |
| Non-current assets  |                 |                 |
| Intangible assets: non-current  | 174             | 174             |
| Property, plant and equipment   | 4 151           | 4 122           |
| Shares and participations   | 145 586         | 151 865         |
| Deferred tax assets   | 329             | 212             |
| Other non-current receivables   | 58 897          | 83 624          |
| Total non-current assets  | 209 137         | 239 997         |
| Current assets  |                 |                 |
| Inventories   | 255             | 342             |
| Intangible assets: current  | 275             | 215             |
| Current receivables   | 16 553          | 12 172          |
| Current tax assets  | _               | 537             |
| Short-term investments  | 18 733          | 28 491          |
| Cash and cash equivalents   | 16 949          | 10 303          |
| Total current assets  | 52 765          | 52 060          |
| Total assets  | 261 902         | 292 057         |
| Equity, provisions and liabilities                                    |                 |                 |
| Equity  |                 |                 |
| Restricted equity   |                 |                 |
| Share capital (131,700,000 shares with a share quota value of SEK 50) | 6 585           | 6 585           |
| Revaluation reserve   | 37 989          | 37 989          |
| Other reserves  | 1 316           | 1 286           |
| Non-restricted equity   |                 |                 |
| Retained earnings   | 50 142          | 43 736          |
| Profit for the period   | - 6 524         | 6 436           |
| Total equity  | 89 508          | 96 032          |
| Untaxed reserves  | 13 294          | 14 882          |
| Provisions  | 5 308           | 4 835           |
| Non-current liabilities   |                 |                 |
| Hybrid capital  | 19 101          | 18 603          |
| Other interest-bearing liabilities                                    | 49 870          | 54 961          |
| Other noninterest-bearing liabilities                                 | 13 099          | 18 302          |
| Total non-current liabilities   | 82 070          | 91 866          |
| Current liabilities   |                 |                 |
| Other interest-bearing liabilities                                    | 64 688          | 78 348          |
| Current tax liabilities   | 520             | _               |
| Other perioderest heavier liabilities                                 | 6 514           | 6 094           |
| Other noninterest-bearing liabilities                                 |                 |                 |
| Total current liabilities   | 71 722          | 84 442          |



### **Definitions and calculations of key ratios**

### Alternative Performance Measures

In order to ensure a fair presentation of the Group's operations, the Vattenfall Group uses a number of Alternative Performance Measures that are not defined in IFRS or in the Swedish Annual Accounts Act. The Alternative Performance Measures that Vattenfall uses are described below, including their definitions and how they are calculated. The Alternative Performance Measures used are unchanged compared with earlier periods.

**Definition** 

EBIT: Operating profit (Earnings Before Interest and Tax)

EBITDA: Operating profit before depreciation, amortisation and impairment losses (Earnings Before

Interest, Tax, Depreciation and Amortisation)

Items affecting comparability: Capital gains and capital losses from shares and other non-current assets, impairment losses

and reversed impairment losses and other material non-recurring items. Also included here are, for trading activities, unrealised changes in the fair value of energy derivatives, which according to IAS 39 cannot be recognised using hedge accounting and unrealised changes

in the fair value of inventories

Underlying EBITDA: Underlying operating profit before depreciation, amortisation and impairment losses

Underlying operating profit: Operating profit (EBIT) excluding items affecting comparability

FFO: Funds From Operations, see Consolidated statement of cash flow

Free cash flow: Cash flow from operating activities less maintenance investments

Interest-bearing liabilities See Consolidated balance sheet - Supplementary Information

Net debt: See Consolidated balance sheet - Supplementary Information

Adjusted net debt: See Consolidated balance sheet - Supplementary Information

Capital employed: Total assets less financial assets, noninterest-bearing liabilities and certain other interest-

bearing provisions not included in adjusted net debt. see Consolidated balance sheet -

Supplementary Information

Other definitions Definition

Hybrid Capital: Perpetual subordinated securities, junior to all Vattenfall's unsubordinated debt instruments.

LTIF: Lost Time Injury Frequency (LTIF) is expressed in terms of the number of lost time work

injuries (per 1 million hours worked), i.e., work-related accidents resulting in absence longer

than one day, and accidents resulting in fatality.



The key ratios are presented as percentages (%) or times (x).

Key ratios based on continuing operations (except for return on equity which is based on total Vattenfall) and last 12-month values January 2015 – December 2016:

| Operating margin, %               | = 100 x | EBIT   | 1 337             | 1.0   |
|-----------------------------------|---------|--|-------------------|-------|
| Operating margin, 70              | = 100 X | Net sales  | 139 208           | 1.0   |
|                                   |         |  |                   |       |
| Operating margin excl. items      | = 100 x | Underlying EBIT  Net sales   | 21 697            | 15.6  |
| affecting comparability, %        |         | Net sales  | 139 208           |       |
|                                   |         | Durfit hafana tau  | 5.045             |       |
| Pre-tax profit margin, %          | = 100 x | Profit before tax  Net sales   | -5 045<br>139 208 | -3.6  |
|                                   |         | Not sales  | 100 200           |       |
| Pre-tax profit margin excl. items |         | Profit before tax excl. items affecting comparability  | 15 491            |       |
| affecting comparability, %        | = 100 x | Net sales  | 139 208           | 11.1  |
|                                   |         |  |                   |       |
| Return on equity, %               | = 100 x | Profit for the period attributable to owner of the Parent Company  | -26 324           | -33.4 |
| Return on equity, 70              | = 100 X | Average equity for the period attributable to owner of the   | 78 716            | -55.4 |
|                                   |         | Parent Company excl. the Reserve for cash flow hedges  |                   |       |
|                                   |         |  |                   |       |
| Return on capital employed, %     | = 100 x | EBIT  Capital employed, average  | 1 337             | 0.5   |
|                                   |         | Capital employed, average  | 248 640           |       |
| Return on capital employed excl.  |         | Underlying FRIT  | 21 697            |       |
| items affecting comparability, %  | = 100 x | Underlying EBIT Capital employed, average  | 248 640           | 8.7   |
|                                   |         |  |                   |       |
|                                   |         | EBIT + financial income excl. return from the Swedish Nuclear  |                   |       |
| EBIT interest cover, (x)          | =       | Waste Fund   | 2 238             | 0.5   |
| EBIT interest cover, (x)          | _       | Financial expenses excl. discounting effects attributable to   | 4 906             | 0.5   |
|                                   |         | provisions   |                   |       |
|                                   |         |  |                   |       |
|                                   |         | Underlying EBIT + financial income excl. Return  |                   |       |
| EBIT interest cover excl. Items   | =       | from the Swedish Nuclear Waste Fund  | 22 598<br>4 906   | 4.6   |
| affecting comparability, (x)      |         | Financial expenses excl. discounting effects attributable to provisions  | 4 906             |       |
|                                   |         | provisions   |                   |       |
|                                   |         | FFO + financial expenses excl.   |                   |       |
|                                   |         | discounting effects attributable to provisions   | 31 801            |       |
| FFO interest cover, (x)           | =       | Financial expenses excl. discounting effects attributable to   | 4 906             | 6.5   |
|                                   |         | provisions   |                   |       |
|                                   |         |  |                   |       |
|                                   |         | FFO + financial items net excl. discounting effects attributable   |                   |       |
| FFO interest cover, net, (x)      | =       | to provisions and return from the Swedish Nuclear Waste Fund Financial items net excl. discounting effects attributable to | 30 900<br>4 005   | 7.7   |
|                                   |         | provisions and return from the Swedish Nuclear Waste Fund  | 4 005             |       |
|                                   |         | provisions and return from the Owedish Nuclear Waste Fullu   |                   |       |



| Cash flow interest cover after maintenance investments, (x)         | =       | Cash flow from operating activities less maintenance investments + financial expenses excl. Discounting effects attributable to provisions and interest components related to pension costs  Financial expenses excl. discounting effects attributable to provisions and interest components related to pension costs | 22 163<br>3 952   | 5.6   |
|---|---------|---|-------------------|-------|
| FFO/gross debt, %   | = 100 x | FFO Interest-bearing liabilities  | 26 895<br>96 667  | 27.8  |
| FFO/net debt, %   | = 100 x | FFO Net debt  | 26 895<br>50 724  | 53.0  |
| FFO/adjusted net debt, %  | = 100 x | FFO Adjusted net debt   | 26 895<br>124 741 | 21.6  |
| EBITDA/net financial items, (x)                                     | =       | EBITDA  Financial items net excl. discounting effects attributable to provisions and return from the Swedish Nuclear Waste Fund   | 27 209<br>4 005   | 6.8   |
| EBITDA excl. items affecting comparability/net financial items, (x) | =       | EBITDA excl. items affecting comparability Financial items net excl. discounting effects attributable to provisions and return from the Swedish Nuclear Waste Fund  | 36 144<br>4 005   | 9.0   |
| Key ratios based on the balance                                     | •       |   | 83 800            |       |
| Equity/total assets, %  | = 100 x | Equity  Balance sheet total   | 409 260           | 20.5  |
| Gross debt/equity, %  | = 100 x | Interest-bearing liabilities Equity   | 96 667<br>83 800  | 115.4 |
| Net debt/equity, %  | = 100 x | Net debt<br>Equity  | 50 724<br>83 800  | 60.5  |
| Gross debt/gross debt equity, %                                     | = 100 x | Interest-bearing liabilities Interest-bearing liabilities + equity  | 96 667<br>180 467 | 53.6  |
| Net debt/net debt plus equity, %                                    | = 100 x | Net debt  Net debt + equity   | 50 724<br>134 524 | 37.7  |
| Net debt/EBITDA, (x)  | =       | Net debt EBITDA   | 50 724<br>27 209  | 1.9   |
| Adjusted net debt/<br>EBITDA, (x)                                   | =       | Adjusted net debt EBITDA  | 124 741<br>27 209 | 4.6   |



## Year-end report signature, dividend and Annual General Meeting

#### **Dividend**

On account of the negative result for the year the Board of Directors proposes, in accordance with Vattenfall's dividend policy, that no dividend be paid for 2016.

#### **Annual General Meeting**

The Annual General Meeting will be held on 27 April 2017, in Solna. The Annual General Meeting is open to the general public. The Annual Report (in both Swedish and English versions) is expected to be published on <a href="www.vattenfall.se">www.vattenfall.se</a> and <a href="wwww.vattenfall.se">www.vattenfall.se</a>

Solna, 7 February 2017

Vattenfall AB (publ)

The Board of Directors

This year-end report has not been reviewed by the company's auditor.

### Financial calendar

Annual and Sustainability Report 2016, 28 March 2017

Annual General Meeting, 27 April 2017

Interim report January-March, 28 April 2017

Interim report January-June, 21 July 2017

Interim report January-September, 27 October 2017

### Contact information

Vattenfall AB (publ) SE-169 92 Stockholm Corporate identity number 556036-2138 T +46-8-739 50 00 www.vattenfall.com www.vattenfall.se

Magnus Hall President and CEO T +46-8-739 50 09

Stefan Dohler CFO T +46-8-739 54 00

Johan Sahlqvist Head of Investor Relations T +46-8-739 72 51

This information is such that Vattenfall is required to make public in accordance with the EU Market Abuse Regulation and/or the Swedish Securities Market Act. The information was submitted for publication, by the agency of the contact persons above, at 09.00 CET on 7 February 2017. This report has been prepared in both Swedish and English versions. In the event of discrepancies between the two versions, the Swedish version shall govern.