

Financial statements and Board of Directors' report 2019



### Hydro's reporting 2019

The enclosed Financial statements and Board of Directors' report, together with the accompanying notes, fulfills Hydro's Norwegian statutory requirements for annual reporting. The remainder of the Annual Report includes additional information about Hydro's business, viability performance, financial and operating performance, shareholder information and corporate governance.

The "Annual report - 2019" is available in PDF-format on our website www.hydro.com in English. The "Financial statements and Board of Directors' report - 2019" is also available in PDF-format as a separate document in both English and Norwegian. All parts of the reports can be downloaded and printed in PDF-format, together with additional, supplementary information. Paper copies of the reports can also be ordered on our website.

Throughout the report, Hydro refers to Norsk Hydro ASA and its consolidated subsidiaries if not otherwise stated.

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## Year in brief

# 2019 operating results impacted by reduced aluminium and alumina prices, partly offset by lower raw material costs.

Hydro's underlying EBIT decreased to NOK 3,359 million from NOK 9,069 million for 2018. The decrease mainly reflects lower realized aluminium and alumina price, partly offset by the positive effects from increased production in Brazil, lower raw material costs and positive currency effects.

Bauxite production in Paragominas amounted to 7.4 million mt for the year while alumina production from Alunorte was 4.5 million mt. Primary aluminium production was about 2.0 million mt and we delivered 2.6 million mt of casthouse products and liquid metal to internal and external customers. Downstream, we shipped roughly 1 million mt of Rolled Products to the market. Extruded Solutions business area delivered around 1.3 million mt. Our energy business produced around 9.2 TWh of hydroelectric power



40 countries



employees



### Key figures

Amounts in NOK million unless other unit indicated	2019	2018	2017
Revenue	149,766	159,377	109,220
Underlying EBIT			
Bauxite & Alumina	974	2,282	3,704
Primary Metal	(1,259)	1,762	5,061
Metal Markets	983	686	544
Rolled Products	413	413	380
Extruded Solutions	2,009	2,390	284
Energy	1,243	1,846	1,531
Other and eliminations	(1,003)	(310)	(289)
Total	3,359	9,069	11,215
Net Income	(2,370)	4,323	9,184
Underlying return on average capital employed (RoaCE), percent	1.3%	6.6%	9.6%
Investments	10,907	7,614	28,848
Total assets	164,401	164,928	163,273
Share price year-end, NOK	32.64	39.21	62.35
Dividend per share, NOK	1.25	1.25	1.75
Number of employees, year-end	36,310	36,236	34,625
Recordable injuries, per million hours worked	3.0	3.4	2.9
Greenhouse gas emissions, million tonnes CO2e	9.68	9.27	11.19

3,359 MNOK

**Underlying EBIT** 

Result driven by lower realized aluminium and alumina prices, partly offset by the positive effects from increased production in Brazil, lower raw material costs and positive currency effects.

3.4 BNOK

Free cash flow

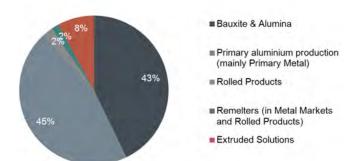
Net cash flow from operations in 2019 amounted to 12.6 BNOK, supported by 5.6 BNOK in net operating capital release. Net investments amounted to 9.2 BNOK.

9.68 mt CO2e

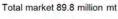
Greenhouse gas emissions

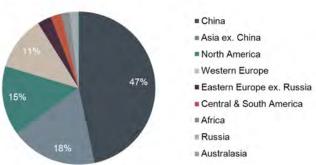
Direct greenhouse gas emissions from Hydro's consolidated activities decreased in 2018 due to the embargo at Alunorte and curtailment at Albras and Paragominas. This was partly reversed in 2019 due to the lifting of the embargo and ramp-up of production

### Hydro's consolidated direct greenhouse gas emissions per business area



### Global aluminium consumption by region 2019





### Hydro and the UN Sustainable development goals

The UN Sustainable Development Goals (SDGs) embrace a universal approach to the sustainable development agenda. They explicitly call on business to use creativity and innovation to address development challenges and recognize the need for governments to encourage sustainability reporting. Hydro has an impact on all of the 17 development goals, but some more than others. Of the 17, Hydro has chosen eight goals that are the most important to us, that are highlighted throughout the report.

Improving our footprint

Making a positive difference

**Driving innovation** 













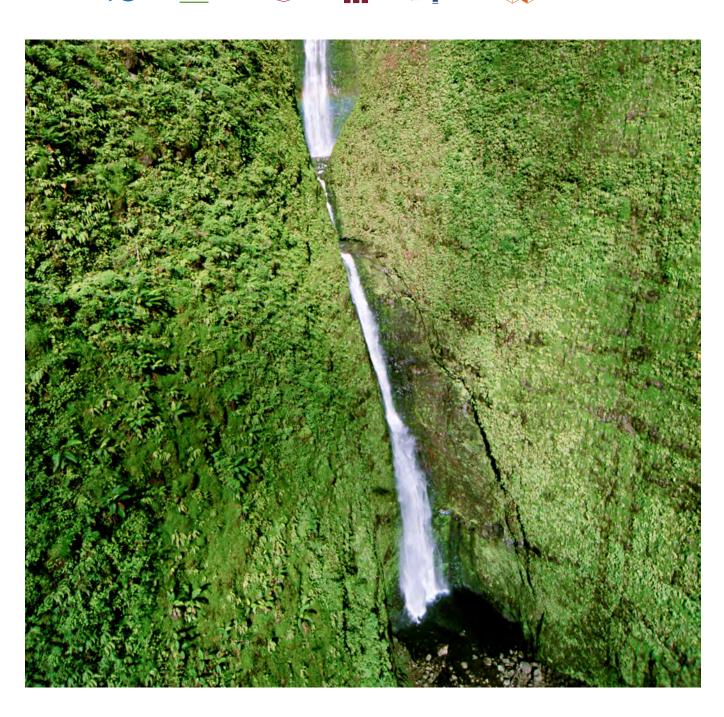












# Lifting profitability, driving sustainability

In 2019 we embarked on our new strategic agenda: "Lifting profitability, driving sustainability". My aim is to position Hydro as a robust and profitable industry leader, based on innovation and sustainability.

Safety of our people remains our top priority. On December 11, I received the worst possible call a CEO can get, from our joint venture in Qatar. A contractor tragically lost his life during a heavy storm while at work for Qatalum. Our most important job is to make sure our employees come home from work safely. Our overall performance on safety improved in 2019, but still short of our ultimate target of an injury-free work environment.

Trade wars, Brexit uncertainty, weak markets and the embargo in Alunorte have weighed on our financial result in 2019. In addition, a malicious and sophisticated cyber-attack hit us hard last spring. I am immensely proud of how our people and organization handled the situation working day and night to recover.

The lifting of the 19-month embargo on our alumina refinery Alunorte in Brazil was a long-awaited milestone. We can only succeed if we have trust in the local communities, and we have stepped up our infrastructure investments as well as community dialogue, social investments, education and competence building. Our responsibility is as important both on the inside and outside of the fence.

### Profitability

On our 2019 Investor Day, we announced ambitious targets to lift profitability and drive long-term shareholder value. We launched a NOK 7.3 billion improvement program to be delivered by 2023, including a strategic review of the Rolled Products business area and a capital returns target of 10 percent over the cycle (RoaCE). I am pleased to see that all business areas are making progress towards their 2023 target, under challenging market conditions.

Our new strategic agenda is based on cost-competitive assets, operational excellence, strong market positions, innovation and differentiation on sustainable processes and products. A clear capital allocation framework is established based on different strategic modes for each business area.

In my view we cannot achieve profitability in the long run without operating and producing in a sustainable way. I see it as an ethical responsibility, but also as a business opportunity, to make the carbon footprint of our products a competitive edge.

In August 2019, we launched two new greener brands: Hydro REDUXA with one of the world's lowest carbon footprint (less than 4 kg  $CO_2$  per produced kg aluminium) and Hydro CIRCAL produced on minimum 75 percent post-consumer scrap.

I am happy to see that Hydro CIRCAL already is sold to more than 60 building projects in 16 countries in Europe, the Middle East, and the US. This is a small, but promising illustration that there is a willingness to make greener choices in the marketplace when alternatives are offered. And this is only the beginning.

In my opinion it should be as obvious and easy for decisionmakers to consider the carbon footprint of different materials and consumer products, as it is to read the fat content on a milk carton at the grocery store.

Technology and innovation are key to profitability and sustainability. We have to be in front in order to succeed in the world championship every day. In electrolysis technology we are first tier, producing the world's most climate and energy-efficient primary aluminium at our Karmøy Technology Pilot plant , with average 2019 numbers for energy consumption in line with the target values of 12.3 kWh per kilo aluminium — and 11.7 kWh per kilo aluminium for the six ULTRA cells. Innovative technology elements from the pilot are already implemented in our upgraded production line at Husnes, reopening in first half of 2020.

In material technology we unite our expertise with researchers and product designers to develop tailormade alloys that expand the use of our material into new applications in transportation, building and construction, packaging, electronics, marine and offshore.

Based on our expertise in energy and metallurgy we also consider new opportunities for how to use and expand our core competencies into interesting areas like batteries and recycling.

### Sustainability

Hydro's sustainability agenda rests on three pillars: Climate, environment and social responsibility. We have a good starting point: A century-long history of sustainable industrial development, using hydropower to produce products that the world needs in a responsible manner. 70

percent of the electricity used in our primary aluminium production is from renewable sources.

Our new climate strategy – "30 by 2030" – calls for reducing our gross CO2 emissions by 30 percent throughout the value chain. We will do this through greener sourcing and greener production. We are also helping our customers reduce their footprint through our greener products.

The energy mix at Alunorte is crucial for our climate ambition. Changing from oil to gas in the calciners will reduce CO2 emissions by 600,000 tonnes per year by 2025. Switching from coal boilers to renewable power will cut another 2 million tonnes a year by 2030.

The ambition of Primary Metal is to reduce specific greenhouse gas emissions by another 8 percent by 2030 from an already first-tier level. Through digitalization and big data, we make use of simulations and predictions to optimize and get more out of less. Toward 2050, we need to go even further. Through R&D we will explore potential paths towards low- or zero-carbon emissions, like carbon capture, carbon-free processes and use of biocarbon in anodes.

More renewable power in our energy mix and operational improvements will contribute to further reductions in carbon footprint. Hydro is one of the largest corporate buyers of long-term renewable energy contracts in Europe. By committing to long-term contracts, we not only improve our own footprint, we also support and enable more renewable energy projects to be realized and financially viable.

In our new environment strategy towards 2030 we will address the industry's key challenges. This will include continued rehabilitation of forest at our bauxite mine in Pará, Brazil, reducing our tailings and bauxite residue footprints, recycling our spent pot lining and halving our nongreenhouse gas emissions to air (SO2, NOx and particulate matter).

Through our social responsibility strategy, we emphasize community dialogue, social investments and targeting education and capacity building for 500,000 people by 2030, spanning programs for children and trainees, our suppliers as well as local stakeholders in Pará, Brazil and other communities Hydro is part of.

Engaging with a range of international organizations, we work to improve industry standards for human rights, transparency and responsible production. Hydro is a signatory to the UN Global Compact, and included on the Dow Jones Sustainability Indices, the UN Global Compact 100 and the FTSE4Good list.

Hydro became the first member of the Aluminium Stewardship Initiative (ASI) to have an unbroken chain of certifications throughout the entire value-chain, from mine to end-products. As of 1 March, 40 Hydro plants have been ASI certified, and we aim to reach 60 before year-end. I am confident that more customers want materials from certified suppliers.

### The Hydro Way

Based on our values care, courage and collaboration, we will meet the challenges and seize the opportunities in the market through safe, compliant and efficient operations, portfolio optimization, restructuring and improvements, a robust balance sheet, selective capital allocation and strict capital discipline.

We will position our metal, our products and solutions for the future by demonstrating responsible and sustainable conduct in all parts of the value chain, minimizing the footprint of producing it, while maximizing the benefits of using it and bringing post-consumer scrap back into the loop.

I am confident that we have set the right agenda for the company, and I am confident that our people have what it takes to embark on the opportunities ahead. We have the competence, engagement and dedication to deliver and transform Hydro into a profitable and sustainable company with a promising future.



Kilde M. Hacheim

Hilde Merete Aasheim CEO and President

# Board of Directors' report

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### Quick overview

Hydro aims to lift profitability and drive sustainability, in order to increase and drive long-term value for our stakeholders and contribute to a viable society.

Hydro has strong positions throughout the value chain and an attractive asset base. This includes competitive positions in bauxite and alumina, hydropower production, and our smelter portfolio, Europe's largest rolling operations, strong position in recycling and a world leading position in extruded solutions. Through continuous improvement, restructuring efforts and selective investments in areas with positive market prospects, Hydro has increased the robustness of its portfolio over recent years.

Following disappointing financial results in 2019, resulting from curtailed operations in Brazil at the start of the year, a cyber-attack in March, and declining market conditions towards the end of the year several immediate measures were launched to improve cash generation. These include an ambitious new improvement program and target for operating capital release, as well as the restructuring of our Rolled Products business

Our future profitability depends on our ability to operate sustainably. We have quantified a set of ambitions towards 2030 to improve our performance on climate, environment and social responsibility.

# Strategic direction and key developments

### Lifting profitability and driving sustainability

Hydro aims to lift profitability and drive sustainability, in order to increase long-term value for our stakeholders and contribute to a viable society. The two main pillars of our strategy are to deliver 10 percent capital returns over the business cycle and to reduce our  $CO_2$  emissions by 30 percent by 2030.

Following disappointing financial results in 2019, resulting from ongoing curtailed operations in Brazil at the start of the year, a cyber-attack in March, and declining market conditions toward the end of the year, we launched several immediate measures to improve cash generation. These include an ambitious new improvement program and target for operating capital release, as well as the restructuring of our Rolled Products business area.

We also introduced a new capital allocation framework, with strategic growth modes for the different parts of our value chain, designed to increase returns and ensure that capital is allocated according to the following strategic objectives:

- More stable earnings profile
- Increased exposure in areas with a competitive advantage
- · Larger customer base downstream
- Sustainable value chain with lower environmental footprint to reduce risk

Hydro's future profitability depends on our ability to operate sustainably. We have quantified a set of ambitions to improve our performance on climate, environment and social responsibility toward 2030. By reducing risk, emphasizing safety in our operations, improving relations with stakeholders and neighbors, increasing resource efficiency, reducing our own emissions and developing new markets, Hydro's business will be more robust. Complying with laws, regulations and Hydro's steering documents, and respecting human rights, are fundamental to our way of working and are key elements to our license to operate.

We recognize that we can only succeed if communities and partners around us succeed. With our social responsibility strategy, we aim to make a positive difference by strengthening our business partners and the local communities where we operate. Community dialogue and stakeholder engagement are vital to this work. Within safety, our ambition is to prevent all injuries and ill health to avoid human suffering, and to avoid damage to property and loss of production. Hydro aims to mitigate emissions to land, water and air, conserve biodiversity and reduce waste production, addressing the industry's key environmental issues.

### Strong foundation

Hydro has strong positions throughout the value chain and an attractive asset base.

### This includes:

 First quartile cost position for the integrated Alunorte refinery and Paragominas bauxite mine, and long-term access to key raw materials for aluminium production

- 10 TWh hydropower production in Norway at a competitive production cost, secure and stable energy source for aluminium production
- Low second quartile cost position for our primary aluminium plant portfolio, technological leadership through Karmøy technology pilot and more than 80 percent share of value-added metal products
- Largest aluminium rolling operations in Europe, focusing on growing market segments, including automotive and beverage can
- World's largest extruded solutions provider, the market leader in North America and Europe
- Strong and growing position in recycling of post-consumer scrap enabling Hydro to meet increasing demand for products with a high recycled content
- More than 70 percent of the electricity used in Hydro's production of primary aluminium is based on renewable power, enabling Hydro to meet increasing demand for products with low-carbon content

Hydro has increased the robustness of its portfolio in recent years, through continuous improvement, restructuring efforts and selective investments in areas with positive market prospects.

Despite the current challenging markets, the growth outlook in long-term demand for aluminium remains firm and is growing in line with macroeconomic development.

Aluminium demand is driven by a general increase in consumption and by the increasing level of substitution to aluminium from other materials. Aluminium products are important in all phases of economic development due to the diversified nature of applications such as capital investment in infrastructure, marine products, building and construction as well as consumer goods such as packaging, transportation, beverage cans, electrical and technical applications and household goods.

Substitution effects are driving demand primarily in the transportation sector, driven by the need to improve fuel efficiency and range extension through lighter cars, trains and trucks. Aluminium is also key to zero-energy buildings, solar applications and packaging that preserves food and drink, and demands less energy to transport. Around 70 percent of our primary aluminium production is based on electricity from renewable sources, which positions Hydro as a leading producer of low-carbon primary aluminium. This, together with the use-phase benefits of aluminium and the recyclability of the metal, is reducing the carbon footprint of our products and solutions.

#### Strategic priorities

Cost-competitive asset base based on operational excellence and innovation

We aim to maintain and improve our position in the first and second quartile of the cost curve for our upstream asset portfolio by focusing on safety, operational excellence, process innovation and competitive sourcing of key raw materials and energy.

Strong market positions capitalizing on innovation
Our target is to grow in innovative product segments such as automotive and e-mobility, utilizing strong collaboration with key customers built on innovation and competence. We will also further explore the substitution potential of

aluminium, which is evident in many different market segments, such as cars, beverage cans and electrical wiring.

Differentiate on sustainable footprint, products and processes Sustainability is an integrated part of lifting Hydro's profitability and long-term value creation in a low-carbon economy. To further improve our performance related to climate, environment and social responsibility, we have launched and quantified a set of ambitions toward 2030. We will achieve this by reducing our own environmental impact and emissions in production, by developing greener products, by helping our customers design more sustainable solutions, and by making a positive difference by strengthening local communities and our business partners. With last year's launch of our new certified low-carbon product brands CIRCAL and REDUXA, we set a new standard for commercializing our sustainability position with low-carbon and recycled aluminium.

#### Measures to lift profitability and drive sustainability

Hydro aims to lift cash flows and returns with extensive improvement and restructuring efforts across its business areas, while highlighting sustainability as a basis for the company's positioning. The new improvement ambition is targeting NOK 7.3 billion in total EBIT improvements across all business areas over the next five years, including the restart of curtailed capacity of the Brazilian assets with an effect of NOK 2.7 billion.

Restructuring and strategic review of Rolled Products
Hydro has initiated a strategic review and comprehensive
restructuring of the Rolled Products business area to mitigate
the declining profitability the business has faced over the last
years. The aim is to reverse this trend by lifting
organizational and operational efficiency as well as by
shifting the product portfolio away from declining markets
and toward growth markets like automotive and beverage
can. The target is a NOK 0.9 billion improvement by 2023.
These improvements will be realized, while also continuing
the strategic review, which aims to evaluate the optimal
ownership set-up for our Rolled Products business.

Revised operating model with leaner staff functions and strong business areas
Staff improvement efforts, represented by the Fit4Future program, are set to contribute NOK 0.5 billion in improvements mainly through increased efficiency within staff functions across Hydro, of which Global Business Services (GBS) will deliver most of the gains. The revised operating model includes a new corporate development

function to strengthen our ability to drive the profitability and sustainability agenda, through optimal capital allocation.

#### New capital allocation framework

A clear capital allocation framework is a vital component in our work to meet our profitability targets. Different strategic modes have been applied to the business areas. The strategic mode *sustain and improve* applies to our Bauxite & Alumina and Primary Metal business areas. The strategic mode *selective growth* applies to Energy, Metal Markets and Extruded Solutions. Rolled Products is under *strategic review*. We will run a dynamic capital allocation process that supports financial and investment flexibility, continuous review and re-allocation, and which also stimulates internal competition for capital, both between and within the business areas.

#### 10 percent RoaCE target

Hydro is committed to drive long-term value for our shareholders. To strengthen the focus on profitability, we have introduced a 10 percent RoaCE target over the cycle for the group, while all business areas will aim to deliver RoaCE above their differentiated cost of capital. Hydro's RoaCE has averaged 5.1 percent over the past 10 years, and while our upstream assets are well placed on the industry cost curve, the expansion of alumina and aluminium production capacity in China has negatively affected the prices of alumina and aluminium.

Driving sustainability – new climate and environmental strategy Our new ambition is to cut our own greenhouse gas (GHG) emissions by 30 percent and reduce non-GHG emissions by 50 percent by 2030. The fuel switch project from oil to gas at Alunorte, an increase in the use of renewable power in our energy mix, and operational improvements in all business areas are important contributors in our work toward reaching these ambitions. In addition, we will continue to address industry challenges related to management of tailings, bauxite residue and waste, and water-related risks.

Through continuous improvements and technology enhancements, Hydro has reduced its greenhouse gas emissions from the electrolysis process by 70 percent since the 1990s. By increasing the share of renewable energy used in electrolysis to above 70 percent, our carbon footprints through the aluminium value chain – from bauxite mining to electrolysis and casting – are among the lowest in the industry. This has enabled Hydro to take a leading position in delivering metal with low-carbon footprints to the market.

#### 2019 Status and targets

Capital returns Balance sheet Free cash flow 3.4 BNOK<sup>3)</sup> **URoaCE** FFO/aND  $1.3\%^{1)}$ 27%<sup>2)</sup> Lifting profitability 10% target over the cycle >40% target over the cycle Improvement program Net operating capital Capex Shareholder payout **1.0 BNOK 5.6 BNOK 9.6 BNOK** 1.25 NOK/share<sup>4)</sup> release 68% average 5-yr payout ratio ~ 4 BNOK target from 2020 estimate 9.5 - 10.0 BNOK 2023 target 7.3 BNOK 40% payout ratio over the cycle 2019 target 0.5 BNOK end-2018 to end-2020 1.25 NOK/share dividend floor

- 1) URoaCE Hydro (Annual definition) calculated as underlying EBIT last 4 quarters less Income tax expense adjusted for tax on financial items/ Average capital employed last 4 quarters. 2) Funds from operation LTM/Average LTM adjusted net debt
  3) Free cash flow – operating cash flow less investing cash fllow excl. sales/purchases of short-term investments
  4) Pending approval from the AGM on May 11, 2020

#### 2019 Status and targets



Climate

30% reduction in CO<sub>2</sub> emissions by 2030

### Safety

TRI rate 3.0 FY 2019

Ambition: Zero fatalities and injury free environment

**Business** ethics

94%

Completed e-learning in Hydro's code of conduct

2019 target: 90%

### Social responsibility

2018

2030

2030 target: Contribute to education and skills for 500,000 people

Greener products

10 000 mt **CIRCAL** produced FY 2019

combined 2020/21 target: 65,000 mt

### **Biodiversity**

On track 2019

Target: 1 to 1 rehabilitation of available mined areas

Environment

50% reduction in non-GHG emissions by 2030

#### 2019 Developments

Following the lifting of the production embargo at the Alunorte refinery in May, the alumina market (World ex-China) returned to a surplus towards the end of 2019, with the excess alumina balanced by Chinese alumina imports. In addition, demand for bauxite imports into China continued to grow. This was driven by an increase in alumina production by coastal refineries traditionally reliant on imported bauxite, and by new demand from inland refineries switching away from expensive domestic bauxite, which is increasingly difficult to source. The increased demand was largely met by the continued strong growth in imports from Guinea, moderate growth from Australian mines and by increasing Indonesian volumes following the lifting of an export ban.

Global primary aluminium demand declined 1.2 percent in 2019, reflecting negative macroeconomic developments. Global supply decreased by 0.7 percent, resulting in a global deficit of around 0.9 million mt. Primary production growth in China fell 2.1 percent year-on-year in 2019 due to several large disruptions, in addition to environmental and supply-side reforms that led to cutbacks of illegal capacity. Demand in downstream segments weakened during the second half of the year due to manufacturing weakness in both Europe and the US.

Hydro's safety performance improved in 2019. The company's TRI<sup>1</sup> rate decreased from 3.4 in 2018 to 3.0 in 2019 but did not meet the 2019 target of below 2.7. Hydro's joint-venture partner Qatalum experienced a fatal accident in 2019 as one contractor tragically died.

Hydro's underlying EBIT for the year 2019 was NOK 3.4 billion, down from NOK 9.1 billion in the previous year. The decrease reflects lower realized aluminium and alumina prices. This was partly offset by the positive effects of increased production in Brazil, lower raw material costs and positive currency effects.

Hilde Merete Aasheim was appointed new President and CEO of Norsk Hydro ASA, effective from May 8, 2019. Her focus from day one has been to lift profitability and drive sustainability.

The federal court in Belem, Brazil, lifted the production embargo on the Alunorte alumina refinery on May 20, allowing Alunorte to ramp up toward normal production. The embargo on Alunorte's new bauxite residue disposal area (DRS2) was lifted on September 26, which allowed Alunorte to resume activities of installation and commissioning at DRS2. The lifting of the embargoes ended a 19-month period of restricted activities at the plant. Alunorte, with annual production capacity of 6.3 million mt, reached 90 percent utilization of its capacity by the end of the year. With nine fully operational press filters, we expect to reach full capacity utilization by the end of 2020.

On March 19, 2019, Hydro was subject to an extensive cyberattack. The attack affected our entire organization, with the most significant operational challenges and financial losses occurring in our Extruded Solutions business area. Hydro's other business areas were able to maintain normal

<sup>1</sup> Total recordable injuries per million hours worked, includes employees and contractors

production levels, albeit based upon work-intensive workarounds and manual procedures. Hydro has resumed normal operations, and estimates the total cost of the cyberattack to be in the range NOK 650 - 750 million. The company has robust cyber insurance in place with recognized insurers. In 2019, Hydro recognized NOK 216 million in insurance compensation, most of which is reflected in Extruded Solutions' result. Further compensation will be recognized when deemed virtually certain.

Progress has been made on Hydro's new improvement program, which is targeting NOK 7.3 billion by 2023. At the end of 2019, we realized NOK 1 billion in improvements, which was ahead of the NOK 0.5 billion goal for the year. The contribution from Bauxite & Alumina was higher than targeted, reflecting a faster ramp-up of Alunorte and Paragominas than projected in the improvement program. However, mainly due to the Alunorte curtailment during 2018 and 2019, Hydro was not able to deliver on its previous *Better* program.

Hydro has completed several investments related to the wastewater handling and treatment systems at Alunorte, totaling BRL 675 million (around NOK 1.5 billion). These aim at increasing wastewater treatment capacity by 50 percent and water reservoir capacity by 350 percent, in addition to strengthening the infrastructure related to the water management system and enhancing the system's robustness and flexibility.

On December 18, a decision was made to curtail a maximum of 20 percent of production at Hydro's majority-owned Slovalco primary aluminium plant in Slovakia. The curtailment was in response to the weakening market environment combined with Slovalco's relatively high cost position and uncertainty related to the renewal of its power contract, which is set to expire at the end of 2021.

Extruded Solutions has undergone an optimization of its large asset portfolio to identify ways to streamline and to reduce costs supporting its ongoing NOK 1 billion improvement target. In 2019, several extrusion plants in Europe and the US were closed or divested, and in most cases, production volumes were transferred to other facilities.

Hydro has initiated a strategic review and comprehensive restructuring of the Rolled Products business area to mitigate the declining profitability the business has faced over the last years. The aim is to reverse this development by improving organizational and operational efficiency, and by shifting the product portfolio away from declining markets and toward growth markets like automotive and beverage can. The improvement target is NOK 0.9 billion by 2023.

Hydro launched two new low-carbon aluminium brands in 2019, CIRCAL and REDUXA. Hydro CIRCAL is a range of products made with recycled post-consumer scrap, and sales of CIRCAL products were around 10,000 mt in 2019. By using recycled content, we reduce energy use substantially while still being able to offer high-quality products. CIRCAL contains a minimum of 75 percent post-consumer scrap. Hydro REDUXA is our series of certified, low-carbon

primary aluminium. REDUXA is produced with renewable energy, and guarantees a maximum carbon footprint of 4.0 kg CO2 per kg aluminium – 25 percent of the global average.

40 of Hydro's aluminium sites worldwide have achieved certification according to the Aluminium Stewardship Initiative (ASI)'s Performance Standard. ASI is a global, multi-stakeholder, non-profit standards setting and certification organization. It works toward responsible production, sourcing and the stewardship of aluminium following an entire value-chain approach.

The integration of Extruded Solutions and its 22,000 employees was concluded successfully in 2019. Integration synergies of NOK 200 million per year have been realized, primarily in remelting and recycling, and further synergy potentials are being explored, including innovation, research and development.

In the second quarter of 2019, Hydro Extrusion Portland, Inc. (formerly Sapa Profiles, Inc., or SPI), a subsidiary of Hydro Extruded Solutions AS (formerly Sapa AS), reached resolution with the U.S. Department of Justice as to claims involving certain aluminium extrusions that SPI manufactured from 1996 to 2015, including extrusions that were delivered to a supplier to NASA. SPI paid USD 46.9 million pursuant to a plea agreement and a civil settlement agreement. As part of the resolution, SPI's US parent company (Sapa Extrusions, Inc., now Hydro Extrusion USA, LLC) also entered into a deferred prosecution agreement. SPI is in negotiations with NASA as to SPI's potential debarment as a federal government contractor. These costs were provided for in periods before 2019.

In April 2019, Hydro raised EUR 800 million in the bond market by issuing new six-year and 10-year Eurobonds. The proceeds will be used to refinance maturing debt and for general corporate purposes. In December 2019, Norsk Hydro ASA signed a USD 1,600 million revolving multi-currency credit facility with the margin linked to Hydro's greenhouse gas emission target. The facility, which is available for general corporate purposes, carries a five-year maturity with two one-year extension options, and it replaces Hydro's undrawn USD 1,700 million revolving credit facility signed in 2013. The margin under the facility will be adjusted based on Hydro's progress to meet its target to reduce greenhouse gas emissions by 10 percent by the end of 2025.

### Investor information

Hydro's share price closed at NOK 32.64 at the end of 2019. The return ex. dividend for 2019 was negative with NOK 6.57, or negative 17 percent.

Hydro's Board of Directors proposes to pay a dividend of NOK 1.25 per share for 2019, for approval by the Annual General Meeting on May 11, 2020, taking into account a demanding year for the company and the volatility in the aluminium industry. This is consistent with NOK 1.25 per share paid out for 2018. The proposed payment demonstrates the company's commitment to provide a predictable dividend to shareholders. Hydro has a dividend policy of 40 percent payout ratio of reported net income over the cycle with NOK 1.25 per share considered as a floor. The average five-year payout ratio is 68 percent.



### Financial results

### Underlying financial and operating results

Key financial information	Year	Year
NOK million, except per share data	2019	2018
Revenue	149,766	159,377
Earnings before financial items and tax (EBIT)	499	8,522
Items excluded from underlying EBIT <sup>1)</sup>	2,860	547
Underlying EBIT <sup>1)</sup>	3,359	9,069
Underlying EBIT :		
Bauxite & Alumina	974	2,282
Primary Metal	(1,259)	1,762
Metal Markets	983	686
Rolled Products	413	413
Extruded Solutions	2,009	2,390
Energy	1,243	1,846
Other and eliminations	(1,003)	(310)
Underlying EBIT <sup>1)</sup>	3,359	9,069
Earnings before financial items, tax, depreciation and amortization (EBITDA) <sup>2)</sup>	9,878	15,796
Underlying EBITDA <sup>1)</sup>	11,832	16,344
Net income (loss)	(2,370)	4,323
Underlying net income (loss) <sup>1)</sup>	708	5,819
Earnings per share	(0.88)	2.08
Underlying earnings per share <sup>1)</sup>	0.52	2.75
Financial data:		
Investments <sup>1)2)</sup>	10,907	7,614
Net cash (debt) <sup>1)</sup>	(11,760)	(11,745)
Adjusted net cash (debt) <sup>1)</sup>	(25,447)	(24,511)
Underlying Return on average Capital Employed (RoaCE) <sup>1)</sup>	1.3 %	6.6 %
	Year	Year
Key Operational information	2019	2018
2 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4		0.044
Bauxite production (kmt) <sup>3)</sup>	7,360	6,214
Alumina production (kmt)	4,487	3,712
Realized alumina price (USD/mt) <sup>4)</sup>	326	429
Primary aluminium production (kmt)	2,038	1,993
Realized aluminium price LME (USD/mt)	1,827	2,140
Realized USD/NOK exchange rate	8.74	8.08
Rolled Products sales volumes to external market (kmt)	952	951
Extruded Solutions sales volumes to external market (kmt)	1,269	1,396
Power production (GWh)	9,150	10,693

<sup>1)</sup> Alternative performance measures (APMs) are described in the appendicies to the Board of Directors' report.

<sup>2)</sup> EBITDA and investments per segment are specified in Note 1.4 Operating and geographic segment information in the financial statements.

<sup>3)</sup> Paragominas production, on wet basis.

<sup>4)</sup> Weighted average of own production and third party contracts. The majority of the alumina is sold linked to either the LME prices or alumina index with one month delay.

Hydro's underlying EBIT decreased to NOK 3,359 million from NOK 9,069 million for 2018. The decrease reflects lower realized aluminium and alumina prices, partly offset by the positive effects from increased production in Brazil, lower raw material costs and positive currency effects.

Underlying EBIT for Bauxite & Alumina decreased compared to 2018 driven by lower alumina sales price, partly offset by positive effects of increased production at Alunorte and Paragominas and positive currency effects.

Primary Metals' underlying EBIT declined substantially compared to 2018. The decrease was driven by lower all-in metal prices and lower earnings on power sales in Brazil, partly offset by positive currency effects and lower raw material costs.

Underlying EBIT for Metal Markets increased compared to 2018 due to higher results from the remelters, and sourcing and trading activities, partly offset by negative inventory valuation and currency effects.

The underlying EBIT for Rolled Products for 2019 was on the same level as last year. The result from the rolling mills was somewhat weaker. Increased costs related to the closure of part of the foil production at Grevenbroich were only partly offset by positive currency effects and somewhat lower operational costs. The Neuss smelter result increased, driven by lower raw material costs partly offset by lower all-in metal prices.

Extruded Solutions' underlying EBIT decreased compared to last year. Lower volumes, mainly resulting from the cyberattack and a declining market, as well as higher costs, were partly offset by higher margins. Extrusion Europe results were lower, driven by a decline in most market segments. Extrusion North America results decreased somewhat mainly due to lower volumes and increased costs, offset by higher margins.

Compared to the previous year Energy's underlying EBIT was significantly lower, mainly due to lower production.

# **Impairments, rationalization charges and other effects** An impairment of NOK 506 million at Hydro's majorityowned Slovalco primary aluminium plant in Slovakia was recognized 2019, reflecting the weakening market

environment combined with Slovalco's relatively high cost position and uncertainty relating to the renewal of its power contract expiring at the end of 2021. Bauxite & Alumina recognized an impairment of NOK 145 million for undeveloped bauxite resources considered unlikely for future development. Extruded Solutions recognized significant rationalization and impairment costs of NOK 651 million for the full year, related to the optimization of their asset portfolio. In addition, an increase in environmental provisions of NOK 125 million was recognized for an idle extrusion site in the US. Rolled Products recognized a provision of NOK 1,088 million in rationalization charges related to its ongoing strategic review.

All costs described above are excluded from underlying EBIT. See Note 2.5 Impairment of non-current assets in the financial statements and the Alternative Performance Measures section for further information.

#### Liquidity, financial position, investments

Hydro manages its liquidity at group level, ensuring sufficient funds to cover group operational requirements.

Hydro's net debt was NOK 11.8 billion at the end of 2019, compared to NOK 11.7<sup>2</sup> at the end of 2018. Net cash provided by operating activities of NOK 12.6 billion was sufficient to cover net cash used in investing activities of NOK 9.2 billion and dividend payments of NOK 2.6 billion to Norsk Hydro's shareholders.

Hydro's adjusted net cash (debt) to equity ratio was 37 percent, well below its targeted maximum ratio of 55 percent. Funds from operations to average adjusted net cash (debt) ratio was 27 percent, which is below the targeted minimum of 40 percent over the business cycle. See note 7.1 to the financial statements for information on Hydro's capital management measures.

Norsk Hydro ASA has a USD 1.6 billion revolving multicurrency credit facility with a syndicate of international banks, maturing in December 2024, with two one-year extension options. The facility was undrawn per year-end 2019. The facility will continue to serve primarily as a backup for unforeseen funding requirements. See Note 7.1 Capital management in the Financial statements for additional information.

 $<sup>^2</sup>$  Adjusted from NOK 8.7 billion, as reported in 2018, to NOK 11.7 billion due to IFRS 16 implementation effects as specified in note 10.5 to the consolidated financial statements.

#### Reported EBIT and net income

In addition to the factors discussed above, reported earnings before financial items and tax (EBIT) and net income include effects that are disclosed in the table below. Items excluded from underlying EBIT and underlying net income (loss) are defined and described as part of the Alternative Performance Measures in the Appendices to the Board of Directors' report.

Items excluded from underlying EBIT and net income <sup>1)</sup>	Year	Year
NOK million	2019	2018
Unrealized derivative effects on LME related contracts	91	39
Unrealized derivative effects on power and raw material contracts	(99)	(260)
Metal effect, Rolled Products	370	(73)
Significant rationalization charges and closure costs <sup>2)</sup>	1,484	79
Impairment charges <sup>3)</sup>	906	-
Alunorte agreements - provision <sup>4)</sup>	80	519
Transaction related effects 5)	21	-
Pension <sup>6)</sup>	(62)	40
Other effects <sup>7)</sup>	68	203
Items excluded from underlying EBIT	2,860	547
Net foreign exchange (gain)/loss	1,204	1,303
Calculated income tax effect	(986)	(355)
Items excluded from underlying net income	3,078	1,495
Income (loss) tax rate	(52)%	33%
Underlying income (loss) tax rate	72%	30%

- 1) Negative figures indicate reversal of a gain and positive figures indicate reversal of a loss.
- 2) Significant rationalization and closure costs include a provision for costs related to reduction of overcapacity, closures and environmental clean-up activities in Rolled Products and Extruded Solutions
- 3) Impairment charges for 2019 include write downs of undeveloped bauxite resources in Brazil, the Slovalco smelter and various assets in Extruded Solutions.
- 4) Alunorte agreements provision relates to provisions for the TAC and TC agreements with the Government of Parà and Ministèrio Pùblico made on September 5, 2018, including later adjustments for changes in cost estimates.
- 5) Transaction related effects include a net gain of NOK 14 million related to divestment of an Extruded Solutions plant in 2019 and a loss of NOK 35 million related to revaluation of Hydro's pre-transactional 50 percent share in Technal Middle East and to fair value allocated to inventory sold during the year.
- 6) Pension includes adjustments in Extruded Solutions as described in Alternative Performance Measures section in the appendices to the Board of Directors' report.
- 7) Other effects include adjustments in Rolled Products, Extruded Solutions, Energy, as well as Other and eliminations as described in the in Alternative Performance Measures section in the appendices to the Board of Directors' report.

# Market developments and outlook

### **Upstream market developments**

The Platts alumina price index started the year at USD 395 per mt ranging from USD 275 - 418 per mt during 2019 and ended the year at USD 275 per mt. The price index remained above USD 350 per mt until the Alunorte production embargo was lifted in May and declined steadily thereafter to end the year at the low of USD 275 per mt. The Platts alumina price index averaged USD 331 per mt for the year, a 30 percent decrease compared to 2018. Prices as a percentage of LME varied, averaging 18.3 percent for the year compared with 22.5 percent in 2018. The price index at the end 2019 represented 15.0 percent of the three-month aluminium price quoted on LME.

As the Alunorte refinery increased production rates following the lifting of the production embargo in May, traditional alumina trade flows were re-established. China imported 1.6 million mt (1.4 million mt net of exports) of alumina in 2019 compared to net exports of 1.0 million mt in 2018 which was required to balance the World ex China alumina market last year.

China imported 100.7 million mt of bauxite in 2019, 22 percent higher than the previous year. Driven by new mines increasing production, imports from Guinea increased 16 percent from 2018 to 44.4 million mt, slightly below the 21 percent increase in imports from Australia (36.0 million mt). Those two countries accounted for 80 percent of China's bauxite imports, compared to 82 percent in 2018. Imports from Indonesia increased 91 percent to 14.4 million mt as monthly exports increased after a government-imposed export ban was lifted. Imports from Brazil increased 18 percent to 1.6 million mt. Imports from the Solomon Islands and Malaysia reached 1.2 million mt and 0.8 million mt, respectively.

The price of bauxite imported into China in 2019 decreased to an annual average of USD 51 per mt CIF China compared to USD 53 per mt CIF China in 2018.

Three-month LME prices started the year around USD 1,850 per mt and ended the year at USD 1,830 per mt. During the first quarter of 2019, prices moved towards USD 1,950 per mt due to very strong alumina prices on continued Alunorte uncertainties regarding restart. As Alunorte restart was announced, three-month LME price moved down to USD 1,800 per mt and it stayed in a USD 1,730 to 1,830 per mt range throughout the year.

North American and European standard ingot and product premiums started the year at USD 419 per mt and at USD 115 per mt respectively. European standard ingot premiums improved from start of the year to end of the third quarter based on both demand and healthy fundamentals, however premiums decreased towards the year-end. North American standard ingot premiums, on the other hand, traded sideways on very high levels for the first five months of the year before falling somewhat on the lifting of import duties from Canada. Towards the end of the year, North American standard ingot premiums fell by almost USD 100 per mt due to demand contraction and availability of secondary aluminium. North American and European standard ingot and product premiums ended the year at USD 320 per mt and at USD 140 per mt respectively. Average North American standard ingot premiums decreased USD 24 per mt compared to 2018, while corresponding standard ingot premiums in Europe decreased about USD 22 per mt.

Global primary aluminium consumption decreased by 1.1 percent to 64.4 million mt in 2019. Global supply decreased by 0.5 percent to 63.4 million mt resulting in global deficit of around 0.9 million mt. For 2020, global primary aluminium demand is expected to increase by 0-1 percent and aluminium production is expected to increase by 3-4 percent, resulting in a global surplus in 2020.

Demand for primary aluminium outside China decreased by around 3.3 percent in 2019, while corresponding production increased by 1.1 percent. Overall, demand outside China exceeded production by around 0.5 million mt in 2019. Demand for primary aluminium outside China is expected to change by around negative 1 to positive 1 percent in 2020. Corresponding production is expected to be up about 1 percent, leaving the world outside China in largely balanced for 2020.

Demand for primary metal in China increased around 0.6 percent to 36 million mt in 2019. Chinese production declined by 1.8 percent in 2019, resulting in a small deficit for the year. The historically low Chinese production growth was a result of further closures following supply-side reform and larger smelter disruptions. Chinese primary production is expected to increase by 4-6 percent in 2020. Primary demand is estimated to increase by around 1-3 percent, resulting in a surplus in 2020.

LME stocks increased slightly in 2019, from 1.3 million mt at the end of 2018 to 1.5 million mt at the end of 2019. The increase occurred mainly in the fourth quarter, driven by backwardation attracting metal to LME warehouses. Total inventories, including unreported inventories are estimated to have declined by 0.9 million mt in 2019. The total stock level is estimated to be around 11.2 million mt at the end of 2019.

Demand for extrusion ingot and foundry alloys in Europe decreased in 2019 compared to the previous year. The consumption of sheet ingot and wire rod in the European market remained stable in 2019 compared to 2018. US extrusion ingot consumption declined during the second half of the year while primary foundry usage remained relatively stable. In Asia, a faster-than-expected slowdown in China, growing trade tensions and rising geopolitical risks lead to moderate regional growth. The extrusion ingot market was mostly stagnant, while the downturn in automotive markets

across the region lead to a year-on-year contraction in the foundry alloy market.

### Downstream market developments

European demand for flat rolled products was stable in 2019. Lower car production and weaker demand in general engineering were balanced by positive growth rates from beverage can, driven by ongoing steel line conversions and the substitution of PET bottles. The market for aluminium foil was soft and impacted by increased imports. European demand is expected to grow by 1 percent in 2020.

European demand for extrusions weakened towards the end of 2019, with overall demand estimated to have decreased close to 4 percent compared to 2018. Demand was impacted by overall weaker industrial production in several European countries, as well as declining automotive production. North American demand for extrusions also weakened towards the end of the year, the decrease is estimated to be 5 percent for the full year. The key drivers for the weaker demand were decelerating activity in the truck and trailer segment, as well as overall softer demand in building and construction.

In recent years the European market has seen increasing levels of Chinese imports at low prices. Unlike the US and several other countries, no anti-dumping policies against Chinese extrusion imports are currently in place. However, in February 2020 the EU launched formal anti-dumping proceedings on extrusion imports from China.

#### **Energy market developments**

Nordic electricity prices declined somewhat in 2019 from a relatively high price level in 2018, primarily due to improved hydrology and lower power consumption, particularly during the first six months of the year. The Nordic price decline was also impacted by falling production costs for coal and gas fired power plants which in turn affected power prices in Continental Europe. Even though the hydrological balance improved in 2019 it remained, on average, below normal for the year.

In Brazil, the seasonal oversupply in the north during the wet season caused relatively low prices in the first half of 2019. The hydrological balance remained well below normal throughout 2019. At the end of the wet season, prices in the North region aligned with the South-East region at a higher level, which largely continued towards the end of the year.

### Risk review

Hydro has an enterprise risk management (ERM) model, approved by the Board of Directors. In accordance with this model, risk factors that are relevant for Hydro's business are continuously identified, analyzed, addressed and monitored. Risk management is an integral part of our business activities where strategic and incident risks are managed at Group and Business Area levels respectively.

Hydro's corporate staffs establish and develop policies and procedures for managing risk and coordinate an annual overall enterprise risk assessment. Major risks are analyzed and managed according to Hydro's risk appetite, through the annual strategy process. Mitigating actions are followed

up, on an ongoing basis, as part of our internal performance review structure. In order to improve risk management, including ensuring mitigating actions correspond with appetite, Hydro's ERM process is currently being revised. The main process improvements include more granularity in risk descriptions and evaluations, and a more distinct differentiation between strategic and incident risks.

Risk management in Hydro is based on the principle that risk evaluation and mitigation is an integral part of all business activities. The core strategy to reduce the risks related to weak economic and unfavorable market developments is the continual improvement of our competitive position, differentiated capital allocation, as well as maintaining a solid financial position and strong creditworthiness.

Below is a description of some of the principle risks identified that may affect business operations, reputation, financial condition, results of operations and, ultimately share price. Some of the mentioned risks might have a positive business impact or represent a business opportunity, whereas the focus in the description below is on downside risk. Whilst this report is accurate at its time of generation, readers are reminded that risks will emerge, increase, decrease or change with time and events. All information in this report should be carefully considered by investors, in particular, the risks described in this section.

### Changes in the regulatory framework or political environment in which Hydro operates could have a material effect on the company

Hydro needs competitive and predictable framework conditions. Hydro is subject to a broad range of laws and regulations in the legal jurisdictions in which we operate. These laws and regulations impose stringent standards and requirements and potential liabilities. Some examples include accidents and injuries, the construction and operation of our plants and facilities, taxes and tariffs, air and water pollutant emissions, the storage, treatment and discharge of waste waters, the use and handling of hazardous or toxic materials, waste disposal practices, and the remediation of environmental contamination, among other things. Changes in such laws and regulations, or changes in the way these laws and regulations are interpreted or enforced, may impact Hydro's operations.

### Hydro is exposed to macroeconomic developments, including price and currency risk, demand/supply balances, and changes in global trade policy framework

The aluminium industry is pro-cyclical with demand for products closely linked to economic development. This results in volatility in the market prices for aluminium products in periods of macroeconomic uncertainty or recession. Specific incidents with a macroeconomic impact such as the US-Iran conflict or a major epidemic outbreak could also have an impact on Hydro. Macroeconomic development and political instability also drive changes in currency rates, which have a significant effect on Hydro's cost and competitive position. A large share of Hydro's operations has production cost in local currencies, in countries such as Norway, Germany, Brazil, Canada and Australia. If these currencies appreciate against the USD, this will increase cost and may weaken Hydro's global competitive position relative to production from other regions. Aluminium products are traded globally, and

therefore affected by the development in global trade flows, trade frameworks, tariffs and anti-dumping legislation.

After the outbreak of the coronavirus (COVID-19), authorities in an increasing number of countries have taken strong measures to reduce the spread of the virus. This is likely to reduce the global economic activities for a certain period of time, which again will affect the demand for aluminium in such period. Further, due to disruptions in the supply chain, our suppliers, Hydro and Hydro's customers may be inhibited from receiving raw materials, which again may disrupt Hydro's production or sale of products. Except for the macro-economic effects, the situation has currently had limited effect on Hydro's operations, but if the situation continues or escalates, it may have a significant effect on Hydro's financial results. Hydro is monitoring the situation carefully, and is continuously working to find mitigating solutions if the situation continues or escalates.

### Hydro is exposed to competition from China, which could have an impact on market prices and demand for our products

China is the world's largest consumer and producer of aluminium, with more than half of the global production capacity. As a result, changes and developments in aluminium supply and demand in China have a significant impact on global market fundamentals.

### Hydro could be affected by material CSR incidents, investigations, legal proceedings, or major non-compliance with laws and regulations

Hydro could be negatively affected by criminal or civil proceedings or investigations related to, but not limited to product liability, environment, health and safety, alleged anti-competitive or corrupt practices or commercial disputes. In addition, Hydro is exposed to allegations or perceived failures to behave in a socially responsible manner and to manage social impacts, particularly related to human rights breaches. Infringement of applicable laws and regulations could result in fines or penalties, costs of corrective work, the suspension or shutdown of our operations and damage to the company's reputation.

### Hydro could be affected by operational disruptions or other major incidents and may not be able to maintain sufficient insurance to cover all risks related to its operations

Hydro is exposed to a number of risks and hazards which could result in disruptions to operations. Breakdown of critical equipment, power failures or other events leading to production interruptions in key plants could have a material adverse effect on our financial results and cash flows. Some operations are located in close proximity to sizable communities, and major accidents could result in substantial claims, fines or significant damage to Hydro's profitability, and or reputation.

### Hydro is exposed to supply chain concentration risk and may experience disruption in supply of alumina, anodes or certain alloy materials

Hydro is exposed to risks related to supply chain concentration. This includes parts of the supply chain with one or a limited number of suppliers, or where multiple suppliers are concentrated in the same area and where there is a risk of simultaneous supply interruptions. Such interruptions could be a result of changes in regulatory

framework, operational disruption, major public health issues etc. Hydro's assets within Bauxite & Alumina are concentrated in Brazil and include the Paragominas bauxite mine, Alunorte alumina refinery and the 244km bauxite slurry pipeline connecting the two. As Hydro receives almost all of its alumina from Alunorte, these assets are critical for the supply of alumina to the rest of the Hydro Group, both in Brazil and Europe, and Hydro is reliant on their ability to maintain stable operations. Hydro's exposure to supply chain concentration risk also includes risks related to the supply of anodes and certain alloy materials from China.

### Hydro may fail to realize sufficient value in the execution and implementation of major projects or business acquisitions

Hydro makes significant capital investments and acquisitions as part of its business development and may not be able to realize the benefits expected from such transactions and projects. Major projects and acquisitions are subject to significant risk, and uncertainty in making the investment evaluation, project execution and subsequent operations. Acquisitions may also contain significant unidentified risks and liabilities.

### Hydro is exposed to the threat of cyber-attacks which may disrupt its business operations, and result in reputational harm and other negative consequences

Hydro's IS/IT infrastructure is a critical element in all parts of our operations, ranging from process control systems at production sites to central personnel databases and systems for external financial reporting. Cyber-crime is increasing globally, and Hydro is exposed to threats to the integrity, availability and confidentiality of systems. Threats may include attempts to access information, ransomware attacks, destructive installation of viruses, denial of service and other digital security breaches.

### Hydro may be unable to achieve or maintain the operational targets necessary to secure the competitiveness of our business

Hydro operates in a highly competitive market where operational excellence in all parts of the value chain is required to reach and maintain a competitive position. This includes each step of the business process from the sourcing of raw materials, to physical operations of each plant, and the commercial optimization of the product portfolio. Disruptive technological development by competitors could threaten Hydro's competitiveness. Failure to create an environment and competence which enables the organization to continuously achieve increased operational targets will reduce the competitiveness of our business.

#### Occupational health and safety, and security risks

Hydro is exposed to occupational health, safety and security risks at sites and whilst on travel. Due to its global operations, Hydro is exposed to major public health issues, such as outbreaks of pandemics or epidemics. These risks have the potential to impact Hydro's employees and contractors, operations of assets, and in specific incidences local communities and reputation. Hydro is monitoring the development of the Coronavirus disease (COVID-19) and assessing current and potential impact on employees and operations. Initial mitigating actions have been implemented and further mitigating actions are evaluated on a continuous hasis

#### Climate change and environmental risks

Hydro is exposed to physical climate related risks, risks related to the transition to a low-carbon economy and other environmental risks mainly related to our operations in Brazil. Climate-driven changes in consumer behavior, such as substitution of aluminium by other materials is also a risk to Hydro. In addition to environmental incidents, there are risks related to the effects of known and unknown historical and current emissions to air, water and soil.

#### **Financial position**

Hydro's main strategy for mitigating risk related to volatility in cash flow is to maintain a strong balance sheet and an investment grade credit rating. The targeted key financial ratio levels over the business cycle are described in note 7.1 to the financial statements.

#### **Key financial exposures**

Hydro's operating results are primarily affected by price developments of our main products, raw materials, margin developments and to fluctuations in the most significant currencies for Hydro, which are the USD, NOK, EUR and BRL.

To mitigate the impact of exchange rate fluctuations, longterm debt is mainly maintained in currencies reflecting underlying exposures and cash generation. Hydro may also use foreign currency swaps and forward currency contracts to reduce effects of fluctuations in the US dollar and other exchange rates.

The table below shows sensitivities regarding aluminium prices and foreign currency fluctuations for 2019. The table illustrates the sensitivity of earnings, before tax, interest and depreciation (EBITDA) to changes in these factors and is provided to supplement the sensitivity analysis required by IFRS, included in note 8.2 to the financial statements. These sensitivities do not consider revaluation effects of derivative instruments, which may influence earnings.

Sensitivities with 100% production

#### Commodity price sensitivity +10%

NOK Million			UEBIT
Hydro Group			
Aluminium			3,660
Currency sensitivities +10%			
NOK Million	USD	BRL	EUR
Sustainable effect			
EBIT	3,280	(1,100)	(220)
One-off reevaluation effect			
Financial items	(60)	830	(3,570)

Annual sensitivities based on normal annual production volumes, LME USD 1 750 per mt, USDNOK 9.07, BRLNOK 2.21, EURNOK 10.09.

# Compliance, controls and procedures

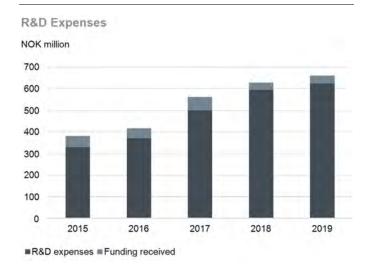
Hydro's Code of Conduct requires adherence with laws and regulations as well as internal directives and procedures. It is systematically implemented and followed up through our compliance system. The compliance system is based on four pillars: prevention, detection, reporting and responding. In addition to financial compliance, priority areas are health, safety and environment (HSE), anti-corruption, competition law and data privacy (see the section Society).

Hydro follows the Norwegian Code of Practice on Corporate Governance of October 2018. Details on Hydro's compliance with the code are in the section Norwegian Code of Practice on Corporate Governance, in the appendices to this report.

The Board Audit Committee carries out a control function and assists the board in exercising its oversight responsibility with the company's financial reporting and the requirements that extends beyond the financial reporting, covering environmental, social and governance issues.

### Research and development

The greater part of our R&D expenses goes to our in-house research and application development organization, while the remainder supports work carried out at external institutions. Our main R&D centers are in Årdal (smelter technology) and Sunndal (alloys and casting) in Norway, Bonn in Germany (Rolled Products), and Finspång in Sweden and Detroit in the USA (both Extruded Solutions). A significant research and development department for Bauxite & Alumina has been built up in Alunorte in Barcarena, Brazil.



Our R&D efforts are concentrated on:

- Making products and solutions that promote the use of aluminium and sustainable development
- Implementing technology elements in order to optimise productivity, energy efficiency and emissions in smelters

- Using R&D and technology to ensure optimal operations in existing assets, including cost and HSE
- Improving environmental impact in Bauxite & Alumina, such as biodiversity, rehabilitation and utilization of bauxite residue
- Developing recycling technology
- Increasing the share of value-added products and tailored solutions in collaboration with the customer
- Utilizing the opportunities of Industry 4.0 to improve process stability, productivity, cost and safety









and technology priorities and strategies.

Hydro's Technology Board consists of the members of Hydro's Corporate Management Board. The technology and innovation group meet every quarter to understand and discuss innovations in the business areas, including their value to the company. Innovations include the changes achieved through our continuous improvement work on all organizational levels. Business areas are responsible for their own technology development and for the execution of their respective technology strategies. A corporate technology office is established to ensure a holistic and long-term approach to Hydro's technology strategy and agenda. The Chief Technology Officer leads an internal R&D network with representatives from the business areas, and supports the Hydro Technology Board in developing overall research

A major advantage for Hydro from an innovation perspective is our broad knowledge and control of the entire value chain from bauxite mining, alumina refining, electrolysis of primary aluminium and alloy technology to finished products and recycling.

We are now in the process of implementing the technology elements from the Karmøy Technology Pilot in our existing primary aluminium producers, improving performance and financial robustness. This includes the Husnes line B, planned to start production in 2020, and as a part of the regular maintenance and relining of our electrolysis cells in all smelters, where Sunndal presently has a strong focus due to its importance in the smelter portfolio. Hydro has also started working on several initiatives to reduce direct  $\mathrm{CO}_2$  emission in primary aluminium production.

Bauxite residue is a challenge in our industry due to its alkalinity and large volumes. Hydro participates in international collaboration projects investigating possibilities to use bauxite residue as a resource. An important example is together with the Norwegian University of Technology and Science (NTNU), Sintef, Norcem/Heidelberg and Veidekke to develop a new type of concrete using bauxite residue as a resource to improve quality. We are also working together with other aluminium companies through the International Aluminium Institute to solve this industry challenge. In addition, we are investing in R&D to reduce the total alkalinity of the bauxite residue.

An important part of Hydro's overall technology strategy is that our researchers cooperate closely with operators and experts in optimizing operations in existing plants. The competence base in Hydro's technology environments is on a very high level and in core areas it is world-class.

The growing use of aluminium in the automotive industry is being driven by emissions regulations and passenger safety requirements. Aluminium is well suited for all cars, from petrol-powered automobiles to fully electric vehicles and vehicles which use hydrogen fuel cell technology. This is creating new opportunities for Hydro. Hydro is a large supplier to the automotive industry. Customers include major producers in Europe, North America and Asia.

### Society

As a global aluminium company with mining interests, ensuring responsible conduct in relation to society at large is important throughout Hydro's activities. We have to consider our impact on society, spanning from construction to divestment and closure activity, as well as the exposure to corruption and human rights violations, both within our own operations, the communities we are part of, and in the supply chain.

Our compliance system shall ensure that all persons acting on behalf of Hydro comply with applicable laws and regulations and with the requirements adopted by Hydro. Some of the measures we pursue to ensure integrity and responsible behavior include:

- Zero tolerance of corruption in the private and public sector
- Ongoing human rights due diligence, including audits of joint ventures and suppliers
- Continuous stakeholder engagement linked to existing operations and new projects









Hydro's board-sanctioned Code of Conduct creates the foundation that supports our efforts to do the right things and to always act with integrity throughout our global organization wherever we operate and conduct business on behalf of Hydro. It requires adherence with laws and regulations as well as internal constituting documents and global directives and is systematically implemented and followed up through our compliance system.

Our compliance system is based on a clear governance structure defining roles and responsibilities with regards to compliance and all compliance-related activities undertaken throughout the company.

The management of compliance risks, including risks related to corruption and human rights violations, are integrated in our business planning, enterprise risk management and follow-up process, including relevant risk-mitigating actions and key performance indicators. The progress of actions as well as any non-compliance matters is addressed in the quarterly performance review meetings that each business

area has with the CEO, and an annual compliance report is submitted to the Board of Directors. The head of Group compliance reports to the Board of Directors through the Board Audit Committee at her own discretion. She meets with the Board of Directors periodically and participates in all Board Audit Committee meetings.

The Head of internal audit reports to the company's Board of Directors through the Board Audit Committee. Every quarter she informs the board audit committee and periodically the Corporate Management Board about matters reported through the AlertLine. Hydro's internal audit has resources both in Norway, Brazil and North-America.

We are committed to building a culture of trust where employees are comfortable to ask questions, seek guidance, raise concerns, and report suspected violations. Normally, concerns and complaints should be raised with the employee's superior. However, if the employee is uncomfortable with that, he or she may raise the issue with Human Resources, HSE, a union/safety representative, Compliance, Legal or Internal Audit. The employee can also use Hydro's whistle-blower channel, AlertLine, where concerns can be reported anonymously. All employees and on-site contractors can use the AlertLine in their own language at all times via tollfree phone numbers, Hydro's intranet or through a dedicated address on the Internet. In certain countries, e.g. Spain, there are legal restrictions on such reporting lines. In 2019, 347 reports were filed through Hydro's AlertLine compared to 342 in 2018. All cases were investigated. In total 20 persons were dismissed as a result of breaches of Hydro policy in 2019. The number is limited to cases reported to Hydro's Internal Audit. This includes two persons related to two cases of substantiated corruption.

Grievance, or complaint, mechanisms are important to understand the impact of Hydro's operations, and the impact on the rights of individuals and groups affected by our operations. Grievances may be of any kind, including social and environmental issues, and can be made anonymously. In situations where we identify adverse human rights impact, we work to mitigate, prevent, address and remedy these as recommended in the UN Guiding Principles on Business and Human Rights. Channels for submitting grievances vary depending on local needs and stakeholder groups. In Brazil, the system has several channels, including a phone number, email and dedicated, specially trained field workers.

Hydro will not tolerate retaliation against anyone who speaks up in good faith to ask a question, raises a concern, reports a suspected violation or participates in an internal company investigation.

We are committed to respecting and promoting the human rights of all individuals potentially affected directly or indirectly by our operations. As an employer, owner and purchaser, an important contribution toward respecting human rights is to secure decent working conditions in our organization, in minority-owned companies and with our suppliers.

Hydro supports key frameworks that define human rights principles and is committed to follow these, including the UN Guiding Principles on Business and Human Rights. Hydro's human rights management is based on the OECD Due Diligence Guidance for Responsible Business Conduct.

We do not tolerate any form of harassment or discrimination, including but not limited to gender, race, color, religion, political views, union affiliation, ethnic background, disability, sexual orientation or marital status, any form of forced labor or child labor abuse.

Hydro is concerned about fundamental labor rights, such as minimum wage requirements and the regulation of working hours, and we support the principle of freedom of association and collective bargaining. We have a long tradition of maintaining a good dialogue with employee organizations. All major sites in Europe and Brazil are unionized. Extruded Solutions has a major presence in the US, and about 60 percent of our US employees are working at unionized sites. All business areas have a forum for dialogue between the management and union representatives. Hydro's Global Framework Agreement was last updated in 2016. The parties are currently negotiating a new agreement.

We recognize that our activities impact the societies in which we operate, and we have a long tradition of conducting dialogues with the relevant parties affected by our activities. These include unions, works councils, customers, suppliers, business partners, local communities, local authorities and non-governmental organizations. Hydro has significant operations in Barcarena, Brazil, including the Alunorte alumina refinery and Albras aluminium plant. Local social conditions are challenging with high levels of unemployment and general poverty. We have established contact with local authorities and representatives for our neighbors, including dialogue with traditional Quilombola groups in Brazil.

The Brazilian consultancy Proactiva is currently conducting a thorough human rights due diligence of operations in Pará state, Brazil. The due diligence covers Alunorte alumina refinery, Albras primary aluminium producer and the Paragominas bauxite mine, including the pipeline. The due diligence was high on the agenda of the Corporate Management Board in 2019, and part of their key performance indicators (KPIs). The final results are expected in the first half of 2020.

Unresolved issues remain related to identifying individuals directly impacted by the construction of a 244-km-long bauxite pipeline that crosses areas inhabited by traditional Quilombola groups in the Jambuaçu Territory in Pará state, Brazil. Hydro is working together with different stakeholders, including, but not limited to, Fundação Cultural Palmares, Quilombola communities, and the State of Pará, to establish an agreement that seeks to remedy impacts.

Hydro's social responsibility ambition is to make a positive difference by strengthening our business partners and the local communities where we operate. To do this, we target the fundamental drivers of long-term development. In line with stakeholder expectations and needs, and through strong partnerships, we aim to:

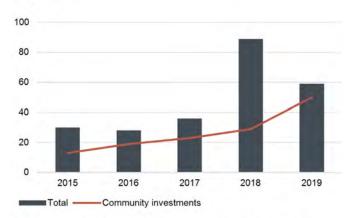
- Contribute to quality education in our communities
- Promote decent work throughout the value and supply chain
- Foster economic growth in our communities
- Strengthen local communities and institutions through capacity building on human rights and good governance

We have committed to contribute to quality education and capacity building for 500,000 people in our communities and for business partners from 2018 until end of 2030. In 2019, we reached over 26,000 people. Continuous improvement of current initiatives and development of new effective, high-impact initiatives will be important going forward.

Some of our community programs are linked to mining license requirements, while others are voluntary commitments. The programs target education, economic growth, decent work, capacity building and strengthening of institutions.

#### Community investments, charitable donations and sponsorships

#### **NOK** million



In 2018, around 45 million NOK relates to emergency relief and TAC-agreement following the extreme rainfall and subsequent flooding of Barcarena. Extruded Solutions has a wide range of sponsorships and support programs based on local needs. These activities are not yet included in Hydro's reporting.

In Pará state, Brazil, Hydro currently has more than 10 social programs across the seven municipalities where we have operations. For each of these projects, we have an implementation partner. The implementation partners met several times in 2019 to share knowledge and identify synergies to strengthen our partners and contribute towards the common goal of local development.

We initiated the Sustainable Barcarena Initiative in 2018 and have continued developing it in 2019. The initiative is an independent platform for sustainable development in Barcarena in Pará state. The overall aim is to bring local stakeholders together to discuss challenges and opportunities, strengthen capabilities and ultimately invest in the social initiatives they plan and develop together. In 2019, we established the Hydro Sustainability Fund which serves as a financing mechanism for the Sustainable Barcarena Initiative. The first round of financing is currently underway. Hydro contributes with BRL 100 million to the fund over a 10-year period. The fund will also seek funding from other sources. In 2020, we will continue supporting the development of the Sustainable Barcarena Initiative.

In Pará state we also engage with regional initiatives to preserve the Amazon. We run several programs that emphasize entrepreneurship and strengthening of traditional livelihoods. This also includes environmental efforts and collaborations such as the Biodiversity Research Consortium Brazil-Norway.

Hydro's supplier and business partner requirements regarding social and environmental responsibility are, as stated in our global directives and procedures, an integral part of all stages of the procurement process. The requirements demand the suppliers and business partners to comply with all applicable laws and regulations relating to corruption and bribery, human rights, working conditions and environment and that they reflect the values and principles that Hydro promotes internally and externally.

To prepare for and respond to intentional, unintentional and/or naturally caused disasters, and to protect people and critical assets, we adapt and initiate security measures depending on the evolving risk picture.

Hydro has been included in the Dow Jones Sustainability Indices each year since the index series started in 1999. We are also listed on the corresponding UK index FTSE4Good, and the UN Global Compact 100 stock index.

Hydro support the principles underlying the Universal Declaration of Human Rights, the UN Global Compact and ILO's eight core conventions. We are a member of the International Council on Mining and Metals (ICMM) and are committed to follow their principles and position statements. Hydro has a long-standing partnership with Amnesty International Norway since 2002, and a cooperation agreement with the Danish Institute for Human Rights. We are also a founding member of the Aluminium Stewardship Initiative, a multi-stakeholder process to set standards to improve environmental, social and governance performance across the aluminium value chain. Forty of Hydro's aluminium sites worldwide have achieved certification according to the ASI, covering Hydro's value chain from bauxite mining to finished products.

Hydro uses the GRI Standards for voluntary reporting of sustainable development. We support the Extractive Industries Transparency Initiative (EITI) and comply with the Norwegian legal requirements on country-by-country reporting, and we prepare a modern slavery transparency statement according to UK and Australian legislation, see the appendices to this report.

In addition, we follow the Euronext guidelines to issuers for ESG reporting.

### Environment

The most important environmental effects of Hydro's activities relate to climate change, biodiversity, recycling and water and waste management. The main resource inputs are bauxite, energy, water and land use.

13 CLIMAT



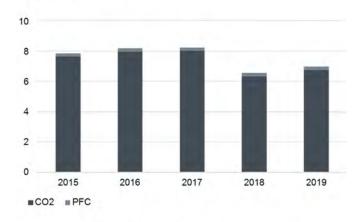
Hydro launched a new climate strategy towards 2030 in 2019, as our carbon neutral strategy is coming to an end in 2020. Hydro's overarching ambition towards 2030 is to reduce the global climate impact of our value

chain through greener sourcing, greener production and

greener products. We aim to reduce our own emissions by 30 percent in 2030 and explore different paths towards further significant emissions reductions and  $CO_2$ -free processes by 2050. Through greener sourcing and greener production, we also aim to help our customers in reducing their emissions through providing greener products.

Direct greenhouse gas emissions from Hydro's consolidated activites

Million mt CO2e



Emissions in 2018 decreased due to the embargo at Alunorte, and curtailment at Albras and Paragominas. This is partly reversed in 2019 due to the lifting of the embargo and ramp-up of production.

Our new strategy puts more emphasis on reducing own emissions. Changes in our production portfolio might influence these targets, but our aim is still to reduce our specific emissions. We have set targets to reduce greenhouse gas emissions by 10 percent by 2025 and 30 percent by 2030, based on a 2018 baseline (2017 for Paragominas, Alunorte and Albras due to the production embargo at Alunorte and curtailment at Albras and Paragominas). The baseline emissions equal 13.3 million tonnes  $CO_2$  equivalents (CO2e) and includes direct emissions and indirect emissions from electricity generation (scope 1 and scope 2 emissions).

The timing is dependent on implementation of specific projects and the reduction is thus not anticipated to be linear from year to year. In order to have a greener production, we are looking into projects for significant emission reduction at Alunorte through a greener energy mix. We are also looking into improvement potentials throughout our organization.

The element "greener sourcing" in the new climate strategy refers to Hydro's position as a purchaser of raw materials and energy. Hydro has the opportunity to source less carbonintensive electricity and cold metal with a lower carbon footprint. We also have the opportunity to increase the use of post-consumer scrap in metal production.

Innovation and technology development are key enablers towards reducing  $CO_2$  emissions. We have initiated a significant R&D program towards 2030 to look into different alternatives to achieve  $CO_2$ -free processes. We will explore different paths such as carbon capture and storage, biomass anodes and carbon-free processes. By 2030 we expect to have a clearer view on a path to further significant emission reductions by 2050.

In 2018, Hydro concluded a review of its climate-related risks, including physical, technological, commercial, legal and reputational risk. The review forms the basis for scenario analyses and the updated climate strategy.

Since 2013. Hydro's ambition has been to be carbon neutral in a life cycle perspective. Carbon neutrality can be defined in many ways, and we define it as a balance between the direct and indirect emissions from our own operations, and the savings of applying our metal in the use phase. Hydro became carbon neutral in a life cycle perspective in 2019.

The goal of our new 2030 environmental strategy is to minimize our impact along the aluminum value chain by addressing the industry's key environmental challenges. We aim to do so by driving rehabilitation at our bauxite mine, developing and implementing sustainable management solutions for our tailings and bauxite residue streams whilst reducing our waste to landfill from our downstream operations and significantly reducing our non-GHG emissions to air.



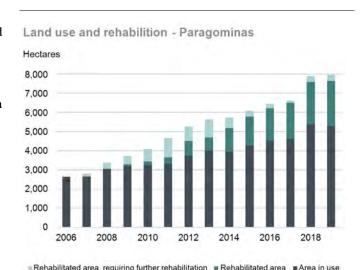
Hydro's bauxite mine, Paragominas, is located in the state of Pará in Northern-Brazil, in the Amazon Basin. The rehabilitation target in our mining areas provides a driver for rehabilitation. It is a rolling target, aiming for

a 1:1 rehabilitation of mined areas available for rehabilitation over two hydrological seasons after release. This definition takes into account the nature of the mining and rehabilitation cycles, and the time lag necessary to ensure quality rehabilitation to restore biodiversity. It also takes into account that land periodically needs to be set aside for temporary infrastructure, e.g. roads, in order to safely operate the mine.

We cooperate with academic institutions to increase our knowledge and secure a science-based approach. This includes the formation of the Biodiversity Research Consortium Brazil-Norway (BRC) in 2013.

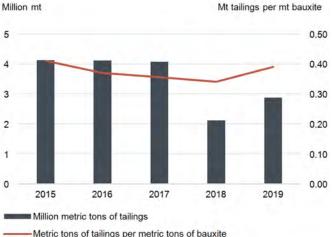
In addition to land use and biodiversity, the main environmental issues in bauxite extraction and alumina refining include waste disposal and greenhouse gas emissions. Waste production includes significant amounts of mineral rejects (tailings) from the bauxite extraction process and bauxite residue, from the alumina refining process. Tailings are stored in settling ponds. Separated water is clarified and reused in the process.

In Paragominas, a new tailings system was completed in 2017. The new tailings dams are situated on a plateau where mining has been finalized. The old tailings system is constructed in a shallow valley. When tailings dams are closed, they need to settle for at least five years before being available for rehabilitation. A tailor-made approach will be needed to rehabilitate the closed tailing dams as they differ in nature from the mined areas.





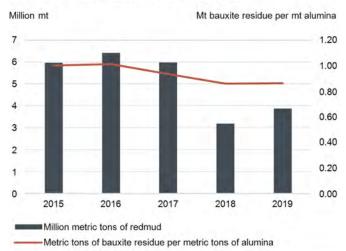
### Tailings from bauxite production



Metric tons of tailings per metric tons of bauxite

Tailings production decreased significantly in 2018 due to the Paragominas curtailment. This is partly reversed in 2019 due to the lifting of the embargo and ramp-up of production.

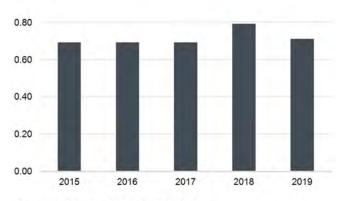
#### Bauxite residue from alumina production



Bauxite residue production decreased significantly in 2018 due to the Alunorte embargo. This is partly reversed in 2019 due to the lifting of the embargo and ramp-up of production.

#### GHG emission intensity - alumina refining

Mt CO2e per mt aluminium

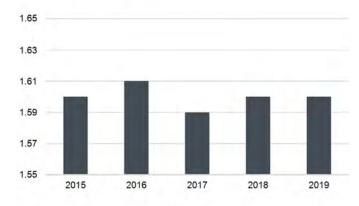


■ Alumina refining (mt CO2e per mt alumina)

Includes greenhouse gas (GHG) emissions from alumina refining.

#### GHG emission intensity - electrolysis

Mt CO2e per mt aluminium



■Electrolysis in Primary Metal (mt CO2e per mt aluminium)

Greenhouse gas (GHG) emissions from the electrolysis process from Hydro's smelters, excluding Neuss in Germany. Albras is excluded from the 2019 average due to extraordinary emissions during start-up of curtailed capacity. The emission intenisty at Albras was 1.89 in 2019

Bauxite residue is a waste product of the alumina refining process. Its disposal is challenging due to large volumes and the alkaline nature of the liquid component of the residue. The residue is washed with water to lower the alkalinity and to recover caustic soda for reuse. Hydro uses an enhanced dry stacking technology for disposing of bauxite residue which allows for residue storage at steeper slopes, reducing the disposal area requirements. This reduces the relative environmental footprint. The new bauxite residue deposit area at Alunorte includes more advanced press filters. These are capable of reducing the residue moisture content to 22 percent, down from 36 percent achieved with the previous drum filter technology.

The dams and deposits are regularly inspected by Hydro and the Brazilian authorities. They have also been reviewed against international standards by external international geomechanical consultants NGI and Geomecanica. The last site visit by NGI and Geomecanica took place in 2016. The

resulting actions points were prioritized and are currently in the process of being closed. The majority have been closed successfully, with a smaller number still outstanding.

The Tailings Storage Facilities at Paragominas are raised exclusively using the downstream elevation method, with the exception of one relatively short and low centreline raising at the very top of the dam. The downstream elevation method provides the greatest level of structural integrity and safety. In addition, the tailings stored in our Tailings Storage Facilities are of a higher solids content (ca 55-60 percent solids content) than that generally found in the iron ore industry (e.g. Samarco and Brumadinho).

Hydro's Tailings Storage Facilities and bauxite residue storage areas are operated in line with all relevant regulations, however following the extreme rain event in February 2018, the free board levels at DRS1 were exceeded for few days leading to a production embargo at Alunorte. We also follow voluntary best practice and audits are conducted by international third parties. Following the Brumadinho tragedy in January 2019, Hydro reviewed its Tailings Storage Facilities to ensure continued safe operations and management. Hydro continues to work on improving its tailings management practices and collaborate with relevant stakeholders. Hydro participated in the Tailings Storage Facilities disclosure request initiated by investors and co-chaired by the Church of England pension board in the first half of 2019. Hydro is also participating in the drafting of a new International Standard for Tailings Storage Facilities through our membership in ICMM, which is one of the three co-conveners of the International Standard alongside UN Environment Program (UNEP) and PRI, an investor initiative in partnership with UNEP Finance Initiative and UN Global Compact.

Alunorte will perform a socioeconomic study on possible impacts of the new bauxite residue storage area. If the study indicates a need for compensatory measures, such measures shall aim to contribute to sustainable and long-term improvements in potentially affected communities. Moreover, Alunorte is committed to involve Ministerio Publico Federal in the potential necessary updates of the environmental license.

Spent potlining (SPL) from electrolytic cells used in primary aluminium production is defined as hazardous waste. We are actively trying to find alternative use of SPL from our operations. We aim to recycle 65 percent of our spent pot lining (SPL) by 2030, and find more sustainable solutions for our waste streams, identifying were they can be utilized as a resource.





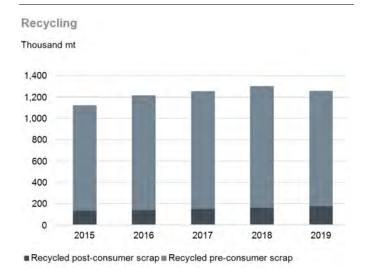
Hydro uses the WRI Aqueduct water tool to perform an annual review of water withdrawal from water-stressed areas. The mapping of Hydro's sites in 2019 showed that 2 percent of our overall fresh-water input came from water-stressed areas, with regard to annual renewable water supply (according to the definition used by WRI). Qatalum in Qatar relies on public water supply produced by desalination.

Seawater is used for wet cooling towers at the power plant as well as for wet scrubbers at the potline fume treatment plants.

In 2017, Hydro developed a basic water risk analysis tool, covering water use and discharge, to be applied across key operations. Preliminary findings supported the results of the WRI Aqueduct tool - operating in water-stressed areas is not a material risk for Hydro's key operations. Instead, the more material risks are linked to the management of excess water and the quality of the external bodies into which Hydro discharges process water. As a first step towards implementing risk-based water management targets and increased local stakeholder engagement, Hydro is strengthening current water reporting and management practices. We aim to have implemented industry best practice water reporting by 2021.

Following a mass balance of mercury at Alunorte in Brazil, which was concluded in 2017, Hydro decided to install four mercury condensers on the digestor lines. The first condenser was installed in 2018, as a pilot, and its technical performance is being monitored prior to the installation of the remaining units. The initial timeline was to install the remaining units in 2020, but this has been rescheduled to allow for further performance optimization of the technology.

Engagement with customers and other stakeholders on the environmental impact of our processes and products is an important element of our product stewardship. We perform life-cycle assessments for all major product groups to identify improvement potential. We also assess other aspects such as energy and material consumption, toxicity and recyclability.



### People

Hydro shall be a leading company in our industry in the area of occupational health and safety. Our ambition is to strive for an injury free environment. This will be achieved through the consistent implementation of the management system; committed and visible leadership, and full engagement of all employees.

The number of total recordable injuries and associated rates improved in 2019 over 2018 levels to a total recordable injury rate of 3.0. There were no serious or life-threatening injuries during the year in our consolidated plants, however there were four high-risk injuries that had the potential to be fatal. There was one fatality at Qatalum in 2019, a 50/50 joint venture primary aluminium smelter managed by Qatalum. A sub contracted security guard tragically lost his life when a 1.5 ton guard porta cabin he was in was blown into the sea during a violent storm.

Nearly half of the reported injuries in 2019 were related to hands, about 20 percent legs, about 10 percent related to the face, eyes and head and 10 percent arms and shoulders.



We continue to see high-risk incidents with a potential for fatality or permanent injuries or ill health, but at a lower level than previous years. We consider this the main leading indicator for our safety performance. From 2020, our

Existing health and wellbeing programs are being expanded including physical and psychosocial risk assessments. The Hydro Monitor will be further developed to provide feedback to our HSE initiatives.

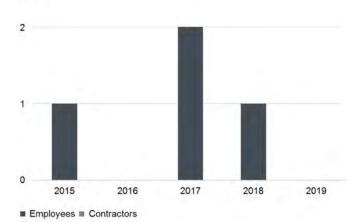
emphasis will be the closing rate of actions related to high-

risk incidents in our operations in 30 days.

The occupational illness rate in 2019 was 0.2 cases per million hours worked, compared to 0.5 in 2018, excluding Extruded Solutions. Most of the cases related to occupational illness relates to noise. Extruded Solutions records occupational illness as part of the total recordable injuries. There were no occupational illness cases in Extruded Solutions in 2019.

Sick leave in Hydro's global organization was 3.7 percent in 2019, compared to 3.6 percent in 2018. In Norway, sick leave was 4.5 percent in 2019 compared to 4.0 percent in 2018. Women in Norway had a sick leave of 5.7 percent, while men had 4.2 percent.

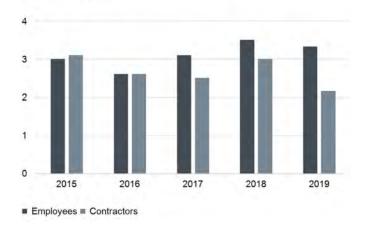
### Fatal accidents



In 2019, there was one fatality in Qatar in the 50/50 JV managed by Qatalum

#### Total recordable injuries

#### Per million hours worked



Hydro had 36,310 permanent employees at the end of 2019, an increase from 36,236 in 2018. The number of temporary employees was 1,647 compared to 1,680 the year before. Contractor employees represented about 12,265 full-time equivalents during 2019 compared to 10,500 in 2018. The large majority of employees are concentrated in the USA, Brazil, Germany and Norway. Extruded Solutions has a greater extent of seasonal variations than the other business areas in Hydro. This is solved in different ways in different parts of the organization and may include the use of agency workers. We still do not have the full overview of the extent of such use.

Through Hydro's global people processes we ensure the right competence, capabilities and organizational culture to be able to deliver on our overall strategic agenda – lifting profitability, driving sustainability.

Hydro's new people strategy, launched during 2020, sets global strategic priorities, ambitions, targets and activities, in addition to a defined process for annual update and revision. The global priorities cover learning and competence development, leadership and succession as well as diversity

and inclusion. These priorities are supported by every business area with targets and activities based on their specific needs, addressing challenges in regions where they operate.

A new people platform will be rolled out in 2020 to enable standardized and digitalized global human resources processes throughout the employee's career path.

Hydro's common process for people performance and development includes an appraisal dialogue, individual development plan and follow up, as well as talent planning and succession management.

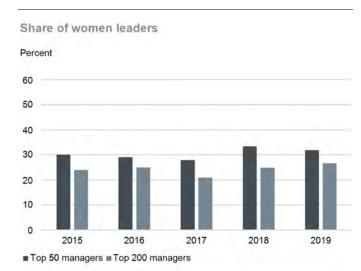
Hydro has a global engagement survey, normally run every second year. The last survey took place in 2018 and reached the top 10 percent according to the IBM External Norm on the Employee Engagement Index. The 2018 survey did not include the business area Extruded Solutions, which will be included in 2020. A new survey for the entire organization was to be conducted for all employees in 2019, but was postponed to third quarter 2020 due to the cyber-attack. Maintaining employee engagement is a key priority going forward. All units have action plans based on their results.

In order to have a healthy pipeline of leaders with the required breadth of experience, we strive to rotate leaders so that they gain knowledge from different parts of the organization. Through the succession and talent processes, we work with the leadership and specialist pipeline and identify required development needed. We have a portfolio of learning programs that supports development for leaders as well as specialists.

Hydro's organization around the world represents significant diversity in education, experience, gender, age and cultural background. We see this diversity as a source of competitive advantage, as it encourages innovation, learning and better customer understanding. We want all employees to know they are valued for their differences and that they contribute to the success of our business strategy. A part of the new people strategy is to identify measures and quantifiable targets to support our ambition.

In 2019, 18 percent of Hydro's employees were women. The share of women was 40 percent in Hydro's Corporate Management Board in 2019. With three women among the seven shareholder-elected members on the Board of Directors, Hydro complies with the Norwegian legal requirements on female representation. Our ambition is to have a high performing and sustainable work environment, based on diversity and inclusion.

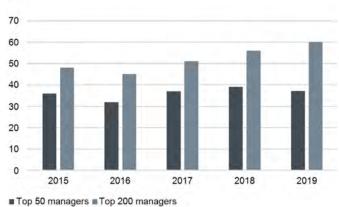
We are continually adjusting working conditions so that all employees have the same opportunities in their workplace. In Brazil, we are required to employ at least 5 percent employees with disabilities. Paragominas employed ##D<dis\_paragominas> percent disabled people by the end of 2019, and Alunorte were at 4.5 percent at the end of 2019, while the level at Albras was 3.5 percent. Just as important as achieving the legal requirements, Alunorte, Paragominas and Norsk Hydro Brasil are working on the career development of employees with disabilities.



The total share of women at all levels in Hydro was 18 percent in 2019.

#### Share of non-Norwegian leaders

### Percent



Portfolio optimizations, reviews and continuous improvement are essential elements of our business operations. Our aim is to involve employees in such processes at an early stage in order to achieve the best results for individuals and the company.

All employees shall receive a total compensation that is competitive and aligned with local industry standard (but not market leading). The compensation should also be holistic, performance oriented, transparent, fair and objective. Salaries in the organization are reviewed on a regular basis. There is no significant gender-pay differentials for employees earning collective negotiated wages in Norway, Germany and Brazil. Following the integration of Extruded Solutions, the USA and Hungary have become significant countries of

operations for Hydro. In 2018, we looked into the salary differences for all Hydro employees in Hungary and based on overall figures we find no significant gender related salary differences. We have also looked into the salary conditions for all Hydro employees in the USA. Based on our initial analysis, on average there are no significant gender related salary differences.

The annual bonus of Hydro executives shall reflect achievements in relation to pre-defined financial targets and achievements of operational and organizational key performance indicators (KPIs). Targets relating to safety, environment, corporate social responsibility, compliance and leadership expectations constitute a substantial part of the annual bonus plan. Please see note 9.1 and 9.2 to the consolidated financial statements for more information.

### Board developments

The Board of Directors has an annual plan for its work. It includes recurring topics such as strategy review, business planning, risk and compliance oversight, financial reporting, people strategy, succession planning as well as HSE, climate change and CSR. The Board of Directors is closely following the market and macro-economic developments relevant for the aluminium industry.

High on the board's agenda in 2019 was the situation for Hydro's operations in Brazil related to the 50 percent production embargo on Alunorte, the cyber attack and the process of recruiting a new CEO. In addition, the board has spent time on the new CEO platform, the strategic review of the business area Rolled Products, health and safety developments, and improvement initiatives.

Extraordinary meetings have been held to address critical matters. The board a had deep dive on Extruded Solutions North America. The board conducted site visits at the Cressona and St. Augustine plants in North America.

The Board of Directors conducts an annual self-assessment of its work, competence and cooperation with management and a separate assessment of the chairperson. Also the Board Audit Committee performs a self-assessment. The reviews were facilitated by the corporate advisory firm Lintstock. The main conclusions of all assessments were submitted to the nomination committee, which in turn assessed the board's composition and competence.

The Board of Directors held 14 meetings in 2019 with an attendance of 92 percent. The Compensation Committee held eight meetings and the Audit Committee ten meetings.

### Net income and dividend – Norsk Hydro ASA

Norsk Hydro ASA (the parent company) had a net income of NOK 4,668 million in 2019 compared with net income of NOK 1,015 million in 2018. The result reflects increased dividends from subsidiaries in 2019 compared to 2018.

For 2019, Hydro's Board of Directors proposes a dividend of NOK 1.25 per share reflecting Hydro's robust financial situation, taking into account a demanding year for the company and the volatility in the aluminium industry. The proposed payment demonstrates the company's commitment to provide a predictable dividend to shareholders. Hydro has a dividend policy of 40 percent pay-out ratio of reported net income over the cycle with NOK 1.25 per share considered as a floor. The average five-year payout ratio is 68 percent.

According to section 3-3 of the Norwegian Accounting Act, the board of directors confirms that the financial statements have been prepared on the assumption of a going concern.

Oslo, March 10, 2020

Dag Mejdell Chair

Finn Jebsen Board member

Sten Roar Martinsen
Board member

Marianne Wiinholt Board member Irene Rummelhoff Deputy chair

Liselott Kilaas Board member

Thomas Schulz
Board member

Arve Baade Board member

Peter Kukielski Board member

Svein Kåre Sund Board member

Hilde M. Hacheun Hilde Merete Aasheim President and CEO

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### Consolidated financial statements

### Consolidated income statements

Amounts in NOK million (except per share amounts). Years ended December 31	Notes	2019	2018
Revenue	1.4, 5.1	149,766	159,377
Share of the profit (loss) in equity accounted investments	1.4, 3.1	241	765
Other income, net	5.2	1,000	772
Total revenue and income		151,007	160,913
Raw material and energy expense	5.3	97,474	102,523
Employee benefit expense	9.3	24,871	23,176
Depreciation and amortization expense	2.4	8,572	7,369
Impairment of non-current assets	2.5	912	-
Other		18,678	19,324
Total expenses		150,508	152,391
Earnings before financial items and tax		499	8,522
Finance income	7.5	365	255
Finance expense	7.5	(2,420)	(2,315)
Finance income (expense), net		(2,055)	(2,060)
Income (loss) before tax		(1,556)	6,462
Income taxes	10.1	(813)	(2,139)
Net income (loss)		(2,370)	4,323
Net income (loss) attributable to non-controlling interests		(558)	67
Net income (loss) attributable to Hydro shareholders		(1,811)	4,256
Basic and diluted earnings per share attributable to Hydro shareholders	7.6	(0.88)	2.08

The accompanying notes are an integral part of the consolidated financial statements.

### Consolidated statements of comprehensive income

Amounts in NOK million. Years ended December 31	Notes	2019	2018
Net income (loss)		(2,370)	4,323
Other comprehensive income			
Items that will not be reclassified to income statement			
Remeasurement postemployment benefits, net of tax	7.6	(443)	(718)
Unrealized gain (loss) on securities, net of tax	7.6, 8.2	(664)	394
Total		(1,107)	(324)
Items that will be reclassified to income statement			
Currency translation differences, net of tax	7.6	(576)	(2,031)
Cash flow hedges, net of tax	7.6, 8.3	19	(14)
Share of other comprehensive income that will be reclassified to income statement of equity accounted investments, net of tax	7.6	32	72
Total		(526)	(1,973)
Other comprehensive income		(1,633)	(2,296)
Total comprehensive income		(4,003)	2,027
Total comprehensive income attributable to non-controlling interests		(631)	(273)
Total comprehensive income attributable to Hydro shareholders		(3,372)	2,300

The accompanying notes are an integral part of the consolidated financial statements.

### Consolidated balance sheets

		2019	2018
Amounts in NOK million, December 31	Notes		Restated
Accepte			
Assets Cash and cash equivalents	7.2	12,286	5,995
Short-term investments	7.2	969	975
Trade and other receivables	6.2	18,959	20,744
		•	•
Inventories	6.1	20,816	26,483
Other current financial assets	8.2	635	801
Total current assets		53,665	54,998
Property, plant and equipment	2.1	74,243	74,369
Intangible assets	2.2, 2.3	11,501	11,443
Investments accounted for using the equity method	3.1	11,501	11,570
Other non-current assets	2.7, 8.2	4,817	5,721
Prepaid pension	9.5	6,676	5,162
Deferred tax assets	10.1	1,998	1,664
Total non-current assets		110,736	109,929
Total assets		164,401	164,928
Liabilities and equity			
Bank loans and other interest-bearing short-term debt	7.4	6,157	9,373
Trade and other payables	6.3	18,692	20,381
Provisions	4.1	3,296	3,281
Taxes payable		1,311	2,266
Other current financial liabilities	8.2	235	515
Total current liabilities		29,691	35,817
Long-term debt	7.4	18,858	9,342
Provisions	4.1	6,515	5,588
Pension liabilities	9.5	17,099	15,648
Other non-current financial liabilities	8.2	2,992	2,429
Other liabilities	0.2	2,033	2,318
Deferred tax liabilities	10.1	3,132	3,031
Total non-current liabilities	10.1	50,629	38,354
Total liabilities		80,320	74,172
Share capital	7.6	2,272	2,272
Additional paid-in capital	7.6	29,123	29,126
Treasury shares	7.6	(711)	(756)
Retained earnings		52,745	57,114
Other components of equity	7.6	(3,496)	(1,936)
Equity attributable to Hydro shareholders		79,932	85,820
Non-controlling interests		4,148	4,936
Total equity		84,081	90,756
Total liabilities and equity		164,401	164,928

The accompanying notes are an integral part of the consolidated financial statements.

### Consolidated statements of cash flows

Amounts in NOK million. Years ended December 31	Notes	2019	2018
Operating activities			
Net income (loss)		(2,370)	4,323
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and impairment	2.4, 2.5	9,485	7,369
Share of profit in equity accounted investments		(241)	(765)
Dividends received from equity accounted investments	3.1	222	1,219
Deferred taxes		(699)	(585)
Loss on sale of non-current assets		85	188
Net foreign exchange loss	7.5	1,204	1,303
Net sales of trading securities		98	187
Capitalized interest	7.5	(44)	(1)
Changes in assets and liabilities that provided (used) cash:			
Trade and other receivables		1,869	(1,412)
Inventories		5,552	(5,599)
Trade and other payables		(1,812)	675
Commodity derivatives		(29)	(415)
Other items		(770)	538
Net cash provided by operating activities	10.3	12,550	7,025
Investing activities		(8.726)	(7 210)
Purchases of property, plant and equipment		(8,726)	(7,219)
Purchases of other long-term investments		(698)	(389)
Purchases of short-term investments		(52)	-
Proceeds from sales of property, plant and equipment		129	80
Investment grants received		60	333
Proceeds from sales of other long-term investments		96	(1)
Proceeds from sales of short-term investments		18	
Net cash used in investing activities		(9,173)	(7,196)
Financing activities			
Loan proceeds		15,881	7,057
Loan repayments		(10,090)	(5,984)
Net decrease in other short-term debt		(257)	(2,934)
Proceeds from shares issued		26	47
Dividends paid		(2,649)	(3,622
Net cash provided by (used in) financing activities		2,911	(5,436
Foreign currency effects on cash		3	(226)
Net increase (decrease) in cash and cash equivalents		6,291	(5,833)
Cash and cash equivalents at beginning of year		5,995	11,828
Cash and cash equivalents at end of year		12,286	5,995

The accompanying notes are an integral part of the consolidated statements.

### Consolidated statements of changes in equity

Amounts in NOK million	Notes	Share capital	Additional paid-in capital	Treasury shares	Retained earnings	Other components of equity	Equity attributable to Hydro share- holders	Non-control- ling interests	Total equity
December 31, 2017		2,272	29,097	(810)	56,452	20	87,032	5,178	92,209
Treasury shares issued to employees	7.6		29	53			83		83
Dividends	7.7				(3,581)	)	(3,581	) (106)	(3,687)
Capital contribution in subsidiaries								138	138
Total comprehensive income for the year					4,256	(1,956)	2,300	(273)	2,027
December 31, 2018		2,272	29,126	(756)	57,127	(1,936)	85,833	4,936	90,769
Effect of change in accounting principle					(13)	)	(13	) -	(13)
January 1, 2019		2,272	29,126	(756)	57,114	(1,936)	85,820	4,936	90,756
Treasury shares issued to employees	7.6		(3)	45			42		42
Dividends	7.7				(2,558)	)	(2,558	) (159)	(2,717)
Capital contribution in subsidiaries								2	2
Total comprehensive income for the year					(1,811)	(1,560)	(3,372	(631)	(4,003)
December 31, 2019		2,272	29,123	(711)	52,745	(3,496)	79,932	4,148	84,081

The accompanying notes are an integral part of the consolidated statements.

Oslo, March 10, 2020

Dag Mejdell
Chair

Finn Jebsen Board member

Sten Roar/Martinsen Board member

Marianne Wiinholt Board member Irene Rummelhoff Deputy chair

Liselott Kilaas Board member

Thomas Schulz Board member Arve Baade Board member

Peter Kukielski Board member

Svein Kåre Sund Board member

Mdc //. Hayncun Hilde Merete Aasheim President and CEO

# Notes to the consolidated financial statements

# Section 1 – General information

# Note 1.1 Reporting entity, basis of presentation and significant accounting policies

The reporting entity reflected in these financial statements comprises Norsk Hydro ASA and consolidated subsidiaries (Hydro). Hydro is headquartered in Oslo, Norway, and the group employs around 36,000 people in about 40 countries. Hydro is a global supplier of aluminium with operations throughout the industry value chain. Operations include power production, bauxite extraction, alumina refining, aluminium smelting, remelting and recycling, rolling activities, and extruded solutions. The Board of Directors and the President and CEO authorized these financial statements for issue on March 10, 2020. Hydro is listed on the Oslo stock exchange, Oslo Børs.

### **Basis of presentation**

The consolidated financial statements of Norsk Hydro ASA and its subsidiaries are prepared in accordance with International Financial Reporting Standards (IFRS) as endorsed by the European Union (EU) and Norwegian authorities and effective as of December 31, 2019. Hydro also provides the disclosures as specified under the Norwegian Accounting Act (Regnskapsloven).

The financial statements have been prepared on a historical cost basis except for certain assets, liabilities and financial instruments, which are measured at fair value. Preparation of financial statements including note disclosures requires management to make estimates and assumptions that affect amounts reported. Actual results may differ.

The functional currency of Norsk Hydro ASA is the Norwegian krone (NOK). The Hydro group financial statements are presented in NOK.

As a result of rounding adjustments, the figures in one or more columns included in the financial statements may not add up to the total of that column.

Interest rates used for calculating net present values are rounded to the nearest 10 basis points for post-employment benefits, to the nearest 25 basis points for other non-financial assets and liabilities.

### Significant estimates and judgement

The application of accounting policies requires that management makes estimates and judgements in determining certain revenues, expenses, assets and liabilities. The following areas involve a significant degree of judgement and complexity, and may result in significant variation in amounts.

- Impairment of non-current assets, discussed in note 2.5 Impairment of non-current assets
- · Uncertain assets and liabilities, discussed in section 4 Uncertain assets and liabilities
- Uncertain tax positions, discussed in note 10.1 Income taxes
- Business combinations, impacting such items as long-lived assets and uncertain assets and liabilities, discussed in note 1.5 Significant subsidiaries and changes to the consolidated group
- Financial instruments, discussed in section 8 Financial risk and financial instruments
- Employee retirement plans, discussed in note 9.5 Employee retirement plans

## Significant accounting policies

The following description of accounting principles applies to Hydro's 2019 financial reporting, including all comparative figures, except where the implementation provisions in IFRS 16 Leases specify that the new accounting principles are applied from January 1, 2019. See note 2.6 Leases and note 10.5 Changes in accounting principles and new pronouncements for further information about implementation of this new accounting standard. The relevant accounting policies for relevant items are described in the specific notes in this set of financial statements.

## Income statements and statements of comprehensive income

Hydro has elected to present a separate income statement and a separate statement of comprehensive income, rather than a combined statement. Further, Hydro presents an analysis of expenses based on their nature as a common analysis of expenses through Hydro's value chain. Hydro has elected to present a sub-total Earnings before financial items and tax (EBIT). This measure is also used as the main segment profit measure. The share of the profit (loss) in equity accounted investments is included in this sub-total because the majority of such investments are operationally integrated with Hydro's businesses. Results from such investments are managed as part of Hydro's operating activities with significant transactions between the majority of these investments and Hydro. Return on other equity investments is not as closely related to the business activities in Hydro, and hence classification as finance income thus better reflects the way such investments are managed.

Gains and losses on disposal of non-current assets are presented net, as well as expenditures related to provisions that are reimbursed by a third party. However, insurance compensation and government grants are reported on a gross basis.

### Statements of cash flows

Hydro uses the indirect method to present cash flows from operating activities. Interest and dividends received as well as interest paid are included in cash flows from operating activities. Dividends paid are included in cash flows from financing activities.

### Basis of consolidation

The consolidated financial statements include Norsk Hydro ASA and subsidiaries, which are entities in which Hydro has the power to govern the financial and operating policies of the entity (control). Control is normally achieved through ownership, directly or indirectly, of more than 50 percent of the voting power. Currently, Hydro has more than 50 percent of the voting power in close to all subsidiaries. Subsidiaries are included from the date control commences until the date control ceases.

Intercompany transactions and balances have been eliminated. Profit and loss resulting from intercompany transactions have been eliminated.

### Non-controlling interests

Non-controlling interests represent equity interests in subsidiaries held by other owners than Hydro. Non-controlling interests are reported as a separate section of the Group's equity in accordance with IFRS 10 Consolidated Financial Statements. Results attributed to non-controlling interests are based on ownership interest, or other method of allocation if required by contract.

#### Transactions between non-controlling shareholders and the group

Sales and purchases of equity interests and equity contributions not resulting in Hydro gaining or losing control of a subsidiary are reported as equity transactions in accordance with IFRS 10. No gain, loss or remeasurement of values of recognized assets, liabilities or goodwill is recognized as a result of such transactions.

### Assets held for sale and Income from discontinued operations

Assets held for sale are reported separately in accordance with IFRS 5 Non-current Assets Held for Sale and Discontinued Operations, provided that the sale is highly probable, which includes the criteria that management is committed to the sale, and that the sale will be completed within one year. Assets held for sale are not depreciated, but are measured at the lower of carrying value and the fair value less costs to sell for the asset group. Assets are not reclassified in prior period balance sheets. Immaterial disposal groups are not reclassified.

A discontinued operation is a component of Hydro that is held for sale or has been disposed of. A discontinued operation is a separate major line of business or geographical area of operations. Related cash flows, results of operations and gain or loss from disposal are reported separately as Income (loss) from discontinued operations.

Assets held for sale, liabilities in disposal groups and income and expense from discontinued operations are excluded from specifications presented in the notes unless otherwise stated.

## Foreign currency transactions

Transactions in foreign currencies are initially recorded in the functional currency of the transacting entity by applying the rate of exchange as of the date of the transaction. Monetary assets and liabilities denominated in foreign currencies are translated into the functional currency at the rate of exchange at the balance sheet date. Currency gains or losses are included in Finance expense.

### Foreign currency translation

For consolidation purposes, the financial statements of subsidiaries with a functional currency other than Norwegian kroner (NOK) are translated into NOK. Assets and liabilities, including investment in associates, joint ventures and goodwill, are translated using the rate of exchange as of the balance sheet date. Income, expenses and cash flows are translated using the average exchange rate for the reported period. Goodwill is recognized in the predominant functional currencies in the acquired businesses. Translation adjustments are recognized in Other comprehensive income and accumulated in Currency translation differences in Other components of equity. On disposal of such subsidiary, joint venture or associate, the cumulative translation adjustment of the disposed entity is recognized in the income statement as part of the gain or loss on disposal.

# Note 1.2 Measurement of fair value

Hydro measures certain assets and liabilities at fair value for the purpose of recognition or disclosure. Recurring fair value measurement is used primarily for financial instruments, see section 8 Financial risk and financial instruments. Non-recurring fair value measurement is used for transactions, such as business combinations, divestments with non-cash consideration and certain other non-routine transactions. Fair value is estimated using inputs which are to varying degree objectively observable. Certain items are valued on the basis of quoted prices in active markets for identical assets or liabilities, others are valued on the basis of inputs that are derived from observable prices, while certain positions are valued on the basis of judgmental assumptions that are to a limited degree or not at all based on observable market data.

#### Financial instruments

The estimated fair value of Hydro's financial instruments is based on market prices and valuation techniques. Valuations are made with the objective to include relevant factors that market participants would consider in setting a price, and to apply accepted economic and financial methodologies for the pricing of financial instruments. References for less active markets are carefully reviewed to establish relevant and comparable data. Extrapolations and other accepted valuation techniques are employed in periods with few or no transactions, such as for long-term commodity contracts in markets with few observations beyond the short or mid-term period.

Hydro's estimated credit spread for similar liabilities is used when determining the fair value of financial instruments where Hydro is net liable. Hydro determines the appropriate discount factor and credit spread for financial assets based on both an individual and on a portfolio assessment.

### Equity securities

Fair value for unlisted shares is based on commonly accepted valuation techniques utilizing significant unobservable data, primarily cash flow-based models. To the extent there are transactions in such shares, the transaction price is assessed and, to the extent comparable to rights embodied in the investment held by Hydro, used for reference. For investments where share holdings are associated with offtake rights and/or obligations or other specific clauses, those rights and obligations are included in the valuation of the equity securities. Fair value for listed shares is based on quoted market prices as of the balance sheet date.

### Debt instruments

Fair value for unlisted debt instruments is estimated primarily through cash flow models using contractual cash flow where relevant, and discount rates reflecting the perceived credit risk and other relevant risks associated with the instrument. Fair value for listed instruments is based on quoted market prices as of the balance sheet date.

### Derivatives

Fair value of financial derivatives with a currency or interest rate as underlying is estimated as the present value of future cash flows, calculated by reference to quoted swap price curves and exchange rates as of the balance sheet date. For derivatives covering a period beyond the liquid period of price curves, the curves are extrapolated using unobservable data.

Fair value of commodity derivatives is measured as the present value of future cash flows, calculated using forward curves and exchange rates as of the balance sheet date. Estimates from brokers and extrapolation techniques are applied for non-quoted periods to achieve the most relevant forward curve. In addition, when deemed appropriate, correlation techniques between commodities are applied. Options are revalued using option pricing models, and credit spreads are applied where deemed to be significant. Markets are assessed to determine whether they are active for the relevant instruments. Currency and interest markets are considered liquid for the periods used for price references, and thus applied unadjusted. For aluminium contracts priced to observations at the London Metal Exchange (LME), liquidity is considered good for the first few years, with fewer transactions for longer durations. For electricity contracts priced to the electricity exchange Nasdaq Electricity Nordic, liquidity is considered good for the first two years. For longer durations there are fewer transactions and higher uncertainty. Similar assessment is made for other markets used for price references. For less liquid periods, adjustments to remove outliers and extrapolation techniques are applied.

### Embedded derivatives

Hydro measures embedded forward contracts that are separated from the host contract by comparing the forward curve at contract inception to the forward curve as of the balance sheet date. Changes in the present value of the cash flows related to the embedded derivative are recognized in the balance sheet with changes in the fair value recognized in the income statement. Forward curves are established as described above under Derivatives.

# Note 1.3 Significant events

The following significant events have impacted Hydro in 2019, or are expected to impact Hydro in 2020:

Hydro experienced a significant cyber-attack on March 19, 2019. The attack affected the entire organization, with Extruded Solutions having suffered the most significant operational challenges and financial losses. The main impact on financial results is lost sales resulting from lost production ability and ability to receive and process sales order in a period in March and April. In addition, costs have been incurred to remediate impacted systems and data. The financial impact is estimated to be around NOK 650 to 750 million. Hydro has a robust cyber insurance in place. During 2019, a total of NOK 216 million of compensation was recognized. Documentation of additional parts of the claim is in process, and Hydro expects to receive further compensation during 2020.

A strategic review of Rolled Products was initiated in May 2019. The review resulted in rationalization efforts with an estimated cost of about NOK 1 billion which was provided for in 2019. A large part of the cost is related to employee compensation for termination of employment and early retirement. The majority of cash outflows will be made during the period 2020 to 2022.

Extruded Solutions has been undergoing an optimization of their large asset portfolio to identify ways to streamline their footprint and reduce costs. During 2019 several extruded plants were closed or divested throughout Europe and in the US, and in most cases, volumes have been transferred to other facilities. Costs related to rationalization and closure activities were about NOK 400 million, in addition to impairment write-downs of about NOK 250 million.

Alunorte, an alumina refinery in Brazil which is part of Bauxite & Alumina was partly curtailed after a court decision in 2018 following an extreme rainfall and alleged harmful spills into surrounding areas. The court decision in March 2018 required Alunorte to limit production to 50 percent of its capacity. In May 2019, the court lifted the embargo, allowing Alunorte to ramp up towards normal production. In September 2019, the court lifted the final embargo related to the new bauxite residue deposit area (DRS2), allowing commissioning activities to resume. The partial embargo have significantly impacted alumina production in Bauxite & Alumina, and also impacted availability and price of alumina in the world market, thus impacted the prices for alumina produced and sold by Bauxite & Alumina, and the cost for alumina purchased and consumed by Primary Metal

# Note 1.4 Operating and geographic segment information

Hydro identifies its reportable segments and discloses segment information under IFRS 8 Operating Segments, which requires Hydro to identify its segments according to the organization and reporting structure used by management. Operating segments are components of a business that are evaluated regularly by the chief operating decision maker for the purpose of assessing performance and allocating resources. Hydro's chief operating decision maker is the President and CEO. Generally, financial information is required to be disclosed on the same basis that is used by the CEO.

Hydro's operating segments represent separately managed business areas with products serving different markets, or distinct elements of the business separately followed up and reported to the chief operating decision maker. Hydro's reportable segments are the six business areas Bauxite & Alumina, Primary Metal, Metal Markets, Rolled Products, Extruded Solutions, and Energy.

Bauxite & Alumina activities includes bauxite mining activities, production of alumina and related commercial activities, primarily the sale of alumina.

Primary Metal includes primary aluminium production, remelting and casting activities. The main products are comprised of extrusion ingots, foundry alloys, sheet ingot and standard ingot.

Metal Markets includes all sales activities relating to products from our primary metal plants and operational responsibility for stand-alone remelters as well as physical and financial metal trading activities.

Rolled Products includes Hydro's rolling mills and the dedicated primary metal plant in Neuss, Germany. The main products are comprised of aluminium foil, strip, sheet, and lithographic plate for application in such sectors as packaging, automotive and transport industries, building and general engineering, as well as for offset printing plates.

Extruded Solutions delivers products within extrusion profiles, building systems and precision tubing, and is present in about 40 countries. The products are delivered to such sectors as construction, automotive and heating, ventilation and air conditioning.

Energy includes operating and commercial responsibility for Hydro's power stations in Norway, a trading and wholesale business in Brazil, and energy sourcing for Hydro's world-wide operations.

Other consist of Hydro's captive insurance company Industriforsikring, its industry parks, internal service providers, and certain other activities.

### Operating segment information

Hydro uses two measures of segment results, Earnings before financial items and tax - EBIT and EBITDA. EBIT is consistent with the same measure for the group, considering the principles for measuring certain intersegment transactions and contracts described below. Hydro defines EBITDA as Income (loss) before tax, financial income and expense, depreciation, amortization and write-downs, including amortization and impairment of excess values in equity accounted investments, less investment grants. Hydro's definition of EBITDA may be different from other companies.

Because Hydro manages long-term debt and taxes on a group basis, Net income is presented only for the group as a whole.

Intersegment sales and transfers reflect arm's length prices as if sold or transferred to third parties at the time of inception of the internal contract, which may cover several years. Transfers of businesses or fixed assets within or between Hydro's segments are reported without recognizing gains or losses. Results of activities not considered part of Hydro's main operations as well as unallocated revenues, expenses, liabilities and assets are reported together with Other under the caption Other and eliminations.

The accounting policies used for segment reporting reflect those used for the group. The following exceptions apply for intersegment transactions: Internal commodity contracts may meet the definition of a financial instrument in IFRS 9 or contain embedded derivatives that are required to be reported separately and valued at fair value under IFRS 9. However, Hydro considers these contracts as sourcing of raw materials or sale of own production, and accounts for such contracts as executory contracts. Certain other internal contracts may contain a lease arrangement. However, the segment reporting reflects the responsibility allocated by Hydro's management for those assets. Costs related to certain pension schemes covering more than one segment are allocated to the operating segments based either on the premium charged or the estimated service cost. Any difference between these charges and pension expenses measured in accordance with IFRS, as well as pension assets and liabilities are included in Other and eliminations.

The following tables include information about Hydro's operating segments.

42

	External re	External revenue Internal r		enue/	Share of the profit (loss) in equity accounted investments	
Amounts in NOK million	2019	2018	2019	2018	2019	2018
Bauxite & Alumina	12,255	14,396	10,550	14,152	-	-
Primary Metal	6,141	7,829	29,035	31,605	270	722
Metal Markets	40,164	42,502	10,287	11,735	-	-
Rolled Products	26,179	26,940	152	15	-	-
Extruded Solutions	62,211	64,023	140	61	18	53
Energy	2,808	3,673	5,414	5,007	(29)	(35)
Other and eliminations	8	14	(55,577)	(62,576)	(18)	24
Total	149,766	159,377	-	-	241	765

	Depreciation, amor impairmer		nd Earnings before financial items and tax (EBIT) <sup>2)</sup>		s EBITDA	
Amounts in NOK million	2019	2018	2019	2018	2019	2018
Bauxite & Alumina	2,509	2,095	749	1,763	3,258	3,858
Primary Metal	3,030	2,253	(1,838)	2,123	1,081	4,267
Metal Markets	129	101	748	886	875	986
Rolled Products	1,036	927	(865)	336	170	1,263
Extruded Solutions	2,384	1,723	1,353	1,774	3,731	3,498
Energy	253	239	1,291	1,853	1,558	2,107
Other and eliminations	144	30	(939)	(214)	(795)	(183)
Total	9.485	7.369	499	8,522	9,878	15,796

	Non-current assets		Total ass	Total assets <sup>3)</sup>		its <sup>4)</sup>
	2019	2018	2019	2018	2019	2018
Amounts in NOK million		Restated		Restated		
Bauxite & Alumina	30,565	32,396	37,332	40,163	2,294	963
Primary Metal	32,528	31,370	43,756	44,711	4,235	2,724
Metal Markets	1,413	1,456	7,470	9,886	173	165
Rolled Products	9,223	9,413	18,757	20,237	876	1,047
Extruded Solutions	28,758	28,004	43,060	45,117	2,914	2,390
Energy	5,822	5,671	6,975	6,990	313	280
Other and eliminations	2,427	1,620	7,051	(2,176)	102	45
Total	110,736	109,929	164,401	164,928	10,907	7,614

<sup>1)</sup> Amount for 2019 include impairment, see note 2.5 Impairment of non-current assets.

The identification of assets, non-current assets and investments is based on location of operation. Included in non-current assets are investments in equity accounted investments; property, plant and equipment (net of accumulated depreciation) and non-current financial assets.

Operating revenues are identified by customer location.

Total segment Earnings before financial item and tax is the same as Hydro group's total Earnings before financial income and tax. Financial income and financial expenses are not allocated to the segments. There are no reconciling items between segment Earnings before financial items and tax to Hydro Earnings before financial items and tax. Therefore, a

separate reconciling table is not presented.

Total assets exclude internal cash pool accounts and accounts receivable related to group relief.

Additions to property, plant and equipment (capital expenditures) plus long-term securities, intangible assets, long-term advances and investments in equity accounted investments, including amounts recognized in business combinations. In 2018, investments were reduced with certain indirect tax charges in Brazil not completely deducted and claimed at the time of investment. A review of deductibility resulted in reduction of asset costs for Bauxite & Alumina and Primary Metal of NOK 635 million and NOK 145 million, respectively.

	Revenu	ie	Non-current	assets	ssets Investments <sup>1)</sup>		
	2019	2018	2019	2018	2019	2018	
Amounts in NOK million				Restated			
Norway	3,694	4,424	26,266	23,100	3,484	2,666	
Germany	20,134	21,428	11,053	11,085	961	539	
France	8,298	8,604	2,701	2,969	150	230	
United Kingdom	6,888	7,933	1,473	1,476	98	134	
Poland	6,010	6,577	875	761	168	280	
Spain	5,814	6,017	801	863	98	175	
Italy	5,080	5,802	563	615	47	138	
The Netherlands	3,815	3,666	1,319	1,517	84	174	
Austria	2,843	3,117	378	416	14	129	
Sweden	2,547	2,477	826	877	68	135	
Belgium	1,975	2,200	1,167	1,611	73	425	
Denmark	1,727	1,761	915	859	137	10	
Czech Republic	1,691	1,992	1	1	-	-	
Portugal	1,128	1,258	140	137	19	(22	
Hungary	1,070	1,159	1,090	1,167	90	(109	
Slovakia	851	831	938	1,541	282	148	
Other	2,531	3,106	261	270	30	49	
Total EU	72,401	77,927	24,500	26,166	2,320	2,435	
Switzerland	5,000	4,840	143	117	4	-	
Turkey	2,188	2,222	4	8	-	-	
Other Europe	1,725	1,670	-	-	-	-	
Total Europe	85,008	91,083	50,913	49,391	5,808	5,101	
USA	33,326	31,899	10,023	9,624	1,121	665	
Canada	3,493	3,125	2,116	2,148	273	343	
Brazil	6,244	7,700	33,940	35,261	3,044	1,411	
Mexico	2,091	2,208	221	242	9	1,411	
Other America	825	2,206 961	41			31	
Japan				97	8	31	
Singapore	3,277	3,551	12 7	13	-	-	
China	3,236	3,303		16	- 46	(00	
Qatar	2,794	2,266	658	679	46	(29	
South Korea	2,014	2,543	11,439	11,276	-	-	
India	1,334	1,833	-	-	-	-	
Thailand	955	1,441	204	225	12	29	
Taiwan	896	894	-	-	-	-	
Bahrain	811	881		-		-	
Other Asia	645	401	512	243	535	-	
	1,850	3,585	16	47	1	2	
Australia and New Zealand	600	821	636	666	49	52	
Africa	368	881	-	-	-		
Total outside Europe	64,759	68,294	59,823	60,538	5,098	2,512	
Total	149,767	159,377	110,736	109,929	10,907	7,614	

Additions to property, plant and equipment (capital expenditures) plus long-term securities, intangible assets, long-term advances and investments in equity accounted investments, including amounts recognized in business combinations. In 2018, investments were reduced with certain indirect tax charges in Brazil not completely deducted and claimed at the time of investment. A review of deductibility resulted in reduction of asset costs for Bauxite & Alumina and Primary Metal of NOK 635 million and NOK 145 million, respectively.

# Note 1.5 Significant subsidiaries and changes to the group

### Accounting policies for business combinations

Business combinations are accounted for using the acquisition method in accordance with IFRS 3 Business Combinations. Consideration is the sum of the fair values, as of the date of exchange, of the assets given, liabilities incurred or assumed, and equity instruments issued in exchange for control of the acquiree. The fair value of Hydro's pre-existing ownership interest in an acquiree is included in the consideration, with any gain or loss recognized in Other income, net.

The acquiree's identifiable assets, liabilities and contingent liabilities are recognized separately at the acquisition date at their fair value irrespective of any non-controlling interest, and goodwill recognized to the extent the consideration exceeds identified net assets.

The interest of non-controlling shareholders in the acquiree is initially measured as the non-controlling interests' proportion of the fair value of the net assets recognized (partial goodwill method, see note 2.3 Goodwill), or as the non-controlling interests' proportion of the fair value of the acquiree (full goodwill method, see note 2.3 Goodwill). Non-controlling interests are subsequently adjusted for changes in equity of the subsidiary after the acquisition date.

### Significant judgment in accounting for business combinations

In a business combination, consideration, assets and liabilities are recognized at estimated fair value, and any excess purchase price included in goodwill. Where Hydro had an existing ownership interest in the acquiree, that interest is also reassessed to determine its acquisition date estimated fair value, resulting in an acquisition date gain or loss. In the businesses Hydro operates, fair values of individual assets and liabilities are normally not readily observable in active markets. Estimation of fair values requires the use of valuation models for acquired assets and liabilities as well as ownership interests. Such valuations are subject to numerous assumptions and are thus uncertain. The quality of fair value estimates may impact periodic depreciation and amortization of fixed assets, and assessment of possible impairment of assets and/or goodwill in future periods.

### Subsidiaries with significant non-controlling interests

The Hydro group consists of about 175 companies in about 40 countries. Most subsidiaries, including the large operating units in Norway and Germany, are 100 percent owned, directly or indirectly, by Norsk Hydro ASA. A list of significant subsidiaries is included in note 7 to the separate accounts of Norsk Hydro ASA later in this report. Restrictions in the ability to transfer dividend based on reported results and/or equity in the relevant subsidiaries exist in most countries where we operate. In some countries, including Brazil, there are also legal restrictions in our ability to integrate cash holdings in subsidiaries in the group's cash pool. There are non-controlling interests in some subsidiaries. The more significant ones are described below.

### Albras

Hydro holds 51 percent of the shares in the Brazilian aluminium smelter Alumínio Brasileiro S.A. (Albras), which is part of Primary Metal. The non-controlling owner has significant influence on certain decisions in the entity, including operational and investment budgets. The non-controlling interests in Albras amounted to NOK 2,171 million as of December 31, 2019 and NOK 2,721 million as of December 31, 2018. Funds held by the entity are not available to the group through cash pool arrangements. Dividends need to be approved by the shareholders jointly. The shareholder agreement supports transfer of dividend to the extent possible under statutory regulations. The smelter produces standard ingots, which are sold to its shareholders, or the entities appointed by the shareholders, in proportion to ownership interest at a price based on prevailing aluminium prices at the London Metal Exchange and product premiums. In response to the regime for sales taxes in Brazil, an increasing share of the production is sold to domestic customers rather than exported.

### Slovalco

Hydro holds 55 percent of the total shares and 60 percent of the voting interest in the Slovac smelter Slovalco a.s, which is part of Primary Metal. The non-controlling owner has significant influence on certain decisions in the entity, including operational and investment budgets. The plant is curtailed 20 percent as of December 2019, reflecting weaker market conditions. The plant was partly written down as impaired at the end of 2019, see note 2.5 Impairment of non-current assets. The non-controlling interests in Slovalco amounted to NOK 1,015 million as of December 31, 2019 and NOK 1,184 million as of December 31, 2018. Funds held by the entity are not available to the group through cash pool arrangements. Dividends need to be approved by the shareholders jointly. The shareholder agreement supports transfer of dividend to the extent possible under statutory regulations. The smelter produces metal products, of which the majority is sold to Hydro at a price based on prevailing aluminium prices at the London Metal Exchange and product premiums.

### Alunorte

Hydro holds about 92 percent of the shares in the Brazilian alumina refinery Alumina do Norte do Brasil S.A. (Alunorte), which is part of Bauxite & Alumina. The non-controlling owners have limited influence on the operational decisions. The non-controlling interests in Alunorte amounted to NOK 810 million as of December 31, 2019 and NOK 859 million as of December 31, 2018. Funds held by the entity are not available to the group through cash pool arrangements. Dividends need to be approved by the shareholders jointly. The shareholder agreement supports transfer of dividend to the extent possible under statutory regulations. The refinery produces alumina, which is sold to its shareholders in proportion to ownership interest at a

price based on prevailing aluminium prices at the London Metal Exchange, with a minimum price based on production cost plus a margin, and a fixed maximum price.

The table below summarizes key figures for Albras, the only subsidiary with non-controlling interests considered material, as included in the group financial statements. Fair value adjustments from Hydro's acquisition of the subsidiary are included. Intercompany transactions and balances are included, and any internal profit and loss in inventory and fixed assets purchased from group companies are not eliminated in the numbers below.

		Albras	
	2019	2018	
Amounts in NOK million		Restated	
Internal revenue	3,098	3,090	
External revenue	2,695	4,171	
Earnings before financial items and tax	(1,062)	344	
Net income	(720)	200	
Other comprehensive income	19	35	
Total comprehensive income	(701)	236	
Net cash flows from operating activities	(531)	942	
Net cash flows from investing activities	(641)	(361)	
Net cash flows from financing activities	1,047	(407)	
Cash and cash equivalents	209	334	
Other current assets			
Non-current assets	1,940	1,925	
Current liabilities	4,624	4,443	
	(1,603)	(669)	
Non-current liabilities	(742)	(482)	
Equity attributable to Hydro	(2,257)	(2,830)	
Equity attributable to non-controlling interests	(2,171)	(2,721)	
Share of net income attributable to non-controlling interest	(352)	104	
Dividends paid to non-controlling interests	65	66	

# Section 2 – Long-lived assets

# Note 2.1 Property, plant and equipment

### Accounting policies for property, plant and equipment

Property, plant and equipment (PP&E) is recognized at acquisition cost. The carrying value of PP&E is comprised of the historical cost less accumulated depreciation and any accumulated impairment losses. The carrying value also includes the estimated value of the asset retirement obligation upon initial recognition of the liability. Hydro uses the cost model for PP&E and investment properties.

#### Capitalized maintenance

Expenditures for maintenance and repairs applicable to production facilities are capitalized in accordance with IAS 16 Property, Plant and Equipment when such costs are incurred on a scheduled basis with a time interval of greater than one year. Expenditures that regularly occur at shorter intervals are expensed as incurred. Major replacements and renewals are capitalized and any assets replaced are retired.

### Stripping cost

Stripping costs incurred during the mining production phase are allocated between cost of inventory produced and the existing mine asset. Stripping costs are allocated as a component of the mine asset in the event they represent significantly improved access to ore. Stripping costs include such activities as removal of vegetation as well as digging the actual pit for mining the ore.

### Capitalized interest

Hydro capitalizes borrowing costs on qualifying assets in accordance with IAS 23 Borrowing Costs. Currency gains or losses related to Hydro's foreign currency denominated borrowings are not capitalized.

The main components of Hydro's property, plant and equipment is production related machinery and buildings in Hydro's more than 100 operating plants. PP&E includes leased assets, see note 2.6 Leases.

Amounts in NOK million	Land and buildings	Machinery and equipment	Plant under construction	Total
Cost				
December 31, 2017	33,752	96,414	4,363	134,529
Additions	(11)	2,422	4,614	7,025
Acquisitions through business combinations	1,167	(208)	-	959
Disposals	(126)	(1,813)	(56)	(1,995)
Transfers	683	3,229	(3,912)	-
Foreign currency translation effect	(827)	(2,355)	(125)	(3,307)
December 31, 2018	34,638	97,689	4,885	137,212
Effect of change in accounting principle	1,628	1,443		3,070
Additions	458	3,729	5,702	9,889
Acquisitions through business combinations	73	(17)	-	56
Disposals	(381)	(2,240)	(20)	(2,640)
Transfers <sup>1)</sup>	533	2,966	(3,616)	(117)
Foreign currency translation effect	(329)	(1,048)	(91)	(1,469)
December 31, 2019	36,619	102,522	6,859	146,001
Accumulated depreciation and impairment				
December 31, 2017	(12,629)	(48,686)	(280)	(61,596)
Depreciation for the year	(1,158)	(5,705)	-	(6,862)
Disposals	104	1,612	-	1,716
Transfers	(31)	31	-	-
Foreign currency translation effect	209	592	28	830
December 31, 2018	(13,505)	(52,155)	(252)	(65,912)
Depreciation for the year	(1,517)	(6,514)	-	(8,030)
Impairment losses	(330)	(399)	(30)	(760)
Reversal of impairment losses	9			10
Disposals	296	1,998	2	2,296
Foreign currency translation effect	120	512	8	640
December 31, 2019	(14,928)	(56,558)	(273)	(71,758)
Carrying value				
December 31, 2018	22,761	46,976	4,633	74,369
December 31, 2019	21,692	45,964	6,587	74,243

<sup>1)</sup> Transfer includes reclassification of certain undeveloped mineral rights to intangible assets.

# Note 2.2 Intangible assets

### Accounting policies for intangible assets

Intangible assets acquired individually or as a group are recognized at fair value when acquired. Intangible assets acquired in a business combination are recognized at fair value separately from goodwill when they arise from contractual or legal rights or can be separated from the acquired entity and sold or transferred.

### Emission rights

Government granted and purchased  $CO_2$  emission allowances expected to be used towards Hydro's own emissions are recognized as intangible assets at nominal value (cost). The amounts are not amortized, but are tested for impairment at least annually. Actual  $CO_2$  emissions which exceed the level covered by emission rights are recognized as a liability. Any sale of excess emission rights is recognized at the time of sale at the transaction price.  $CO_2$  emission allowances purchased for trading are measured and classified as inventory.

### Research and development

Research expenditures are expensed as incurred. Development costs are capitalized as intangible assets at cost in accordance with IAS 38 Intangible Assets when the recognition criteria are met, including probable future economic benefit and that the cost can be measured reliably.

### Exploration cost

Exploration cost for mineral resources are expensed as incurred. Costs related to acquired exploration rights are allocated to the relevant areas and capitalized. An area represents a unit that may be utilized based on shared infrastructure and may include several licenses. Exploration rights are transferred to mine development cost when development starts. Amortization of transferred mineral rights starts when extraction of the resources starts. Exploration rights related to undeveloped areas remain on the balance sheet as intangible assets (mineral rights) until a development is decided or a decision not to develop the area is made.

Hydro holds intangible assets mainly as complementary resources to its physical assets. Waterfall rights are fundamental for production of hydroelectrical power, however, a significant share of such rights was granted to Hydro rather than purchased. A significant share of acquired waterfall rights have indefinite life and are thus not amortized. Mineral rights are undeveloped rights related to Hydro's mining operations in Brazil. Other intangible assets include customer relations, technology and other intangible assets identified in acquisitions, in addition to proprietary technology developed internally, and certain other types of intangible assets.

Amounts in NOK million	Intangible assets under development	Mineral and waterfall rights <sup>1)</sup>	Software	Technology	Acquired sourcing contracts	Other intangibles assets	Total
Cost							
December 31, 2017	263	1,104	1,420	1,856	1,146	1,788	7,576
Additions	158	2	36	2	· -	55	252
Acquisitions through business combinations	-	-	(4)	(19)	-	(95)	(118)
Disposals	-	(2)	(6)	-	_	(17)	(25)
Transfers	(274)	-	44	237	-	(6)	-
Foreign currency translation effect	2	(84)	(17)	9	(116)	30	(175)
December 31, 2018	148	1,020	1,472	2,084	1,030	1,756	7,510
Additions	169	22	77	-	-	74	341
Acquisitions through business combinations	-	-	1	-	-	499	500
Disposals	-	-	-	(79)	-	(389)	(468)
Transfers <sup>3)</sup>	(102)	117	92	5	-	6	117
Foreign currency translation effect	-	(22)	(21)	(17)	(29)	(6)	(94)
December 31, 2019	215	1,137	1,621	1,993	1,001	1,940	7,906
Accumulated amortization and impairment		(25)	(000)	(400)	(504)	(470)	(0.400)
December 31, 2017	-	(35)	(890)	(199)	(531)	(479)	(2,133)
Amortization for the year <sup>2)</sup>	-	(4)	(208)	(186) (3)	(63)	(108) 6	(569) 5
Disposals  Foreign gurrangy translation offeet	-		7	(6)	- 54	(10)	5 45
Foreign currency translation effect  December 31, 2018	<u> </u>	(39)	(1,089)	(394)	(540)	(590)	(2,652)
		, ,	, ,	,	, ,	, ,	
Amortization for the year <sup>2)</sup>	-	(3)	(212)	(187)	(62)	(141)	(604)
Impairment losses	-	(145)	(4)			(12)	(161)
Disposals	-	-	4	79	-	334	417
Foreign currency translation effect	-	1	16	4	17	8	45
December 31, 2019	-	(186)	(1,285)	(498)	(585)	(401)	(2,956)
Carrying value							
December 31, 2018	148	981	383	1,691	490	1,166	4,858
December 31, 2019	215	950	336	1,495	415	1,539	4,951

<sup>1)</sup> Some assets previously included in Other intangible assets have been concluded to be closely associated with waterfall rights, and thus moved.

<sup>2)</sup> Amortization of a sourcing contract is reported as Raw material and energy expense in the income statement.

<sup>3)</sup> Transfer includes reclassification of certain undeveloped mineral rights from property, plant and equipment.

# Note 2.3 Goodwill

### Accounting policies for goodwill

Goodwill is recognized as a part of business combinations. Goodwill is initially measured either as the excess of the consideration over Hydro's interest in the fair value of the acquiree's identifiable net assets (partial goodwill), or as the fair value of 100 percent of the acquiree in excess of the acquiree's identifiable net assets (full goodwill). The method is elected on a transaction-by-transaction basis. Hydro has applied the partial goodwill method for all business combinations completed prior to December 31, 2019. Goodwill is not amortized, but is tested for impairment annually, and more frequently if indicators of possible impairment are observed, in accordance with IAS 36 Impairment of Assets. Goodwill is allocated to the cash generating units or groups of cash generating units expected to benefit from the synergies of the combination and that are monitored for internal management purposes.

## Hydro's goodwill

Goodwill allocated to Extruded Solutions was recognized in the acquisition of Sapa AS in 2017. Goodwill allocated to Bauxite & Alumina was recognized in the acquisition of certain aluminium businesses from Vale S.A. in 2011. Goodwill allocated to Metal Markets was recognized in acquisitions undertaken more than 15 years ago.

Amounts in NOK million	Extruded Solutions	Bauxite & Alumina	Metal Markets	Total
Cost				
December 31, 2017	4,309	2,572	388	7,269
Adjusted goodwill from business combination	(539)	-	-	(539)
Foreign currency translation effect	99	(261)	16	(146)
December 31, 2018	3,869	2,312	404	6,584
Acquisitions through business combinations	16	-	-	16
Foreign currency translation effect	12	(65)	3	(50)
December 31, 2019	3,897	2,247	407	6,551

# Note 2.4 Depreciation and amortization expense

# Accounting policies for depreciation and amortization

Depreciation and amortization expenses are measured on a straight-line basis over the estimated useful life of the asset, commencing when the asset is ready for its intended use. Mine property and development costs in extractive activities are depreciated using the unit-of-production method, using proved and probable reserves. Tangible and intangible assets with an indefinite useful life are not depreciated. Estimated useful life by category is as follows:

- Machinery and equipment, initial investment 4-30 years, for power plants up to 75 years
- Machinery and equipment, capitalized maintenance 1-15 years
- Buildings 20-50 years
- Intangible assets with finite lives 3-10 years, for rights related to hydroelectric power production up to 50 years

A component of an item of property, plant and equipment with a significantly differing useful life and a cost that is significant in relation to the item is depreciated separately. At each financial year-end Hydro reviews the residual value and useful life of its assets, with any estimate changes accounted for prospectively over the remaining useful life of the asset.

### Specification of depreciation and amortization by asset category

Amounts in NOK million	2019	2018
Buildings	1,517	1,158
Machinery and equipment	6,514	5,705
Intangible assets	542	506
Depreciation and amortization expense	8,572	7,369

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# Note 2.5 Impairment of non-current assets

### Accounting policies for impairment of property, plant and equipment and intangible assets

Property, plant and equipment and intangible assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable, in accordance with IAS 36 Impairment of Assets. Goodwill and intangible assets with indefinite life are required to be tested for impairment annually, in addition to any tests required when impairment indicators are determined to be present. Hydro has elected to do the annual impairment test of goodwill in the fourth quarter. Exploration cost for undeveloped mining areas are assessed for impairment under IFRS 6 Exploration for and Evaluation of Mineral Resources.

When a Cash Generating Unit (CGU) or an asset is tested for impairment, the recoverable amount is estimated as the higher of the CGU's fair value less cost of disposal, or its value in use. The carrying amount is not recoverable if it exceeds the recoverable amount. An impairment loss is recognized in the amount that the carrying value exceeds its recoverable amount. Losses are reversed in the event of a subsequent increase in the recoverable amount of an impaired asset, however, impairment of goodwill is not reversed.

### Significant judgement in accounting for impairment of non-current assets

IAS 36 requires that Hydro assess conditions that could cause an asset or a CGU to become impaired. The identification of CGUs involves judgment, including assessment of where active markets exist, and the level of interdependency of cash inflows. For Hydro, the CGU is either the individual plant, a group of plants that forms an integrated value chain where no independent prices for the intermediate products exist, a group of plants that are combined and managed to serve a common market, or a group of assets where circumstances otherwise indicate significant interdependencies. Assessing which indicators that may cause a CGU to be impaired includes such conditions as Hydro's market capitalization, significant changes in Hydro's planned use of the assets or a significant adverse change in the expected sales volumes or margins, i.e. the combination of product prices, raw material cost and energy cost.

Directly observable market prices rarely exist for our assets. However, fair value may be estimated based on recent transactions on comparable assets, internal models used by Hydro for transactions involving the same type of assets or other relevant information. Calculation of value in use is a discounted cash flow calculation based on continued use of the assets in its present condition, excluding potential exploitation of improvement or expansion potential.

Determination of the recoverable amount involves management estimates on highly uncertain matters, such as commodity prices and their impact on markets and prices for upgraded products, development in demand, inflation, operating expenses and tax and legal systems. We use internal business plans, quoted market prices and our best estimate of long-term development in commodity prices, currency rates, discount rates and other relevant information. A detailed forecast is developed for a period of three to five years with projections thereafter. Hydro does not include a general growth factor to volumes for the purpose of impairment tests, however, cash flows are generally increased by expected inflation and, where market conditions are depressed, we consider whether full or partial market recovery towards previously observed volumes is justified. Estimated cash flows are discounted with a nominal risk adjusted discount rate.

### Tests performed in 2019 and 2018

Tests for impairment have been performed for all CGUs with mandatory annual tests and the CGUs where impairment indicators have been identified. The recoverable amount for these units have been determined estimating the Value in Use (VIU) of the asset and/or, if appropriate, its fair value less cost of disposal (FV), and comparing the highest of the two against the carrying value of the CGUs. The calculation of VIU has been based on management's best estimate, reflecting Hydro's business planning process. The discount rates are derived as the weighted average cost of capital (WACC) for a similar business in the same business environment. For Hydro's businesses the pre-tax nominal discount rate is estimated at between 5.5 percent and 16.5 percent (2018: 6.0-17.5 percent). The higher rates are applicable for assets within the Bauxite & Alumina and Primary Metal activities in Brazil, while the lower rates are applicable for assets within Extruded Solutions and Rolled Products in Europe.

Hydro has incurred the following impairment losses during 2019 and 2018:

Amounts in NOK million	2019	2018
Classification by asset category		
Impairment losses		
Property, plant and equipment	751	-
Intangible assets	161	_
Total impairment of non-current assets	912	-
Classification by segment		
Impairment losses		
Bauxite & Alumina	152	-
Primary Metal	506	-
Extruded Solutions	255	_
Total impairment of non-current assets	912	-

Goodwill is allocated to CGUs or groups of CGUs as shown in the following table:

Amounts in NOK million	2019	2018
Extrusion North America (Extruded Solutions)	2,469	2,442
Extrusion Europe (Extruded Solutions)	769	778
Building Systems (Extruded Solutions)	514	504
Precision Tubing (Extruded Solutions)	144	145
Bauxite & Alumina Operations	2,247	2,312
Remelters sector (Metal Markets)	407	404
Total goodwill	6,551	6,584

### **Annual mandatory impairment tests**

Extruded Solutions

Goodwill in Extruded Solutions is allocated to four groups of CGUs reflecting the way the business is managed to serve the relevant markets. The groups of CGUs are as follows:

Extrusion North America covers production plants, marketing and product development in the US and Canada. The operation consists of 21 production plants, recognized intangible assets and goodwill from Hydro's acquisition.

Extrusion Europe covers production plants, marketing and product development in Europe, mainly within the EU. The operation consists of 40 production plants, recognized intangible assets and goodwill from Hydro's acquisition.

Building Systems covers production plants, product warehouses, marketing and product development facilities, mainly in Europe, and sales and marketing offices covering a wider presence. The operation is present at 45 locations in 25 countries. The asset base consists of a limited number of production plants, several warehouses of differing size and complexity, three brands, other intangible assets and goodwill from Hydro's acquisition.

Precision Tubing covers production plants, marketing and product development on four continents. The operation consists of 15 production plants in South America, Asia, Europe and North America, recognized intangible assets and goodwill from Hydro's acquisition.

The impairment tests for all of the groups of CGUs described above are cash flow models expressed in nominal terms using forecasts for the first year based on internal business plans approved by management. Results and investment levels are kept at a reasonably stable level from that period, which is considered representative. Margins, volumes and investments are considered highly correlated, as high margin above the metal value is achieved through production of more complex products, requiring higher cost and/or more expensive equipment. We have thus not considered development in margins, cost and volume separately. Cash flows have been projected as terminal values beyond the five-year forecast period with a zero nominal growth assumed. Key assumptions are development in annual net cash flows, comprising volume and cost development in relevant market segments, as well as the discount rate.

The main assumptions and sensitivities are shown in the tables below. The sensitivities represent a stress test, identifying changes in each parameter which would result in a recoverable amount equal to the carrying amount of the CGU, while

keeping all other parameters unchanged. The changed parameter is applied for the entire period, including the terminal value. The decrease in annual cash flows does not represent a reasonably possible scenario developed by Hydro, as changes in the market resulting in significantly reduced cash flows for individual plants or the whole business unit is likely to be mitigated with measures to reduce costs, including sale or closure of production lines or plants similar to what is currently ongoing.

Amounts in NOK million	Extrusion North America	Extrusion Europe	Building Systems	Precision Tubing
			<u> </u>	
Carrying value of goodwill	2,469	769	514	144
Carrying value of other assets	6,818	8,065	3,237	2,701
Carrying value of CGU	9,287	8,834	3,751	2,845
Recoverable amount	10,150	16,378	11,987	3,466
Recoverable amount in excess of carrying value	863	7,545	8,236	621
Key assumptions:				
Terminal value growth	0.0%	0.0%	0.0%	0.0%
Discount rate	7.75%	5.5%	5.5%	8.25%
Stress test				
Discount rate - % change	9%	83%	205%	19%
Discount rate - % point	8.5%	10.0%	16.75%	10.0%
Annual reduction in net cash flow all years	8%	46%	67%	10%

#### Bauxite & Alumina

Goodwill in Bauxite & Alumina is allocated to a CGU consisting of the Alunorte alumina refinery, the main bauxite source Paragominas and certain related activities.

The recoverable amount has been determined based on a VIU calculation. Alunorte is currently operating at somewhat lower capacity utilization than the design capacity due to commissioning of the press filters used to prepare residue material for depositing. Eight filters were installed in 2018 and a ninth filters was installed at the end of 2019. The commissioning phase for the press filters was significantly delayed by the embargo imposed by the authorities, the final element of which was lifted in September 2019. A return to full capacity is assumed to be reached by the end of 2020.

Recoverable amount determined as a VIU calculation amounted to about NOK 32 billion. The value significantly exceeds the carrying value of NOK 23 billion. The calculation used cash flow forecasts in BRL based on internal plans approved by management covering a five-year period. All significant price assumptions are internally derived based on external references. Cash flows have been projected for the following 35 years based on the five-year detailed forecast period using Hydro's long-term assumptions for alumina prices and key raw material prices. The CGU is expected to remain in operation for at least the 40-year period. Improvements expected from certain planned equipment replacements are included. Further improvements are not included in the cash flow forecasts. Cash flows beyond the five-year period are inflated by the expected long-term inflation levels in Brazil and the main western economies.

The main assumptions to which the test is sensitive are shown in the table below:

	Assı	Assumptions	
	2020	Long-term	
Exchange rate BRL/USD	3.90		
Alumina price real terms 2019 (USD/mt)	306	340	
Production volume alumina (million mt)	6.0	6.3	
Discount rate nominal, pre-tax	16.5%	16.5%	

Significant cash flows are denominated in US dollars. These are translated to BRL at a rate of 3.90 for 2020 with an increase to a nominal rate of 4.44 in 2026. For future periods the exchange rate is projected with a rate development reflecting the inflation difference of 1.7 to 1.8 percentage points between international inflation and the higher expected Brazil specific inflation. With the estimated cash flows, the carrying amount of the CGU is recovered during a period of about 14 years.

The parameters presented below represent a stress test, identifying changes in each parameter which would result in a recoverable amount equal to the carrying amount of the CGU, while keeping all other parameters unchanged. The changed parameter is applied for the entire period, including the terminal value. The decrease in annual cash flows does not represent a reasonably possible scenario developed by Hydro. As the key parameters are interdependent, a change in the range indicated would not be expected to continue for the entire period of operation. If one of the key parameters were changed with no changes to the other assumptions, the estimated recoverable amount for the CGU would equal the carrying amount with the following long-term real 2019 assumptions over the entire 40-year period:

	% change	Value
Exchange rate BRL/USD	10%	
Alumina price, real term 2019 (USD/mt)	(6%)	321
Discount rate (% point)	23%	20.25%

### Other mandatory tests

For Metal Markets the impairment test on goodwill has been based on approved business plan for the next year, managements best estimate of cash flows for the following four years and extrapolated to a 15 years cash flow estimate, providing a VIU exceeding the carrying value.

Hydro also has indefinite life intangible assets of NOK 138 million related to the Vigeland power plant in Norway. This CGU is tested for impairment using a FV approach based on observed transaction values for power production assets in the Nordic region. The recoverable amount, estimated as a post-tax fair value, exceeds the carrying amount significantly.

### Impairment tests based on indications of loss in value

One primary aluminium plant, Slovalco, was tested for possible impairment at year-end 2019. The plant was also tested in the second quarter 2019 and at year-end 2018. The profitability of the plant is expected to be challenging going forward due to the weakening market environment combined with Slovalco's relatively high cost position and uncertainty related to the renewal of its power contract expiring at the end of 2021. The plant is currently curtailed by 20 percent in response to the weakening market environment. The recoverable amount was determined as VIU based on Hydro's internal assumptions for aluminium prices, raw material prices including energy, currency exchange rates and timing of cash flows. Contract prices are used for raw materials and energy for periods covered by specific contracts with external suppliers. For periods where such consumption is not yet contracted, or where internal supply of such items as alumina is expected, estimated market prices are used. The value in use is calculated as an expected value including a full restart of curtailed capacity, or a partial or full curtailment of the plant for an extended period. The estimated recoverable amount, using a discount rate of 9.75 percent, resulted in an expected recoverable amount of about NOK 725 million, which was below the carrying value of about NOK 1,225 million. Our testing has therefore resulted in an impairment of NOK 506 million, mainly related to property, plant and equipment.

Certain undeveloped bauxite resources held by Bauxite and Alumina was reviewed for possible future development, and one area was concluded not probable to be developed and thus the carrying value of NOK 145 million was written down as impaired. In addition, impairment losses of NOK 255 million have been recognized related to announced closure and sale of production facilities in Extruded Solutions.

# Note 2.6 Leases

### Accounting policies for leases

Hydro implemented IFRS 16 Leases as of January 1, 2019. IFRS 16 was implemented retrospectively with the cumulative effect of applying the standard recognized at the date of implementation. Hydro utilized the practical expedient available to not reassess whether contracts are or contain leases, and to measure leased assets previously accounted for as operating leases at an amount equal to the lease liability, adjusted for any prepaid or accrued lease payments, for close to all lease contracts. Leased assets with a remaining lease period of less than 12 months at transition are excluded from lease accounting. Further, leases of a sests of a low value (small asset leases), mainly such items as PCs, office equipment and similar, are excluded from lease accounting. When measuring leases, Hydro include fixed lease payments for extension periods reasonably certain to be used. As a practical expedient, non-lease components are not separated from lease contracts for most asset classes. For transportation assets, such as vessels used for transportation of material, the operating cost is a significant non-lease component, and is excluded from lease accounting. Variable lease payments, including service elements related to leases which are fully variable amounts, are recognized as operating expenses in the periods incurred.

The effects of implementation of IFRS 16 is explained in note 10.5 Changes in accounting principles and new pronouncements. Right-of-use assets are included in property, plant and equipment, see note 2.1 Property, plant and equipment. Lease liabilities are included in debt, see note 7.4 Short and long-term debt.

### Accounting principles applicable for the 2018 financial statements

Under IAS 17, applied for the 2018 financial statements, leases which transfer to Hydro substantially all the risks and benefits incidental to ownership of the leased item were identified using the guidance in IAS 17 Leases and IFRIC 4 Determining whether an Arrangement contains a lease. Such arrangements were capitalized as finance leases and included under Property, plant and equipment at the fair value of the leased asset, or, if lower, the present value of the minimum lease payments as of the later of date of inception of the lease or getting access to the services of the asset. The assets were depreciated over the shorter of the estimated useful life of the asset or the lease term. The liability was included in Long-term debt and amortized by the amount of the lease payment less the effective interest expense. All other leases were classified as operating leases with lease payments recognized as an expense over the term of the lease.

### Significant judgement in accounting for leasing

Significant judgment is required to determine whether some service contracts conveys the right to control an asset to Hydro, and thus is, or contains, a lease. Hydro has a limited number of such contracts; however, they do exist in some arrangements with service providers for maintenance services, transportation services, and some operational subcontractors. In assessing whether such contracts are leases, Hydro assesses both the share of the supplier's capacity for relevant assets as well as how decisions are made.

Judgment is also applied in assessing whether renewal options are reasonably certain to be utilized. In assessing such issues, Hydro considers such factors as the level of operational integration and dependency as well as historic practices for renewals.

For some contracts where all, or close to all, produced products are purchased by Hydro with no or very limited fixed payments, the contract may be deemed a lease with fully variable payments. Currently, Hydro has no significant such contracts.

### Hydro's leases

Hydro uses lease contract primarily where lease or rental contracts provide operational benefits or flexibility compared to owning assets. Leased land and buildings are used for warehouses, office space and certain other arrangements where the need for such space is of a temporary nature or where land and/or buildings are not available for purchase. This is the case in some countries, and also in co-locations with certain other businesses such as in port areas. Further, Hydro has a lease arrangement for its head office in Oslo, Norway, and certain other office locations where the location is independent of production facilities. Production equipment is leased or rented where the access to the specific assets is combined with significant services, for instance seaborn transport operated by the supplier/lessor. Operational services in combination with leasing of assets is also used for such services as maintenance activities, earth-moving operations, and certain other non-core services. Leasing or rental is in some instances also used for equipment operated by Hydro, often under contracts significantly shorter than the assets' useful life.

### **Implementation of IFRS 16 Leases**

The impact on transition is summarized in the table below.

Amounts in NOK million	January 1, 2019
Operating lease commitments at 31 Desember 2018 as disclosed under IAS 17 in the Group's consolidated financial statements	2,884
Discounted using the incremental borrowing rate at January 1, 2019	2,564
Recognition exemption for leases of low-value assets	(53)
Recognition exemption for leases with less than 12 months of lease term at transition	(28)
Extension options reasonably certain to be exercised	252
Service elements in combined contracts	298
Other	58
Lease liabilities recognised at January 1, 2019	3,092

The incremental borrowing rate used for discounting of lease liabilities as of January 1, 2019 varies from the range of 1-4 % in Europe to 9-15% in Brazil.

### Right-of-use assets

Amount in NOK million	Machinery and equipment	Buildings and land	Total
Balance at implementation of IFRS 16	2,055	1,636	3,691
Depreciations and impairment loss	(666)	(284)	(951)
Additions	446	70	516
Disposals	(14)	(15)	(29)
Other	17	9	26
Currency translation	(28)	(5)	(33)
Balance at December 31	1,810	1,410	3,220

Interest expense relating to lease recognized in the income statement for 2019 was NOK 206 million.

Leases expensed in the period amounts to NOK 319 million and refers to leases of short term, low value or leases with variable payments.

Total cash outflows for leases in 2019 was NOK 1.314 million.

Hydro has a limited amount of lease contracts not accounted for as right-of-use assets and lease liabilities at the balance sheet because they are exempted as small asset leases or short-term leases. Future minimum lease payments due under non-cancellable leases are NOK 142 million.

# Note 2.7 Other non-current assets

Amounts in NOK million	2019	2018
Equity securities at fair value through other comprehensive income	829	1,405
Securities at fair value through profit or loss	535	536
Employee loans	116	107
Derivative instruments	39	336
Income taxes, VAT and other sales taxes	2,535	2,576
Other receivables	764	759
Other non-current assets	4,817	5,720

# Section 3 – Investments in other companies

# Note 3.1 Investments in joint arrangements and associates

### Accounting policies for investments in joint arrangements and associates

Investments in associates and joint ventures

A joint arrangement is an entity, asset or operation that is subject to contractually established joint control. Special voting rights may extend control beyond what is conveyed through the owners' proportional ownership interest. Such rights may take the form of a specified number of board representatives, the right of refusal for important decisions, or the requirement of a qualified majority for important decisions which effectively results in joint control with the specific ownership situation. Joint ventures are joint arrangement which represents a residual interest in the arrangement rather than an interest in assets and responsibility for liabilities.

An associate is an equity investment in which Hydro has the ability to exercise significant influence, which is the power to participate in the financial and operating policy decisions of the entity. Significant influence is assumed to exist when Hydro owns between 20 and 50 percent of the voting rights unless other terms and conditions affect Hydro's influence.

Hydro accounts for investments in associates and participation in joint ventures using the equity method. This involves recognizing Hydro's interest based on its proportional share of the entity's equity, including any excess values and goodwill. Hydro recognizes its share of net income, including depreciation and amortization of excess values and any impairment losses, in Share of the profit (loss) in equity accounted investments. Other comprehensive income derived from associates and joint ventures is included in Hydro's Other comprehensive income. Hydro's proportional share of unrealized profits resulting from transactions with associates and joint ventures, including transfer of businesses, is eliminated. Accounting policies used by associates and joint ventures may differ from the accounting policies adopted by Hydro. Differences in recognition or measurement are adjusted for prior to equity accounting.

Investments in associates and joint ventures are tested for impairment when there are indications of a possible loss in value. An impairment loss is recognized if the recoverable amount, estimated as the higher of fair value less cost of disposal or value in use, is below Hydro's carrying value. Impairment losses are reversed if circumstances change and the impairment situation is no longer deemed to exist.

Loans to associates and joint ventures are presented as part of the investment. Loans are measured under IFRS 9 Financial instruments. Loans where contractual cash flows are only payments of principal and interest on specific dates are measured at amortized cost with expected credit losses provided for. Other loan arrangements are measured at fair value. Income and expenses related to loans are included in finance income and expense.

## Investments in joint operations and jointly owned assets

Joint operations are arrangements under contractually joint control where the joint operators have an interest in the assets; or benefits from the service potential of the assets; as well as have a direct obligation for the liabilities of the joint arrangement. Joint operations can result from the legal form of the arrangement or other facts and circumstances resulting in an interest in the service potential of the asset and obligation for liabilities. Jointly owned assets are arrangements where Hydro and the other partners have a direct ownership in specifically identified assets, but where joint control is not established. Hydro recognizes its share of assets, liabilities, revenues, if any, and expenses of joint operations and jointly owned assets on a line-by-line basis in the group financial statements.

Hydro is engaged in various arrangements on a joint basis with other companies. In assessing whether joint control exists for these arrangements we evaluate the legal framework and contracts governing the arrangement combined with an assessment of which decisions that significantly influence the return from the arrangement. Arrangements owned on a 50/50 basis and/or governed by unanimous decisions constitute the majority of our joint arrangements.

Most of our joint arrangements are joint production facilities supplying metal and other products for Hydro's value chain. Hydro assesses whether joint arrangements are joint operations where Hydro has a direct interest in the assets and direct liability to settle obligations, directly or indirectly, or a joint venture where we have an interest in the net assets of the joint arrangement. In this assessment we evaluate the contracts governing the arrangement and the legal framework for the type of entity in which the arrangement is operated. Hydro is engaged in both joint arrangements that are considered joint ventures, and arrangements that are concluded to be joint operations.

### Hydro's joint operations

Of our joint operations, two are classified as joint operations based on the legal form of the operations. These are Tomago, an aluminium smelter in Australia, and Skafså ANS, a power producer in Norway. Another two arrangements are classified as joint operations based on the contractual arrangements whereby all output is sold to the shareholders in proportion to their ownership interest at a cost based price formula. The major or sole sources of cash inflows for the joint arrangements are the

Qatalum

owners, who are legally obliged to cover production costs. These are Aluminium Norf GmbH (Alunorf), a large rolling mill in Germany, and Aluminium & Chemie Rotterdam B.V., Aluchemie, an anode producer in the Netherlands.

### Hydro's joint ventures

The following joint venture is considered material for Hydro:

Qatar Aluminium Ltd. (Qatalum) is a primary aluminium smelter with a dedicated power plant located in Qatar. Qatalum has an annual production capacity of about 600,000 mt of liquid metal. Qatalum is owned by Hydro and Qatar Aluminium Manufacturing Company Q.P.S.C. (50 percent each). During 2018, Qatar Petroleum, which previously held 50 percent of the shares in Qatalum, transferred its shares to the newly established Qatar Aluminium Manufacturing Company, which was listed on the Qatar Stock Exchange, but which Qatar Petroleum retains a controlling interest in. Qatalum was at the outset granted a ten-year income tax holiday, expiring in 2020. A tax reform came into effect from 2010, which introduced a generally applicable corporate income tax rate of 10 percent. A tax rate of 35 percent applies to entities with oil and gas operations or where the activities are carried out under an agreement with the government or entities owned by the government, unless such agreement specifies another tax rate. According to the Qatalum joint venture agreement, the generally applicable tax rate will apply after expiry of the tax holiday in 2020. It is Hydro's position that the generally applicable income tax rate, currently at 10 percent, shall apply to Qatalum after the expiry of the tax holiday.

Qatalum's loan agreement contains a dividend restriction on dividend payments after July 2020. Qatalum is currently in the process of refinancing this loan facility.

Hydro is committed to sell fixed quantities of alumina and purchase all products from Qatalum at market prices. Purchases of metal from Qatalum amounted to NOK 11,678 million in 2019 and NOK 11,980 million in 2018. Related payables amounted to NOK 1,199 million in 2019 and NOK 1,052 million at the end of 2018. Sales from Hydro to Qatalum amounted to NOK 2,110 million in 2019 and NOK 2,761 million in 2018, primarily alumina. Related receivables amounted to NOK 131 million and NOK 3 million at the end of the periods. Qatalum is part of Primary Metal.

The table below summarizes key figures for this joint venture for 2019 and 2018. The figures are on the same basis as used for inclusion in the group financial statements. Fair value adjustments from Hydro's contribution of assets to the joint venture are included. Intercompany transactions and balances are included, and internal profit and loss in inventory and fixed assets purchased from group companies are not eliminated in the numbers below. All amounts are for the joint venture on 100 percent basis. Balance sheet amounts are at the end of the years 2019 and 2018.

	Qat	aiuiii
	Year/yea	
	2019	2018
Amounts in NOK million		restated
Revenue	11,971	12,309
Depreciation, amortization and impairment	2,142	2,139
Earnings before financial items and tax	1,094	1,929
Financial income (expense), net <sup>1)</sup>	(554)	(484)
Net income (loss)	540	1,445
Other comprehensive income	45	151
Total comprehensive income	584	1,596
Cash and cash equivalents	2,401	2,543
Other current assets	4,512	4,625
Non-current assets	30,832	32,523
Current financial liabilities	1,816	2,094
Non-current financial liabilities	11,453	13,386
Other liabilities	1,649	1,789
Net assets	22,828	22,423
Hydro's share of net assets	11,414	11,211
Accumulated elimination of internal gain in inventory	25	64
Carrying value of Hydro's equity investment	11,439	11,276
Total investment	11,439	11,276

<sup>1)</sup> Financial income (expense), net includes interest expense for Qatalum with NOK 449 million and NOK 492 million for 2019 and 2018, respectively.

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Hydro held an ownership interest in Technal Middle East W.L.L, a joint venture owned 50 percent each by Hydro and Bahrain Aluminium Extrusion Company B.S.C. In May 2019, Hydro acquired the additional 50 percent in Technal Middel East, now a fully owned subsidiary.

Hydro also holds interests in certain associates accounted for using the equity method, of which the most significant is Corvus Energy Holding AS, a company producing battery solutions for ships in Canada and Norway. The following table provides a summary of changes in carrying value for Hydro's joint ventures and associates.

Amounts in NOK million	Qatalum	Other JVs	Associates	Total
December 31, 2017	10,930	240	52	11,221
Hydro's share of net income (loss)	723	54	(19)	758
Hydro's share of other comprehensive income	75	(3)		72
Dividends and other payments received by Hydro	(1,173)	(46)		(1,219)
Companies acquired/(sold), net			25	25
Amortization		(2)	(15)	(17)
Loans		10		10
Changes elimination of internal gain in inventory	150			150
Foreign currency translation and other	571		(1)	570
December 31, 2018	11,276	252	42	11,570
Hydro's share of net income (loss)	270	18	(15)	274
Hydro's share of other comprehensive income	22			22
Dividends and other payments received by Hydro	(193)	(29)		(222)
Companies acquired/(sold), net			49	49
Amortization		(1)	(14)	(14)
Changes elimination of internal gain in inventory	(39)			(39)
Derecognized at acquisition of control		(232)		(232)
Foreign currency translation and other	104	(8)	(3)	93
December 31, 2019	11,440	1	60	11,501

# Section 4 – Uncertain assets and liabilities

## Note 4.1 Uncertain assets and liabilities

## Accounting policies for uncertain liabilities resulting in provisions, contingent liabilities

Provisions are recognized when Hydro has a present obligation (legal or constructive) as a result of a past event and it is probable (more likely than not) that Hydro will be required to settle the obligation. Uncertain outcomes are measured as the expected value of reasonably possible outcomes. The provision is measured as the present value of the cash flows estimated to settle the obligation. Expected cash flows are discounted with a risk-free interest rate, usually a government bond rate.

A contingent liability is a possible obligation that arises from a past event, with the resolution of the contingency dependent on uncertain future events, or a present obligation where no outflow is probable. Contingent liabilities are not recognized on the balances sheet, the existence of such contingent liabilities and, if estimable the approximate size, are disclosed unless the possibility of an outflow of economic resources is remote.

### Asset retirement obligations

Hydro recognizes liabilities for the estimated fair value of asset retirement obligations (ARO) relating to assets where such obligations exists, in the period incurred in accordance with IAS 37 Provisions, Contingent Liabilities and Contingent Assets. The provision is estimated as the present value of costs relating to the restoration or rehabilitation of industrial or mining sites and/or dismantlement or removal of buildings or other assets. The liability is recognized when an asset is constructed and ready for use or when the obligation is incurred if imposed at a later date. Related asset retirement costs are capitalized and depreciated over the useful life of the asset. Accretion expense is recognized for the change in the present value of the liability and classified as part of Financial expense. Other changes to estimated fair value of ARO are recognized when identified. The increase or reduction to the liability is recognized as an increase or reduction of the value of the asset unless the asset is no longer in use, in which case the change is recognized in operating expenses. Liabilities that are conditional on a future event (e.g. the timing or method of settlement) are recognized when the value of the liability can be reasonably estimated.

### Exit and disposal costs

Hydro recognizes a provision in the amount of the direct costs associated with an exit and/or disposal activity when a formal commitment to a detailed exit plan is made and communicated to those affected. A provision for termination benefits to employees is recognized as of the date of notification to individual employees or their representatives.

### Accounting policies for uncertain assets

Assets where the existence of an asset or Hydro's control with the resources is less than virtually certain are contingent assets. Contingent assets are not recognized.

### Significant judgment in accounting for contingent assets and liabilities, uncertain assets and liabilities

Evaluation of uncertain liabilities and contingent liabilities and assets requires judgment and assumptions regarding the probability of realization and the timing and amount, or range of amounts, that may ultimately be incurred. Such estimates may vary from the ultimate outcome as a result of differing interpretations of laws and facts.

In relation to perceived non-compliance with laws and regulations, authorities, non-governmental organizations, or others may claim that Hydro is responsible for mitigating actions and compensation. The legal basis for such claims as well as cost calculation and other aspects can be difficult to assess.

Hydro's industrial and mining activities are subject to a wide range of environmental laws and regulations, including end-of-life remediation regulations. The extent of site and off-site contamination, the remediation methods and requirements that relevant environmental authorities may impose, are uncertain. The long-term use of sites, with increasing awareness of effects of contamination in society, a generally lower acceptance of contamination in communities over time, as well as changes in remediation methods and requirements, contribute to the uncertainty in assessing and measuring such obligations. Remediation and closure activities expected to be conducted far into the future are less accurately measured than near-term planned activities. Consequently, there is significant uncertainty inherent in the estimates.

Indirect tax regimes are complex in many jurisdictions and cross-border. Basis for such taxes may differ from actual transaction prices. In some jurisdictions, including Brazil, significant credit amounts are generated for use against future indirect and/or income tax payments. Repayment in cash is made subject to a set of conditions, including availability of funds at the tax authorities, and cannot be expected on a regular basis. The value of such credits depends on future generation of taxes. Economic conditions and tax regulations may change and lead to a different conclusion regarding recoverability. Tax authorities may challenge Hydro's calculation of taxes and credits from prior periods. Such processes may lead to changes to prior periods' operating or financial expenses to be recognized in the period of change.

#### **Provisions**

		2019		2018		
Amounts in NOK million	Short-term	Long-term	Total	Short-term	Long-term	Total
Environmental clean-up and asset retirement obligations (ARO)	702	4,110	4,813	563	3,737	4,299
Employee benefits	1,142	708	1,851	1,151	762	1,913
Indirect taxes	99	379	478	202	393	595
Rationalization and closure cost	705	495	1,200	88	-	88
Other	647	822	1,470	1,278	695	1,973
Total provisions	3,296	6,515	9,811	3,281	5,588	8,868

The following table includes a specification of changes to provisions for the year ending December 31, 2019.

Amounts in NOK million	Environmental clean-up and ARO	Employee benefits		ationalization I closure cost	Other	Total
Specification of change in provisions						
December 31, 2018	4,299	1,913	595	88	1,973	8,868
Additions	859	1,293	15	1,289	487	3,944
Used during the year	(529)	(1,182)	(11)	(97)	(846)	(2,665)
Reversal of unused provisions	(30)	(159)	(110)	(80)	(138)	(517)
Accretion expense and effect of change in discount rate	270	1	-	4	4	279
Foreign currency translation	(56)	(15)	(12)	(5)	(11)	(98)
December 31, 2019	4,813	1,851	478	1,200	1,470	9,811

Provisions for environmental clean-up and asset retirement obligations relate to production facilities currently in operation and facilities that are closed. The obligations relate to such actions as restoration or rehabilitation of industrial or mining sites, disposal of contaminated material and related activities. Hydro has provided for demolition of buildings and installations only where there is a legal or contractual obligation, or a specific decision to demolish, which is the case for few sites. The provision represents the present value of expected outflows at the times of expected payments. There is significant uncertainty both in the timing and amount of these remediation actions, as they are linked to future business decisions as well as decisions and approval by authorities in the jurisdictions we operate. Provisions are based on the current legal framework.

The most significant provisions relate to the following sites and issues. For Bauxite & Alumina's mine in Brazil we have obligations to remediate the tailing areas and mining sites, including reforestation of the area and monitoring and maintenance of the site after initial remediation. For Bauxite & Alumina's alumina refinery in Brazil we have obligations to remediate bauxite residue deposits, including monitoring the contamination levels and other aspects after initial remediation. Some activities related to these obligations are currently ongoing. For Primary Metal's closed Kurri Kurri smelter site in Australia we have obligations to remediate certain contaminated areas at the site as well as securing appropriate deposit of spent pot lining and certain other waste material, which is currently ongoing. The plan for remediation is under discussion with the authorities, though not yet approved. Further, Hydro has provided for various remediation obligations in Extruded Solutions related to both closed sites, whether previously operated or not, and for some currently active sites. Hydro also has obligations for remediation of contamination on site and in related areas related to historic industrial activities in Germany and Norway, reported in Other and eliminations. The more significant of these sites are the sites in Schwandorf and Hannover in Germany and the Grenland area in Norway. For many of these provisions, there are no standard remediation methods available and cost is therefore uncertain. The provision also includes remediation of spent pot lining in all active smelters, site clearance for certain leased land as well as certain liabilities related to Norwegian power plant concessions to be reverted to the Norwegian Government.

Provisions for employee benefits relate to expected short-term performance bonus payments and short and long-term provisions for expected bonus payments that are based on the number of years of service, primarily for our European operations. Such bonuses are expected to be paid in periods between 10 to 50 years of service, or upon termination of employment.

Indirect taxes include taxes not related to taxable income, such as value added taxes, duties and property taxes. Provision for indirect taxes includes a charge related to a customs case in Germany and provisions for indirect taxes in Brazil.

Rationalization and closure cost includes provisions for the improvement program in Rolled Products aiming at significant efficiency gains and cost reductions. The main costs with this project are related to employee reductions. Further, Extruded Solutions has provided for costs related to plant closures and employee reductions to reduce their footprint in response to challenging market conditions.

Other includes insurance provisions related to insurance contracts issued by Hydro's captive insurance company, Industriforsikring AS, to external parties including associates and joint arrangements, provisions for legal and other disputes, certain liabilities related to representation and warranty provisions related to sale of businesses, as well as provision for a compensation for exit of a rental contract for premises.

Hydro has also entered into agreements with authorities in Pará, Brazil, in relation to the operations of the alumina refinery, Alunorte. The contracts regulate certain technical studies and improvements of operational security, audits, fines and payments for food cards to families living in the hydrographic area of the Murucupi River. In addition, Hydro has committed to additional efforts and investments related to the social development of communities in Barcarena. About NOK 600 million was provided for in 2018, with an additional NOK 70 million provided in 2019. About NOK 140 million has been spent on activities under these agreements in 2019. In addition, Hydro has committed to provide support to local societies close to the plant, which are expensed as incurred, and to certain investments in improved water treatment facilities and certain monitoring systems which are capitalized.

### Contingent liabilities and contingent assets

Hydro is involved in or threatened with various legal and tax matters arising in the ordinary course of business. Where Hydro considers an obligation to be possible, i.e. not probable yet not remote, it is disclosed as a contingent liability.

Hydro is involved in a significant number of tax cases related to various types of taxes. Hydro's businesses in Brazil have a large portfolio of cases disputed by tax authorities, of which the majority relates to indirect taxes. This includes cases in the administrative and legal dispute systems with various background and risk of loss. In total known cases amount to about NOK 4.3 billion, of which about NOK 3.2 billion is considered possible. About half of those amounts are covered by tax indemnifications from acquisition. The final outcome of these cases is not expected until several years into the future, and is highly uncertain. Additional cases may be raised by tax authorities based on tax declarations for periods not yet assessed, or when interpretation of tax regulations change. Hydro has provided for individual tax cases where the risk of loss is considered above 50 percent. Provisions for indirect taxes are included in provisions disclosed above, while provisions for income tax expenses are included in Taxes payable.

Hydro has environmental liabilities related to several sites and issues. Where remediation is acknowledged as Hydro's responsibility or a legal obligation is deemed to exist, a provision for the best estimate of costs to be incurred is established. For many of our industrial sites, in particular sites where operation is expected to continue indefinitely, remediation costs are difficult to assess. The precise need for remediation actions, their timing and cost has not yet been planned, and is thus uncertain. For some sites, the exact level of pollution may also be uncertain as ground and water are not sampled where no indication of contamination is identified. Obligations for historic contamination of sites and surrounding areas in addition to areas provided for may be identified and deemed Hydro's responsibility, whether related to currently owned or used sites, or sites we previously have owned and/or used. The cost of remediation of any additional contamination deemed Hydro's responsibility is uncertain.

Authorities and non-governmental organizations have filed several lawsuits related to the Alunorte incident, claiming a combination of mitigating actions and financial compensation. The argumentation, cost calculation and legal basis for these claims is highly uncertain. Further claims may still be received. Given the limited information about claimed physical and moral damages to be compensated, and the extent and cost of mitigating actions claimed, or the extent or content of other potential claims and lawsuits, it is not possible at this time to provide a range of possible outcomes or a reliable estimate of potential future exposure for Hydro. It is further not possible to estimate the timing of when such claims may be determined or when any payments may arise.

Hydro is also exposed to increased product warranty and product liability responsibilities, both as result of contractual commitments and caused by liability under background law. Product warranty and product liability may impose significant costs depending amongst other things on the application of the product sold.

Hydro is exposed to legal cases based on contractual or other basis, including related to contract delivery or purchase obligations or warranties and representations given in relation to sale of businesses. Where a payment is probable, a provision for the likely amount is recognized.

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# Section 5 – Income and expenses

## Note 5.1 Revenue from contracts with customers

### Accounting policies for revenue recognition

Hydro accounts for revenue in accordance with IFRS 15 Revenue from Contracts with Customers.

IFRS 15 requires us to, for each contract with a customer, identify the performance obligations, determine the transaction price, allocate the transaction price to performance obligations to the extent the contract covers more than one performance obligation, determine whether revenue should be recognized over time or at a point in time, and, finally, recognize revenue when or as performance obligations are satisfied.

A performance obligation is satisfied when or as the customer obtains control with the goods or services delivered.

Revenue from sale of physical products are recognized when control is transferred to the customer, which usually occurs at delivery.

A contract for sale of electricity is considered one performance obligation and recognized as electricity is delivered to customers through the relevant grid.

Margins related to the trading of derivative commodity instruments, including instruments used for risk management purposes, purchase or delivery of physical commodities on a commodity exchange, and physical commodity purchases and sales agreed in combination with a single counterpart, are presented on a net basis in the income statement with trading margins included in revenues.

### Significant judgment in accounting for revenue

The significant judgment in applying IFRS 15 for Hydro is related to which contracts that qualify for recognition over time, versus recognition at a point in time; at delivery to customer.

Hydro's main performance obligations can be described as follows:

- sale of products, produced independent of customer orders
- sale of products, produced to customer order
- sale of products made to customer specifications and order
- sale of electricity

For products which are not made to the customer's specification, performance obligations are either the individual product, the delivery in total, or an agreed volume of products delivered in more than one delivery. Contracts covering a fixed, committed volume at fixed or determinable prices are relevant for this assessment. Delivery period for such contracts can cover a period of a few weeks, and up to one year. Some contracts cover more than one year, however, these are a declining number. Prices are usually a combination of fixed elements and market references such as the aluminium price at the London Metal Exchange or other market references, at, or prior to, delivery. Revenue related to products that are not made to the customers' specification is recognized at delivery of products to customers. Such contracts accounts for the majority of sales in the segments Bauxite & Alumina, Primary Metal, Metal Markets and Rolled Products, and a significant share of sales in Extruded Solutions. Some of these contracts includes an element of freight services, which is considered a separate performance obligation under IFRS 15, and related revenue is recognized over the time of journey.

For products made to customer specifications and orders, we have assessed whether the finished product has an alternative use to Hydro, and whether Hydro at all times has an enforceable right to payment for performance completed to date. For contracts where both of these conditions are fulfilled, revenue shall be recognized over the time from start of production of the specialized product until completion of delivery to the customer. For Hydro's products, the alternative use of customer designed products would, in most cases, be as basis for producing other products rather than for sale of the product unchanged. We have assessed whether Hydro has an enforceable right to payment for performance completed to date, including a reasonable margin, throughout the production period. The assessment is primarily related to the segment Extruded Solutions. The main assessment is related to which compensation Hydro would be entitled to in a situation where firm orders are canceled or amended by the customer. Our conclusion is that for close to all contracts we do not have enforceable right to payment as described in IFRS 15, and revenue is thus recognized at a point in time. However, as our conclusions depends both on legal assessment of a large number of contracts in many countries, and on the understanding of what constitutes an enforceable right to payment under IFRS 15, we might reach a different conclusion in the future for some contracts, or for new contracts covering similar products and customer segments entered into in the future. Also for these contracts, prices are fixed at the time of delivery.

### Payment and warranty terms

Payment terms for products vary between customer segments and regions. The predominant terms vary between 30 to 60 days, and up to 180 days in some markets.

Hydro's warranty terms vary by product and business segment. Generally, Hydro provides warranty that product complies with specification, and offer repair, replacement or refund of consideration paid for breaches. Such warranties are limited in time, for most products not exceeding 12 months. Individual contracts may include more extensive warranty clauses where Hydro takes responsibility also for some consequential damages, mainly related to more complex products such as certain automotive parts. Warranty liability is to some degree influenced by legal requirements, which may extend the time period for Hydro's liability.

### Other information

Sale of electricity, primarily from the Energy segment, is recognized as electricity is delivered to customers through the relevant grid. Sale of energy from other segments represent excess energy purchased under contracts exceeding the operational needs, and relate to periodic maintenance stops or curtailment. During 2019, power sale from other segments than Energy is related to the 50 percent curtailment in Primary Metal's Albras plant for parts of the year, amounting to NOK 337 million for 2019 and NOK 1,429 million for 2018. Revenue from sale of energy includes the revenue from sale of concession power, a legal requirement to deliver a certain part of volume produced in Norway to local authorities at a reduced price. Revenue from concession power amounted to NOK 73 million and NOK 78 million in 2019 and 2018, respectively.

Realized and unrealized changes in fair value of commodity derivatives are also presented as part of revenue. These amounts are measured at fair value as required by IFRS 9 Financial Instruments. The instruments are mainly aluminium and power contracts used for risk management purposes, and are included in Other revenue in the table below.

Hydro's revenue divided by segment and geographic location of the customer is shown in note 1.4 Operating and geographic segment information. Revenue divided by product type for the main product groups sold are as follows:

Amounts in NOK million	2019	2018
Extruded solutions	58,555	61,367
Rolled products	25,768	26,538
Standard ingots	9,872	8,997
Extrusion ingots	20,118	22,030
Other casthouse products	16,791	17,804
Alumina	10,037	11,322
Power	3,018	5,021
Other goods and services <sup>1)</sup>	5,170	5,333
Total revenue from contracts with customers	149,328	158,411
Other revenue	438	965
Total revenue	149,766	159,377

<sup>1)</sup> Includes sale of bauxite and revenue from allocated freight

### Sales commitments

Hydro has entered into sales contracts with customers, mainly for aluminium products and alumina, either as firm commitments or as committed frame agreements where the customer decides if, and for which volume, a future sale is made. The majority of these contractual commitments are for sale of products at price terms linked to market prices at, or close to, future delivery. The commitments amount to NOK 61 billion, calculated using market prices as of the end of the year. About NOK 15 billion of this amount is expected to be delivered in 2020.

## Note 5.2 Other income

### Accounting policies for Other income, net

Transactions resulting in income from activities other than normal production and sales operations are classified as Other income, net. This includes gains and losses resulting from the disposal of PP&E and intangible assets, investments in subsidiaries, associates or joint ventures as well as government grants, insurance compensation, and rental revenue. Other income, net also includes revenue from utilities, which is revenue from contracts with customers accounted for in accordance with IFRS 15.

#### Government grants

Government grants are recognized in accordance with IAS 20 Accounting for Government Grants and Disclosure of Government Assistance. Grants are recognized when there is a reasonable assurance that Hydro will comply with relevant conditions and that the grants will be received. Government grants are deferred in other non-current liabilities until the associated activity is performed or expenses recognized. Investment grants are recognized over the period the associated asset is depreciated. All government grants are recognized in Other income, net. Investment grants are included in Investing activities in the statement of cash flows.

Amounts in NOK million	2019	2018
Gain on sale of property, plant and equipment and intangible assets	99	37
Net gain (loss) on sale of subsidiaries, associates and joint ventures	43	(6)
Revenue from utilities <sup>1)</sup>	67	58
Rental revenue	58	45
Government grants <sup>2)</sup>	329	380
Other <sup>3)</sup>	403	259
Other income, net	1,000	772

- 1) Revenue from utilities includes quay structures, pipe network, tank terminal, process water and grid rental.
- 2) Government grants includes export grants in Brazil, CO2 compensation and investment grants related to Hydro's pilot facility on Karmøy
- 3) Other includes insurance compensations.

# Note 5.3 Raw material and energy expense

Amounts in NOK million	2019	2018
Raw material expense and production related cost	95,729	105,118
Change in inventories own production	1,745	(2,596)
Raw material and energy expense	97,474	102,523

Raw material expense and production related cost include effect of commodity derivative instruments. See note 8.3 Derivative instruments and hedge accounting.

# Section 6 – Specification of operating capital elements

## Note 6.1 Inventories

### Accounting policies for inventories

Inventories are valued at the lower of cost, using the first-in, first-out method (FIFO), or net realizable value. Net realizable value is the estimated selling price in the ordinary course of business less estimated costs of completion and selling costs. Inventory cost includes direct materials, direct labor and a portion of production overhead (manufactured goods) or the purchase price of the inventory. Abnormal amounts of idle facility expense, freight, handling costs, and wasted materials are recognized as expense in the current period. Inventory write-downs to net realizable value occurs when the cost of the inventory is not recoverable, and is reversed in later periods if there is clear evidence of an increase in the net realizable value.

Amounts in NOK million	2019	2018
Spare parts and raw materials	5,540	6,086
Work in progress	4,257	5,710
Alumina	1,385	2,977
Aluminium casthouse products	5,776	7,394
Fabricated products	3,858	4,316
Inventories	20,816	26,483

Raw materials includes purchased raw materials such as bauxite, caustic soda, oil, coal and other input factors used in the production; however, excluding alumina and aluminium intended for use in Hydro's production of other products. All amounts are net of any write-downs.

## Note 6.2 Trade and other receivables

### Accounting policies for trade receivables

Trade receivables are initially recognized at transaction price, subsequently accounted for at amortized cost and are reviewed for impairment on an ongoing basis. Individual accounts are assessed for impairment taking into consideration indicators of financial difficulty and management assessment. Portfolios of trade receivables where expected losses are more than insignificant are reduced for those expected losses. Discounting generally does not have a material effect on trade receivables, however, in special cases discounting may be applied. Hydro's business model for most trade receivable is to hold the receivables to collect the contractual cash flows. For some portfolios of trade receivables, factoring is applied.

Amounts in NOK million	2019	2018
Trade receivables	15,225	17,144
VAT and other sales taxes	1,486	1,578
Other current receivables	2,642	2,170
Allowance for credit losses	(394)	(149)
Trade and other receivables	18,959	20,743

Of total trade receivables at year end 2019, about 12 percent were past due, with the majority within 30 days. The Extruded Solutions segment has the majority of overdue receivables.

# Note 6.3 Trade and other payables

Amounts in NOK million	2019	2018
Accounts payable	14.432	16,361
Payroll and value added taxes	3,151	2,901
Accrued liabilities and other payables	1,109	1,120
Trade and other payables	18,692	20,381

# Section 7 – Capital management and cash management

# Note 7.1 Capital management

Hydro's capital management policy is to maximize value creation over time, while maintaining a strong financial position and an investment grade credit rating. During 2019 net cash provided by operating activities was close to net cash used in investing activities plus dividends paid.

### **Credit rating**

To secure access to capital markets at attractive terms and remain financially solid, Hydro aims to maintain an investment grade credit rating from the leading agencies, Standard & Poor's (current rating BBB, stable outlook) and Moody's (current rating Baa2, negative outlook). Hydro targets, over the business cycle, a ratio of Funds from operations to average adjusted net cash (debt) of at least 40 percent, and an Adjusted net cash (debt) to Equity ratio below 55 percent.

### Funding

Hydro manages its funding requirements centrally to cover group operating requirements and long-term capital needs.

Hydro has an ambition to access national and international capital markets as primary sources for external long-term funding.

Hydro has a syndicated USD 1,600 million revolving credit facility maturing in December 2024, with two one-year extension options. The facility was undrawn per year-end 2019.

### Funding of subsidiaries, associates and jointly controlled entities

Normally the parent company, Norsk Hydro ASA, extends loans or equity to wholly-owned subsidiaries to fund capital requirements. All financing is executed on an arm's length basis. To the extent Hydro offers loans to part-owned subsidiaries and investments in associates and joint arrangements, the policy is to participate according to Hydro's ownership share, on equal terms with the other owners. Project financing is used for certain funding requirements mainly to mitigate risk while also considering partnership and other relevant factors.

Trade finance products such as factoring and reverse factoring are used to some extent by subsidiaries, mainly to facilitate risk mitigation in specific trade relations or markets. Hydro has internal guidelines limiting the use of such instruments to where it adds commercial value, as these instruments should not be used as a source for funding. Hydro has set a total limit for such arrangements including any type of sales of receivables. The limit is currently NOK 5 billion, but it is not fully utilized.

### Shareholder return

Long-term return to shareholders should reflect the value created by Hydro, and consists of dividends and share price development. Hydro aims to provide its shareholders with a competitive return compared with alternative investments in similar companies. Our ambition is in the long term to pay out, on average, 40 percent of net income as ordinary dividend over the cycle to our shareholders. The dividend policy has a floor of an annual dividend of NOK 1.25 per share. Dividends for a particular year are based on expected future earnings and cash flow, future investment opportunities, the outlook for world markets and Hydro's current financial position. Share buybacks or extraordinary dividends may be used to supplement ordinary dividends during periods of strong financial results after considering the status of the business cycle and capital requirements for future growth.

## Hydro's capital management measures

Hydro's management uses the Adjusted net cash (debt) to Equity ratio to assess the group's financial solidity and ability to absorb volatility in the markets. Net cash (debt) is defined as Hydro's cash and cash equivalents plus short-term investments, less short- and long-term interest-bearing debt. Adjusted net cash (debt) is adjusted for net cash (debt) positions regarded as unavailable for servicing debt, and includes pension liabilities and other obligations which are considered debt-like in nature. The calculation of Adjusted net cash (debt) changed when IFRS 16 Leases was implemented as of January 1, 2019. Recognized lease liabilities were included in Net cash (debt), and the adjustment for operating lease commitments, net of expected income tax benefit, was no longer relevant.

The ability to generate cash compared to financial liabilities is another important measure of risk exposure and financial solidity. Hydro's management uses Funds from operations and the ratio Funds from operations to average Adjusted net cash (debt) as capital management measures. The ratio definition has changed to use a four-quarter rolling average of Adjusted net cash (debt). The previous methodology considered the year-end value only. The updated ratio definition also reflects variations in Adjusted net cash (debt) during the year. The 2018 value has been restated accordingly. Funds from operations reflects the cash generation from Hydro's wholly and partly owned operating entities before changes in net operating capital, including the contribution from equity accounted investments, and after current tax expense.

Both financial ratio calculations include adjustments for the indebtedness of Hydro's equity accounted investments. Though Hydro has no financial obligations towards the lenders of its equity accounted investments, the adjustments are considered relevant as the debt and cash flow level in these entities affect Hydro's overall cash generation and financial risk profile.

Adjusted net cash (debt), Equity, Funds from operations and the above mentioned financial ratios are presented in the following table.

### Adjusted net cash (debt) including net debt equity accounted investments (EAI)

	Dec 31	Sep 30	Jun 30	Mar 31	Dec 31	Sep 30	Jun 30	Mar 31
Amounts in NOK million	2019	2019	2019	2019	2018	2018	2018	2018
					As reported			
Cash and cash equivalents	12,286	10,581	10,590	6,099	5,995	6,846	5,682	9,371
Short-term investments	969	929	1,090	1,274	975	1,176	1,136	1,031
Bank loans and other interest-bearing short-term debt	(6,157)	(6,074)	(8,177)	(8,913)	(8,543)	(6,607)	(4,969)	(5,269)
Long-term debt	(18,858)	(19,985)	(18,620)	(10,559)	(7,080)	(7,886)	(9,377)	(8,746)
Net cash (debt)	(11,760)	(14,549)	(15,117)	(12,099)	(8,653)	(6,471)	(7,528)	(3,612)
Cash and cash equivalents and short-term investments in captive insurance company <sup>1)</sup>	(876)	(899)	(944)	(879)	(876)	(968)	(1,059)	(1,026)
Net pension obligation at fair value, net of expected income tax benefit $\!\!^{2)}$	(8,601)	(10,282)	(8,757)	(8,414)	(8,813)	(6,419)	(6,998)	(7,517)
Operating lease commitments, net of expected income tax benefit $^{3)}$					(1,708)	(1,585)	(1,585)	(1,585)
Short- and long-term provisions net of expected income tax benefit, and other liabilites $\!\!\!^{(4)}$	(4,209)	(3,876)	(3,087)	(3,001)	(3,077)	(2,938)	(3,040)	(3,150)
Adjusted net cash (debt)	(25,447)	(29,606)	(27,905)	(24,394)	(23,127)	(18,380)	(20,209)	(16,890)
Net debt in EAI <sup>5)</sup>	(5,537)	(5,376)	(5,386)	(5,737)	(5,584)	(5,648)	(5,658)	(5,666)
Adjusted net cash (debt) including EAI	(30,984)	(34,982)	(33,291)	(30,131)	(28,711)	(24,028)	(25,868)	(22,556)

### Adjusted net cash (debt) including EAI / Equity

NOK million, except ratio	2019	2018
Total equity	(84,081)	(90,769)
Adjusted net cash (debt) including EAI / Equity	0.37	0.32

<sup>1)</sup> Cash and cash equivalents and short-term investments in Hydro's captive insurance company Industriforsikring AS are assumed to not be available to service or repay future Hydro debt, and are therefore excluded from the measure Adjusted net cash (debt).

<sup>2)</sup> The expected income tax benefit related to the net pension liability is NOK 1,821 million and NOK 1,673 million, respectively, for 2019 and 2018.

<sup>3)</sup> The adjustment for operating lease commitments was relevant prior to implementing IFRS 16 Leases as of January 1, 2019. The adjustment was net of expected income tax benefits and thus different from the amounts included in note 2.6. Leases

<sup>4)</sup> Consists of Hydro's short and long-term provisions related to asset retirement obligations, net of an expected tax benefit estimated at 30 percent, and other non-current financial liabilities

<sup>5)</sup> Net debt in equity accounted investments is defined as the total of Hydro's relative ownership percentage of each equity accounted investment's short and long-term interest-bearing debt less their cash positions, reduced by total outstanding loans from Hydro to the equity accounted investment. Net debt per individual equity accounted investment is limited to a floor of zero. The adjustments are related to Qatalum.

#### Funds from operations / average Adjusted net cash (debt) including EAI

Amounts in NOK million, except ratio	2019	2018
Not in some (loss)	(0.070)	4.000
Net income (loss)	(2,370)	4,323
Depreciation, amortization and impairment	9,485	7,369
Deferred taxes	(699)	(585)
Loss (gain) on sale of non-current assets	85	188
Net foreign exchange (gain) loss	1,204	1,303
Capitalized interest	(44)	(1)
Commodity derivatives	(29)	(415)
Hydro's share of depreciation, amortization and impairment in EAI	1,071	1,070
Funds from operations	8,703	13,252
Average Adjusted net cash (debt) including EAI	(32,347)	(25,291)
Funds from operations / average Adjusted net cash (debt) including EAI <sup>1)</sup>	0.27	0.52

<sup>1)</sup> The definition has changed to use a four-quarter rolling average of Adjusted net cash (debt) including EAI. The previous methodology considered the year-end value only. The change means that the calculated ratio reflects varying debt levels through the year. The 2018 value has been restated accordingly

# Note 7.2 Cash and cash equivalents

### Accounting policies for cash and cash equivalents

Cash and cash equivalents in the balance sheet includes cash, bank deposits and all other monetary instruments with a maturity of less than three months from the date of acquisition and are measured at nominal value.

### Liquidity management

Hydro manages its liquidity requirements centrally to cover group operating requirements. Hydro operates cash pools in several currencies where wholly owned subsidiaries participate, to the extent permitted by country legislation. Such cash pool arrangements facilitate netting of cash positions within the group, thereby reducing the requirement for external financing, and centralizing management of aggregated positions. At the end of 2019, NOK 4.0 billion of Hydro's cash position of NOK 12.3 billion was outside such group arrangements, mainly in Brazil.

## Note 7.3 Short-term investments

Amounts in NOK million	2019	2018
Equity securities	293	253
Debt securities	529	603
Other	147	119
Total short-term investments	969	975

# Note 7.4 Short and long-term debt

	2019	2018
Amounts in NOK million		Restated
Bank loans and overdraft facilities	3,560	5,455
Other interest-bearing short-term debt	248	275
Current portion of long-term debt	2,349	3,643
Bank loans and other interest-bearing short-term debt	6,157	9,373
	2019	2018
Amounts in NOK million		Restated
EUR	7,816	11
USD	4,723	1,458
NOK	2,998	4,497
SEK	1,885	2,915
Other	1	18
Total unsecured loans	17,423	8,900
Lease liabilities	3,784	4,085
Outstanding debt	21,207	12,985
Less: Current portion	(2,349)	(3,643)
Total long-term debt	18.858	9.342

Long-term debt includes four bonds in NOK and SEK listed on the Oslo Stock Exchange and two bonds in EUR listed on the Irish Stock Exchange (Euronext Dublin). As of December 31, 2019, the market value of these bonds is approximately NOK 350 million higher than the carrying value.

### Reconciliation of liabilities arising from financing activities

Amounts in NOK million	Long-term debt	Bank loans and other interest-bearing short-term debt	Total liabilities from financing activities
	y		<u> </u>
December 31, 2017	9,012	8,245	17,257
Cash flows	815	(2,676)	(1,861)
Non-cash changes:			
Net change in current balance	(2,771)	2,771	-
Amortizations	6	-	6
Foreign currency effects	18	204	221
December 31, 2018	7,080	8,543	15,623
Effect of change in accounting principle	2,262	830	3,092
December 31, 2018 restated	9,342	9,373	18,716
Cash flows	11,089	(5,556)	5,533
Non-cash changes:			
Net change in current balance	(2,324)	2,324	-
New leases	519	-	519
Lease debt cancellations	(27)	-	(27)
Business combinations	11	12	23
Amortizations	13	-	13
Foreign currency effects	233	5	238
December 31, 2019	18,858	6,157	25,015

# Note 7.5 Finance income and expense

Amounts in NOK million	2019	2018
Interest income (amortized cost)	295	250
Dividends received and net gain (loss) on securities	70	6
Finance income	365	255
Interest expense (amortized cost)	(893)	(699)
Capitalized interest	44	1
Net foreign exchange gain (loss)	(1,204)	(1,303)
Accretion	(309)	(260)
Other	(58)	(53)
Finance expense	(2,420)	(2,315)
Finance income (expense), net	(2,055)	(2,060)

Accretion represent the period's interest component for pension obligations, asset retirement obligations and other liabilities measured as present value of future expected payments.

# Note 7.6 Shareholders' equity

### Share capital

Number of shares	Ordinary shares issued	Treasury shares	Ordinary shares outstanding
December 31, 2017	2,068,998,276	(24,300,928)	2,044,697,348
Treasury shares issued to employees		1,605,449	1,605,449
December 31, 2018	2,068,998,276	(22,695,479)	2,046,302,797
Treasury shares issued to employees		1,345,993	1,345,993
December 31, 2019	2,068,998,276	(21,349,486)	2,047,648,790

The share capital of Norsk Hydro ASA as of December 31, 2019 and 2018 was NOK 2,271,760,107 consisting of 2,068,998,276 ordinary shares at par value of NOK 1.098 per share. All shares have equal rights and are freely transferable.

### **Treasury shares**

The treasury shares may, pursuant to the decision of the General Meeting at the time these shares were acquired, be used as consideration in connection with commercial transactions or share schemes for the employees and representatives of the Corporate Assembly and the Board of Directors.

The treasury shares amount per December 31, 2019 of NOK 711 million was comprised of NOK 23 million share capital and NOK 688 million retained earnings.

### Change in Other components of equity

The table below specifies the changes in Other components of equity for 2019 and 2018.

Amounts in NOK million	2019	2018
Items that will not be reclassified to income statement:		
Remeasurement postemployment benefits		
January 1	55	773
Remeasurement postemployment benefits during the year	(128)	(925)
Deferred tax offset	(315)	208
December 31	(388)	55
Unrealized gain (loss) on assets measured at FVOCI		
January 1	155	(239)
Period unrealized gain (loss) on FVOCI securities	(664)	394
December 31	(509)	155
Items that will be reclassified to income statement:		
Currency translation differences		
January 1	(3,895)	(1,864)
Currency translation differences during the year	(576)	(2,031)
December 31	(4,471)	(3,895)
Cash flow hedges - See note 8.3 Derivative instruments and hedge accounting		
January 1	(49)	(35)
Period gain recognized in Other comprehensive income	(108)	(141)
Reclassification of hedging gain (loss) to Net income	132	124
Tax expense	(5)	3
December 31	(30)	(49)
Other components of equity in equity accounted investments		
January 1	105	33
Period gain (loss) recognized in Other comprehensive income	22	72
Reclassified to Net income on divestment of equity accounted investments	9	-
December 31	137	105
Total other components of equity attributable to Hydro shareholders as of December 31	(3,496)	(1,936)
Total other components of equity attributable to non-controlling interests as of December 31	(1,765)	(1,692)

### Earnings per share

Basic and diluted earnings per share is computed using Net income attributable to Hydro shareholders and the weighted average number of outstanding shares in each year. There are no significant diluting elements. The weighted average number of outstanding shares used for calculating basic and diluted earnings per share was 2,047,057,976 for 2019 and 2,045,796,971 for 2018.

Hydro's outstanding founder certificates and subscription certificates entitle the holders to participate in any share capital increase, provided that the capital increase is not made in order to allot shares to third parties as compensation for their transfer of assets to Hydro. These certificates represent dilutive elements for the earnings per share computation.

# Note 7.7 Dividends

Hydro's Board of Directors normally proposes a dividend per share in connection with the fourth quarter results that are published in February each year. The Annual General Meeting considers this proposal, normally in May, and the approved dividend is then paid to the shareholders. Dividends are paid once each calendar year; generally occurring in May. For non-Norwegian shareholders, Norwegian withholding tax will be deducted at source in accordance with the applicable Norwegian tax regulations.

For fiscal year 2019 the Board of Directors has proposed a dividend of NOK 1.25 per share to be paid in May 2020. The Annual General Meeting, scheduled to be held May 11, 2020, will consider this dividend proposal. If approved, this would be a total dividend of approximately NOK 2,560 million. In accordance with IFRS, the fiscal year 2019 proposed dividend is not recognized as a liability in the 2019 financial statements.

Dividends declared and paid in 2019 and 2018 for the prior fiscal year, respectively, are as follows:

	Paid in 2019 for fiscal year 2018	Paid in 2018 for fiscal year 2017
Dividend per share paid, NOK	1.25	1.75
Total dividends paid, NOK million	2,558	3,581
Date proposed	February 7, 2019	February 15, 2018
Date approved	May 7, 2019	May 7, 2018
Dividend payment date	May 16, 2019	May 18, 2018

Dividends to non-controlling shareholders in Hydro's subsidiaries are reported as dividends in Consolidated statements of changes in equity.

# Section 8 – Financial risk and financial instruments

# Note 8.1 Financial and commercial risk management

Hydro is exposed to market risks from fluctuations in the price of commodities bought and sold, prices of other raw materials, currency exchange rates and interest rates. Price volatility, which may be significant, can have a substantial impact on Hydro's results. Market risk exposures are evaluated based on a holistic approach in order to take advantage of offsetting positions and to manage risk on a net exposure basis. Natural hedging positions are established where possible and economically viable. Hydro uses financial derivatives to some extent to manage financial and commercial risk exposures. Hydro's main policy to manage market volatility is to keep a strong financial position. Hydro's market risk strategy is materially unchanged in 2019 compared to previous years.

#### Commodity price risk exposure

#### Aluminium

Hydro produces primary aluminium and aluminium casthouse products, both based on primary aluminium and remelted aluminium, and fabricated aluminium products. Hydro also engages in sourcing and trading activities to procure raw materials and primary aluminium for internal use and for resale to customers. These activities serve to optimize capacity utilization, reduce logistical costs and strengthen the market positions. Hydro also participates in trading activities within strict volume and risk limits.

Hydro enters into future contracts on the London Metal Exchange (LME) mainly for two purposes. The first is to achieve an average LME aluminium price on smelter production. Second, because Hydro's downstream businesses, remelting, and the sale of third-party products are based on margins above the LME price, Hydro seeks to offset the metal price exposure when entering into customer and supplier contracts with corresponding physical or derivative future contracts at fixed prices (back-to-back hedging). Hydro manages these exposures on a portfolio basis, taking LME positions based upon net exposures within given limits. Aluminium price volatility can result in significant fluctuations in earnings as the derivative positions are marked to their market value with changes to market value recognized in the income statement, while the underlying physical metal transactions normally are not marked-to-market, except for those included in trading portfolios. The majority of Hydro's LME contracts mature within one year.

Hydro's sales of primary aluminium, aluminium casthouse products and fabricated aluminium products include a premium above the LME aluminium price. The pricing of these premiums can be volatile, and is related to physical demand and supply, with regional and product-related differences. Over the later years, these premiums have been a higher share of the revenue than historic averages. There are limited possibilities for hedging future premiums, except for standard ingot premiums, for which a forward market exists. Hydro has from time to time entered into contracts for standard ingot premiums to mitigate risk in sales contracts.

In order to secure cash flow or margins for specific projects or special circumstances, Hydro might enter into futures contracts on a longer-term basis. In these cases, hedge accounting has normally been applied.

#### Bauxite and alumina

Hydro's production of alumina normally exceeds the alumina consumption in its primary aluminium production. In addition, Hydro has entered into long-term agreements to purchase alumina from third parties. In 2018 and into 2019, Hydro's production at Alunorte was limited by the production embargo, leading to increased external sourcing in the spot market. The majority of purchase and sale contracts are priced with reference to alumina spot price indexes.

Hydro is a producer and consumer of bauxite. Hydro's need for bauxite is secured through own production as well as by long-term contracts. The purchasing contracts have links to the LME aluminium price and to the alumina spot price development with a certain time-lag. Hydro has a limited volume of excess bauxite from long-term sourcing contracts, which is sold under medium and short-term contracts with prices linked to an alumina price index or open price negotiations.

#### Electricity

Hydro is a large power consumer in several countries and with significant power production in Norway. Hydro's consumption is mainly secured through long-term contracts with power suppliers and through Hydro's own production. Hydro's own production is influenced by hydrological conditions which can vary significantly. The net power position in Norway is balanced out in the Nordic power market. In order to manage and mitigate risks related to price and volume fluctuations, Hydro utilizes physical contracts and derivatives including future contracts, forwards and options. Hydro also participates in trading activities within strict volume and risk limits.

The longer duration of fixed or linked contracts for purchase of electricity compared to other input factors and sale of products may constitute a margin risk.

A significant part of Hydro's power purchase contracts is linked to aluminium prices in order to mitigate market price risk related to the sales of its aluminium products. These contract elements are separated from their host contracts and accounted for as derivatives. Further, an increasing share of power contracts in Norway are priced in Euro. There is no consensus that the Euro is a commonly used currency in the relevant market, the euro price clauses are thus accounted for separately as currency forwards.

#### Other raw materials

Hydro is party to both long-term and short-term sourcing agreements for a range of raw materials and services with both fixed and variable prices. Such agreements include pitch, petroleum coke, caustic soda, natural gas, coal, fuel oil and freight. The number of purchasing agreements with prices linked to the price of other commodities such as aluminium is limited and the fair value exposure is considered to be immaterial.

#### Foreign currency risk exposure

The prices of Hydro's upstream products bauxite, alumina and primary aluminium, are mainly denominated in US dollars. Margins for mid- and downstream products are mainly priced in US dollars and Euro. Further, the prices of major raw materials used in Hydro's production processes, are quoted in US dollars in the international commodity markets. Hydro also incurs local costs related to the production, distribution and marketing of products in a number of different currencies, mainly Norwegian Krone, Brazilian Real, Euro and US dollar.

Hydro's primary underlying foreign currency risk is consequently linked to fluctuations in the value of the US dollar and Euro versus the currencies in which significant costs are incurred. In addition, Hydro's results and equity are influenced by value changes for the functional currencies of the individual entities and the Norwegian Krone as the Group's presentation currency.

To mitigate the impact of exchange rate fluctuations, long-term debt is mainly maintained in currencies reflecting underlying exposures and cash generation, while considering attractiveness in main financial markets. To reduce the effects of fluctuations in the US dollar and other exchange rates, Hydro also uses foreign currency swaps and forward currency contracts from time to time.

#### Foreign currency risk exposure in financial instruments

Short-term receivables and payables are often held in currencies other than the functional currency of the unit. Fluctuations between the functional currency and the currency in which the receivable or payable is denominated are reported in Financial expense. Borrowings and deposits may be denominated in other currencies than the functional currency of the unit. Fluctuations between the functional currency and the instrument's currencies, both short and long term, impact the recognized value of the liability or asset, and are reported in Financial expense. Embedded currency derivatives in non-financial contracts, including the Euro priced electricity contracts discussed above, contains a currency exposure with changes to the fair value of the embedded derivative included in Financial expenses. Investments in equity instruments of other entities are often impacted by changes in currency exchange rates. As such investments are carried at fair value, the currency changes are included in the changes of fair value and reported as an integral part of such changes.

#### Interest rate exposure

Hydro is exposed to changes in interest rates, primarily as a result of financing its business operations and managing its liquidity in different currencies. Cash and other liquid resources, as well as debt, are currently mainly held in Norwegian Krone, Swedish Krone, Euro, US dollars and Brazilian real. The corresponding interest rate exposures are consequently related to Norwegian Krone, Swedish Krone, Euro, US dollar and Brazilian real short-term rates.

Financial instruments and provisions are also exposed to changes in interest rates in connection with discounting of positions to present value.

#### Credit risk management

Hydro manages credit risk by setting counterparty risk limits and establishing procedures for monitoring exposures and timely settlement of customer accounts. Credit risk is further limited through use of credit insurance, and, in some markets, sale of receivables to banks. Prepayments or guarantees are required where credit risk is outside the limits set for the relevant counterpart. Hydro is also monitoring the financial performance of key suppliers in order to reduce the risk of default on operations and key projects. Our overall credit risk exposure is reduced due to a diversified customer base representing various industries and geographic areas. Enforceable netting agreements, guarantees, and credit insurance, also contribute to a lower credit risk.

Credit risk arising from derivatives is generally limited to net exposures. Exposure limits are established for financial institutions relating to current accounts, deposits and other obligations. Credit risk related to commodity derivatives is limited by settlement through commodity exchanges such as the London Metal Exchange, Nasdaq, and banks. Current counterparty risk related to the use of derivative instruments and financial operations is considered limited.

#### Liquidity risk

Volatile commodity prices and exchange rates as well as fluctuating business volumes and inventory levels can have a substantial effect on Hydro's cash positions and borrowing requirements.

To fund cash deficits of a more permanent nature Hydro will normally raise equity, long-term bond or bank debt in available markets. Some suppliers have access to supply chain finance facilities, which allows those suppliers to benefit from Hydro's credit profile. The use of such products is expected to decline during 2020 due to a change of Hydro's policy for use of such facilities. Further, all other financial liabilities, such as trade payables, with the exception of derivatives, have a final maturity date within one year.

A summary of Hydro's total contractual obligations and commercial commitments to make future payments is presented below:

Amounts in NOK million	Less than 1 year	1-3 years	3-5 years	Thereafter	Total
Long-term debt including interest (note 7.4)	2,820	7,840	2,921	9,543	23,123
Unconditional purchase obligations 1)	44,877	57,429	49,492	187,087	338,885
Contractual commitments for PP&E	2,886	2,203	543	-	5,632
Total contractual and non-contractual obligations, undiscounted	50,582	67,472	52,956	196,630	367,640
Present value of short-term and long-term provisions (note 4.1)	3,296	3,121	553	2,841	9,811

<sup>1)</sup> Unconditional purchase obligations include long-term contracts with equity accounted investees.

Hydro has long-term contractual commitments for the purchase of aluminium, raw materials, electricity, and transportation in addition to long-term sales commitments. The future non-cancellable fixed and determinable obligations under purchase commitments as of December 31, 2019 are shown in the following table:

Amounts in NOK million	Bauxite, alumina and aluminium	Energy related	Other
2020	25,374	15,184	4,319
2021	16,914	13,206	2,411
2022	16,230	6,899	1,767
2023	16,376	7,102	1,248
2024	16,543	7,325	898
Thereafter	137,686	41,412	7,990
Total	229,125	91,128	18,633

Amounts relating to contracts which are entirely or partly linked to market prices such as LME are based on the spot price at the balance sheet date.

The following table specifies Hydro's payment obligations related to investments:

Amounts in NOK million	Total
Contract commitments for investments in property, plant and equipment	1,399
Additional authorized future investments in property, plant and equipment	4,232
Total	5,632

Additional authorized future investments include projects formally approved for development by the Board of Directors or management. General investment frames are excluded from these amounts.

An overview of estimated gross cash flows from derivatives accounted for as liabilities and assets is presented below. Many of these assets and liabilities are offset by cash flows from contracts not accounted for as derivatives.

Risk of significant cash payments or margin calls related to derivative instruments is limited due to strict volume limits, valueat-risk and tenor limits for relevant trading activities.

Expected gross cash flows from derivatives accounted for as financial liabilities and financial assets, respectively, as of end of year:

	December	December 31, 2018		
Amounts in NOK million	Liabilities	Assets	Liabilities	Assets
2019			(314)	580
2020	(78)	279	(45)	47
2021	(1)	1	(1)	1
Total	(79)	281	(361)	628

The cash flows above are to a large extent subject to enforceable netting agreements reducing Hydro's exposure substantially.

For additional information on contracts accounted for at fair value, see note 8.3 Derivative instruments and hedge accounting.

### Note 8.2 Financial instruments

#### Accounting policies for financial instruments

#### Financial assets

Financial assets represent a contractual right by Hydro to receive cash or another financial asset in the future. Financial assets include financial derivatives and commodity derivative contracts, receivables and equity interests, as well as financial instruments used for cash-flow hedges.

Financial assets are recognized in accordance with IFRS 9 Financial Instruments. On initial recognition, a financial asset is classified as measured at amortized cost; at fair value through other comprehensive income (FVOCI) or at fair value through profit or loss (FVTPL). Classification depends on the business model and, for some instruments, the company's choice. Financial assets are derecognized when the rights to receive cash from the asset have expired or when Hydro has transferred the asset.

#### Trade receivables

Trade receivables are initially recognized at transaction price, subsequently accounted for at amortized cost and are reviewed for impairment on an ongoing basis. Individual accounts are assessed for impairment taking into consideration indicators of financial difficulty and management assessment. Portfolios of trade receivable where expected losses are more than insignificant are reduced for those expected losses. Discounting generally does not have a material effect on accounts receivable, however, in special cases discounting may be applied. Hydro's business model for most trade receivable is to hold the receivables to collect the contractual cash flows. For some portfolios of trade receivables, factoring is applied.

#### Debt instruments

Debt instruments other than trade receivables include bank deposits and all other monetary instruments with a maturity above three months at the date of purchase, investments in debt securities, and certain other receivables. These instruments are measured at amortized costs, with the exception of instruments where cash flows are not contractually fixed and thus required to be measured at FVTPL.

Short-term debt instruments are included in Short-term investments. Long-term debt instruments are included in Other noncurrent assets, with the exception for loans to associates and joint ventures, which are included in Investments accounted for using the equity method.

#### Equity instruments

Hydro's portfolio of trading securities is measured at FVTPL, and included in Short-term investments. Other equity investments that are not consolidated or accounted for using the equity method are classified as either FVTPL or FVOCI on an individual investment basis. Hydro classifies investments in other entities with strategic or operational purpose, such as getting access to raw materials or in other ways cooperating with those entities, primarily as FVOCI, as Hydro considers this classification to be more relevant. Any dividend received from such investment is recognized in Finance income. On disposal of these investments, no gain or loss will be recognized in the income statement, however, any related accumulated value change will be reclassified from Other components of equity to Retained earnings.

#### Financial liabilities

Financial liabilities represent a contractual obligation by Hydro to deliver cash in the future, and are classified as either short-or long-term. Financial liabilities include financial derivatives, commodity derivative contracts and other financial liabilities as well as financial instruments used for cash-flow hedges. Financial liabilities, with the exception of derivatives, are initially recognized at fair value, including transaction costs directly attributable to the transaction, and are subsequently measured at amortized cost. Financial liabilities are derecognized when the obligation is discharged through payment or when Hydro is legally released from the primary responsibility for the liability.

#### **Derivative instruments**

Derivative instruments are marked-to-market with the resulting gain or loss reflected in the income statement, except when the instruments meet the criteria for cash flow hedge accounting and are designated as hedge instruments. Derivatives, including hedging instruments and embedded derivatives with expected cash flows within twelve months from the balance sheet date, or held solely for trading, are classified as short-term. Instruments with expected cash flows more than 12 months after the balance sheet date are classified as short and long-term based on the timing of the estimated cash flows.

Derivative contracts are presented gross on the balance sheet unless contract terms include the possibility to settle the contracts on a net basis and Hydro has the intention and ability to do so. The ability to settle net is conditional on simultaneous offsetting cash-flows.

Physical contracts for commodities that are readily convertible to cash are evaluated on a portfolio basis. Portfolios are defined based on business purpose, internal mandates and internal responsibilities. If a portfolio of contracts contains contracts of a similar nature that are settled net in cash, or the underlying products are not intended for own use, the entire portfolio of contracts is recognized at fair value and classified as derivatives. Physical commodity contracts that are entered into and continue to be held for the purpose of the receipt or delivery of the commodity in accordance with Hydro's expected purchase, sale or usage requirements (own use) are not accounted for at fair value. Commodity purchase contracts are generally considered to be the primary source for usage requirements. Hydro's own production of such commodities, for instance electricity, alumina and primary aluminium, is considered to be available for use or sale at Hydro's discretion unless relevant concessions contains restrictions for use.

Derivative commodity instruments are marked-to-market with their fair value recorded in the balance sheet as either assets or liabilities. Adjustments for changes in the fair value of the instruments are reflected in revenue and/or raw material cost. Forward currency contracts and currency options are recognized in the balance sheet and measured at fair value at each balance sheet date with the resulting gain or loss recorded in Finance expense. Interest income and expense relating to swaps are netted and recognized as income or expense over the life of the contract.

Hedge accounting is applied when specific hedge criteria are met, including documentation of the hedge relationship. The changes in fair value of the hedging instruments are offset in part or in full by the corresponding changes in the fair value or cash flows of the underlying hedged exposures. Gains and losses on cash flow hedging instruments are recognized in Other comprehensive income and deferred in the Hedging reserve in Other components of equity until the underlying transaction is recognized in the income statement. Deferred gains and losses relating to forecasted hedged transactions that are no longer expected to occur are immediately recognized in the income statement. Any amounts resulting from hedge ineffectiveness are recognized in the current period's income statement.

An embedded derivative is accounted for as a separate financial instrument, provided that the economic characteristics and risks of the embedded derivative are not closely related to those of the host contract, a separate instrument with the same terms as the embedded derivative would meet the definition of a derivative, and the host contract is not accounted for at fair value. Embedded derivatives are classified both in the income statement and on the balance sheet based on the risks in the derivatives' underlying.

#### **Financial instruments**

Certain commodity contracts are deemed to be financial instruments under IFRS 9 or to contain embedded derivatives which are required to be recognized at fair value, with subsequent changes in fair value impacting the income statement. Determining whether contracts qualify as financial instruments at fair value involves evaluation of markets, Hydro's use of those instruments and historic or planned use of physically delivered products under such contracts. Determining whether embedded derivatives are required to be separated and accounted for at fair value involves assessing price correlations and normal market pricing mechanisms for relevant products and marketplaces. Where no directly observable market prices exist, fair value is estimated through valuation models which rely on internal assumptions as well as observable market information such as forward curves, yield curves and interest rates. Market stability impacts the reliability of observed prices and other market information, and consequently, the extent of judgment necessary to estimate appropriate market prices for valuation purposes. Volatility also impacts the magnitude of changes in estimated fair value, which can be substantial, in particular on long-term contracts. Historically, financial and commodity markets have been highly volatile.

Financial instruments, and contracts accounted for as such, are in the balance sheet included in several line items and classified in categories for accounting treatment.

The below specification relates to financial statement line items containing financial instruments. Information is classified and measured in accordance with IFRS 9.

Amounts in NOK million	Derivatives at FVTPL <sup>1)</sup>			Financial instruments at FVTPL <sup>2)</sup>	Equity instruments at FVOCI	Financial liabilities at amortized cost	Non-financial assets and liabilities <sup>3)</sup>	Total
2019								
Assets - current								
Cash and cash equivalents	_	-	12,286	_	-	_	_	12,286
Short-term investments	-	_	147	822	_	-	-	969
Trade and other receivables	-	-	15,804	-	-	-	3,155	18,959
Other current financial assets	444	-	-	-	-	-	190	634
Assets - non-current								
Investments accounted for using the equity method	-	-	3	-	-	-	11,497	11,501
Other non-current assets	39	-	880	535	829	-	2,535	4,817
Liabilities - current Bank loans and other interest-bearing short-	-	_	-	-	_	6,157	<u>-</u>	6,157
term debt Trade and other payables	_	_	_		_	10,740	7,952	18,692
Other current financial liabilities	196	38	-	-	-	10,740	-	235
Liabilities - non-current								
Long-term debt	-	_	-	_	_	18,858	-	18,858
Other non-current financial liabilities	2,992	-	-	-	-	<u>-</u>	-	2,992
2018								
Assets - current								
Cash and cash equivalents	-	-	5,995	-	-	-	-	5,995
Short-term investments	-	-	119	856	-	-	-	975
Trade and other receivables	-	-	17,860	-	-	-	2,884	20,743
Other current financial assets	605	-	-	-	-	-	196	801
Assets - non-current								
Investments accounted for using the equity method	-	-	11	-	-	-	11,559	11,570
Other non-current assets	333	3	867	535	1,405	-	2,576	5,720
Liabilities - current								
Bank loans and other interest-bearing short-term debt	-	-	-	-	-	8,543	-	8,543
Trade and other payables	-	-	-	-	-	12,830	7,551	20,381
Other current financial liabilities	445	66	-	-	-	5	-	515
Liabilities - non-current								
Long-term debt	-	-	-	-	-	7,080	-	7,080
Other non-current financial liabilities	2,429	-	-	-	-	-	-	2,429

<sup>1)</sup> FVTPL is financial instruments at fair value through profit or loss. FVOCI is financial instruments at fair value through other comprehensive income.

Financial assets, classified as current and non-current, represent the maximum exposure Hydro has towards credit risk as at the reporting date.

Collateral or margin calls are required for some financial liabilities, primarily related to derivative transactions. Such collaterals for financial instruments are reported as part of Short-term investments.

Impairment of receivables are disclosed in note 6.2 Trade and other receivables. No other financial assets are currently impaired based on credit losses.

<sup>2)</sup> Financial Instruments at Fair Value Through Profit or Loss (FVTPL) are instruments required by IFRS 9 to be at FVTPL.

<sup>3)</sup> Includes items that are excluded from the scope of IFRS 7, such as investments accounted for using the equity method, except loans to such entities.

#### Gains and losses

Realized and unrealized gains and losses from financial instruments and contracts accounted for as financial instruments are included in several line items in the income statement. Below is a reconciliation of the effects from Hydro's financial instruments in the income statements:

Amounts in NOK million	Derivatives at FVTPL		Debt instruments at amortized cost	Financial instruments at FVTPL	Equity instruments at FVOCI	Financial liabilities at amortized cost	Non-financial assets and liabilities	Total <sup>1)</sup>
2019								
Income statement line item								
Revenue	(402)	-	-	-	-	-	-	(402)
Raw material and energy expense	10	(91)	-	-	-	-	-	(82)
Financial income	-	-	-	(70)	-	-	-	(70)
Financial expense	808	-	-	-	-	-	-	808
Gain/loss in Other comprehensive income								
Recognized in Other comprehensive income (before tax)					664			
Removed from Other components of equity and recognized in the income statement					-			
2018								
Income statement line item								
Revenue	(983)	-	-	-	-	-	-	(983)
Raw material and energy expense	(135)	163	-	-	-	-	-	28
Financial income	-	-	-	(3)	-	-	_	(3)
Financial expense	574	-	-	-	-	-	-	574
Gain/loss in Other comprehensive income								
Recognized in Other comprehensive income (before tax)					(394)			
Removed from Other components of equity and recognized in the income statement					-			

<sup>1)</sup> Amounts indicates the total gains and losses to financial instruments for each specific income statement line.

Currency effects, with the exception of currency derivatives, are not included above. Negative amounts indicate a gain.

#### Sensitivity analysis

In accordance with IFRS, Hydro has chosen to provide information about market risk and potential exposure to hypothetical loss from its use of derivative financial instruments and other financial instruments and derivative commodity instruments through sensitivity analysis disclosures. The sensitivity analysis depicted in the tables below reflects the hypothetical gain/loss in fair values that would occur assuming a 10 percent increase in rates or prices and no changes in the portfolio of instruments as of December 31, 2019 and December 31, 2018. Effects shown below are largely also representative of reductions in rates or prices by 10 percent but with the opposite sign convention. Only effects that would ultimately be accounted for in the income statement, or equity, as a result of a change in rates or prices, are included. All changes are before tax.

Gain (loss) from 10 percent increase in Foreign currency exchange rates Commodity prices

			_		-	-		
Amounts in NOK million	Fair value as of December 31 <sup>1)</sup>	USD	EUR	Other	Aluminium	Other	Interest- rates	Other
2019								
Derivative financial instruments <sup>2)</sup>	(2,957)		(2.650)			_	85	
	, , ,	-	(2,659)	-	-	-		-
Other financial instruments <sup>3)</sup>	(5,277)	(575)	(485)	(80)	-	-	2	29
Derivative commodity instruments <sup>4)</sup>	246	18	12	-	(347)	27	(1)	(2)
Financial instruments at FVOCI <sup>5)</sup>	791	-	(4)	1	-	9	(85)	78
2018								
Derivative financial instruments <sup>2)</sup>	(2,149)	-	(2,542)	-	-	-	33	-
Other financial instruments <sup>3)</sup>	(2,399)	(537)	303	(191)	-	-	-	24
Derivative commodity instruments <sup>4)</sup>	214	5	18	-	(298)	81	(3)	(1)
Financial instruments at FVOCI <sup>5)</sup>	1,343	256	(6)	1	-	19	(123)	137

- 1) The change in fair value due to price changes is calculated based on pricing formulas for certain derivatives, the Black-Scholes/Turnbull-Wakeman models for options and the net present value of cash flows for certain financial instruments or derivatives. Discount rates vary as appropriate for the individual instruments.
- 2) Includes forward currency contracts and embedded currency derivatives.
- 3) Includes cash and cash equivalents, investments in securities, bank loans and other interest-bearing short-term debt and long-term debt. Trade payables and trade receivables are also included.
- 4) Includes all contracts with commodities as underlying, both financial and physical contracts, such as LME contracts and NASDAQ Nordic Power contracts, which are accounted for at fair value.
- 5) Includes hedging derivatives

The above sensitivity analysis reflects sensitivities for the instruments held at the balance sheet dates only. Related offsetting physical positions, contracts, and anticipated transactions are not reflected. The calculations do not take into consideration any adjustments for potential correlations between the risk exposure categories, such as the effect of a change in a foreign exchange rate on a commodity price.

The above discussion about Hydro's risk management policies and the estimated amounts included in the sensitivity analysis relates to the balance sheet position as of December 31. Outcomes at other dates could differ materially based on actual developments in the global markets and Hydro's positions. The methods used by Hydro to analyze risks discussed above should not be considered as projections of future events, gains or losses.

The following is an overview of fair value measurements categorized on the basis of observability of significant measurement inputs. Certain items are valued on the basis of quoted prices in active markets for identical assets or liabilities (level 1 inputs), others are valued on the basis of inputs that are derived from observable prices (level 2 inputs), while certain positions are valued on the basis of judgmental assumptions that are to a limited degree or not at all based on observable market data (level 3 inputs). The level in this fair value hierarchy within which measurements are categorized is determined on the basis of the lowest level input that is significant to the fair value measurement.

Amounts in NOK million	2019	Level 1	Level 2	Level 3	2018	Level 1	Level 2	Level 3
Assets								
Commodity derivatives	462	223	70	170	921	376	275	270
Currency derivatives	21	21	-	-	17	2	14	-
Cash flow hedges	-	-	-	-	3	-	-	3
Financial assets at FVTPL	1,357	293	529	535	1,391	253	603	535
Financial assets at FVOCI	829	-	-	829	1,405	-	-	1,405
Total	2,669	536	599	1,534	3,738	631	892	2,213
Liabilities								
Commodity derivatives	(211)	(43)	(55)	(112)	(708)	(146)	(236)	(325)
Currency derivatives	(2,977)	(81)	(2,897)	-	(2,165)	(4)	(2,161)	-
Cash flow hedges	(38)	-	-	(38)	(66)	-	-	(66)
Total	(3,227)	(124)	(2,952)	(151)	(2,939)	(150)	(2,397)	(391)

The following is an overview in which changes in level 3 measurements are specified:

		nmodity vatives	Currency derivatives	Cash flow	Financial instruments at	Equity instruments at
Amounts in NOK million	Assets	Liabilities	Liabilities	hedges	FVTPL	FVOCI
December 31, 2017	195	(473)	-	(45)	-	969
Total gains (losses)						
in Income statement	(119)	177	-	-	-	-
in Other comprehensive income	-	-	-	(141)	-	395
Purchases	195	(39)	-	-	-	-
Reclassified on transition to IFRS 9	-	-	-	-	535	-
Settlements	-	16	-	124	-	-
Currency translation difference	-	(5)	-	-	-	40
December 31, 2018	270	(325)	-	(62)	535	1,405
Total gains (losses)						
in Income statement	(104)	134	-	-	-	-
in Other comprehensive income	-	-	-	(108)	-	(664)
Purchases	-	-	-	-	-	97
Settlements	-	82	-	132	-	-
Currency translation difference	2	(3)	-	-	-	(8)
December 31, 2019	169	(111)	-	(38)	535	830
Total gains (losses) for the period	(104)	134	-	(108)	-	(664)
Total gains (losses) for the period included in the income statement for assets held at the end of the reporting period	(104)	134	-	-	-	-

Gains or losses relating to level 3 commodity derivatives appearing in the table above are included in the income statement in Raw material and energy expense. Changes in fair value for embedded derivatives are reported as gains or losses for the period. Changes in fair value for hedge instruments are reported in Other comprehensive income. Dividends received for equity instruments at fair value through other comprehensive income are included in Financial income.

Exposure to level 3 commodity derivatives is decreasing and the sensitivities relating to commodity derivatives are insignificant as of December 31, 2019.

# Note 8.3 Derivative instruments and hedge accounting

Derivative instruments, whether physically or financially settled, are accounted for under IFRS 9. All derivative instruments are accounted for at fair value with changes in the fair value recognized in the income statement, unless the instrument is designated as a hedge instrument. Some of Hydro's commodity contracts are deemed to be derivatives under IFRS.

#### **Embedded derivatives**

Some contracts contain pricing links that affect cash flows in a manner different than the underlying commodity or financial instrument in the contract. For accounting purposes, these embedded derivatives are in some circumstances separated from the host contract and recognized at fair value. Hydro has separated and recognized at fair value embedded derivatives related to currency, aluminium, inflation and coal links from the underlying contracts.

#### Commodity derivatives

The following types of commodity derivatives were recorded at fair value on the balance sheet as of December 31, 2019 and December 31, 2018. Contracts that are designated as hedge instruments in cash flow hedges are not included. The presentation of fair values for electricity and aluminium contracts shown in the table below includes the fair value of traditional derivative instruments such as futures, forwards and swaps, physical contracts accounted for at fair value, as well as embedded derivatives.

Amounts in NOK million	2019	2018
Assets		
Electricity contracts	222	520
Aluminium futures, forwards and options	253	437
Other	51	95
Netting	(64)	(130)
Total	462	921
Liabilities		
Electricity contracts	(52)	(293)
Coal forwards	(140)	(302)
Aluminium futures, forwards and options	(82)	(243)
Netting	64	130
Total	(211)	(708)

Embedded derivatives are classified based on the underlying in the contract feature constituting a separable embedded derivative in the table above. Where there are more than one embedded derivative in the same host contract, those embedded derivatives are offset in settlement and thus presented net on the balance sheet.

Changes in the fair value of commodity derivatives are included in operating revenues or cost of goods sold based on classification of host contract for embedded derivatives and on the purpose of the instrument for freestanding derivatives.

#### Cash flow hedges

Hydro has to a limited extent used cash flow hedge accounting for its risk management positions. Gains and losses on the hedge derivatives are recognized in Other comprehensive income, and accumulated in the hedging reserve in equity and reclassified into operating revenues or cost when the corresponding forecasted sale or consumption is recognized. In 2012 Hydro entered into a hedge arrangement for parts of the power consumption in the Rheinwerk smelter in Germany. The price differential between the German and the Nordic power market was secured through derivative contracts for 150 MW for the period 2013 to 2020.

No ineffectiveness was recognized in the income statement in 2019 or 2018.

The table below gives aggregated numbers related to the cash flow hedges for the 2019 and 2018.

Amounts in NOK million	2020	2019	2018
Expected to be reclassified to the income statement during the year (NOK million)	(38)	(65)	(8)
Reclassified to the income statement from Other components of equity (NOK million) <sup>1)</sup>		(132)	(124)

<sup>1)</sup> Deviates from expected reclassifications due to change in market prices throughout the year. Negative amounts indicate a loss.

Liabilities of NOK 38 million and NOK 62 million were recognized as the fair value of cash flow hedging instruments for December 31, 2019 and 2018, respectively.

Hydro performs trading operations to reduce currency exposures on commodity positions. The effect of such operations is recognized as a part of Financial expense in the income statement.

For the after tax movement in Hydro's equity relating to cash-flow hedges for 2019 and 2018, please see note 7.6 Shareholders' equity.

#### **Fair Value of Derivative Instruments**

The fair value of derivative financial instruments such as currency forwards and swaps are based on quoted market prices. The fair market value of aluminium and electricity futures/forwards and option contracts is based on quoted market prices obtained from the London Metals Exchange and NASDAQ Nordic Power/EEX (European Energy Exchange) respectively. The fair value of other commodity over-the-counter contracts and swaps is based on quoted market prices, estimates obtained from brokers and other appropriate valuation techniques. Where long-term physical delivery commodity contracts are recognized at fair value in accordance with IFRS 9, such fair market values are based on quoted forward prices in the market, and assumptions of forward prices and margins where market prices are not available. Hydro takes credit-spread into consideration when valuating positions when necessary.

For further information on fair values, see note 1.2 Measurement of fair value. See note 8.2 Financial instruments for a specification of the classification of derivative positions according to a fair value hierarchy.

# Section 9 – Related parties and remuneration

### Note 9.1 Board of Directors' statement on executive management remuneration

#### Board of Directors' statement on executive management remuneration

The statement on the remuneration of the company's chief executive officer (CEO) and other members of the Corporate Management Board has been prepared in accordance with the provisions of the Norwegian Public Limited Companies Act, the Norwegian Accounting Act and the Norwegian Code of Practice for Corporate Governance.

#### Guidelines for executive management remuneration

Hydro's guidelines for the remuneration of the company's CEO and other members of the Corporate Management Board reflect Hydro's global human resources policy, whereby "Hydro shall offer its employees an overall compensation package that is competitive and in line with generally accepted industry standards in the country in question. Where appropriate this package should, in addition to the base salary, comprise a performance-based incentive, which combined, should reflect individual performance."

#### Process for determination of remuneration

The Board of Directors has appointed a separate compensation committee. The committee currently includes the board chair, deputy chair and one employee-elected board member. The CEO normally participates in the committee's meetings unless the committee is considering issues regarding the CEO. Other representatives of senior management may attend meetings if requested to do so.

The committee functions as an advisory body to the Board of Directors and the CEO, and is primarily responsible for:

- Making recommendations to the Board of Directors based on the committee's evaluation of the principles and systems
  underlying the remuneration of the CEO and other members of the Corporate Management Board.
- Making recommendations to the Board of Directors based on the committee's evaluation of the overall remuneration of the CEO, including the annual basis for bonus payments and bonus payments actually made.
- Assisting the CEO by consulting on the remuneration of the other members of the Corporate Management Board.
- Advising the Board of Directors and the CEO in remuneration matters which the committee finds to be of material or principal importance for Hydro.
- Overseeing the company's process for succession planning.

The following statement regarding the remuneration of members of the Corporate Management Board will be presented for an indicative vote to the annual general meeting to be held in May 2020.

Key principles for determination of remuneration in the coming financial year

The Board of Directors proposes that the principles set forth below shall apply for 2020 and up until the Annual General Meeting in 2021.

The remuneration of members of the Corporate Management Board shall reflect at all times the responsibility of the CEO and the other members of the Corporate Management Board for the management of Hydro, taking into account the complexity and breadth of the company's operations, as well as the growth and sustainability of the company. The total remuneration will be rooted in the company's objective of being competitive, but not a remuneration leader, within the relevant labor markets, while at the same time reflecting Hydro's international focus and presence.

Hydro attaches importance to transparency and to ensuring that remuneration arrangements are developed and implemented in accordance with principles for good corporate governance. The Board of Directors will continue to ensure moderation in executive management remuneration.

The total remuneration of the CEO and other members of the Corporate Management Board consists of a fixed compensation, variable compensation (short-term and long-term incentives), employee share plan, pension and insurance arrangements and, in certain cases, a severance agreement.

#### **Fixed compensation**

The fixed compensation provided to members of the Corporate Management Board includes a base salary and benefits in kind such as a car allowance, telephone, newspapers and other similar benefits. The company car plan was closed in 2019 and existing cars will not be replaced.

The base salaries of individual members of the Corporate Management Board are evaluated annually in light of the complexity and responsibility of the relevant employee's role and his or her contribution, qualifications and experience, together with general salary trends in applicable markets. In the annual evaluation of the basic salary for the members of the Corporate Management Board, consideration is also given to the results of the wage negotiations between the company and its Norwegian employee organizations. In addition, the company's administration, at the request of the Board's compensation

committee, carries out every two years a benchmarking of the remuneration of senior management in comparable Norwegian companies to ensure that the compensation offered by Hydro is market-adapted, but not market-leading.

#### Variable compensation

The Board's assessment is that target-based variable compensation helps to focus on elements that are important for promoting profitability and creating the basis for long-term value creation, both through the targets themselves and through a shared responsibility for achieving them.

The company has two plans for variable compensation for members of the Corporate Management Board: a short-term incentive (STI) and a share-based, long-term incentive (LTI). Both plans are evaluated and determined annually by the Board of Directors. Payments under both plans are dependent on Hydro achieving positive underlying earnings before interest and tax (Underlying EBIT) for the previous financial year. Payments are not taken into account when determining the basis for pensionable salary.

#### Short-term Incentive (STI)

The maximum potential payment under the plan is 50 percent of the annual base salary for the CEO and 40 percent of the annual base salary for other members of the Corporate Management Board.

The compensation is determined based on overall achievement of the following components, where (a) and (b) are established in the annual business planning process, and must be ambitious and balanced, and objective and measurable, and must reflect the varied nature of Hydro's operations.

- (a) Return on capital employed (RoaCE), measured against the company's internal return target (weighted 35 percent). All members of the Corporate Management Board are fully measured on this goal.
- (b) Strategic, operational, financial and organizational goals (weighted 40 percent combined).

At the corporate level, the following 10 targets have been set for 2020 for all members of the Corporate Management Board. The aim is to create a greater degree of collectivity and shared responsibility for the overall corporate targets. In addition, specific targets have been set for the executive vice presidents responsible for the business areas, pertaining to their respective business areas.

Name of goal	Description
Hydro's improvement program	Meet identified improvement targets accumulated for 2020
Net operating capital	Net operating capital days within the set upper limit
Robust 100	Meet identified potential for improvement in Rolled Products
Customer satisfaction	Customer satisfaction index above the set lower limit
Safety	Zero fatalities, and meet goal of completing HRI actions
Compliance	Hydro Monitor Integrity index above the set lower limit
Climate	Emissions of CO <sub>2</sub> equivalents per tonne of aluminium equivalent produced within the identified upper limit
Greener products	Meet target for volume growth for external sales of CIRCAL
Corporate social responsibility	Meet the improvement target for Hydro's reputation in Pará (measured by external stakeholder surveys)
Employees	Hydro Monitor Employee Engagement Index above the set lower limit

The company has a goal that is expressed in the phrases "lifting profitability" and "driving sustainability." The first four goals in the table above are considered to support the profitability goal, while the remaining six are considered to support the sustainability target.

(c) Contribution to the company's development, compliance and promotion of Hydro's core values (The Hydro Way), achievement of individual goals, as well as a comprehensive, discretionary assessment based on individual and group-oriented attitude and behavior throughout the year (weighted 25 percent combined).

#### Long-term incentive (LTI)

The maximum potential payment under the LTI plan is 30 percent of annual base salary (the same for the CEO and other members of the Corporate Management Board). Payment is determined on the basis of overall achievement of the following elements:

- (a) Average of the past three years' return on capital employed (RoaCE), measured against the company's internal return target. This goal also supports the company's emphasis on profitability, though with a more long-term perspective than the RoaCE goal in the STI plan.
- (b) The company's total shareholder return (TSR) measured against a weighted average of TSR for comparable companies. TSR is an alternative way of expressing profitability and here in combination with market positioning.

Recipients of LTI payments are required to invest the net payment amount (after tax) in Hydro shares with a lock-in period of three years. This approach helps create a long-term commonality of interest between the company's management and owners. Any holder of such shares who voluntarily terminates his or her employment during such a three-year period must pay to the company an amount equal to the after-tax value of the relevant shares at or around the last day of employment.

The company does not offer options or other similar arrangements.

#### Other share-based compensation

The CEO and other members of the Corporate Management Board appointed on Norwegian employment terms are eligible to participate in Hydro's discounted employee share purchase plan on the same terms as all other eligible employees (as described in note 9.3 Employee remuneration).

#### **Pensions**

#### Company pension plans

Hydro has two pension plans in Norway: defined benefit (closed to new members in 2010) and defined contribution. As of January 1, 2020, 608 employees in Norway, including the CEO and one member of the Corporate Management Board, are members of the defined benefit plan. Other employees in Norway, including eight members of the Corporate Management Board, are members of the defined contribution plan.

The defined contribution plan stipulates a contribution to the plan of amounts equal to 6 percent of salary between 0 and 7.1G (G = the Norwegian National Insurance basic amount) and 20 percent of salary between 7.1G and 12G. The defined benefit plan implies a pension right of approximately 65 percent of pensionable salary subject to the full service period (minimum 30 years). A compensation plan has been established for employees who have been transferred from the defined benefit plan to the defined contribution plan and for whom a deficit in pension capital resulting from the transfer has been estimated.

With effect from January 1, 2020, the contribution rates in the defined contribution pension plan for Hydro Extruded Solutions AS (formerly Sapa AS) are coordinated with Hydro's contribution rates.

#### 12G plan

Hydro closed the 12G plan funded through operations for earning pension on the portion of any salary exceeding 12G effective December 31, 2016. Employees with a salary above 12G on that date, including the CEO and four other members of the Corporate Management Board, remain in the plan.

For employees with a defined contribution plan, the 12G plan stipulates that an amount equivalent to 20 percent of the portion of salary exceeding 12G is allocated as a vested (pension) right. For employees with a defined benefit plan, the 12G plan stipulates that the portion of salary exceeding 12G is included in the final salary that forms the basis for calculating pension. New employees after December 31, 2016, including new members of the Corporate Management Board (recruited internally or externally), have not been included in the 12G plan. As of January 1, 2020, there are five members of the Corporate Management Board who do not earn pension on the portion of salary exceeding 12G, and an agreement has been entered into with each of them regarding payment of an annual cash amount in compensation for the loss of such earnings.

With effect from January 1, 2020, Hydro Extruded Solutions AS coordinated its pension plan for the portion of salary over 12G funded through operations, with Hydro's corresponding plan, and also closed its 12G plan for new members on the same date.

#### Early retirement plans

The company's early retirement plans are closed to new members. Employees who were included in the plans at the time of closing, including members of the Corporate Management Board, are still covered by the plans (see below).

The CEO and one member of the Corporate Management Board have the right to retire at the age of 62, although the CEO's right is limited to medical reasons. From the age of 62, defined pension benefits consist of 60 percent of pensionable salary. From the age of 65, the entitlement is 65 percent of pensionable salary up until the age of 67. Five other members of the Corporate Management Board have the same right to retire at the age of 65. The Board may request the CEO to retire at the age of 65.

The pensionable salary for the CEO and two members of the Corporate Management Board (Moss and Kallevik) is limited (with annual adjustment on January 1 corresponding to the adjustment of the National Insurance basic amount).

#### Age limit

The upper age limit for employment with Hydro in Norway is 70 years.

#### Insurance

The CEO and other members of the Corporate Management Board are covered by insurance arrangements applicable to Hydro employees with the rank of vice president or higher.

#### **Termination agreement**

Severance pay

Should Hydro terminate its employment relationship with the CEO or other members of the Corporate Management Board (with one exception), they have a right to six months of severance pay. One member of the Corporate Management Board has a right to severance pay for 12 months.

None of the Corporate Management Board's employment contracts give the right to severance pay if the employee has initiated the termination of employment.

#### Loss of severance pay

For all members of the Corporate Management Board, severance pay is forfeited in the event of gross breach of duty and/or other material breaches.

#### Reduction of severance pay

The CEO and seven members of the Corporate Management Board will have their severance pay reduced in whole or in part by other income, while two members of the Corporate Management Board have contracts which state that other income will not reduce their severance pay.

#### Notice period

All members of the Corporate Management Board have a six-month notice period.

#### General

The company has no specific guidelines for severance packages, but when recruiting to corporate management in recent times, it has followed a practice whereby the total of salary during the notice period and severance pay shall not exceed 12 months' salary.

#### Members of the Corporate Management Board outside Norway

For members of the Corporate Management Board outside Norway, base salary and other employment conditions are determined in accordance with Hydro's global human resources policy and local industry standards, and will generally follow the remuneration principles applicable to the other members of the Corporate Management Board.

Currently, all members of the Corporate Management Board have Norwegian employment contracts that follow the principles stated above. The executive vice president of the Bauxite & Alumina business area in Brazil also has a "retention bonus" attached to the position.

#### **Executive remuneration policy in 2019**

The remuneration policy has been implemented in accordance with the guidelines adopted in 2019, with the following additions and remarks:

The Corporate Management Board underwent extensive changes in the previous financial year:

- Chief Executive Officer: Hilde M. Aasheim succeeded Svein Richard Brandtzæg
- Chief Financial Officer: Pål Kildemo succeeded Eivind Kallevik
- Executive vice president Primary Metal: Eivind Kallevik succeeded Hilde M. Aasheim
- Executive vice president Rolled Products: Einar Glomnes succeeded Kjetil Ebbesberg
- Executive vice president People & HSE Hilde V. Nordh succeeded Katarina Nilsson
- New staff area: Corporate Development (until a new executive vice president is hired, Arvid Moss will serve in this role in addition to his duties as executive vice president Energy, and will receive special compensation for this additional responsibility).

Pål Kildemo, Einar Glomnes and Hilde V. Nordh all held previous positions in the group.

When Hilde M. Aasheim was hired as the new CEO and Eivind Kallevik as the new executive vice president for Primary Metal, they both retained the right to earn pension on the portion of the pensionable salary exceeding 12G. However, the basis for their pensionable income has been limited to the basis that applied on May 8, 2019 (based on previous salary). Aasheim and Kallevik have been executive vice presidents with agreements to earn pension on the full salary that were signed prior to the current "Guidelines on remuneration of executive management in entities in which the state has an ownership interest" entering into force. Removal of the plan for earning pension on the portion of a salary exceeding 12G through issuance of a paid-up policy in the defined benefit plan for Aasheim and a pension capital certificate in the defined contribution plan for Kallevik would in practice have made recruitment impossible and hindered the desired internal mobility.

Compensation for other members of the Corporate Management Board for the financial year 2019, including the new executive vice presidents, is in line with the guidelines adopted for 2019.

When the new CEO was hired with effect from May 8, 2019, the basic salary was set at NOK 6 710 000, the same as the previous CEO's basic salary. The salaries of the other members of the Corporate Management Board increased on average 2.15 percent from 2018 to 2019.

Bonus and LTI payments to the Corporate Management Board for 2018 were determined and paid in 2019. The annual bonuses for 2019 were determined and paid in March 2020. Annual bonuses and LTI payments are determined according to the principles stated above. See also Note 9.2 – Management remuneration.

# Note 9.2 Management remuneration

Corporate management board members' salaries and other benefits, number of LTI-shares allocated, as well as Hydro share ownership as of December 31, 2019 and 2018 are presented in the table below. Amounts presented for individuals appointed to, or stepping down from, a position in the Corporate Management Board from or to another position in Hydro, includes fixed compensation for the whole year. Unless otherwise stated, Hydro did not have any loans to or guarantees made on behalf of any of the corporate management board members in 2019 and 2018.

Name	Base salary <sup>1), 2)</sup>	Maximum bonus potential <sup>1), 2)</sup>	Salary paid <sup>1), 3)</sup>	Other benefits paid <sup>1), 3)</sup>	Compensation pension paid <sup>1), 3)</sup>	Bonus earned <sup>1), 3)</sup>	Long-term incentive (LTI) earned <sup>1), 3)</sup>	Pension benefits <sup>1), 4)</sup>	LTI-shares allocated <sup>3)</sup>	Hydro share owner- ship <sup>5)</sup>
2019										
Hilde Merete Aasheim <sup>6)</sup>	6,710	2,664	5,699	224	_	1,589	407	(6,869)	4,711	94,161
Svein Richard Brandtzæg <sup>7)</sup>	6,710	1,188	6,838	261	-	562	_	581	9,198	253,323
Pål Kildemo <sup>8)</sup>	2,900	435	2,319	219	150	280	79	245	-	2,202
John Thuestad <sup>9)</sup>	6,384	2,115	7,738	1,220	511	1,351	370	395	4,398	25,202
Eivind Kallevik	3,685	1,449	3,816	275	50	801	264	1,708	4,811	62,644
Einar Glomnes <sup>10)</sup>	4,047	908	3,828	481	343	553	155	1,567	-	4,456
Egil Hogna	5,533	2,213	5,689	286	1,112	1,361	404	609	7,430	50,742
Arvid Moss <sup>11)</sup>	3,267	1,307	3,457	253	-	772	238	3,268	4,384	158,308
Anne-Lene Midseim	2,614	1,046	2,668	273	112	548	191	1,095	3,506	29,862
Inger Sethov	2,397	959	2,458	273	149	502	175	1,057	3,214	27,538
Hilde Vestheim Nordh <sup>12)</sup>	2,400	897	2,292	273	130	459	66	1,389	-	16,753
Kjetil Ebbesberg <sup>13)</sup>	3,866	490	2,938	544	111	-	-	1,410	4,311	58,437
2018										
Svein Richard Brandtzæg	6,710	3,355	6,807	267	-	1,707	593	5,836	12,207	244,125
Eivind Kallevik <sup>14)</sup>	3,506	1,402	4,369	270	48	729	310	888	6,494	57,472
John Thuestad <sup>9)</sup>	6,087	1,166	7,025	542	298	793	251	374	-	20,443
Hilde Merete Aasheim	3,433	1,373	3,547	219	-	787	304	2,434	6,359	89,089
Kjetil Ebbesberg	3,991	1,561	4,112	636	150	733	322	940	5,826	54,126
Egil Hogna <sup>15)</sup>	5,416	2,166	9,094	275	1,084	1,411	479	(58)	2,508	42,951
Arvid Moss	3,194	1,278	3,255	252	-	912	283	2,979	5,917	153,563
Anne-Lene Midseim <sup>16)</sup>	2,554	1,022	2,615	563	110	531	226	759	4,731	26,395
Inger Sethov <sup>16)</sup>	2,341	936	2,419	566	146	487	207	725	4,336	23,963
Katarina Nilsson <sup>16) 17)</sup>	2,680	1,072	3,291	769	236	591	237	135	1,242	1,685
Silvio Porto <sup>18)</sup>	3,291	483	1,874	516	-	411	-	111	8,869	-

- 1) Amounts in NOK thousand. Amounts paid by subsidiaries outside Norway have been translated to NOK at average rates for each year.
- 2) Annual base salary per December 31, or per the date of stepping down from the Corporate Management Board. Maximum bonus potential is for the year presented, and for the period as corporate management board member.
- 3) Salary is the amount paid to the individual during the year presented, and includes vacation pay. Other benefits is the total of all other cash and non-cash related benefits received by the individual during the year presented and includes such items as the taxable portion of insurance premiums, car and mileage allowances and electronic communication items. For most individuals, compensation pension is the amount paid to compensate for future pension shortfall estimated at the time of transition from Hydro's defined benefit pension plans to the defined contribution plan in line with an arrangement applicable to all affected employees in Norway. For John Thuestad, Egil Hogna and Katarina Nilsson, compensation pension is the amount paid to compensate for lower pension benefits in Hydro compared to those of former employer Sapa AS (now Hydro Extruded Solutions AS). Bonus is the amount earned in the year presented, including vacation pay, based on performance achieved as corporate management board member. The LTI plan benefit reflects gross (pre-tax) amounts earned in the year presented, and results in LTI shares allocated in the following year. For corporate management board members on net salary employment contracts, benefits have been converted to estimated gross (pre-tax) amounts.
- 4) Pension benefits include the estimated change in the value of defined pension benefits, and reflects both the effect of earning an additional year's pension benefit and the adjustment to present value of previously earned pension rights (interest element). It is calculated as the increase in the Defined Benefit Obligations (DBO) calculated with stable assumptions. Pension benefits also include contributions to defined contribution plans.
- 5) Hydro share ownership is the number of shares held directly by the corporate management board member and any shares held by close family members and controlled entities. Hydro share ownership is as of December 31, or per the date of stepping down from the Corporate Management Board.
- 6) Effective May 8, 2019, Hilde Merete Aasheim superceeded Svein Richard Brandtzæg as President and CEO. Amended terms for Aasheim's early retirement agreement in the age interval 62-65 have resulted in a net negative change in pension benefits for 2019.
- 7) Effective May 8, 2019, Svein Richard Brandtzæg resigned as President and CEO and stepped down from the Corporate Management Board. Brandtzæg retired at the end of 2019. In addition to the benefits included in the table above, Brandtzæg will receive vacation pay in 2020 amounting to NOK 862 thousand.
- 8) Pål Kildemo became member of the Corporate Management Board as of August 15, 2019. From May 8 until August 15, 2019, Kildemo was appointed interim EVP and Head of Primary Metal business area, for which he received an extra remuneration of NOK 323 thousand that is included in column Salary paid in the table above.
- 9) John Thuestad became member of the Corporate Management Board as of June 1, 2018. From this date, Thuestad has a retention agreement that vests progressively over a 60-month period. Thuestad earned an estimated NOK 1,354 thousand and NOK 739 thousand under this agreement in 2019 and 2018, respectively. Thuestad also had a retention agreement from 2017, as former member of Sapa's corporate management team, that vested after 6 months in April 2018. Thuestad earned NOK 873 thousand under this agreement in 2018. These amounts are included in column Salary paid in the table above.
- 10) Einar Glomnes became member of the Corporate Management Board as of May 8, 2019.
- 11) From November 1, 2019, Arvid Moss was appointed interim EVP and Head of Corporate Development, for which he received an extra remuneration of NOK 150 thousand that is included in column Salary paid in the table above. Moss remains in his position as EVP and Head of Energy business area.

- 12) Hilde Vestheim Nordh became member of the Corporate Management Board as of August 15, 2019. From January 8 until August 15, 2019, Nordh was appointed interim EVP and Head of People and HSE.
- 13) Kjetil Ebbesberg stepped down from the Corporate Management Board as of May 8, 2019, and left Hydro as of September 30, 2019. In addition to the benefits included in the table above, Ebbesberg received salary and other benefits during a 6 month notice period that started October 1, 2019, amounting to NOK 2,027 thousand. Ebbesberg has no work obligations or permissions in Hydro during this period. Further, from April 1, 2020, Ebbesberg will receive severance pay for a period of 6 months, estimated to NOK 1,731 thousand. In addition, Ebbesberg will receive vacation pay in 2020 amounting to NOK 139 thousand. Ebbesberg was not required to make any payments to Hydro for non-vested LTI shares at termination of employment.
- 14) From March 5 until June 1, 2018, Eivind Kallevik was appointed interim EVP and Head of Bauxite & Alumina busines area, for which he received an extra remuneration of NOK 750 thousand that is included in column Salary paid in the table above. During this period, Kallevik remained in his position as CFO.
- 15) Egil Hogna became member of the Corporate Management Board as of October 2, 2017. From this date, and as former member of Sapa's corporate management team, Hogna had a retention agreement that vested after 12 months. Hogna earned NOK 3,940 thousand under this agreement in 2018. This amount is included in column Salary paid in the table above.
- 16) For work regarding the Alunorte situation in Brazil, Anne-Lene Midseim, Inger Sethov and Katarina Nilsson received an extra compensation of NOK 300 thousand, NOK 300 thousand and NOK 200 thosand, respectively. These amounts are included in column Other benefits paid in the table above.
- 17) Katarina Nilsson became member of the Corporate Management Board as of October 2, 2017. From this date, and as former member of Sapa's corporate management team, Nilsson had a retention agreement that vested after 6 months. Nilsson earned NOK 494 thousand under this agreement in 2018. This amount is included in column Salary paid in the table above. Katarina Nilsson stepped down from the Corporate Management Board as of January 7, 2019, and left Hydro as of August 31, 2019. Under the long-term incentive for 2018 settled in 2019, Nilsson received 3,679 shares. In addition to the benefits included in the table above, Nilsson received salary and other benefits during a 6 month notice period that started September 1, 2019, amounting to NOK 1,998 thousand. Nilsson had no work obligations or permissions in Hydro during this period. Further, from March 1, 2020, Nilsson will receive severance pay for a period of 6 months, estimated to NOK 795 thousand. Nilsson was not required to make any payments to Hydro for non-vested LTI shares at termination of employment.
- 18) Silvio Porto stepped down from the Corporate Management Board as of March 5, 2018, and left Hydro as of July 31, 2018. In addition to the benefits included in the table above, Porto received certain benefits at termination, including statutory benefits, amounting to NOK 1,649 thousand. Porto was not required to make any payments to Hydro for non-vested LTI shares at termination of employment. In addition to the performance related pay arrangement for all members of the Corporate Management Board, Porto had a cash-paid long-term incentive which was payable over three years with payments partly dependent on salary levels and business results in the following two years, included in bonus. The reported bonus amount is final.

# Note 9.3 Employee remuneration

#### Accounting policies for employee remuneration

Share-based compensation

Hydro accounts for share-based compensation in accordance with IFRS 2 Share-based Payment. Share-based compensation expense is measured at fair value over the service period and includes social security taxes that will be paid by Hydro at the settlement date. All changes in fair value are recognized in the income statement.

#### Employee benefits

Payments to employees, such as wages, salaries, social security contributions, paid annual leave and bonus agreements are accrued in the period in which the associated services are rendered by the employee.

#### Employee share purchase plan

Hydro has established a share purchase plan for employees in Norway. The plan payout is based on whether the share price (adjusted for dividend paid) increases with at least 12 percent or not during the performance period. Employees are eligible to receive an offer to purchase shares under this plan if they were 1) employed by Norsk Hydro ASA or a more than 90 percent owned Norwegian subsidiary, and 2) employed as of December 31 through the final acceptance date of the share purchase offer. Employees are invited to purchase shares with a rebate of 50 percent for a value of NOK 12,500 or NOK 25,000, depending on shareholder return. The share purchase is financed through a non-interest bearing loan from the company with a repayment period of 12 months.

Compensation expense related to the 2018 performance measurement period was accrued and recognized over the service period of December 31, 2018 through May 31, 2019, the final acceptance date of the offer. In 2019 and 2018 the participation rates of eligible employees in the employee share purchase plan were 89 and 88 percent, respectively. Details related to the employee share purchase plan are provided in the table below.

Performance measurement period	2019	2018	2017
Total shareholder return performance target achieved	<12%	<12%	≥12%
Employee rebate offered, NOK	6,250	6,250	12,500
Share purchase plan compensation		2019	2018
Award share price, NOK		30.92	51.54
Number of shares issued, per employee		361	443
Total number of shares issued to employees		1,296,351	1,543,412
Compensation expense related to the award, NOK thousand		17,682	36,023

#### Employee benefit expense

The average number of employees in Hydro for 2019 and 2018 was 36,487 and 35,731, respectively. As of year end 2019 and 2018, Hydro employed 36,310 and 36,236 people, respectively. Employees in joint operations are not included. The specification of employee benefit expenses, including employee benefits in joint operations, is given in the table below.

Amounts in NOK million	2019	2018
Salary	19,802	18,090
Social security costs	2,936	2,910
Other benefits	1,086	1,023
Pension expense (note 9.5)	1,047	1,153
Total	24,871	23,176

# Note 9.4 Board of Directors and Corporate Assembly

#### Board of Directors' remuneration and share ownership

Total board fees and individual board member fees for 2019 and 2018, and outstanding loans and board member share ownership as of December 31, 2019 and 2018, are presented in the tables below.

Amounts in NOK thousand	2019	2018
		_
Fees and other remuneration - normal board activities	4,423	3,521
Fees - audit committee	617	599
Fees - compensation committee	302	293
Total fees for board services provided to Hydro during the year	5,342	4,413

	Board fe	ees <sup>1)</sup>	Outstanding loa	ns <sup>1) 2)</sup>	Number of shares 3)	
Board member / observer	2019	2018	2019	2018	2019	2018
Dag Mejdell <sup>4)</sup>	807	780	_	_	35,000	35,000
Irene Rummelhoff <sup>5)</sup>	504	489	-	-	5,000	5,000
Finn Jebsen <sup>6)</sup>	571	554	-	-	53,406	53,406
Thomas Schulz	477	351	-	-	-	-
Liselott Kilaas <sup>7)</sup>	498	282	-	-	-	-
Marianne Wiinholt8)	613	483	-	-	-	-
Peter Kukielski <sup>9)</sup>	326	-	-		-	
Roelof Ijsbrand Baan <sup>10)</sup>	234	-	-		-	
Arve Baade <sup>11) 12)</sup>	362	88	-	-	4,708	4,347
Sten Roar Martinsen <sup>12) 13)</sup>	453	439	-	-	6,447	6,086
Svein Kåre Sund <sup>12) 14)</sup>	498	384	-	5	6,012	5,651
Tor Egil Skulstad <sup>12) 15)</sup>	-	-	-	-	804	443
Liv Monica Stubholt <sup>16)</sup>	-	201		-		-
Billy Fredagsvik <sup>12) 17)</sup>	-	362		21		5,030
Total	5,342	4,413	-	26	111,377	114,963

- 1) Amounts in NOK thousand
- 2) Loans are extended to board members who are also Hydro employees under an employee benefit scheme available to all employees in Norway. Loans as of December 31, 2019 and 2018; otherwise loans are as of the date the individual stepped down from the Board of Directors. At the end of 2018, the loan to Svein Kåre Sund had an interest of 5.9 percent, and was repaid in January 2019. As of the date of stepping down from the Board of Directors, the loan to Billy Fredagsvik had an interest rate of 5.9 percent, and the loan was repaid by the end of 2018. All payments have been made in a timely fashion and in accordance with the agreed payment schedule. Loans have not been extended to close members of family and controlled entities.
- 3) Number of shares owned as of December 31, 2019 and 2018 for board members as of December 31, 2019 and 2018; otherwise it is the number of shares owned as of the date the individual stepped down from the Board of Directors. Shareholdings disclosed include shares held by close members of family and controlled entities, in addition to shares held directly by the board member.
- 4) Chariperson of the board and chairperson of the board compensation committee
- 5) Deputy chairperson of the board and member of the board compensation committee.
- 6) Chairperson of the board audit committee.
- 7) Member of the board as of May 23, 2018. Member of the board audit committee as of June 12, 2018.
- 8) Member of the board audit committee.
- 9) Member of the board as of May 29, 2019.
- 10) Member of the board as of May 29, 2019 until February 5, 2020.
- 11) Member of the board as of October 1, 2018.
- 12) Employee representative on the board elected by the employees in accordance with Norwegian Company Laws. As such, these individuals are also paid regular salary, remuneration in kind and pension benefits that are not included in the table above.
- 13) Member of the board compensation committee.
- 14) Member of the board audit committee as of October 23, 2018.
- 15) Observer on the board.
- 16) Member of the board and the board audit committee until May 23, 2018.
- 17) Member of the board and the board audit committee until September 30, 2018.

The remuneration to the Board of Directors consists of the payment of fees and travel compensation. Travel compensation is paid to members living outside Norway (2018: Scandinavia) who attend meetings in person, with an amount of NOK 23,000 (2018: NOK 10,300) per meeting. Board members do not have any incentive or share-based compensation. Hydro has not made any guarantees on behalf of any of the board members. The only board members with loans from Hydro are the employee-elected members of the board.

Fees are based on the position of the board members and board committee assignments. Annual fees for 2019 for the chairperson of the board, deputy chairperson and directors are NOK 686,000 (2018: NOK 663,000), NOK 413,000 (2018: NOK 401,000) and NOK 362,000 (2018: NOK 351,000), respectively. The chairperson of the audit committee and the chairperson of the compensation committee receive an additional NOK 209,000 (2018: NOK 203,000) and NOK 120,500 (2018: NOK 117,000) annually in fees, respectively, and audit and compensation committee members receive NOK 136,000 (2018: NOK 132,000) and NOK 90,500 (2018: NOK 88,000) annually, respectively, for their participation on these committees. No fees are paid to the board observer.

#### **Corporate Assembly**

Corporate Assembly members owned 41,423 shares as of December 31, 2019. Loans to employees who are members of the Corporate Assembly were extended under an employee benefit scheme that is available to all employees in Norway. Loans outstanding to Corporate Assembly members who are also Hydro employees totaled NOK 383 thousand as of December 31, 2019. The interest rates on these loans are 2.50 percent and 5.90 percent, with a repayment period between two and 12 years.

# Note 9.5 Employee retirement plans

#### Accounting policies for post-employment benefits

Post-employment benefits are recognized in accordance with IAS 19 Employee Benefits. The cost of providing pension benefits under a defined benefit plan is determined separately for each plan using the projected unit credit method. Past service costs are recognized immediately in the income statement. The interest component of the periodic cost is included in Finance expense. Remeasurement gains and losses are recognized in Other comprehensive income.

Contributions to defined contribution plans are recognized in the income statement in the period in which they accrue. Multiemployer defined benefit plans where available information is insufficient to use defined benefit accounting are accounted for as if the plan were a defined contribution plan.

### Significant judgement in accounting for post-employment benefits

Measurement of pension expense and obligations under defined benefit plans requires numerous assumptions and estimates that can have a significant impact on the recognized pension cost and obligation, such as discount rates, turnover rate and mortality, as well as future pension increases and salary levels.

#### Employee retirement plans in Hydro

Hydro provides post-employment benefits covering a substantial portion of employees. Plans and benefit levels vary between companies and countries. In recent years, there has been a shift from traditional final salary defined benefit plans to defined contribution and contribution-oriented plans. Many defined benefit plans have been closed for new entrants, and in some defined benefit plans, large groups of employees have converted to defined contribution arrangements. Still, a number of employees continues to earn benefits under defined benefit plans, but many of these plans are heavily impacted by deferred members and pensioners.

#### Pension expense

	2019				2018			
Amounts in NOK million	Norway	Germany	Other	Total	Norway	Germany	Other	Total
Defined benefit plans	129	198	(11)	317	133	194	87	414
Defined contribution plans	196	-	278	474	175	-	292	467
Multiemployer plans	53	-	2	55	55	-	2	57
Termination benefits and other	62	(1)	56	117	63	11	62	136
Social security cost	63	-	21	84	53	-	26	78
Pension expense	503	197	347	1,047	478	205	470	1,153
Interest expense (income)	3	164	12	180	(20)	146	12	138
Remeasurement (gain) loss in other comprehensive income	(1,340)	1,234	233	128	1,065	(76)	(63)	925

### Recognized defined benefit asset and liability

	2019					2018			
Amounts in NOK million	Norway	Germany	Other	Total	Norway	Germany	Other	Total	
Defined benefit obligation major plans	(12,689)	(10,401)	(5,176)	(28,265)	(12,904)	(9,240)	(5,165)	(27,310)	
Plan assets	14,161	-	4,904	19,066	12,899	-	4,950	17,849	
Reimbursement rights	301	-	-	301	310	-	-	310	
Liability other plans	(54)	(131)	(661)	(845)	(29)	(134)	(528)	(691)	
Social security cost	(602)	-	(77)	(679)	(598)	-	(45)	(644)	
Net defined benefit asset (liability)	1,118	(10,531)	(1,009)	(10,423)	(322)	(9,375)	(789)	(10,486)	
Recognized prepaid pension	5,997	45	635	6,676	4,523	45	594	5,162	
Recognized pension liability	(4,879)	(10,576)	(1,644)	(17,099)	(4,845)	(9,420)	(1,383)	(15,648)	
Net amount recognized	1,118	(10,531)	(1,009)	(10,423)	(322)	(9,375)	(789)	(10,486)	

Other plans include some minor plans in various entities and countries. These plans may be funded or unfunded. None of these plans are considered material, neither individually nor combined.

#### Change in defined benefit obligation (DBO)

		2019				2018			
Amounts in NOK million	Norway	Germany	Other	Total	Norway	Germany	Other	Total	
Opening Balance	(12,904)	(9,240)	(5,165)	(27,310)	(12,247)	(9,173)	(5,512)	(26,932)	
Current service cost	(124)	(199)	(28)	(351)	(128)	(194)	(29)	(351)	
Past service cost and curtailment gain (loss)	-	-	-	-	-	-	(42)	(42)	
Interest expense	(315)	(162)	(144)	(621)	(287)	(145)	(144)	(575)	
Actuarial gain (loss) demographic assumptions	-	-	4	4	-	(73)	57	(17)	
Actuarial gain (loss) economic assumptions	99	(1,257)	(682)	(1,840)	(588)	249	280	(59)	
Experience gain (loss)	(16)	39	(41)	(19)	(200)	(93)	13	(280)	
Benefit payments	609	285	252	1,146	590	281	219	1,090	
Termination benefits	(36)	-	-	(36)	(44)	-	-	(44)	
Settlements	-	-	789	789	-	-	36	36	
Foreign currency translation	-	134	(161)	(27)	-	(92)	(43)	(135)	
Closing Balance	(12,689)	(10,401)	(5,176)	(28,265)	(12,904)	(9,240)	(5,165)	(27,310)	

### Change in pension plan assets

		2019				2018		
Amounts in NOK million	Norway	Germany	Other	Total	Norway	Germany	Other	Total
Opening Balance	12,899	-	4,950	17,849	13,189	-	5,343	18,532
Interest income	319	-	149	468	313	-	147	460
Return on plan assets above (below) interest income	1,244	-	552	1,796	(265)	-	(352)	(617)
Company contributions	135	-	7	142	93	-	9	102
Benefit payments	(435)	-	(228)	(663)	(432)	-	(201)	(632)
Settlements	-	-	(727)	(727)	-	-	(40)	(40)
Foreign currency translation	-	-	201	201	-	-	43	43
Closing Balance	14,161	-	4,904	19,066	12,899	-	4,950	17,849

### Analysis of the defined benefit obligation (DBO)

		2019				2018			
Amounts in NOK million	Norway	Germany	Other	Total	Norway	Germany	Other	Total	
Active members	(3,250)	(5,389)	(697)	(9,336)	(3,487)	(4,643)	(613)	(8,744)	
Deferred members	(814)	(870)	(2,195)	(3,879)	(794)	(722)	(1,889)	(3,405)	
Pensioners	(8,625)	(4,142)	(2,283)	(15,051)	(8,623)	(3,874)	(2,664)	(15,161)	
Defined benefit obligation	(12,689)	(10,401)	(5,176)	(28,265)	(12,904)	(9,240)	(5,165)	(27,310)	
Weighted average duration (years)	12.6	19.5			13.0	18.4			

Contributions to pension plans, benefit payments from unfunded pension plans, and social security tax imposed on such contributions and payments amounted to a cash outflow of about NOK 1,250 million for 2019 and about NOK 1,200 million for 2018. Hydro's cash impact is expected to be at the same level in the coming year.

Hydro's main pension plans are offered in Norway and Germany. The plans are described below:

#### Norway

Hydro has closed the main defined benefit plans for new members, and the majority of employees are now covered by defined contribution plans. The defined benefit plans are both funded and unfunded. The main funded plan is managed by Norsk Hydros Pensjonskasse, a separate, regulated legal entity. Hydro's pension plans complement the public pension schemes in Norway.

Hydro participates in a tariff-based pension plan that entitles the majority of its Norwegian employees life-long supplementary benefits. The benefits are financed through a pooled arrangement by private sector employers (avtalefestet pensjon, AFP) where also the Norwegian state contributes. The plan is a defined benefit plan with limited funding and where plan assets are not segregated. The information required to calculate the share of the plan and account for the plan as a defined benefit plan is not available from the plan administrator. Hydro therefore accounts for the plan as if it were a defined contribution plan. The annual contributions have increased since inception and are expected to increase further. The employer contributions are included in Multiemployer plans.

Significant actuarial assumptions for the main Norwegian defined benefit plans include:

	Benefit obligation	Benefit expense	Benefit obligation	Benefit expense
Assumptions	2019	2019	2018	2018
Discount rate	2.3%	2.5%	2.5%	2.4%
Expected salary increase	2.0%	2.5%	2.5%	2.25%
Expected pension increase	1.25%	1.5%	1.5%	1.0%
Mortality basis	K2013	K2013	K2013	K2013

The discount rate is based on the yield on covered bonds (debt securities backed by cash flows from mortgages) issued in Norway. The market for covered bonds has developed in size and liquidity, and we deem this market to be sufficiently deep to serve as reference for the discount rate for our post-employment benefit plans in Norway.

The sensitivities shown in the table below have been calculated for the main Norwegian plans illustrating the effects of changing one assumption while keeping the other assumptions unchanged. Possible correlation between assumptions is not reflected in the calculations.

Sensitivities decrease (increase) benefit obligation year end

Discount rate increase 0.5% point	6.0%	760
Salary increase 0.5% point	(0.9%)	(111)
Pension increase 0.5% point	(5.8%)	(739)
One year longer life all members	(4.5%)	(569)

The plan assets in the funded plans provided through Norsk Hydros Pensjonskasse were invested as follows at the end of 2019 and 2018:

Amounts in NOK million, except percent	2019	2019	2018	2018
Cash and cash equivalents	4.7%	654	2.6%	329
Equity instruments Norway	21.9%	3,052	20.5%	2,589
Equity instruments other countries	20.6%	2,865	18.9%	2,395
Debt instruments	29.3%	4,073	33.4%	4,220
Investment funds	6.1%	844	5.6%	705
Real estate	17.5%	2,432	19.0%	2,405
Total	100.0%	13,920	100.0%	12,644

Real estate consists of office buildings in the Oslo area. A share of the buildings are leased and occupied by Hydro. Investment funds are primarily private equity funds investing in unlisted companies across various industries in Europe, the US and Asia, and infrastructure funds investing in the UK, continental Europe and the US. Equity instruments are held through liquid funds

invested in listed companies in Norway and globally. Debt instruments are mainly bond issues with maturities up to 10 years and investment grade rating.

#### Germany

In Germany, the majority of plan members are covered by defined benefit plans that offer benefits based on final salary level and the number of years in service. The main plans are unfunded. Hydro's main plans are closed for new entrants, and all new employees are now offered benefits under new defined contribution-oriented plans. These plans are unfunded and treated as defined benefit plans for financial reporting purposes.

Significant actuarial assumptions for the main German plans include:

	Benefit obligation	Benefit expense	Benefit obligation	Benefit expense
Weighted-average assumptions	2019	2019	2018	2018
Discount rate	1.1%	1.8%	1.8%	1.6%
Expected salary increase	2.4%	2.4%	2.4%	2.4%
Expected pension increase	1.5%	1.5%	1.5%	1.5%
Mortality basis	RT 2018 G	RT 2018 G	RT 2018 G	RT 2005 G

The sensitivities shown in the table below have been calculated for the main German plans illustrating the effects of changing one assumption while keeping the other assumptions unchanged. Possible correlation between assumptions is not reflected in the calculations.

Sensitivities decrease (increase) benefit obligation year end

<b>Amounte</b>	in	NOK	million	avcant	narcant

Discount rate increase 0.5% point	8.9%	929
Salary increase 0.5% point	(2.3%)	(238)
Pension increase 0.5% point	(7.0%)	(732)
One year longer life all members	(5.5%)	(577)

#### Other

Other includes Hydro's post-employment benefits outside Norway and Germany. Most employees affected are covered by defined contribution plans. Defined benefit plans relate largely to the UK and the US, where the majority of the benefit obligation is financed and administered through independent pension trusts. Pension expense for 2019 includes a gain of NOK 62 million resulting from settlements of certain benefit obligations in the US. These settlements reduced defined benefit obligations and plan assets with NOK 789 million and NOK 727 million, respectively. Pension expense for 2018 includes a past service cost of NOK 40 million related to a judgment by the High Court of England and Wales requiring all employers who offered guaranteed minimum pensions in the period 1990 to 1997 to perform gender equalization, increasing the estimated liability for such benefits.

# Note 9.6 Other related party information

As of December 31, 2019, The Norwegian state had ownership interests of 34.6 percent of total shares outstanding (2018:34.6 percent) in Hydro through the Ministry of Trade, Industry and Fisheries. In addition, Folketrygdfondet, which manages the Government Pension Fund – Norway³ held 5.4 percent (2018: 6.8 percent). There are no preferential voting rights associated with the shares held by the Norwegian State. Hydro has concluded that the Norwegian state's shareholding represents a significant interest in Hydro, and that the State thus is a related party.

The Norwegian state has ownership interests in a substantial number of companies. The ownership interests in 73 companies are managed by the ministries and covered by public information from the Ministry of Trade, Industry and Fisheries<sup>4</sup>. We have not assessed which of these companies that are controlled by the State. Hydro has business transactions with a number of these companies, including purchase of power from Statkraft SF and bank services from DNB ASA. Generally, transactions are agreed independently of the possible control exercised by the State.

The public enterprise Enova, which supports new energy and climate-related technology development in Norway, decided in June 2014 to contribute up to NOK 1.56 billion to Hydro's pilot project for new electrolysis technology at Karmøy, Norway. The contribution was approved by the European Free Trade Association, EFTA, in February 2015 with the first payment in

<sup>&</sup>lt;sup>3</sup> Shareholding is based on information from the Norwegian Central Securities Depositary (VPS) as of December 31, 2019 and 2018. Due to lending of shares, an investor's holdings registered in its VPS account may vary.

<sup>&</sup>lt;sup>4</sup> According to information on the Government web site www.regieringen.no, state ownership

July 2015. The grant has been paid over the preparation, building and commissioning period ending in 2018. A total of NOK 1.56 million was received, representing the full grant.

A significant share of Hydro's defined benefit post-employment plans is managed by the independent pension trust, Norsk Hydro Pensjonskasse. Employees managing and operating the pension trust are employees of Norsk Hydro ASA. Their salaries and other benefits are reimbursed by the pension trust on a monthly basis, in total NOK 9 million for 2019 and NOK 8 million for 2018. Further, the pension trust is located in Hydro's head office. Office costs, including heating and administrative services and other administrative services, are charged with a total of NOK 1 million for 2019 and NOK 6 million for 2018.

The pension trust owns some of the office buildings rented by Hydro. The current rental arrangement was entered into in 2015 representing a partial continuation of a rental agreement from 2006, and priced based on market price benchmarks at the time of the agreement in 2006. Hydro has paid a rental of NOK 71 million and NOK 68 million for 2019 and 2018, respectively. The initial term of the rental contract expires in February 2022 after exercise of a one-year extension option. The contract includes an extension option for an additional five-year period. In addition, compensation related to cancellation of a previous contract was paid with NOK 86 million and NOK 82 million for 2019 and 2018, respectively. The compensation arrangement expires in 2021. The remaining provision for the compensation arrangement as of December 31, 2019 was NOK 112 million. As of the end of 2019, Hydro's outstanding balance towards Norsk Hydros Pensjonskasse was NOK 22 million, all settled when due during January 2020.

The members of Hydro's board of directors during 2019 and 2018 are stated in note 9.4 Board of Directors and Corporate Assembly, where their remuneration and share ownership is outlined. Some of the board members or their close members of family serve as board members or executive directors in other companies. In addition, some members of Hydro's corporate management board or their close members of family serve as board members in other companies. Hydro has transactions with some of those companies; however, have not identified any transactions where the relationship is known to have influenced the transaction. Liv Monica Stubholt, a Board member until May 2018, is partner in the Norwegian law firm Advokatfirmaet Selmer DA. Selmer has had assignments for Hydro resulting in fees of NOK 0.5 million in the period January to May, 2018. Stubholt has not been involved in these services to Hydro. Some close family members of members of Hydro's management are employed in non-executive positions in Hydro.

Hydro's significant joint arrangements and transactions with those entities are described in note 3.1 Investments in joint arrangements and associates. Hydro's relationship with partners in joint arrangements are generally limited to a combined effort within a limited area. Hydro considers the joint venture partners as competitors in other business transactions, and do not see these relationships as related party relationships.

Transactions with related parties are at arm's length principles.

# Section 10 – Other information

### Note 10.1 Income taxes

#### Accounting policies for income taxes, current and deferred

Taxes payable is based on taxable profit for the year, which excludes items of income or expense that are taxable or deductible in other years. Taxable profit also excludes items that are never taxable or deductible. Hydro's liability for current tax is calculated using tax rates that have been enacted or substantively enacted as of the balance sheet date.

Deferred income tax expense is calculated using the liability method in accordance with IAS 12 Income Taxes. Deferred tax assets and liabilities are classified as non-current in the balance sheet and are measured based on the difference between the carrying value of assets and liabilities for financial reporting and their tax basis when such differences are considered temporary in nature. For items recognized as an asset and a liability at inception, such as an asset retirement obligation or a lease, temporary differences related to the asset and liability are considered in combination, and deferred tax assets and liabilities are recognized on changes to the temporary differences through the life of the items. Temporary differences related to intercompany profits are deferred using the buyer's tax rate. Deferred tax assets are reviewed for recoverability every balance sheet date, and the amount probable of recovery is recognized.

Deferred income tax expense represents the change in deferred tax asset and liability balances during the year, except for the deferred tax related to items recognized in Other comprehensive income or resulting from a business combination or disposal. Changes resulting from amendments and revisions in tax laws and tax rates are recognized when the new tax laws or rates become effective or are substantively enacted. Uncertain tax positions are recognized in the financial statements based on management's expectations.

Deferred tax assets and liabilities are offset when there is a legally enforceable right to set off current tax assets against current tax liabilities, when they relate to income taxes levied by the same taxation authority, and when the Group intends to settle its current tax assets and liabilities on a net basis.

Deferred taxes are not provided on undistributed earnings of subsidiaries when the timing of the reversal of this temporary difference is controlled by Hydro and is not expected to happen in the foreseeable future. This is applicable for the majority of Hydro's subsidiaries.

#### Significant judgment in accounting for income taxes

Hydro is involved in a significant number of tax cases related to various types of taxes. Hydro's widespread business operations expose us to several tax regimes and their interaction. We see that tax authorities challenge transfer prices to an increasing degree. Although Hydro currently has no significant transfer price disputes with tax authorities, the long value chain with a large number of internal transactions and business operations covering multiple tax jurisdictions expose us to such disputes, both related to prior and future transactions.

Valuation of deferred tax assets is dependent on management's assessment of future recoverability of the deferred benefit. Expected recoverability may result from expected taxable income in the future, planned transactions or planned tax optimizing measures, all of which may be uncertain. Economic conditions may change and lead to a different conclusion regarding recoverability. Tax authorities in different jurisdictions may challenge Hydro's calculation of taxes payable from prior periods. Such processes may lead to changes to prior periods' taxable income, resulting in changes to income tax expense in the period of change, as well as interest and fines.

Amounts in NOK million	2019	2018
Income (loss) before tax		
Norway	(1,471)	4,327
Other countries	(85)	2,135
Total	(1,556)	6,462
Current taxes		
Norway	665	1,770
Other countries	848	954
Current income tax expense	1,512	2,724
Deferred taxes		
Norway	(57)	272
Other countries	(642)	(857)
Deferred tax expense (benefit)	(699)	(585)
Total income tax expense (benefit)	813	2,139

#### Components of deferred taxes

Amounts in NOK million	2019	2018
	(770)	(400)
Origination and reversal of temporary differences	(770)	(409)
Change in deferred tax asset from tax loss carryforwards	(430)	115
Effect of tax rate changes	(41)	(11)
Net change in unrecognized deferred tax assets	863	(492)
Tax (expense) benefit allocated to Other comprehensive income	(320)	211
Deferred tax expense (benefit)	(699)	(585)

#### Reconciliation of tax expense to Norwegian nominal statutory tax rate

Amounts in NOK million	2019	2018
Expected income taxes at statutory tax rate <sup>1)</sup>	(342)	1,486
Hydro-electric power surtax <sup>2)</sup>	749	943
Equity accounted investments	(57)	(170)
Foreign tax rate differences	(91)	(417)
Tax free income	(33)	(44)
Deferred tax asset not recognized and expired tax loss carryforwards <sup>3)</sup>	409	2
Withholding tax and capital taxes	45	108
Other tax benefits and deductions with no tax benefits, net <sup>4)</sup>	134	231
Income tax expense (benefit)	813	2,139

<sup>1)</sup> Norwegian nominal statutory tax rate is 22 percent. In 2018 it was 23 percent.

<sup>2)</sup> A surtax of 37 percent is applied to taxable income, with certain adjustments, for Norwegian hydro-electric power plants. The surtax comes in addition to the normal corporate taxation. In 2018 the surtax rate was 35.7 percent.

<sup>3)</sup> Deferred tax asset not recognized and expired tax loss carryforwards in 2019, includes write off of deferred tax asset in Germany amounting to NOK 239 million.

<sup>4)</sup> A substantial part of the provision related to the Alunorte agreements with the Government of Parà and Ministèrio Pùblico Federal made on September 5, 2018 (the TAC and TC agreements), is considered not deductible for tax purposes. The tax effect is included in the line Other tax benefits and deductions with no tax benefits, net.

Tax effects of temporary differences and tax loss carryforwards giving rise to deferred tax assets and liabilities

	Assets	Liabilities	Assets	Liabilities
Amounts in NOK million	2019	2019	2018 Restated	2018 Restated
Inventory valuation	411	(441)	442	(639)
Accrued expenses	1,761	(344)	1,549	(311)
Property, plant and equipment	10,174	(16,369)	10,076	(16,843)
Intangible assets	1,550	(2,319)	1,549	(2,314)
Pensions	3,233	(1,412)	2,761	(1,088)
Derivatives	707	(106)	639	(209)
Other	955	(1,115)	1,324	(980)
Tax loss carryforwards	5,502		5,230	
Subtotal	24,291	(22,105)	23,570	(22,384)
Of which not recognized as tax asset	(3,320)		(2,553)	
Gross deferred tax assets (liabilities)	20,971	(22,105)	21,017	(22,384)
Net deferred tax assets (liabilities)		(1,134)		(1,366)
Reconciliation to balance sheets		2019		2018
Deferred tax assets		1,998		1,664
Deferred tax liabilities		3,132		3,031
Net deferred tax assets (liabilities)		(1,134)		(1,366)

Recognition of net deferred tax asset is based on expected taxable income in the future.

At the end of 2019, Hydro had tax loss carryforwards of NOK 18,684 million, mainly in Brazil, Spain, Australia, Italy and Germany. Of the total, NOK 16,066 million is without expiration. The majority of the tax loss carryforwards with an expiry date expire after 2024. Tax assets are recognized for about 53 percent of the tax losses.

# Note 10.2 Research and development

#### Accounting principles for research and development

Research expenditures are expensed as incurred. Development costs are capitalized as intangible assets at cost in accordance with IAS 38 Intangible Assets when the recognition criteria are met, including probable future economic benefit and that the cost can be measured reliably.

To the extent development costs are directly contributing to the construction of a fixed asset, the development costs are capitalized as part of the asset provided all criteria for capitalizing the cost are met. Costs incurred during the preliminary project stage, as well as maintenance costs, are expensed as incurred.

#### Research and development in 2019 and 2018

Total expensed research and development cost was NOK 625 million in 2019 and NOK 594 million in 2018. Research and development activities are aiming at making production of aluminium more efficient including further improving the operational and environmental performance of Hydro's electrolysis technology. A significant proportion of the research and development means are also used for further developing the production processes and products within casting and alloy technology as well as extruded solutions, rolled products and alumina.

The capitalized development costs were NOK 19 million in 2019 and NOK 21 million in 2018.

### Note 10.3 Cash flow information

Cash disbursements and receipts included in cash from operations

Amounts in NOK million	2019	2018
Income taxes paid	2,981	3,231
Interest paid	829	653
Interest received	295	250

In 2019 and 2018, non-cash investing activities for asset retirement costs amounted to NOK 580 million and NOK 59 million, respectively.

### Note 10.4 Auditor's remuneration

KPMG is the Group auditor of Norsk Hydro ASA. The following table shows fees to the appointed auditors for 2019 and 2018. For all categories the reported fee is the recognized expense for the year.

Amounts in NOK million	Audit 1)	Audit related services <sup>2)</sup>	Other services <sup>3)</sup>	Tax related services	Total
2019					
Norway	10	1	2	-	14
Outside Norway	39	1	1	5	47
Sum	49	3	3	5	60
2018					
Norway	14	-	11	-	25
Outside Norway	36	-	-	3	39
Total	51	1	11	3	66

<sup>1)</sup> Audit fees of NOK 49 million (2018: NOK 51 million) consist of fees to KPMG of NOK 45 million (2018: NOK 36 million)

# Note 10.5 Changes in accounting principles and new pronouncements

### Changes in accounting principles

Hydro implemented IFRS 16 as of January 1, 2019.

Hydro has implemented IFRS 16 retrospectively with the cumulative effect of initially applying the standard recognized at the date of implementation, i.e. January 1, 2019. The implementation of IFRS 16 impacted contracts previously accounted for as operating leases. Hydro did not make any changes related to finance leases. The effects of the implementation of IFRS 16 is summarized in the table below. Further information about which policies Hydro has adopted and the implementation are included in note 2.6 Leases.

In addition, Hydro has adopted IFRIC 23 Uncertainty over Income Tax Treatment; effective date January 1, 2019. The interpretation clarifies how to assess tax positions when there is uncertainty about what the correct understanding of tax laws and regulations is. IFRIC 23 did not have any impact for Hydro at the time of transition.

Change of accounting principles, amounts in NOK million	Effect of implementing IFRS 16
Property, plant and equipment	3,070
Deferred tax asset	6
Other assets	2
Total assets	3079
Bank loans and other interest-bearing short-term debt	830
Long-term debt	2,262
Equity attributable to Hydro shareholders	(13)
Total liabilities and equity	3,079

#### New pronouncements

None of the issued, not yet effective, accounting standards or amendments to such standards are expected to have significant effects for Hydro's financial reporting.

<sup>2)</sup> Audit related fees of NOK 3 million in 2019 were fees to KPMG.

Other services in 2019 mainly include KPMG's review of viability performance. Fees for other services of NOK 11 million in 2018 consist of fees to KPMG of NOK 3 million, and fees to EY of NOK 9 million.

# Financial statements Norsk Hydro ASA

# Income statements

Total comprehensive income

Amounts in NOK million	Notes	2019	2018
Revenue		227	232
Gain (loss) on sale of subsidiaries, net		-	(3)
Total operating income		227	229
Employee benefit expense	2, 3	739	603
Depreciation	2, 3	71	21
Other	-	98	251
Total operating expenses		908	875
Operating loss		(681)	(647)
Financial income, net	5	5,369	1,938
Income before tax		4,688	1,292
Income taxes	6	(19)	(276)
Net income		4,668	1,015
Appropriation of net income and equity transfers			
Dividend proposed		2,560	2,558
Retained earnings		2,109	(1,543)
Total appropriation		4,668	1,015
Statements of comprehensive income			
Amounts in NOK million. Years ended December 31	Notes	2019	2018
Net income		4,668	1,015
Other comprehensive income			
Items that will not be reclassified to income statement			
Remeasurement postemployment benefits, net of tax		478	(353)
Other comprehensive income		478	(353)

13

5,146

662

# Balance sheets

		2019	2018
Amounts in NOK million, December 31	Notes		Restated
Assets			
Property, plant and equipment and intangible assets	4	565	608
Shares in subsidiaries	7	57,052	57,052
Receivables from subsidiaries	8, 10	15,813	13,908
Prepaid pension, investments and other non-current assets	2, 9	5,527	4,733
Total financial non-current assets		78,392	75,692
Receivables from subsidiaries		6,305	9,465
Prepaid expenses and other current assets	10	253	62
Cash and cash equivalents		8,355	2,984
Total current assets		14,914	12,512
Total assets		93,870	88,812
Equity and liabilities			
Paid-in capital			
Share capital	13	2,272	2,272
Treasury shares	13	(23)	(25)
Paid-in premium	13	28,987	28,987
Other paid-in capital	13	136	139
Retained earnings			
Retained earnings	13	31,209	28,622
Treasury shares	13	(688)	(731)
Equity	13	61,893	59,265
Long-term provisions	2, 9	3,478	3,373
Long-term debt	12	12,027	5,554
Other long-term liabilities		12,027	5,554
Bank loans and other interest-bearing short-term debt		1,538	3,104
Dividends payable		2,560	2,558
Payables to subsidiaries		11,843	14,379
Other current liabilities		531	580
Total current liabilities		16,472	20,621
Total equity and liabilities		93,870	88,812

# Statements of cash flows

Amounts in NOK million	2019	2018
Net income	4,668	1,015
Depreciation	71	21
Net foreign exchange (gain) loss	42	(453)
Changes in receivables and payables, and other items	586	(794)
Net cash provided by (used in) operating activities	5,367	(211)
Net purchases of other investments	(28)	(46)
Net cash used in investing activities	(28)	(46)
Dividends paid	(2,558)	(3,581)
Proceeds from shares issued	24	44
Other financing activities, net	2,463	(1,103)
Net cash used in financing activities	(71)	(4,640)
Foreign currency effects on cash	103	(8)
Net increase (decrease) in cash and cash equivalents	5,371	(4,905)
Cash and cash equivalents at beginning of year	2,984	7,889
Cash and cash equivalents at end of year	8,355	2,984

# Notes to the financial statements Norsk Hydro ASA

# Note 1 Summary of significant accounting policies

The financial statements of Norsk Hydro ASA are prepared in accordance with the Norwegian accounting act and regulation on simplified application of international accounting standards (forskrift om forenklet anvendelse av internasjonale regnskapsstandarder – simplified IFRS).

Financial statement preparation requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues and expenses as well as disclosures of contingencies. Actual results may differ from estimates. Interest rates used for calculating net present values are rounded to the nearest 10 basis points for post employment benefits, to the nearest 25 basis points for other non-financial assets and liabilities. As a result of rounding adjustments, the figures in one or more columns included in the financial statements may not add up to the total of that column.

#### Transition from accounting principles generally accepted in Norway to simplified IFRS

Norsk Hydro ASA has elected to implement simplified IRS as of the fiscal year 2019. The change is a response to increased differences between IFRS as applied in the consolidated financial statements, and accounting principles generally accepted in Norway which were applied by Norsk Hydro ASA in prior years. The transition is applied retrospectively, i.e. comparable information for 2018 has been reviewed for possible differences. No measurement differences have been identified in the comparable period.

#### Changes in accounting principles in 2019

Norsk Hydro ASA implemented IFRS 16 Leases in 2019. The standard is, as allowed in the transition regulation of the standard, implemented retrospectively with the cumulative effect of initially applying the standard recognized as at the date of implementation, January 1, 2019. Norsk Hydro ASA has further elected to utilize the practical expedient available for measuring leased assets currently accounted for as operating leases at an amount equal to the lease liability, adjusted for any prepaid or accrued lease payments. Leased assets with a remaining lease period of less than 12 months at transition were excluded from lease accounting. Further, leases of assets of a low value, manly such items as PCs, office equipment and similar, are excluded from lease accounting. When measuring leases, fixed lease payments for extension periods reasonably certain to be used are included. As a practical expedient, non-lease components are not separated from lease contracts.

#### Leased assets

Leases are, for the fiscal year 2018, assessed under IAS 17 Leases. Lease arrangements that transferred the majority of risks and control to Hydro were considered financial lease and recognized as asset and liability. Payments under other leases and rental arrangements were expensed over the lease term.

### Shares in subsidiaries, associates and jointly controlled entities

Shares in subsidiaries, associates and jointly controlled entities are presented according to the cost method. Group relief received is included in dividends from subsidiaries. Dividend from subsidiaries is recognized in the year for which it is proposed by the subsidiary to the extent Norsk Hydro ASA can control the decision of the subsidiary through its share holdings. Shares in subsidiaries, associates and jointly controlled entities are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may exceed the fair value of the investment. An impairment loss is reversed if the impairment situation is deemed to no longer exist.

#### **Employee retirement plans**

Norsk Hydro ASA accounts for employee retirement plans are measured in accordance with IAS 19, see note 9.5 Employee retirement plans to the consolidated financial statements for additional information.

#### Foreign currency

The functional currency of the company is the Norwegian krone, NOK. Realized and unrealized currency gains or losses on transactions denominated in other currencies than NOK, as well as currency gains or losses on assets and liabilities denominated in a currency other than NOK, are included in Financial income, net.

#### Cash and cash equivalents

Cash and cash equivalents include cash, bank deposits and all other monetary instruments with a maturity of less than three months at the date of purchase.

#### **Short-term investments**

Short-term investments include bank deposits and all other monetary instruments with a maturity between three and twelve months at the date of purchase and current listed equity and debt securities held for trading and valued at fair value. The resulting unrealized holding gains and losses are included in Financial income, net. Investment income is recognized when earned.

#### Property, plant and equipment

Property, plant and equipment is carried at historical cost less accumulated depreciation and impairment losses. According to IAS 36 Impairment of Assets, such assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. The impairment of long-lived assets is recognized when the recoverable amount determined as the higher of fair value less cost to sell or value in use of the asset or group of assets is less than the carrying value. The amount of the impairment is the difference between the carrying value and the recoverable amount. An impairment loss is reversed if the impairment situation is deemed to no longer exist.

#### Intangible assets

Intangible assets acquired individually or as a group are recognized at fair value when acquired, in accordance with IAS 38 Intangible Assets. Intangible assets are amortized on a straight-line basis over their useful life and tested for impairment whenever indications of impairment are present.

Norsk Hydro ASA accounts for  $CO_2$  emission allowances at cost as an intangible asset. The emission rights are not amortized, impairment testing is done on an annual basis. Sale of  $CO_2$  emission rights is recognized at the time of sale at the transaction price.

#### **Derivative instruments**

Forward contracts and options for purchase or sale of currency or commodities that are considered readily convertible to cash are recognized in the financial statements and measured at fair value at each balance sheet date with the resulting unrealized gain or loss recorded in Financial income, net.

Norsk Hydro ASA has decided to utilize the option in the regulation to exclude embedded derivatives and contracts deemed to be derivatives based on the underlying product being readily convertible to cash and not for own use when the contract is with a subsidiary.

#### **Provisions**

Provisions are recognized when Norsk Hydro ASA has a present obligation (legal or constructive) as a result of a past event, it is probable (more likely than not) that Norsk Hydro ASA will be required to settle the obligation, and a reliable estimate can be made of the amount, taking into account the risks and uncertainties. The provision is measured at the present value of the cash flows estimated to settle the obligation. Uncertain outcomes are measured as the expected value of reasonably possible outcomes.

#### **Contingencies and guarantees**

Norsk Hydro ASA recognizes a liability for the fair value of obligations it has undertaken in issuing guarantees. Contingencies are recognized in the financial statements when probable of occurrence and reliably estimable.

#### **Share-based compensation**

Norsk Hydro ASA accounts for share-based payment in accordance with IFRS 2 Share-Based Payment. See note 9.3 Employee remuneration to the consolidated financial statements for additional information.

#### Risk management

For information about risk management in Norsk Hydro ASA see note 8.1 Financial and commercial risk management to the consolidated financial statements.

#### Income taxes

Deferred income tax expense is calculated using the liability method in accordance with IAS 12 Income Taxes. Under the liability method, deferred tax assets and liabilities are measured based on the differences between the carrying values of assets and liabilities for financial reporting and their tax basis which are considered temporary in nature. Deferred income tax related to remeasurements of pension obligations are recognized through Other comprehensive income. The tax effect of equity transactions, excluded transfers to owners, is recognized as a part of the equity transaction and do not affect the income tax expense. Other changes in deferred income tax asset and liability balances during the year represent the deferred income tax expense. Changes resulting from amendments and revisions in tax laws and tax rates are recognized when the new tax laws or rates are enacted.

# Note 2 Employee retirement plans

Norsk Hydro ASA has closed the main defined benefit plans for new members, and the majority of employees are now covered by a defined contribution plan that is based on salaries up to a maximum level subject to tax deduction. For additional salaries, employees earn retirement benefits in an unfunded contribution based plan. The remaining employees are covered by defined benefit plans that offer benefits based on final salary level and the number of years in service, and include benefits for dependents. The plan providing benefits based on salaries up to a maximum level is funded; all vested benefits are required by law to be funded for such plans. Benefits based on salaries above this level are covered by unfunded plans. The main funded

plan is managed by Norsk Hydros Pensjonskasse, an independent pension trust. Hydro's pension plans supplement the public pension schemes in Norway. The plans comply with legal requirements for pension plans in Norway. Plans providing benefits for salary levels above the tax deductible level have been closed for new members from January 1, 2017.

Norsk Hydro ASA participates in a pension plan that entitles the majority of its employees life-long benefits in addition to other pension benefits. The benefits are financed through a pooled arrangement by private sector employers (avtalefestet pensjon, AFP) where also the Norwegian state contributes. The plan is a defined benefit plan with limited funding and where plan assets are not segregated. The information required to calculate the share of the plan and account for the plan as a defined benefit plan is not available from the plan administrator. Hydro therefore accounts for the plan as if it were a defined contribution plan. The annual contributions have increased since inception and are expected to increase further. The employer contributions are included in Multiemployer plans.

#### Pension cost

Amounts in NOK million	2019	2018
Defined benefit plans	36	37
Defined contribution plans	24	20
Multiemployer plans	4	4
Termination benefits and other	1	6
Social security cost	11	8
Pension expense	76	73
Interest expense (income)	(36)	(43)
Remeasurement (gain) loss in other comprehensive income	(613)	445

#### Recognized defined benefit assets and liability

Amounts in NOK million	2019	2018
Defined benefit obligation major plans	(5,230)	(5,306)
Plan assets	7,373	6,699
Reimbursement rights	301	310
Liability other plans	(3)	(3)
Social security cost	(336)	(330)
Net defined benefit asset	2,105	1,371
Recognized prepaid pension	4,826	4,046
Recognized pension liability	(2,721)	(2,675)
Net amount recognized	2,105	1,371

#### Change in defined benefit obligation (DBO)

Amounts in NOK million	2019	2018
Opening Balance	(5,306)	(5,103)
Current service cost	(35)	(36)
Interest expense	(129)	(119)
Actuarial gain (loss) economic assumptions	33	(231)
Experience gain (loss)	(94)	(108)
Benefit payments	302	296
Terminations benefits	(1)	(6)
Closing Balance	(5,230)	(5,306)

#### Change in pension plan assets

Amounts in NOK million	2019	2018
Opening Balance	6,699	6,832
Interest income	166	162
Return on plan assets above (below) interest income	676	(105)
Contributions to plans	25	5
Benefit payments	(193)	(196)
Closing Balance	7,373	6,699

#### Analysis of the defined benefit obligation (DBO)

Amounts in NOK million	2019	2018
Active members	(1,129)	(1,115)
Deferred members	(476)	(468)
Pensioners	(3,625)	(3,722)
Defined benefit obligation	(5,230)	(5,306)

	Benefit obligation	Benefit expense	Benefit obligation	Benefit expense
Assumptions	2019	2019	2018	2018
Discount rate	2.30%	2.50%	2.50%	2.40%
Expected salary increase	2.00%	2.50%	2.50%	2.25%
Expected pension increase	1.25%	1.50%	1.50%	1.00%
Mortality basis	K2013	K2013	K2013	K2013

See note 9.5 Employee retirement plans in notes to the consolidated financial statements for information about sensitivities.

# Note 3 Management remuneration, employee costs and auditor fees

See note 9.2 Management remuneration in the notes to the consolidated financial statements for information and details related to the Corporate Management Board remuneration. Costs for some corporate management board members employed by subsidiaries are charged to Norsk Hydro ASA for services rendered as members of the Corporate Management Board.

See note 9.4 Board of Directors and Corporate Assembly in the notes to the consolidated financial statements for information and details related to the Board of Directors' remuneration.

See note 9.3 Employee remuneration in the notes to the consolidated financial statements for information on the employee share purchase plan.

Partners and employees of Hydro's appointed auditors, KPMG, own no shares in Norsk Hydro ASA or any of its subsidiaries. Audit fees were NOK 6 million and NOK 8 million in 2019 and 2018, respectively. Fees for other services were NOK 2 million in both 2019 and 2018.

The average number of employees in Norsk Hydro ASA was 303 in 2019 as compared to 282 in 2018. As of year end 2019 and 2018, Norsk Hydro ASA employed 319 and 286 employees, respectively.

Total loans given by Norsk Hydro ASA to Norwegian employees as of December 31, 2019 were NOK 106 million. Loans to employees consist of NOK 65 million secured loans (home and car loans) with the remainder unsecured. The unsecured loan balance as of December 31, 2019 related to the employee share purchase plan was NOK 9 million.

Payroll related expenses are presented in the table below.

Amounts in NOK million	2019	2018
Employee benefit expense:		
Salaries	593	467
Social security costs	65	59
Other benefits	5	3
Pension expense (note 2)	76	73
Total	739	603

# Note 4 Property, plant and equipment and intangible asset

Leases expensed in the period amounts to NOK 30 million and refers to leases of short term, low value or leases with variable payments.

Amounts in NOK million	Property, plant and equipment	Intangible assets	Total
Cost December 31, 2018	375	66	441
Effect of change in accounting principle	383	-	383
Additions at cost	21	6	27
Accumulated depreciation and impairment December 31, 2019	(245)	(42)	(286)
Carrying value December 31, 2019	535	30	565
Depreciation and impairment in 2019	(60)	(11)	(71)

Intangible assets mainly consist of software.

# Note 5 Finance income and expense

Amounts in NOK million	2019	2018
Dividends from subsidiaries	5,158	1,218
Interest from group companies	549	475
Other interest income	87	47
Interest paid to group companies	(136)	(102)
Other interest expense	(290)	(213)
Net foreign exchange gain (loss)	(42)	453
Other, net	43	61
Financial income (expense), net	5,369	1,938

### Note 6 Income taxes

The tax effect of temporary differences resulting in deferred tax assets (liabilities) are:

	Temporary differences		
	Tax effec	Tax effect	
	2019	2018	
Amounts in NOK million		Restated	
Short-term items	10	6	
Long-term receivables from subsidiaries	(143)	(158)	
Pensions <sup>1)</sup>	(463)	(302)	
Long-term debt	132	133	
Other long-term items	(65)	(73)	
Deferred tax assets (liabilities)	(529)	(394)	

<sup>1)</sup> Includes NOK (135) million and NOK 92 million of tax benefit (expense) allocated to equity in 2019 and 2018 respectively.

Taxable temporary differences and deductible temporary differences, which reverse or may reverse in the same period, are netted.

#### Reconciliation of tax expense

Amounts in NOK million	2019	2018
Income (loss) before taxes	4,688	1,292
Expected income taxes at statutory tax rate	1,031	297
Dividend exclusion	(1,034)	(30)
Effect of tax rate change	-	(16)
Permanent differences and other, net	22	25
Income taxes	19	276
Components of income taxes		
Current income taxes	19	156
Change in deferred taxes	-	121
Income taxes	19	276

See note 10.1 Income taxes in the consolidated financial statements for further information.

Taxes payable were NOK 46 million per December 31, 2019 and NOK 164 million per December 31, 2018.

### Note 7 Shares in subsidiaries

The following shares in subsidiaries are directly owned by Norsk Hydro ASA.

Company name	Country	Location	Percentage of shares owned by Norsk Hydro ASA	Book value (NOK million)
Hydro Aluminium AS	Norway	Oslo	100.00	51,293
Hydro Energi AS	Norway	Oslo	100.00	5,643
Hydro Aluminium Deutschland GmbH <sup>1)</sup>	Germany	Grevenbroich	25.04	92
Industriforsikring AS	Norway	Oslo	100.00	20
Hydro Kapitalforvaltning AS	Norway	Oslo	100.00	4
Total				57,052

<sup>1)</sup> The company is owned 74.96 percent by Hydro Aluminium AS, and 25.04 percent by Norsk Hydro ASA.

Percentage of shares owned equals percentage of voting shares owned. Several of the above-mentioned companies also own shares in other companies.

In addition to the directly owned subsidiaries listed above, Norsk Hydro ASA has the following subsidiaries with significant operational activities. Sales offices, companies mainly serving as holding companies, and dormant companies, as well as companies holding smaller operational activities are not included in the list below. A full list of subsidiaries is available in Hydro's country by country reporting and at www.hydro.com. The companies are listed by the business area in which the majority of their activities are managed.

Company name	Country	Ownership
Bauxite & Alumina		
ALUNORTE - Alumina do Norte do Brasil S.A.	Brazil	92.13%
Mineração Paragominas SA	Brazil	100.00%
Rolled Products		
Hydro Aluminium Rolled Products GmbH	Germany	100.00%
Hydro Aluminium Rolled Products AS	Norway	100.00%
Primary Metal		
Hydro Aluminium Australia Pty Limited	Australia	100.00%
ALBRAS - Alumínio Brasileiro SA	Brazil	51.00%
Sør-Norge Aluminium AS	Norway	100.00%
Slovalco a.s.	Slovakia	55.30%
Metal Markets		
Extrusion Services S.a.r.l	France	100.00%
Hydro Aluminium Gießerei Rackwitz GmbH	Germany	100.00%
Hydro Aluminium Clervaux S.A.	Luxembourg	100.00%
Hydro Aluminium Iberia S.A.U	Spain	100.00%
Hydro Aluminium Deeside Ltd.	United Kingdom	100.00%
Hydro Aluminium Metals USA, LLC	United States	100.00%
Extruded Solutions		
Hydro Extrusion Nenzing GmbH	Austria	100.00%
Hydro Building Systems Belgium NV	Belgium	100.00%
Hydro Extrusion Lichtervelde NV	Belgium	100.00%
Hydro Extrusion Raeren SA	Belgium	100.00%
Hydro Precision Tubing Lichtervelde NV	Belgium	100.00%
Hydro Extrusion Brasil S.A.	Brazil	100.00%
Hydro Extrusion Canada Inc.	Canada	100.00%
Hydro Precision Tubing (Suzhou) Co. Ltd.	China	100.00%
Hydro Extrusion Denmark A/S	Denmark	100.00%
Hydro Precision Tubing Tønder A/S	Denmark	100.00%
Hydro Building Systems France Sarl	France	100.00%
Hydro Extrusion Albi SAS	France	100.00%
Hydro Extrusion Lucé/Chateauroux SAS	France	100.00%
Hydro Extrusion Puget SAS	France	100.00%
Hydro Building Systems Germany GmbH	Germany	100.00%
Hydro Extrusion Deutschland GmbH	Germany	100.00% 100.00%
Hydro Extrusion Offenburg GmbH	Germany Hungary	100.00%
Hydro Extrusion Hungary Kft	India	100.00%
Sapa Extrusion India Pvt. Ltd.	Italy	100.00%
Hydro Building Systems Italy S.P.A.	Italy	100.00%
Hydro Extrusion Italy S.r.l.	Netherlands	100.00%
Hydro Extrusion Drunen B.V.	Netherlands	100.00%
Hydro Extrusion Hoogezand B.V. Hydro Extrusion Poland Sp. z.o.o	Poland	100.00%
Hydro Extrusion Slovakia a.s.	Slovakia	100.00%
Hydro Building Systems Spain S.L.U.	Spain	100.00%
Hydro Extrusion Spain S.A.U.	Spain	100.00%
Hydro Extrusion Sweden AB	Sweden	100.00%
Hydro Components UK Ltd.	United Kingdom	100.00%
Hydro Extrusion UK Ltd.	United Kingdom	100.00%
Hydro Extruder LLC	United States	100.00%
Hydro Extrusion Delhi LLC	United States	100.00%
Hydro Extrusion North America LLC	United States	100.00%
Hydro Extrusion Portland Inc	United States	100.00%
Hydro Extrusion USA LLC	United States	100.00%
Hydro Precision Tubing USA LLC	United States	100.00%
Energy		
Røldal Suldal Kraft as	Norway	91.26%

#### Note 8 Related party information

Norsk Hydro ASA operates the cash pooling arrangements in Hydro. Further, Norsk Hydro ASA extends loans to subsidiaries, associates and jointly controlled entities at terms and conditions reflecting prevailing market conditions for corresponding services, allowing for a margin to cover administration and risk. See note 5 Financial income and expense for information on interest paid to and received from group companies.

Norsk Hydro ASA allocates costs for corporate staff services and shared services to subsidiaries. The total amount allocated was NOK 138 million in 2019 and NOK 122 million in 2018. Receivables related to such costs amounted to NOK 107 million and NOK 122 million per December 31, 2019 and 2018, respectively.

For information on transactions with employees and management, see Note 3 Management remuneration, employee costs and auditor fees and note 9.2 Management renumeration in the notes to the consolidated financial statements. For information on transactions with Board of Directors and Corporate Assembly see note 9.4 Board of Directors and Corporate Assembly. See note 9.6 Other related party information in the notes to the consolidated financial statements for identification of related parties and primary relationships with those parties. See note 11 for information on guarantees provided on behalf of subsidiaries and jointly controlled entities.

#### Note 9 Specification of balance sheet items

Amounts in NOK million	2019	2018
Securities	535	535
Prepaid pension	4,826	4,046
Other non-current assets	165	152
Total prepaid pension, investments and other non-current assets	5,527	4,733
Pension liability	2,721	2,675
Deferred tax liabilities	529	394
Other long-term provisions	229	304
Total long-term provisions	3,478	3,373

Other long-term provisions include an onerous contract of office space, see note 9.6 Other related party information in the notes to the consolidated financial statements.

#### Note 10 Financial instruments

Norsk Hydro ASA offers currency derivatives to subsidiaries using such instruments for risk management. Contracts are recognized at estimated market value, determined by calculating the contractual cash flows using currency rates at the balance sheet date and discounting those cash flows to a present value. At the end of 2019 and 2018, the value of currency forward contracts outstanding with subsidiaries were as follows:

Amounts in NOK million	2019	2018
Currency forward contracts, short-term	(5)	10
Currency forward contracts, long-term	34	91
Financial income, net	29	100

The contracts represent exposure mainly in Euro. In addition, there are some contracts with exposure to US dollars, British pounds, Swiss franc, Danish krone, Swedish krone, Japanese yen and Turkish lira, representing lower amounts. The contracts mature no later than 2024.

#### Note 11 Guarantees

Norsk Hydro ASA provides guarantees arising in the ordinary course of business including stand-by letters of credit, performance bonds and various payment or financial guarantees. All commercial guarantees are on behalf of subsidiaries.

Amounts in NOK million	2019	2018
		_
Guarantees related to jointly controlled entities	-	348
Commercial guarantees	3,390	3,585
Total guarantees not recognized	3,390	3,934

#### Note 12 Long-term debt

	2019	2018
Amounts in NOK million		Restated
EUR	7,801	-
NOK	2,998	4,497
SEK	1,885	2,915
USD	298	588
Total unsecured loans	12,982	8,000
Lease liabilities	337	383
Outstanding debt	13,319	8,383
Less: Current portion	(1,292)	(2,829)
Total long-term debt	12,027	5,554

As of December 31, 2019, long-term debt that falls due after 2024 amounted to NOK 7,988 million. See note 7.4 Short and long-term debt in notes to the consolidated financial statements for further information.

#### Note 13 Number of shares outstanding, shareholders and equity reconciliation

The share capital of Norsk Hydro ASA as of December 31, 2019 was NOK 2,271,760,107 consisting of 2,068,998,276 ordinary shares at NOK 1.098 per share. As of December 31, 2019, Norsk Hydro ASA had purchased 21,349,486 treasury shares at a cost of NOK 711 million. See Consolidated statements of changes in equity and note 7.6 Shareholders' equity for additional information.

The table shows shareholders holding one percent or more of the total 2,047,648,790 shares outstanding as of December 31, 2019, according to information in the Norwegian securities' registry system (Verdipapirsentralen).

Name	Number of shares
The Ministry of Trade, Industry and Fisheries of Norway	708,865,253
State Street Bank and Trust Comp <sup>1)</sup>	130,324,785
Folketrygdfondet	110,114,072
Clearstream Banking S.A. <sup>1)</sup>	55,088,438
JPMorgan Chase Bank, N.A., London <sup>1)</sup>	47,394,849
Vanguard International Growth FD	38,345,698
Verdipapirfondet Dnb Norge (IV)	37,015,334
Banque Pictet & Cie SA <sup>1)</sup>	33,603,606
HSBC Bank PLC 1)	27,085,596
JPMorgan Chase Bank, N.A., London <sup>1)</sup>	22,313,227
State Street Bank and Trust Comp <sup>1)</sup>	21,220,272

Nominee accounts.

#### Changes in equity

Amounts in NOK million	Paid-in capital	Retained earnings	Total equity
December 31, 2018	31,373	27,891	59,265
Total Comprehensive Income		5,146	5,146
Dividend proposed		(2,560)	(2,560)
Treasury shares	(2)	43	42
December 31, 2019	31,372	30,521	61,893

#### Note 14 Changes in accounting principles

Norsk Hydro ASA implemented IFRS 16 Leases in 2019. The implementation in the parent company financial statements was done at the same time and the same method as described in note 10.5 Changes in accounting principles and new pronouncements to the consolidated financial statements. The effects of the implementation of IFRS 16 relate to the rental contract for Hydro's headquarters in Oslo, Norway. The effects on the opening balance is summarized in the table below.

Change of accounting policies, amounts in NOK million	Effect of implementing IFRS 16
Property, plant and equipment	383
Long-term debt	321
Bank loans and other interest-bearing short-term debt	61
Total equity and liabilities	383

# Responsibility statement

We confirm to the best of our knowledge that the consolidated financial statements for 2019 have been prepared in accordance with IFRS as adopted by the European Union, as well as additional information requirements in accordance with the Norwegian Accounting Act, that the financial statements for the parent company for 2019 have been prepared in accordance with the Norwegian Accounting Act and generally accepted accounting practice in Norway, and that the information presented in the financial statements gives a true and fair view of the assets, liabilities, financial position and result of Norsk Hydro ASA and the Hydro Group for the period. We also confirm to the best of our knowledge that the Board of Directors' Report includes a true and fair review of the development, performance and financial position of Norsk Hydro ASA and the Hydro Group, together with a description of the principal risks and uncertainties that they face, and that the country by country report for 2019 has been prepared in accordance with the Norwegian Accounting Act §3-3d and the Norwegian Security Trading Act §5-5a.

Oslo, March 10, 2020

Dag Mejdel Chair

Finn Jebsen Board member

Sten Roar Martinsen Board member

Marianne Wiinholt Board member Irene Rummelhoff Deputy chair

Liselott Kilaas Board member

Thomas Schulz
Board member

Arve Baade Board member

Peter Kukielski Board member

Svein Kåre Sund Board member

Hilde Merete Aasheim President and CEO

### Independent auditor's report



To the Annual Shareholders' Meeting of Norsk Hydro ASA

#### Report on the Audit of the Financial Statements

#### **Opinion**

We have audited the financial statements of Norsk Hydro ASA. The financial statements comprise:

- The financial statements of the parent company Norsk Hydro ASA (the Company), which comprise the balance sheet as at 31 December 2019, the income statement, statement of comprehensive income and statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies, and
- The consolidated financial statements of Norsk Hydro ASA and its subsidiaries (the Group), which comprise the balance sheet as at 31 December 2019, the income statement, statement of comprehensive income, statement of changes in equity, statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

#### In our opinion:

- The financial statements are prepared in accordance with the law and regulations.
- The accompanying financial statements give a true and fair view of the financial position of the Company as at 31 December 2019, and its financial performance and its cash flows for the year then ended in accordance with simplified application of international accounting standards according to section 3-9 of the Norwegian Accounting Act ("Simplified IFRS").
- The accompanying consolidated financial statements give a true and fair view of the financial position of the Group as at 31 December 2019, and its financial performance and its cash flows for the year then ended in accordance with International Financial Reporting Standards as adopted by the EU ("IFRS").

#### **Basis for Opinion**

We conducted our audit in accordance with laws, regulations, and auditing standards and practices generally accepted in Norway, including International Standards on Auditing (ISAs). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the Company and the Group as required by laws and regulations, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### **Key Audit Matters**

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

Provisions for environmental clean-up cost and asset retirement obligations

Refer to Note 1.1 Reporting entity, basis of preparation and significant accounting policies, and Note 4.1 Uncertain assets and liabilities.

#### The key audit matter

The Group is involved in operations such as bauxite mining, alumina refining, primary aluminium production and extrusion activities.

There is an inherent risk that these operations may generate significant obligations related to site restoration, reforestation and other remediation work. Such potential obligations are dependent on the jurisdictions in which the company operates and changes in the relevant political and legislative environments.

Management decisions to expand, curtail or terminate operations in specific locations can impact obligations as described above.

Estimating and calculating such environmental obligations obligations requires significant management judgement. The risk of inaccurate estimates is increased due to the uncertainty of scope and timing of such obligations and the limited amount of historical data available

The Group has recognized environmental clean-up provisions and asset retirement obligations of NOK 4,110 million as explained in note 4.1 Uncertain assets and liabilities.

#### How the matter was addressed in our audit

Our audit procedures in this area included:

- Assessing the estimated cost and timing of activities applied in the calculations by comparing management forecasts with prior year estimates
- Comparing management's assumptions to relevant market data to test the reasonableness of discount rates, inflation rates, foreign exchange rates, HR data and other key assumptions used in the calculations
- Assessing the accounting treatment for compliance with IFRS and consistency of application, in particular related to the extent to which obligations are capitalized or expensed and the amortization period for capitalized assets
- Testing, with assistance from our valuation specialists, the mathematical accuracy of the models used to calculate provisions and asset retirement obligations
- Assessing the adequacy of the disclosures pertaining to estimation uncertainty, provisions and contingent liabilities.

#### Impairment assessment of goodwill, intangible and non-current assets

Refer to Note 1.1 Reporting entity, basis of preparation and significant accounting policies, Note 2.1. Property, plant and equipment, Note 2.2 Intangible assets, Note 2.3 Goodwill, 2.4 Depreciation and amortization expense, and 2.5 Impairment of non-current assets.

#### The key audit matter

The Group's operations are sensitive to certain commodity prices and other factors, including aluminum and alumina prices, energy prices, inflation rates, relevant foreign exchange rates and production volumes which impact key assumptions in cash flow forecasts and can give rise to impairment indicators.

Management exercise judgement related to expected timing of future cash flows and key assumptions

The economic environment and volatility of long-term assumptions indicate that impairment could be a risk related to specific assets and cash generating units and can also impact the assessment of impairment of goodwill.

Certain plants are also sensitive to the uncertainty related to renewal of power contracts expiring within 2 to 5 years.

Impairment charges of 912 were recognized in 2019 that consists of:

- NOK 506 million in relation to the Slovalco primary aluminium plant
- NOK 145 related to undeveloped bauxite resources that were concluded not probable for development
- NOK 255 million related to announced closure and sale of production facilities in Extruded Solutions.

As at 31 December 2019, the Group has goodwill of NOK 6,551 million, Property, plant and equipment of NOK 74,243 million and intangible assets of NOK 4,951million.

#### How the matter was addressed in our audit

Our audit procedures in this area included:

- Assessing management's process and results for identification and classification of CGU's and assessing whether they were appropriate and in accordance with relevant accounting standards
- Evaluating management's assessment of impairment indicators
- Performing retrospective reviews of the accuracy of management's estimates in terms of timing of cash outflows and other assumptions such as long-term pricing where historical data is available
- Evaluating and challenging the forecasted cash flows including timing of future cash flows applied in the models with reference to historical accuracy and approved business plans
- Testing the sensitivity of movements in key assumptions
- Evaluating, with assistance from our valuation specialists, key assumptions such as aluminium and alumina prices, inflation rates, energy and fuel prices, relevant foreign exchange rates and discount rates by reference to external sources and relevant benchmarks
- Testing the mathematical accuracy of the models used to calculate value in use
- Assessing the adequacy of the disclosures related to impairment

#### Other information

Management is responsible for the other information. The other information comprises the information included in the Annual Report, except the financial statements and our auditor's report thereon.

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

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

If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

Responsibilities of the Board of Directors and the President and CEO ("Management") for the Financial Statements
The Board of Directors and the President and CEO ("Management") are responsible for the preparation in accordance with
law and regulations, including fair presentation of the financial statements of the Company in accordance with simplified
IFRS, and for the preparation and fair presentation of the financial statements of the Group in accordance with IFRS, and for
such internal control as management determines is necessary to enable the preparation of financial statements that are free
from material misstatement, whether due to fraud or error.

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

#### Auditor's Responsibilities for the Audit of the Financial Statements

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

As part of an audit in accordance with laws, regulations, and auditing standards and practices generally accepted in Norway, including ISAs, we exercise professional judgment and maintain professional scepticism throughout the audit. We also:

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

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

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

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

#### Report on Other Legal and Regulatory Requirements

#### Opinion on the Board of Directors' report

Based on our audit of the financial statements as described above, it is our opinion that the information presented in the Board of Directors' report and in the statements on Corporate Social Responsibility concerning the financial statements and the going concern assumption is consistent with the financial statements and complies with the law and regulations.

#### **Opinion on Registration and Documentation**

Based on our audit of the financial statements as described above, and control procedures we have considered necessary in accordance with the International Standard on Assurance Engagements (ISAE) 3000, Assurance Engagements Other than Audits or Reviews of Historical Financial Information, it is our opinion that management has fulfilled its duty to produce a proper and clearly set out registration and documentation of the Company's accounting information in accordance with the law and bookkeeping standards and practices generally accepted in Norway.

Oslo, 10 March 2020 KPMG AS

Lars Inge Pettersen State Authorised Public Accountant

Note: This translation from Norwegian has been prepared for information purposes only.

# Statement of the Corporate Assembly to the Annual general meeting of Norsk Hydro ASA

The Board of Directors' proposal for the financial statements for the financial year 2019 and the Auditors' report have been submitted to the corporate assembly.

The Corporate Assembly recommends that the directors' proposal regarding the financial statements for 2019 for the parent company, Norsk Hydro ASA, and for Norsk Hydro ASA and its subsidiaries be approved by the annual general meeting, and that the net income for 2019 of Norsk Hydro ASA be appropriated as recommended by the directors.

Oslo, March 10, 2020

Terje Venold

# Appendices to the Board of Directors' report

- 120 Alternative Performance Measures (APMs)
- 125 Country by country report
- 137 Norwegian code of practice for corporate governance
- 143 UK Modern Slavery Act transparency statement

#### **Quick overview**

This section contains information that is part of the Board of Directors' formal responsibility and exceeding the information required directly in the Board of Directors' report.

All documents are approved by the Board of Directors and included in their signatures to the Board of Directors' Report.

The Country by Country report is also included in the Board of Directors' responsibility statement in the financial statements, as required by the Norwegian Accounting Act §3-3d and the Norwegian Securities Act §5-5a.

### Alternative Performance Measures (APMs)

Alternative performance measures, i.e. financial performance measures not within the applicable financial reporting framework, are used by Hydro to provide supplemental information, by excluding items that, in Hydro's view, does not give an indication of the periodic operating results or cash flows of Hydro. Financial APMs are intended to enhance comparability of the results and cash flows from period to period, and it is Hydro's experience that these are frequently used by analysts, investors and other parties. Management also uses these measures internally to drive performance in terms of long-term target setting and as basis for performance related pay. These measures are adjusted IFRS measures defined, calculated and used in a consistent and transparent manner over the years and across the company where relevant. Operational measures such as, but not limited to, volumes, prices per mt, production costs and improvement programs are not defined as financial APMs. To provide a better understanding of the company's underlying financial performance for the relevant period, Hydro focuses on underlying EBIT in the discussions on periodic *underlying* financial and operating results and liquidity from the business areas and the group, while effects excluded from underlying EBIT and net income (loss) are discussed separately in the section on reported EBIT and net income. Financial APMs should not be considered as a substitute for measures of performance in accordance with the IFRS. Disclosures of APMs are subject to established internal control procedures.

#### Hydro's financial APMs

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- EBIT: Earnings before financial items and tax.
- Underlying EBIT: EBIT +/- identified items to be excluded from underlying EBIT as described below.
- EBITDA: EBIT + depreciation, amortization and impairments, net of investment grants.
- Underlying EBITDA: EBITDA +/- identified items to be excluded from underlying EBIT as described below + impairments.
- Underlying net income (loss): Net income (loss) +/- items to be excluded from underlying income (loss) as described below.
- *Underlying earnings per share*: Underlying net income (loss) attributable to Hydro shareholders divided by a weighted average of outstanding shares (ref.: note 7.6 to the consolidated financial statements).
- Investments: Additions to property, plant and equipment (capital expenditures) plus long-term securities, intangible assets, long-term advances and investments in equity accounted investments, including amounts recognized in business combinations.
- Adjusted net cash (debt): Short- and long-term interest-bearing debt adjusted for Hydro's liquidity positions, and for liquidity positions regarded unavailable for servicing debt, pension obligation and other obligations which are considered debt-like in nature.
- Adjusted net cash (debt) to equity ratio: Adjusted net cash (debt)/total equity.
- Funds from operations to adjusted net cash (debt) ratio: Cash generation from Hydro's wholly and partly owned operating entities before changes in net operating capital, including the contribution from equity accounted investments, and after current tax expense/adjusted net cash (debt).
- (Underlying) RoaCE: (Underlying) RoaCE is defined as (underlying) "Earnings after tax" divided by average "Capital employed". (Underlying) "Earnings after tax" is defined as (underlying) "Earnings before financial items and tax" less "Adjusted income tax expense". Since RoaCE represents the return to the capital providers before dividend and interest payments, adjusted income tax expense excludes the tax effects of items reported as "Finance income (expense), net" and in addition, for underlying figures, the tax effect of items excluded. "Capital employed" is defined as "Shareholders' Equity", including non-controlling interest plus long-term and short-term interest-bearing debt less "Cash and cash equivalents" and "Short-term investments.
- Capital expenditure (Capex): "Purchase of property, plant and equipment" plus "Purchase of other Long-term investments", adjusted for elements that are not considered cash effective.
- Net operating capital: "Trade and other receivables" plus "Inventories" less "Trade and other payables", adjusted for elments that are not considered to be of an operating nature.
- Cash effective change in net operating capital: Changes to "Trade and other receivables" plus/minus changes to "Inventories" plus/minus changes to "Trade and other payables".
- Free cash flow: "Net cash provided by operating activities" less "Net cash used in investing activities", adjusted for "Purchases of short-term investments and "Sales of short-term investments".

#### Items excluded from underlying EBIT, EBITDA, net income (loss) and earnings per share

Hydro has defined two categories of items which are excluded from underlying results in all business areas, equity accounted investments and at group level. One category is the timing effects, which are unrealized changes to the market value of certain derivatives and the metal effect in Rolled Products. When realized, effects of changes in the market values since the inception are included in underlying EBIT. Changes in the market value of the trading portfolio are included in underlying results. The other category includes material items which are not regarded as part of underlying business performance for the period, such as major rationalization charges and closure costs, major impairments of property, plant and equipment, effects of disposals of businesses and operating assets, as well as other major effects of a special nature. Materiality is defined as items with a value above NOK 20 million. All items excluded from underlying results are reflecting a reversal of transactions recognized in the financial statements for the current period, except for the metal effect. Part-owned entities have implemented similar adjustments.

- *Unrealized derivative effects on LME related contracts* include unrealized gains and losses on contracts measured at market value, which are used for operational hedging purposes related to fixed-price customer and supplier contracts, where hedge accounting is not applied. Also includes elimination of changes in fair value of certain internal physical aluminium contracts.
- *Unrealized derivative effects on power and raw material contracts* include unrealized gains and losses on embedded derivatives in raw material and power contracts for Hydro's own use and for financial power contracts used for hedging purposes, as well as elimination of changes in fair value of embedded derivatives within certain internal power contracts.
- Metal effect in Rolled Products is an effect of timing differences resulting from inventory adjustments due to changing aluminium prices during the production, sales and logistics process, lasting two to three months. As a result, margins are impacted by timing differences resulting from the FIFO inventory valuation method (first in, first out), due to changing aluminium prices during the process. The effect of inventory write-downs is included. Decreasing aluminium prices in Euro results in a negative metal effect on margins, while increasing prices have a positive effect.
- Significant rationalization charges and closure costs include costs related to specifically defined major projects, and not considered to reflect periodic performance in the individual plants or operations. Such costs involve termination benefits, dismantling of installations and buildings, clean-up activities that exceed legal liabilities, etc. Costs related to regular and continuous improvement initiatives are included in underlying results.
- Impairment charges (PP&E and equity accounted investments) relate to significant write-downs of assets or groups of assets to estimated recoverable amounts in the event of an identified loss in value. Gains from reversal of impairment charges are simultaneously excluded from underlying results.
- Alunorte agreements provision refers to the provision recognized in relation to the TAC and TC agreements with the Government of Parà and Ministèrio Pùblico made on September 5, 2018.
- Other effects include insurance proceeds covering asset damage, legal settlements, etc. Insurance proceeds covering lost income are included in underlying results.
- Pension includes recognition of pension plan amendments and related curtailments and settlements.
- *Transaction related effects* reflect the net measurement (gains) losses relating to previously owned shares in acquired businesses and inventory valuation expense related to these transactions, as well as a net (gain) loss on divested businesses and/or individual major assets.
- Items excluded in equity accounted investments reflects Hydro's share of items excluded from underlying net income in Qatalum and are based on Hydro's definitions, including both timing effects and material items not regarded as part of underlying business performance for the period.
- Net foreign exchange (gain) loss: Realized and unrealized gains and losses on foreign currency denominated accounts receivable and payable, funding and deposits, embedded currency derivatives in certain power contracts and forward currency contracts purchasing and selling currencies that hedge net future cash flows from operations, sales contracts and operating capital.
- Calculated income tax effect: In order to present underlying net income on a basis comparable with our underlying operating performance, the underlying income taxes are adjusted for the expected taxable effects on items excluded from underlying income before tax.
- Other adjustments to net income include other major financial and tax related effects not regarded as part of the underlying business performance of the period.

Items excluded from underlying EBIT <sup>1)</sup>	Year	Year
NOK million	2019	2018
Alunorte agreements - provision <sup>2)</sup>	80	519
Impairment charges <sup>5)</sup>	145	319
Bauxite & Alumina	225	<u> </u>
Unrealized derivative effects on LME related contracts	90	(143)
Unrealized derivative effects on power contracts		(218)
•	(17) 506	(210)
Impairment charges <sup>5)</sup>		(204)
Primary Metal	579	(361)
Unrealized derivative effects on LME related contracts	235	(200)
Metal Markets	235	(200)
Unrealized derivative effects on LME related contracts	(82)	111
Metal effect	370	(73)
Significant rationalization charges and closure costs <sup>3)</sup>	1,088	39
Other effects <sup>4)</sup>	(99)	-
Rolled Products	1,277	77
Unrealized derivative effects on LME related contracts	(163)	299
Impairment charges <sup>5)</sup>	255	-
Significant rationalization charges and closure costs <sup>3)</sup>	396	40
Pension <sup>6)</sup>	(62)	40
Transaction related effects 7)	21	-
Other effects <sup>8)</sup>	209	237
Extruded Solutions	656	616
Unrealized derivative effects on power contracts	(6)	(7)
Other effects <sup>9)</sup>	(42)	-
Energy	(48)	(7)
Unrealized derivative effects on power contracts <sup>10)</sup>	(75)	(36)
Unrealized derivative effects on LME related contracts <sup>10)</sup>	11	(27)
Other effects <sup>11)</sup>	-	(34)
Other and eliminations	(64)	(97)
Items excluded from underlying EBIT	2,860	547

- 1) Negative figures indicate reversal of a gain and positive figures indicate reversal of a loss.
- 2) Alunorte agreements provision relates to provisions for the TAC and TC agreements with the Government of Parà and Ministèrio Pùblico made on September 5, 2018, including later adjustments for changes in cost estimates.
- 3) Significant rationalization and closure costs include a provision for costs related to reduction of overcapacity, closures and environmental clean-up activities in Rolled Products and Extruded Solutions
- 4) Other effects in Rolled Products refer to a partly reversal of provisions recognized in 2017 related to the customs case in Germany.
- 5) Impairment charges include write downs of undeveloped bauxite resources in Brazil considered unlikely for future development, the Slovalco smelter and various assets in Extruded Solutions.
- 6) Pension in Extruded Solutions include in 2019 a gain of NOK 62 million due to partially settled pension liabilities in Hydro Extrusion US LLC and in 2018 a charge of NOK 40 million due to remeasurement of all UK schemes with Guaranteed Minimum Pensions (GMP) required to be adjusted to equalize pension benefits for gender. The remeasurement is based on accrued pension benefits in the period between 1990 and 1997.
- 7) Transaction related effects in Extruded Solutions include for 2019 a net gain of NOK 14 million related to divestment of a plant and a loss of NOK 35 million related to revaluation of
- Hydro's pre-transactional 50 percent share in Technal Middle East and to fair value allocated to sold inventory.

  8) Other effects in Extruded Solutions include for 2019 an environmental provision of NOK 171 million related to a closed site. A charge of NOK 39 million are adjustments to the value of certain assets in relation to the Sapa acquisition. In 2018 other effects include a charge of NOK 80 million due to adjustments to the value of certain assets in relation to the Sapa acquisition. Subsequent to the release of fourth quarter 2018 on February 7, 2019, an agreement in principle was reached between Sapa Profiles Inc. (SPI) and the United States Department of Justice (DOJ) Civil and Criminal Divisions. Following the agreement, an increase, NOK 157 million, of the provision was recognized in the final annual results of 2018 (see note 35 in the 2018 Annual report).
- 9) Other effects in Energy include for 2019 a dilution gain of NOK 42 million as the effect of an equity issuance in our associate Corvus, reducing our ownership share from 24.8 to 21.1 percent.
- 10) Unrealized derivative effects on power contracts and LME related contracts result from elimination of changes in the valuation of embedded derivatives within certain internal power contracts and in the valuation of certain internal aluminium contracts.
- 11) Other effects in Other and eliminations in 2018 include the remeasurement of environmental liabilities related to closed business in Germany.

Underlying EBITDA	Year	Year
NOK million	2019	2018
EBITDA <sup>1)</sup>	9,878	15,796
Items excluded from underlying EBIT	2,860	547
Reversal of impairments <sup>2)</sup>	(906)	-
Underlying EBITDA	11,832	16,344

<sup>1)</sup> See Note 1.4 Operating and geographic segment information in the Financial statements

<sup>2)</sup> See the section Reported EBIT and net income in the Board of Directors' report

Underlying earnings per share	Year	Year
NOK million	2019	2018
Net income (loss)	(2,370)	4,323
Items excluded from underlying net income (loss) <sup>1)</sup>	3,078	1,495
Underlying net income (loss)	708	5,819
Underlying net income attributable to non-controlling interests	(365)	184
Underlying net income attributable to Hydro shareholders	1,073	5,635
Number of shares	2,047	2,046
Underlying earnings per share	0.52	2.75

<sup>1)</sup> See Items excluded from underlying net income (loss) in the section Financial results in the Board of Directors' report

### Adjusted net cash (debt), adjusted net cash (debt) to equity ratio and funds from operations to adjusted net cash (debt) ratio

Hydro's capital management measures are described in Note 7.1 Capital management in the Financial statements, including reconciliations and comparable information

#### **Underlying Return on average Capital Employed (RoaCE)**

Hydro uses underlying RoaCE to measure the performance for the group as a whole and within its operating segments, both in absolute terms and comparatively from period to period. Management views this measure as providing additional understanding of the rate of return on investments over time in each of its capital intensive businesses and in the operating results of its business segments.

Earnings after tax	Re	Reported		Underlying	
NOK million	2019	2018	2019	2018	
EBIT	499	8,522	3,359	9,069	
Adjusted Income tax expense <sup>1)</sup>	(1,430)	(2,757)	(2,055)	(2,721)	
Earnings after tax	(931)	5,765	1,304	6,348	

Capital Employed NOK million	Dec 31 2019	Sep 30 2019	Jun 30 2019	Mar 31 2019	Dec 31 2018	Sep 30 2018	Jun 30 2018	Mar 31 2018
Current assets <sup>2)</sup>	40,410	45,387	46,375	48,895	48,027	46,381	46,757	44,229
Property, plant and equipment	74,243	74,025	73,193	72,882	71,299	66,251	66,683	69,945
Other non-current assets	36,494	36,103	35,729	35,493	35,559	34,608	34,901	34,205
Current liabilities <sup>3)</sup>	(23,534)	(23,811)	(24,702)	(26,819)	(26,444)	(25,803)	(26,327)	(25,473)
Non-current liabilities <sup>3)</sup>	(31,771)	(32,509)	(29,882)	(28,958)	(29,018)	(27,482)	(27,325)	(28,170)
Capital Employed	95,841	99,195	100,713	101,494	99,422	93,954	94,689	94,736

	Rep	orted	Underlying			
Return on average Capital Employed (RoaCE) <sup>4)</sup>	2019	2018 (Restated)	2019	2018 (Restated)		
Hydro	(0.9) %	60%	1.3 %	66%		

<sup>1)</sup> Adjusted Income tax expense is based on reported and underlying tax expense adjusted for tax on financial items.

<sup>2)</sup> Excluding cash and cash equivalents and short-term investments.

<sup>3)</sup> Excluding interest-bearing debt.

<sup>4)</sup> Average Capital Employed measured over the last 4 quarters to reflect the return for the full year. Restated from measuring only opening and closing balance (2 quarter average)

#### Capital expenditure (Capex)

Capex is a measure for the cash amount spent on investment activities related to property, plant and equipment and other long-term investments as recognized in the consolidated statements of cash flows for the period. Hydro uses this measure to drive optimization of capital allocation.

#### Capital expenditure

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NOK million	2019	2018
Purchase of property, plant and equipment	(8,726)	(7,219)
Purchase of other long-term investments	(698)	(389)
Sum	(9,424)	(7,608)
Adjustments <sup>1)</sup>	(219)	(191)
Capital expenditure	(9,643)	(7,799)

<sup>1)</sup> Adjusted for changes in prepayments and payables for capex, indirect taxes reclassification, Enova investment grant, transaction related adjustments

#### Net operating capital and Cash effective change in net operating capital

These measures are used by Hydro to monitor and follow up on cash generation and to drive financial performance.

Net operating capital NOK million	Dec 31 2019	Sep 30 2019	Dec 31 2018	Sep 30 2018
Trade and other receivables <sup>1)</sup>	18,959	23,007	20,744	21,727
Inventories <sup>1)</sup>	20,816	21,679	26,483	23,916
Trade and other payables <sup>1)</sup>	(18,692)	(19,716)	(20,381)	(19,906)
Sum	21,083	24,971	26,845	25,736
Adjustments <sup>2)</sup>	42	250	321	310
Net operating capital	21,125	25,221	27,166	26,046

<sup>1)</sup> See Consolidated balance sheets

#### Cash effective change in net operating capital

NOK million	2019	2018
Change in Trade and other receivables <sup>1)</sup>	1.869	(1,412)
Change in Inventories <sup>1)</sup>	5,552	(5,599)
Change in Trade and other payables <sup>1)</sup>	(1,812)	675
Cash effective change in net operating capital	5,609	(6,336)

<sup>1)</sup> See Consolidated statements of cash flows

#### Free cash flow

Free cash flow is a measure of the net cash generation after investing activities. Hydro uses this measure to drive financial performance.

#### Free cash flow

NOK million	2019	2018
Net cash provided by operating activities <sup>1)</sup>	12,550	7,025
Net cash used in investing activities <sup>1)</sup>	(9,173)	(7,196)
Adjusted for Purchases of short-term investments <sup>1)</sup>	52	-
Adjusted for Sales of short-term investments <sup>1)</sup>	(18)	-
Free cash flow	3,411	(171)

<sup>1)</sup> See Consolidated statements of cash flows

<sup>2)</sup> Elements that are not considered to be of an operating nature, e.g., short-term income tax receivables, external accrued interest expense, prepayments and payables for investments, accrued dividends, provision for loss on power purchase agreement, periodization of revenues not yet invoiced

# Country by country report

Hydro's country by country report has been developed to comply with legal requirements as stated in the Norwegian Accounting Act §3-3d and the Norwegian Security Trading Act §5-5a, valid from 2014, and updated in 2017, and replaces our former reporting on payments to host governments according to the Extractive Industries Transparency Initiative (EITI). Our reporting includes, and goes beyond, the EITI requirements. According to the Norwegian Accounting Act, the country-by-country reporting should be on a project level, and payments should be reported per public authority. Following a thorough evaluation, we have defined "project" as legal entity in the report, and "public authority" as the three levels federal; state(s); and municipality(-ies).

The reporting requirement applies to Hydro as a Norwegian listed company with exploration and extractive activities. Currently, this includes Hydro's consolidated operations in Brazil, through exploration and extractive activities in Paragominas, in the state of Pará. On a voluntary basis, and in line with our EITI reporting since 2005, we also include the alumina refinery Alumorte. Alumina is refined from bauxite and is the commercial product from Hydro's Bauxite & Alumina business area.

Hydro's primary aluminium production facility Albras is also closely linked to the extraction of raw materials in Pará. In order to better illustrate the tax contribution from Hydro's aluminium value chain in Pará, Albras is included on a voluntary basis in the country-by-country report. In addition, Hydro voluntarily report on indirect tax contributions not covered by the requirements in the country by country report.

To comply with the Norwegian country-by-country regulation, Hydro is required to report on certain information at corporate level related to legal entities, where they are registered, number of employees, and interest paid to other legal entities in Hydro within another jurisdiction. From 2017, it is also required to give a short description of each legal entity's activities, revenue, income before tax, tax accrued and paid in the reporting year, and accumulated earnings.

The Country-by-country report is approved by the board of directors and included in their responsibility statement.

#### Payments to authorities per project and authority (exploration and extractive activities, alumina refining and aluminium production) in 2019

Extractive related activities (all in Brazil) <sup>1)</sup>	Taxes and fees <sup>2)</sup> NOK million	Royalties NOK million	License fees <sup>3)</sup> NOK million	Infrastructure, contractual <sup>4)</sup> NOK million	Infrastructure, voluntary <sup>4)</sup> NOK million	Investments NOK million	Revenue <sup>5)</sup> NOK million	Production volume 1 000 mt	Total expenses <sup>5) 6)</sup> NOK million
Mineracao Paragominas SA, total	200	83	2	7	1	276	2,696	7,360	2,246
Federal	146	8	2				•	•	
Pará State	54	25	-						
Paragominas municipality	-	50	-						
Norsk Hydro Brasil Ltda, total	15	-	-		-	9	4	_	40
Federal	15	-	-						_
Rio de Janeiro State	-	-	-						
São Paulo Municipality	-	-	-						
Alunorte - Alumina do Norte do Brasil SA, total	55	_	-		31	2,009	13,425	4,487	13,016
Federal	48	-	-			•	•	•	
Pará State	7	-	-						
Barcarena Municipality	-	-	-						
Albras - Alumínio Brasileiro SA, total	1	-	-		5	641	5,793	241	6,812
Federal	-	-	-						
Pará State	1	-	-						
Barcarena Municipality	-	-	-						
Total <sup>7)</sup>	271	83	2	7	37	2,936	21,918	12,089	22,114

<sup>1)</sup> In 2019, Hydro's extractive activities did not have the following types of payments to host authorities:

- production entitlements
- dividends
- signature, findings and production bonuses
- stocks, shares or other ownership rights
- 2) Taxes and fees (income, profit and production) except taxes and fees on consumption such as VAT, withholding taxes on behalf of employees, sales tax. Figures are not directly compareable to the further contry by country report.
- compareable to the further contry by country report.

  3) License, lease or access fees or other payments for licenses or commissions
- License, lease or access rees or office payments for incenses or commissions
   Payments on improved infrastructure, either contractual based on exploration or operational licenses, or voluntary is based on Hydro's reporting on social investments, please see note S9 to the social statements in Hydro's Annual Report 2019
- 5) Including power procurement and sales
- 6) Costs at Alunorte include purchase of bauxite from Paragominas. Costs at Albras inlcude purchase of alumina from Alunorte.
- 7) Only figures where a total is presented can be consolidated.

#### Other tax contributions to authorities in Brazil

The Brazilian tax system is complex and volatile. In addition to the direct taxes reported above on income, profit and production, Brazil has several indirect taxes levied at the federal and state levels, and other taxes levied at the municipal level.

For Hydro, there are three relevant indirect tax mechanisms not covered by the country-by-country requirements, i.e ICMS and PIS/COFINS.

ICMS is a Brazilian state tax on the sale of goods, freight and certain services, similar to VAT. ICMS is intended to be a non-cumulative tax, which means that sales are generating ICMS debits with the seller, and purchases are generating ICMS credits with the buyer. However, as export transactions are exempt from ICMS and not generating ICMS debits, exporters accumulate ICMS credits that cannot be offset with any other taxes. As ICMS in an indirect tax, the amounts are reported as expenses in Hydro's financial statements rather than as income tax.

In the state of Pará, Hydro is subject to a tax regime that aims at preventing the accumulation of ICMS recognized credits, and reduces net payable ICMS. From our operations, we generate ICMS tax revenue to Pará when purchasing diesel and fuel oil, when Albras acquires electricity, and also on sales of products to customers located outside the state.

The ICMS regime Hydro is subject to requires Hydro to comply with certain conditions related to vertical integration of aluminium production in Pará. It also requires Hydro to contribute to the development in the region and enable sustainable growth in Pará.

The ICMS deferral is subject to approval by Brazil's National Council of Finance Policy (CONFAZ). In 2018, the Public Auditing Prosecutors for the State of Pará (MP-C/PA) initiated a general process before the State Accounting Court to better understand approvals, compliance and transparency of tax incentives established by the State of Pará.

PIS and COFINS are two social contribution taxes charged on gross income, in most cases at the rate of 9.25 percent. Hydro's group companies in Brazil are charged under a non-cumulative system that resembles VAT. Similar to ICMS, export transactions are not subject to this tax. As a result, Brazilian exporters, like Alunorte and Albras, accumulate credits that can be either reimbursed or offset against debts of other federal taxes.

In addition to the indirect taxes described above, Brazilian municipalities levy a property tax. The property tax, IPTU, is a tax levied on the ownership or possession of urban land and property located in the urban area within the municipality. IPTU is due yearly based on the value of the property, according to rates and conditions foreseen in each municipality's legislation.

The table below includes Hydro entities involved in extractive activities as well as other Hydro entities in the state of Pará.

#### Other taxes paid to authorities in Brazil\*

Extractive related activities	ICMS	PIS	COFINS	IPTU	Total contribution
	NOK million				
Mineracao Paragominas SA, total	30	1	3	-	33
Federal	-	1	3	-	3
Pará State	30	-	-	-	30
Paragominas municipality	-	-	-	-	-
		-	-	-	-
Norsk Hydro Brasil Ltda, total	-	2	7	-	9
Federal	-	2	7	-	9
Rio de Janeiro State	-	-	-	-	-
São Paulo Municipality	-	-	-	-	-
		-	-	-	-
Alunorte - Alumina do Norte do Brasil SA, total	467	2	10	18	497
Federal	-	2	10	-	12
Pará State	467	-	-	18	485
Barcarena Municipality	-	-	-	-	-
		-	-	-	-
Albras - Alumínio Brasileiro SA, total	327	1	3	14	345
Federal	-	1	3	-	3
Pará State	327	-	-	14	342
Barcarena Municipality	-	-	-	-	-
		-	-	-	-
Total	824	5	22	33	884

<sup>\*</sup>Tax off-sets are not included

#### Further country by country information for all consolidated legal entities

The Norwegian country by country reporting requirement as stated in the Norwegian Accounting Act and the Country by Country Regulation also require reporting on certain information at corporate level related to legal entities, as included in the table below.

Hydro's subsidiaries have both external revenue derived from sale to Hydro's end customers, and internal revenue derived from sale to other Hydro entities. In the table below both revenue streams are included per legal entity, but in Hydro's consolidated financial statements all internal transactions have been eliminated to arrive at Hydro's revenue. The sum of the different items for Hydro's subsidiaries will therefore not add up to the respective consolidated figures.

In order to present a Grand Total in the country by country report that is comparable to Hydro's consolidated financial statements, we have included all group eliminations as a separate line. These include, but are not limited to, eliminations of internal revenue and cost, internal receivables and payables, distributed profit such as dividends within the group, goodwill and excess values not attributable to individual legal entities, accumulated profits allocated to non-controlling interests and all joint operations and joint ventures.

Assets and liabilities in subsidiaries that have been acquired have been remeasured to fair value in Hydro's financial statements. This value adjustment, often referred to as excess value, represents the difference between the fair value of the company as paid by Hydro, and the carrying value of assets and liabilities as recognized by the subsidiary at the time of purchase. This premium is not reflected in the subsidiaries local statutory reporting. Due to this, figures reported in Hydro's country by country report are not necessarily comparable to the entities' local statutory reporting. Acquired entities are included from the date of acquisition. As a result of rounding adjustments, the figures in one or more of the columns in the table below may not add up to the total of that column.

The information is included in the independent auditor's assurance report.

runner country by con	untry information for all consolidated legal entitie	is a second of the second of t	Owner- ship	Number of permanent	Number of temporary	Interest paid to Hydro legal entities in another jurisdiction,	Revenue,	Income before tax,	Income taxes,	Income taxes paid,	Retained earnings,
Jurisdiction	Legal entity	Description of the entity's activity	31.12		employees <sup>1)</sup>				NOK million <sup>4)</sup>		
Argentina	Hydro Extrusion Argentina SA	Extrusion production	100%	103	-	2	195	15	2	7	40
Total Argentina				103	-	2	195	15	2	7	40
Australia	Hydro Aluminium Australia Pty. Limited <sup>7)</sup> Hydro Aluminium Kurri Kurri Pty. Limited	Local holding company Real estate	100% 100%	- 6	-	-	1,246 18	-44 -9		-	265 -1,972
Total Australia				6	_	_	1,264	-53	-	_	-1,707
Austria	Hydro Building Systems Austria GmbH Hydro Components Nenzing GmbH Hydro Extrusion Nenzing GmbH Hydro Holding Austria GmbH	Sales company Fabrication of extruded products Extrusion production Local holding company	100% 100% 100% 100%	34 110 309	14 10	- - -	227 118 1,958	2 -8 159 79	-2 40	- - - 54	56 12 340 264
Total Austria				453	24	-	2,303	231	38	54	672
Bahrain	Hydro Building Systems Middle East WLL <sup>8)</sup>	Building systems production	100%	63	-	-	262	189	-	-	185
Total Bahrain				63	_	_	262	189	-	_	185
Belgium	Hydro Allease NV Hydro Aluminium Belgium BVBA Hydro Building Systems Belgium NV Hydro Extrusion Lichtervelde NV	Support services Support services Building systems production Extrusion production	100% 100% 100% 100%	216 391	3 4	- - -	4 470 1,558	-1 - -28 35	- - -5	- - 4	18 - -199 369
	Hydro Extrusion Raeren S.A. Norsk Hydro EU Sprl Hydro Extrusion Eupen SA Hydro Precision Tubing Lichtervelde NV	Extrusion production Public affairs Dies production Precision tubing production	100% 100% 100% 100%	183 2 50	22 1 -	- - - 1	730 5 62 518	5 - -48 -29		1 - - -	150 1 76 70
	Sapa Precision Tubing Seneffe S.A.	Company is dormant	100%	-	-		-			-	10
Total Belgium				842	30	1	3,347	-65	-34	6	493
Brazil	ALBRAS - Alumínio Brasileiro SA ALUNORTE - Alumina do Norte do Brasil S.A. Ananke Alumina SA Atlas Alumínio SA Calypso Alumina SA CAP - Companhia de Alumina do Pará SA	Primary aluminium production Alumina refinering Local holding company Local holding company Local holding company Planned alumina refinery	51% 92.1% 100% 100% 100% 81%	1,223 2,085 - - - -	75 117 - - -	- 37 - - -	5,793 13,425 30 304 -	-1,089 -440 30 266 - -27	-126 10	8 111 9 63 - 1	1,946 2,013 1,619 590 -2 -415
	Hydro Extrusion Brasil S.A. <sup>9)</sup> Mineração Paragominas SA Norsk Hydro Brasil Ltda. Norsk Hydro Energia Ltda.	Extrusion and precision tubing production Bauxite mining Local holding company Power trading & Energy services	100% 100% 100% 100%	897 1,528 363 7	26 83 37 4	14 - - -	1,516 2,696 11 841	-102 500 -27 1	139	- 157 18 -	-149 880 -448 7
Total Brazil				6,103	342	51	24,617	-888	-256	367	6,040
Canada	Hydro Aluminium Canada & Co. Ltd. <sup>10)</sup> Hydro Aluminium Canada Inc. Hydro Extrusion Canada Inc.	Local holding company Local holding company Extrusion production	100% 100% 100%	1 - 547	- - 4	2 - 3	2,087 - 2,358	86 - 99	-	45 - -19	1,453 26 753
Total Canada				548	4	5	4,445	185	48	26	2,233
China & Hong Kong	Hydro Aluminium Beijing Ltd.	Sales company	100%	10	-	-	948	-17		-	58

Hydro

Part   Exercises (Shanghan) Co. Ltd. (Shangh		Hydro Building Systems (Beijing) Co. Ltd.	Sales company	100%	27	1		59	-8			-78
Process		Hydro Extrusion (Shanghai) Co. Ltd (previously					-			- 10	- 14	
Procision Libring production   100%   51   -   -   94   5   4   12		Hydro Precision Tubing (Shanghai) Co. Ltd.	Fabrication of extruded products	100%	240	-	-	290	44	12	14	174
Page			<del>-</del> -	100%	51	-	-	94	5	4	-	12
Sapa Asia Lmised   Company is niquedation   100%		Hydro Precision Tubing (Suzhou) Co. Ltd		100%	350	_	_	833	37	11	5	-7
Sajae Estrusion (Jiangyin) Co. Liel.   Estrusion production   100%			•		-	_	_		-		-	
Company   Management Co. Ltd   Company dissolved in 2019   100%		•			_	_	_	-	_	-	_	
Total Croatia			·		-		-	-	-	-	-	
Total Croatia	Total China & Hong Ko	ona			678	1	_	2.233	60	22	19	128
Total Zeeh Republic   Hydro Building Systems Czechia sro   Sales company   100%   8			Building systems production	100%		-	-					
Total Zeeh Republic   Hydro Building Systems Czechia sro   Sales company   100%   8	Total Creatia				44			_				
Total Czech Republic   Products Denmark AIS   Sales company   100%   2   -		Hydro Building Systems Czechia sro	Sales company	100%						<u>-</u>		<u>-</u>
Permark   Hydro Aluminium Rolled Products Demmark AIS Sales company   100%   2	OZCOT TCPUBILO	Trydro Ballaring Gysterns Ozeonia sio	Calcs company	10070								<u>-</u> _
Hydro Extrusion Demmark AIS   Local Molding company   100%   291   -   1   1,288   455   10   38   1,408   1						-	-	-	-	-	-	
Hydro Floding Denmark AIS   Local holding company   100%   411   -   1   1.288   49   11   -   582   520	Denmark	•	. ,			-	-		•			
Hydro Precision Tubing Tander A/S		•	·		291	-	•	1,298				
Total Denmark		,			-	-	•				38	
Extrusion Baltics AS   Extrusion production   100%   13   -   -   88	-	Hydro Precision Tubing Tønder A/S	Precision tubing production	100%	411	-	1	1,288	49	11	-	582
Total Estonia	Total Denmark				704	-	6	2,590	90	20	38	2,203
Finland   Hydro Extrusion Finland Oy   Sales company   100%   10   1   -   153   2   1   1   21	Estonia	Hydro Extrusion Baltics AS	Extrusion production	100%	13	-	-	88	4	1	-	13
Finland   Hydro Extrusion Finland Oy   Sales company   100%   10   1   -   153   2   1   1   21	Total Estonia				13	_	-	88	4	1	_	13
Extrusion Services S.a.r.I   Local holding company   100%   41   -   -   575   45   13   -1   188		Hydro Extrusion Finland Oy	Sales company	100%		1	-		2	1	1	21
Extrusion Services S.a.r.I   Local holding company   100%   41   -   -   575   45   13   -1   188	Total Finland				10	1	_	153	2	1	1	21
Hydro Aluminium France S.A.S.   Sales company   100%   8   -   -   15   5   1   -   12		Extrusion Services S a r I	Local holding company	100%		•						
Hydro Aluminium Sales and Trading s.n.c.   Sales company   100%   3	Transc		. ,			_	_					
Hydro Building Systems France Sarl <sup>11</sup>   Building systems production   100%   942   44   -   3,107   209   77   18   550   1967   Extrusion Albi SAS <sup>(2)</sup>   Extrusion production   100%   266   6   -   966   28   4   -   125   1		•				_	_		-		_	
Hydro Extrusion Albi SAS¹²⟩   Extrusion production   100%   266   6   - 966   28   4   - 125     Hydro Extrusion Lucé/Châteauroux SAS   Extrusion production   100%   342   6   1   1,010   -29   2   4   9     Hydro Extrusion Puget SAS   Extrusion production   100%   342   6   1   1,010   -29   2   2   4   9     Hydro Hydro Extrusion Puget SAS   Extrusion production   100%   276   5   1   608   -143   9   2   -206     Hydro Hydro Hydro France SAS   Local holding company   100%   5   - 9   9   - 365   -68   -2   -652     Hydro Tool Center SAS   Tool and spare parts services   100%   5   - 9   9   - 365   -68   -2   -652     Hydro Shared Services France (previously Sapa Shared Services France)   1T shared services   100%   13   - 9   1   9   1   - 9   1   2      Total France   Lugen Notter GmbH   Building systems production   100%   27   1   1   6,344   -248   40   22   35     Egrmany   Eugen Notter GmbH   Building systems production   100%   27   1   1   6,344   -248   40   22   35     Hydro Aluminium Deutschland GmbH   Recycling   100%   67   1   - 96   33   211   26   2,791     Hydro Aluminium Gießerei Rackwitz GmbH   Remelter   100%   24   20   - 48   2   - 9   - 9   3   2     Hydro Aluminium High Purity GmbH   High-purity aluminium production   100%   61   7   - 1,057   104   - 2   - 32   32     Hydro Aluminium Recycling Deutschland GmbH   Remelter   100%   24   6   - 48   4   - 9   -						44	_	3.107	209	77	18	
Hydro Extrusion Lucé/Châteauroux SAS			• • •			6	_	,			-	
Hydro Holding France SAS   Local holding company   100%   -   -   9   -   - 365   -68   -2   -652     Hydro Tool Center SAS   Tool and spare parts services   100%   5   -   -   38   1   -   -   5     Hydro Shared Services France (previously Sapa Shared Services France)   TI shared services   100%   13   -   -   19   1   -   1   2     Total France   1,896   61   11   6,344   -248   40   22   35     Germany   Eugen Notter GmbH   Building systems production   100%   27   1   18   -3   -1   -   11     Hydro Aluminium Deutschland GmbH   Local holding company   100%   67   1   -   26   33   211   26   2,791     Hydro Aluminium Dormagen GmbH   Recycling   100%   24   20   -   48   2   -   -   5     Hydro Aluminium High Purity GmbH   High-purity aluminium production   100%   61   7   -   1,057   104   -2   -   5     Hydro Aluminium Recycling Deutschland GmbH   Remelter   100%   61   8   -   297   -7   -6   -   5     Hydro Aluminium Recycling Deutschland GmbH   Remelter   100%   24   6   -   48   -4   -   -   7     Hydro Aluminium Rolled Products GmbH   Remelter   100%   3,397   206   -   21,921   -1,195   -132   15   4,474     Hydro Building Systems Coating GmbH <sup>13)</sup>   Building systems production   100%   -   -   -   48   6   -   -   -   -   -   6   -   -   6     Hydro Building Systems Coating GmbH <sup>13)</sup>   Building systems production   100%   3,397   206   -   21,921   -1,195   -132   -1   5   -1   -   -   -   -   -   -   -   -		•	·	100%	342	6	1	1,010	-29	2	4	9
Hydro Holding France SAS   Local holding company   100%   9   365   -68   -2   -652     Hydro Tool Center SAS   Tool and spare parts services   100%   5     38   1     -   5     Hydro Shared Services France (previously Sapa Shared Services France)   IT shared services   100%   13   -   -   19   1   -   1   2     Total France   IT shared services   100%   13   -   -   19   1   -   1   2     Total France   IT shared services   100%   13   -   -   19   1   -   1   2     Total France   IT shared services   100%		•	•		276	5	1		-143	9	2	-206
Hydro Shared Services France (previously Sapa Shared Services France)   IT shared services   100%   13   -   -   19   1   -   1   2				100%	-	-	9	-	-365	-68	-2	-652
Sápa Shared Services France)   IT shared services   100%   13   -   -   19   1   -   1   2   2		Hydro Tool Center SAS	Tool and spare parts services	100%	5	-	-	38	1	-	-	5
Total France   1,896   61   11   6,344   -248   40   22   35		Hydro Shared Services France (previously										
Eugen Notter GmbH   Building systems production   100%   27   1   18   -3   -1   -   11		Sapa Shared Services France)	IT shared services	100%	13	-	-	19	11	-	1	2
Eugen Notter GmbH   Building systems production   100%   27   1   18   -3   -1   -   11	Total France				1.896	61	11	6.344	-248	40	22	35
Hydro Aluminium Deutschland GmbH         Local holding company         100%         67         1         -         26         33         211         26         2,791           Hydro Aluminium Dormagen GmbH         Recycling         100%         24         20         -         48         2         -         -         5           Hydro Aluminium Gießerei Rackwitz GmbH         Remelter         100%         61         7         -         1,057         104         -2         -         32           Hydro Aluminium High Purity GmbH         High-purity aluminium production         100%         61         8         -         297         -7         -6         -         50           Hydro Aluminium Recycling Deutschland GmbH         Remelter         100%         24         6         -         48         -4         -         -         79           Rolling mills and primary           Hydro Aluminium Rolled Products GmbH         alumnium production         100%         3,397         206         -         21,921         -1,195         -132         15         4,474           Hydro Building Systems Coating GmbH <sup>13</sup> Building systems production         100%         -         -         -         21,921         -1,195 </td <td></td> <td>Eugen Notter GmbH</td> <td>Building systems production</td> <td>100%</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td>		Eugen Notter GmbH	Building systems production	100%						_		
Hydro Aluminium Dormagen GmbH         Recycling         100%         24         20         -         48         2         -         -         5           Hydro Aluminium Gießerei Rackwitz GmbH         Remelter         100%         61         7         -         1,057         104         -2         -         32           Hydro Aluminium High Purity GmbH         High-purity aluminium production         100%         61         8         -         297         -7         -6         -         50           Hydro Aluminium Recycling Deutschland GmbH         Remelter         100%         24         6         -         48         -4         -         -         79           Rolling mills and primary         Rolling mills and primary         3,397         206         -         21,921         -1,195         -132         15         4,474           Hydro Building Systems Coating GmbH 13)         Building systems production         100%         -         -         -         21,921         -1,195         -3         -         6	- ,	9	• • •			1	_	26		211	26	
Hydro Aluminium Gießerei Rackwitz GmbH         Remelter         100%         61         7         -         1,057         104         -2         -         32           Hydro Aluminium High Purity GmbH         High-purity aluminium production         100%         61         8         -         297         -7         -6         -         50           Hydro Aluminium Recycling Deutschland GmbH         Remelter         100%         24         6         -         48         -4         -         -         79           Rolling mills and primary         Rolling mills and primary         3,397         206         -         21,921         -1,195         -132         15         4,474           Hydro Building Systems Coating GmbH <sup>13</sup> )         Building systems production         100%         -         -         -         48         -         -3         -         6         -         48         -         -         -         48         -		•	. ,	100%	24	20	-	48		-	-	
Hydro Aluminium High Purity GmbH High-purity aluminium production 100% 61 8 - 297 -7 -6 - 50 Hydro Aluminium Recycling Deutschland GmbH Remelter 100% 24 6 - 48 -4 - 79 Rolling mills and primary Hydro Aluminium Rolled Products GmbH alumnium production 100% 3,397 206 - 21,921 -1,195 -132 15 4,474 Hydro Building Systems Coating GmbH <sup>13)</sup> Building systems production 100% 48 3 - 6		•	, ,	100%	61	7	-	1,057	104	-2	-	32
Hydro Aluminium Recycling Deutschland GmbH Remelter 100% 24 6 - 48 -4 79 Rolling mills and primary Hydro Aluminium Rolled Products GmbH alumnium production 100% 3,397 206 - 21,921 -1,195 -132 15 4,474 Hydro Building Systems Coating GmbH <sup>13)</sup> Building systems production 100% 48 3 - 6			High-purity aluminium production	100%	61	8	-		-7		-	
Hydro Aluminium Rolled Products GmbH alumnium production 100% 3,397 206 - 21,921 -1,195 -132 15 4,474  Hydro Building Systems Coating GmbH <sup>13)</sup> Building systems production 100% 483 - 6		,	9 . , .	100%	24	6	-	48	-4	-	-	
Hydro Aluminium Rolled Products GmbH alumnium production 100% 3,397 206 - 21,921 -1,195 -132 15 4,474  Hydro Building Systems Coating GmbH <sup>13)</sup> Building systems production 100% 483 - 6		· -										
, , , , , , , , , , , , , , , , , , , ,		Hydro Aluminium Rolled Products GmbH		100%	3,397	206	-	21,921	-1,195	-132	15	4,474
Hydro Building Systems Germany GmbH Building systems production 100% 457 36 1 1,608 20 4 - 133		Hydro Building Systems Coating GmbH <sup>13)</sup>	Building systems production	100%	-	-		48	-	-3	-	6
		Hydro Building Systems Germany GmbH	Building systems production	100%	457	36	1	1,608	20	4	-	133

	Hydro Energy GmbH	Energy sourcing	100%	-	-	-	6	-39	-	-	64
	Hydro Extrusion Deutschland GmbH	Extrusion production	100%	457	-	5	1,587	23	-11	-	117
	Hydro Extrusion Offenburg GmbH	Extrusion production	100%	209	-	-	629	2	-	-	107
	Hydro Holding Offenburg GmbH	Local holding company	100%	44	-	5	48	-	-8	-1	20
	Hydro Precision Tubing Remscheid GmbH	Precision tubing production	100%	134	-	-	184	-24	-	-	37
	Norsk Hydro Deutschland Verwaltungs GmbH	Company is in liquidation	100%	-	-	-	-	-	-	-	-2
	Sapa Germany GmbH (previously Hydro Holding ULM GmbH)	Local holding company	100%	-	-	10	-	-11	11	32	118
	SEGN Standort-Entwicklungs-Gesellschaft Nabwerk mbH	Real estate	100%	-	-	_	_	_	_	_	_
	VAW-Innwerk Unterstützungs-Gesellschaft GmbH	Pension fund	77.5%	_	_	_	_	-2	_	_	214
-	Childri	1 Oncion fund	11.070								
Total Germany				4,962	285	21	27,524	-1,099	62	72	8,256
Greece	Hydro Building Systems A.E.	Company is in liquidation	100%	-	-	-	-	-2	-		-35
Total Greece				-	-	-	-	-2	-		-35
		Extrusion production and									
Hungary	Hydro Extrusion Hungary Kft	support services	100%	1,617	-	1	3,091	84	41	41	91
Total Hungary				1,617	-	1	3,091	84	41	41	91
		Extrusion, precision tubing and									
India	Sapa Extrusion India Pvt. Ltd. <sup>14)</sup>	building systems production	100%	485	3	-	470	-28	-1	1	-456
Total India				485	3	-	470	-28	-1	1	-456
Italy	Hydro Aluminium Metal Products S.r.l.	Sales company	100%	2	-	-	9	1	-	-	17
	Hydro Building Systems Italy S.P.A.	Building systems production	100%	328	8	-	1,325	11	14	-	181
	Hydro Extrusion Italy S.r.l.	Extrusion production	100%	318	11	-	1,286	-5	13	6	305
	Hydro Holding Italy S.P.A.	Local holding company	100%	-	-	-	-	-	-2	-4	878
Total Italy				648	19	-	2,620	7	25	2	1,381
Japan	Hydro Aluminium Japan KK	Sales company	100%	6	-	-	192	9	3	2	61
Total Japan				6	_	_	192	9	3	2	61
Lithuania	Hydro Building Systems Lithuania UAB	Sales company	100%		_	_	82	5	1	1	15
Litildariid	Hydro Extrusion Lithuania UAB	Extrusion production	100%	182	-	_	144	9	2		34
-	The Extraction Entracting Of E	Ziki dolon production		.02							
Total Lithuania				182	-	-	226	13	3	1	49
Luxembourg	Hydro Aluminium Clervaux S.A.	Remelter	100%	50	6	-	1,256	96	28	38	232
Total Luxembourg				50	6	-	1,256	96	28	38	232
Mexico	Hydro Aluminium Metals Mexico S. de R.L	Sales company	100%	_	_		_	_	_	_	_
	Hydro Precision Tubing Monterrey S. de R.L.	caise company	.0070								
	de C.V.	Precision tubing production	100%	129	1	_	82	2	1	4	129
	Hydro Precision Tubing Reynosa S. de R.L. de	<b>5</b> .									
	C.V.	production	100%	225	4	-	87	8	4	4	25
	Hydro Precision Tubing Services Monterrey S.	·									
	de R.L. de C.V.	Support services	100%	-	-	-	35	2	2	1	-1
Total Mexico				354	5	-	205	11	7	9	153
Netherlands	Hydro Albras B.V.	Local holding company	100%	-	-	-	-	-	-	-	-
	Hydro Aluminium Brasil Investment B.V.	Local holding company	100%	-	-	-	-	-9	-	-	895
	Hydro Aluminium Investment B.V.	Local holding company	100%	-	-	-	-	-	-	-	-
	Hydro Aluminium Netherlands B.V.	Local holding company	100%	-	-	-	-	51	-	-	269

	Lhades Alamainians Don't D.V	Landbaldian armanı	4000/								404
	Hydro Aluminium Pará B.V.	Local holding company	100% 100%	-	-	-	-	105	-	-	-124 924
	Hydro Aluminium Qatalum Holding B.V.	Local holding company	100%	4	-	-	6	195 1	-	-	
	Hydro Aluminium Rolled Products Benelux B.V.		100%	4	-	-	0	1	-	-	2
	Hydro Alunorte B.V.	Local holding company		-	-	-	- 47	6	4	-	-
	Hydro Building Systems Netherlands B.V.	Building systems production	100%	-	-	-	47		4	-	400
	Hydro CAP B.V.	Local holding company	100%	400	-	-	4 400	-	-	-	-400 -707
	Hydro Extrusion Drunen B.V.	Extrusion production	100%	426	10	-	1,402	-114	26 3	-	707 -13
	Hydro Extrusion Holding Netherlands B.V.	Real estate	100%	400	- 1	-	-	16	3 2	-	
	Hydro Extrusion Hoogezand B.V.	Extrusion production	100%	166	1	- 5	625	22		6	204
	Hydro Holding Netherlands B.V.	Local holding company	100%	-	-	5	-	-6	-1 15	-	52
	Hydro Paragominas B.V.	Local holding company	100%	-	-	-	-	225		15	87
	Norsk Hydro Holland B.V.	Local holding company	100%	4	-	-	15	775	8	-	9,787
-	Sapa Holdings (Nederland) B.V.	Company dissolved in 2019	100%	-	-	-	-	-	-	-	<del></del>
Total Netherlands				600	11	5	2,095	1,162	56	21	12,392
		Development and design of casting tecnology and related									
Norway	Hycast AS	sales	100%	55	2	-	291	14	4	11	115
	Hydro Aluminium AS	Primary aluminium production	100%	2,390	519	327	46,022	1,449	23	873	21,239
	Hydro Aluminium Rolled Products AS	Rolling mill	100%	640	41	8	4,420	160	35	-	815
	Hydro Energi AS	Power production	100%	177	13	-	8,254	-707	114	520	-1,884
	Hydro Energi Invest AS	Local holding company	100%	-	-	-	-	-2	-	-	-
	Hydro Extruded Solutions AS	Local holding company	100%	96	1	81	-1	347	85	78	1,388
	Hydro Extrusion Norway AS	Extrusion production	100%	105	8	1	342	-3	-1	-	51
	Hydro Invest Porsgrunn AS	Company dissolved in 2019	100%	-	-	-	-	-	-	-	-
	Hydro Kapitalforvaltning AS	Local holding company	100%	-	-	-	10	-	-	-	-
	Hydro Vigelands Brug AS	High-purity aluminium production	100%	34	4	2	89	7	1	-	95
	Hydro Vigelandsfoss AS	Power production	100%	-	-	-	73	41	19	26	187
	Industriforsikring AS	Insurance	100%	-	-	-	153	52	-3	1	500
	Norsk Hydro ASA	Parent company	-	319	13	-	250	4,688	19	136	32,448
	RSK Holding AS <sup>15)</sup>	Local holding company	100%	-	-		457	339	167	-	77
	Røldal-Suldal Kraft AS	Power production	91.3%	-	-	-	532	389	202	160	121
	Svelgfos AS	Company is dormant	100%	-	-	-	-	-	-	-	1
	Sør-Norge Aluminium AS	Primary aluminium production	100%	320	95	5	2,311	245	54	-	1,400
	Vækerø Gård Barnehage ANS	Company kindergarden	100%	-	-	-	-	-	-		
Total Norway				4,136	696	424	63,203	7,019	719	1,804	56,552
	Hydro Aluminium Rolled Products Polska Sp. z										
Poland	0.0.	Sales company	100%	5	-	-	4	1	-	-	2
	Hydro Building Systems Poland Sp. z o.o.	Building systems production	100%	59	-	1	158	1	-	1	-6
	Hydro Extrusion Poland Sp. z o.o.	Extrusion production	100%	1,407	4	2	2,307	102	34	44	780
Total Poland				1,471	4	3	2,469	104	35	45	776
Portugal	Hydro Aluminium Extrusion Portugal HAEP S.A.	Extrusion production	100%	99	24	-	297	-4	-1	-	66
	Hydro Building Systems Portugal (HBSPT) SA		100%	74	-		239	1	5	20	18
Total Portugal				173	24	-	536	-3	4	20	83
Romania	Hydro Extrusion S.R.L.	Extrusion production	100%	217	-	1	498	-8	1	-	-168
Total Romania				217	_	1	498	-8	1	_	-168
Singapore	Hydro Aluminium Asia Pte. Ltd.	Trading company	100%	16	-	-	7,583	105	10	15	642
.ar	Hydro Aluminium Asia Rolled Products Pte. Ltd.		100%	2	-	_	- ,555	-	-	-	
	Hydro Holding Singapore Pte. Ltd.	Sales and local holding company	100%	20	_	_	69	_	1	_	-417
	,		.00,0						•		

Total Singapore				38	-	-	7,652	105	10	15	225
Slovakia	Hydro Extrusion Slovakia a.s.	Extrusion production	100%	374	-	-	539	1	-	3	-33
	Slovalco a.s.	Primary aluminium production	55.3%	490	-	-	3,711	-505	-93	3	320
	ZSNP DA, s.r.o.	Transportation	55.3%	-	-	-	9	1	-	-	1
Total Slovakia				864	-	-	4,260	-503	-93	6	289
South Africa	Technal Systems South Africa (Pty) Ltd.	Company is in liquidation	100%	-	-	-	-	-	-	-	-13
Total South Africa				_	_	_	_	_	_		-13
Spain	Hydro Aluminium Iberia S.A.U	Remelter	100%	50	5	-	801	81	19	7	304
- <b>F</b>	Hydro Aluminium Rolled Products Iberia S.L.	Sales company	100%	6	-	-	10	4	1	-	9
	Hydro Building Systems Spain S.L.U.	Building systems production	100%	246	3	-	655	-	28	-	-5
	Hydro Extruded Solutions Holding S.L.U.	Local holding company	100%	43	-	-	27	-3	-8	-	26
	Hydro Extrusion Spain S.A.U.	Extrusion production	100%	266	33	-	1,313	-64	-9	-	459
Total Spain				611	41	_	2,807	19	31	7	792
Sweden	Hydro Building Systems Sweden AB	Building systems production	100%	122	2	-	646	33	-	-	13
	Hydro Extruded Solutions AB <sup>16)</sup>	Local holding company and R&D	100%	53		13	78	18	22	53	1,571
	Hydro Extrusion Sweden AB	Extrusion production	100%	869	- 19	5	2,191	-19	2	14	657
	Sapa China Holding AB	Local holding company	100%	-	-	5	2,191	-19	_	14	037
Total Sweden	Sapa Grima Holding AB	Local Holding Company	10070	1.044	21	18	2,914	32	25	67	2,241
Switzerland	Hydro Aluminium International SA	Sales company	100%	13		9	16,910	-245	-51		-39
OWIZCHANG	Hydro Aluminium Walzprodukte AG	Sales company	100%	3	_	-	4	1	-	_	4
	Hydro Building Systems Switzerland AG	Sales company	100%	41	1	_	282	43	8	2	73
Total Code and and	· · · · · · · · · · · · · · · · · · ·					9					
Total Switzerland				57	11	9	17,196	-201	-42	3	38
Turkey	Hydro Yapi Sistem Sanayi VE Ticaret AS	Sales company	100%	32	-		58	-7	-1	-	28
Total Turkey				32	-	-	58	-7	-1	-	28
Ukraine	Sapa Profiles UA	Company is in liquidation	100%	-	-	-	-	-	-	-	-1
Total Ukraine				-	_	_	-	-	-	-	-1
United Arab Emirates	Hydro Building Systems Middle East FZE	Sales company	100%	17	-	-	103	4	-	-	49
Total United Arab											
Emirates				17	<del>.</del>	-	103	4		-	49
United Kingdom	Hydro Aluminium Deeside Ltd.	Remelter	100%	46	1		669	48	9	-	116
	Hydro Aluminium Rolled Products Ltd.	Sales company	100%	6	-		13	2	-	-	5
	Hydro Building Systems UK Ltd.	Building systems production	100%	153	1	•	589	-31	-6	-	321
	Hydro Components UK Ltd.	Fabrication of extruded products	100%	349	1	6 1	628	-97	-18	-	56
	Hydro Extrusion UK Ltd.	Extrusion production	100%	514	1	1	1,442 1	15	1	2	18
	Hydro Holdings UK Ltd. Sapa UK Ltd.	Local holding company  Company dissolved in 2019	100% 100%	-	-		1 -	-228 -	-	2	-304
T. (-111.2) - 112 1	oupu on ziu.	company alcounted in 2010	10070	4.000		_	0.044		40		
Total United Kingdom USA	EMC Ashtabula Inc	Local holding company	100%	1,068	4	7	3,341	<b>-290</b> -144	<b>-13</b> -32	4	<b>212</b> -2,112
UUA	EMC Ashtabula Inc	Local holding company	100%	-	-		-	-144 24	-32 8	-	-2,112 465
	Hydro Aluminium Metals USA, LLC	Remelters and sales	100%	- 143	- 3		- 6,974	24 184	-2	-	-1,393
	Hydro Aluminium Metals USA, LLC Hydro Aluminium Tomago Inc.	Company dissolved in 2019	100%	143	3		0,974	104	-2	-	-1,393
	,		100%	-	-		-	-	-	-	-
	Hydro Building Systems North America Inc <sup>17)</sup> Hydro Building Systems North America LLC <sup>17)</sup>	Company is in liquidation Sales company	100%	-	-		-	- -17	-	-	- -17
	Hydro Extruder LLC	Extrusion production	100%	1,160	- 21	28	5,865	-17 90	- -10	-	-17 518
	TIYUTO EXTUUGI ELO	Extrasion production	10070	1,100	۷.1	20	5,005	90	-10	-	510

Total joint operation	ns and joint ventures						3,263	103	10	80	-2,603
	non-controlling interests and goodwill and excess ble to specific legal entities						-80,576	-6,197	-216	-18	-36,871
Total Vietnam			232	6		161	-21	-3	2	-6	
Vietnam	Sapa Ben Thanh Aluminium Profiles Co. Ltd	Extrusion production	65%	232	6		161	-21	-3	2	-6
Total USA				6,008	58	308	36,349	-1,490	241	220	-1,357
	Norsk Hydro North America LLC	Company dissolved in 2019	100%	-	-		-	-766	-	-2	-29
	Hydro Precision Tubing USA LLC	Precision tubing production	100%	176	4		1,024	-15	3	-	22
	Hydro Precision Tubing Monterrey Central ELC	Precision tubing production	100%	-	-		506	84	-16	- -2	- 281
	Hydro Precision Tubing Louisville Inc. Hydro Precision Tubing Monterrey Central LLC	Company is dormant Precision tubing production	100% 100%	-	-		-	-	-	-	-70
	Hydro Precision Tubing Adrian Inc.	Company is dormant	100%	-	-		-	1	4	-	-313
	Hydro Metals Holding US LLC	Company dissolved in 2019	100%	-	-		-	-1,333	-	5	-35
	Hydro Holding North America Inc. 18)	Local holding company	100%	-	-	7	-	-5	315	213	1,234
	Hydro Extrusion USA LLC	Extrusion production and support services	100%	2,666	8	254	12,724	874	-12	1	1,980
	Hydro Extrusion Portland Inc.	Extrusion production	100%	-	-		1,655	-465	1	-	-45
	Hydro Extrusion Portland Holding Inc.	Local holding company	100%	567	-	19	-	-19	-	-	233
	Hydro Extrusion Delhi LLC Hydro Extrusion North America LLC	Extrusion production Extrusion production	100% 100%	289 1,007	18 4		1,549 6,051	17 -1	-7 -11	5	74 -2,153

- 1) Number of employees is based on the legal entity each employee is employed by
- 2) Revenue consists of external and internal revenue from sales of products and services, and realized and unrealized results from derivatives related to sale of products. Elimination of sale to other Hydro companies is presented on a combined basis in "Eliminations". Revenue in this report equals revenue in Hydro's consolidated income statements
- 3) For the composition of income before tax, please refer to consolidated income statements and related notes
- For a description and the composition of income taxes, please refer to consolidated income statements and related notes
- 5) Income taxes paid represents the actual payments made during the year independent of which year the tax relates to. In some tax regimes including Brazil, tax payments include settlement of tax liabilities with tax credits generated from other payments to federal authorities
- 6) Retained earnings consists of accumulated gains and losses, net of distributed profits from the point of view of the legal entity. Retained earnings existing in the companies at the time of Hydro's acquisition is deducted in "Eliminations". In addition, "Eliminations" consists of unrealized gains in transactions between Hydro companies
- 7) Hydro Aluminium Australia Pty Ltd is the owner of Hydro's ownership share in Tomago aluminium smelter, a joint operation
- 8) Hydro Extruded Solutions AS purchased the remaining 50% of Technal Middle East WLL with closing in May 2019. The company was renamed to Hydro Building Systems Middle East WLL (TMI) in Q4, 2019. The reported numbers also include its subsidiary in Oman
- 9) Hydro Extrusion Ltda. was merged into Hydro Extrusion Brasil S.A. in Q1 2019
- 10) Hydro Aluminium Canada & Co. Ltd. is the owner of Hydro's ownership share in Aluminerie Alouette Inc, a jointly owned aluminum smelter
- 11) Hydro Buildex Sarl was merged into Hydro Bulding Systems France SARL in 2019
- 12) Hydro Albi SNC was dissolved into Hydro Extrusion Albi SAS in Q1 2019
- 13) Hydro Extrusion Deutschland GmbH purchased all the shares in the powder coating company Metallbeschichtung Gerstungen GmbH in Q1, the comany changed name to Hydro Building Systems Coating GmbH
- 14) Sapa BS India Pvt. Ltd., Sapa Building Systems Pvt. Ltd. and Sapa Precision Tubing Pune Private Ltd was merged into Sapa Extrusion India Pvt. Ltd. in Q3 2019
- 15) RSK Holding AS was established in Q4 2019
- 16) Hydro Aluminium Rolled Products Sverige AB was dissolved into Hydro Extruded Solutions AB in Q4 2019
- 17) New legal entity to replace Hydro Building Systems North America Inc
- 18) Norsk Hydro North America LLC and Hydro Metals Holding LLC were dissolved and included in Hydro Holding North America Inc. in Q4 2019

#### Entity descriptions

In the table above, each company has been given a short description of its main activities. Some of the entities can also have other activities as listed below.

Short description	Main activities
Alumina refining	Refining of bauxite to alumina. Hydro operates the Alunorte alumina refinery
Bauxite mining	Mining of bauxite, the raw material for aluminium productions. Hydro has only one consolidated bauxite mine
Building systems production	Production of building systems where aluminium is used
Company kindergarden	Kindergarden for children of employees or tenants
Dies production	Production of dies for extrusion of aluminium profiles
Energy sourcing	Sourcing of energy for Hydro operations
Fabrication of extruded products	Added value processing of extruded profiles
Extrusion production	Includes one or more extrusion production lines and is normally also responsible for sales and marketing of its products. May also have R&D activities
Recycling	Sorting of alumnium scrap for supply to remelters
High-purity aluminium production	Production of aluminium of minimum 99.99 percent purity
Insurance	In-house (captive) insurance
IT shared services	IT shared services for Hydro operations
Local holding company	Holding & Financing. Holding shares or other equity instruments. Administrative, management or support services
Pension fund	Employee pension fund
Power production	Production of hydro-power
Power trading	Trading of power and energy services
Precision tubing production	Production of extruded aluminium tubes, micro-port aluminium tubes, and welded alumnium tubes
Primary aluminium production	Includes one or more primary aluminium plant(s), and may also include casting, anode production and/or R&D activities
Public affairs	Hydro's Brussels office
Real estate	Property management and development. Owner of land and infrastructure
R&D	Research and development activities
Remelter	Facility remelting standard ingots, process scrap and/or post-consumer scrap
Rolling mill	Production of rolled products
Sales company	Sales, marketing and distribution offices
Support services	Administrative and other support services
Tool and spare parts services	Provides tool and spare parts services, in addition to administrative and management support
Trading company	Sales, marketing and distribution of casthouse aluminium products
Transportation	Transport of raw materials by railway train

Hydro

# Norwegian code of practice for corporate governance

This chapter provides a detailed overview of how Hydro follows the Norwegian Code of Practice for Corporate Governance of 2018. Information that Hydro must provide in accordance with the Norwegian Accounting Act, section 3.3b, is also included. This overview should be seen in context with the general corporate governance report provided in Hydro's annual report for 2019.

# Deviations from the Norwegian code of practice for corporate governance

In the board of directors' assessment, we have deviations from three sections in the code of practice:

#### Section 6, General meeting of shareholders:

Hydro has two deviations from this section:

- 1) "Ensure that the members of the board of directors ... are present at the general meeting": The entire board of directors has generally not participated in the general meeting. Matters under consideration at the general meeting of shareholders have not yet required this. The chairperson of the board of directors is always on hand to present the report and answer any questions. Other board members participate as needed. The board of directors considers this to be adequate.
- 2) "Making arrangements to ensure an independent chairman for the general meeting": Section 9 in Hydro's articles of association states that the general meeting is chaired by the chairperson of the corporate assembly, or, in his or her absence, by the deputy chair. This arrangement has been approved by the company's general meeting.

#### Section 7, Nomination committee:

Hydro has one deviation from this section:

"The company's guidelines for the nomination committee should establish rules for rotation of the members of the nomination committee": The nomination committee has no formal rules on rotation of its members. The nomination committee's mandate expresses, however, the intention to "over the course of time balance the need for continuity against the need for renewal in respect of each governing organ." The chairperson of the committee, who is also the chairperson of the corporate assembly, has been a member of the committee since 2012, became acting chairperson in 2014 and was elected chairperson in 2015. The other members were elected to the nomination committee in 2014, 2015 and 2019.

#### Section 14, Takeovers:

Hydro has one deviation from this section:

"The board of directors should establish guiding principles for how it will act in the event of a take-over bid": The board of directors has chosen not to prepare explicitly formulated general principles for handling takeover bids. The reason for this is that the Norwegian state, represented by the Ministry

of Trade, Industry and Fisheries, owns 34.3 percent of the Hydro shares (as of 31.12.2019) and has by virtue of the Active Ownership Report (Report to the Storting no. 8 (2019-2020)) expressed a long-term ownership perspective in the company for the purpose of retaining its head office and research activities in Norway.

#### 1. Statement of corporate governance

Hydro follows the Norwegian Code of Practice for Corporate Governance of 2018.

#### 2. Hydro's business

Hydro is a global aluminium company with production, sales and trading activities throughout the value chain, from bauxite, alumina and energy generation to the production of primary aluminium and rolled and extruded products as well as recycling. Based in Norway, the company has 36,000 employees involved in activities in 40 countries on all continents. Rooted in more than a century of experience in renewable energy production, technology development and partnerships, Hydro is committed to strengthening the viability of the customers and communities we serve.

The company's objectives, as stated in its articles of association, are to engage in industry, commerce and transport, to utilize energy resources and raw materials, and to engage in other activities connected with these objectives. Its business activities may also be conducted through participation in or in cooperation with other enterprises.

The board of directors evaluates the company's objectives, strategies and risk profile at least annually and reports on it in the Board of Directors' report.

The Hydro Way represents our framework for leadership, organization and culture and is the foundation for our governance system, including our code of conduct. Hydro's Code of Conduct has been approved by the board of directors, which also oversees that Hydro has appropriate corporate directives for, among other things, risk management, HSE and corporate responsibility.

References: Hydro's articles of association are available at www.hydro.com/governance. Learn more about The Hydro Way and Hydro's corporate directives at www.hydro.com/principles, and Board of Directors' Report 2019 in this document.

#### Equity and dividend

In the opinion of the board of directors, Hydro's equity capital is appropriate to the company's objectives, strategy and risk profile.

Hydro's dividend policy is in the long term to pay out, on average, 40 percent of net income as ordinary dividend over the cycle to our shareholders. The dividend policy has a floor of NOK 1.25 per share.

The dividend per share is proposed by the board of directors, based on Hydro's dividend policy, and approved by the general meeting of shareholders.

The board of directors may obtain authorization from the general meeting of shareholders to buy back Hydro shares in the market. In such cases, the board will normally request that the shares are acquired in the open market, and that the authority lasts no longer than until the next general meeting.

When the general meeting of shareholders considers whether or not to authorize the board of directors to carry out share capital increases for different purposes, each purpose must be considered separately by the meeting. Such authorization will be limited in time, and will last no longer than until the date of the next general meeting. Authorization granted to the board of directors is restricted to specific purposes. Such authorization was last given in 2010 in connection with the Vale transaction.

See also item 4.

*References:* Learn more about Hydro's equity and dividend policy under Shareholder information in Hydro's Annual Report 2019.

#### 4. Equal treatment of shareholders

Hydro has one share class. All the shares have the same rights.

Transactions involving own shares are normally executed on the stock exchange. Buybacks of own shares are executed at the current market rate.

Shareholders who are registered in the Norwegian Central Securities Depository (VPS) may vote in person or by proxy at the general meeting of shareholders. Invitations are sent to the shareholders or to the bank/broker where the shareholder's securities account is held.

Sales of shares to employees in Norway are conducted at a discount to market value. See also item 6.

Contact between the board of directors and the investors is normally conducted via the management. Under special circumstances the board, represented by the chairperson, may conduct dialogue directly with investors.

Regulation of share issues and preemptive rights are described in the company's articles of association.

#### State ownership

As of December 31, 2019 the Norwegian state, represented by the Ministry of Trade, Industry and Fisheries, owned 34.3 percent of Hydro's issued shares. Hydro holds regular meetings with the Ministry, where topics discussed include Hydro's economic and strategic development, sustainability, and the Norwegian State's expectations regarding results and returns on investments. These meetings are comparable to what is customary between a private company and its principal shareholders. The meetings comply with the provisions specified in Norwegian company and securities legislation, not least with respect to equal treatment of

shareholders. As a shareholder, the Norwegian state does not usually have access to more information than what is available to other shareholders. If state participation is imperative and the government must seek approval from the Norwegian parliament (Stortinget), it may be necessary to provide the Ministry with insider information. In such cases, the state is subject to the general rules that apply to the handling of such information.

References: Learn more about major shareholders in the "Shareholder Information" section of Hydro's Annual Report 2019 and sale of the Hydro share to employees in note 9.3 (Employee remuneration) to the consolidated financial statements. Hydro's code of conduct can be found on www.hydro.com/principles. Hydro's articles of association can be found on www.hydro.com/governance. See also note 9.6 (Related party information) to the consolidated financial statements.

#### 5. Freely negotiable shares

The Hydro share is freely negotiable. It is among the most traded shares on the Oslo Stock Exchange and is subject to efficient pricing. As of December 31, 2019 the Norwegian state, represented by the Ministry of Trade, Industry and Fisheries, owned 34.3 percent of Hydro's shares, while the Government Pension Fund Norway owned 5.3 percent. Shareholding is based on information from the Norwegian Central Securities Depositary (VPS) as of December 31, 2019. Due to lending of shares, an investor's holdings registered in its VPS account may vary.

References: Learn more about Hydro's equity and dividend policy under Shareholder information in Hydro's Annual Report 2019.

#### 6. General meeting of shareholders

Notice of a general meeting of shareholders with supporting information is normally published on www.hydro.com more than three weeks in advance, and is sent to the shareholders at least three weeks before the meeting is held.

Notice of a general meeting of shareholders provides information on the procedures which shareholders must observe in order to participate in and vote at the meetings. Such notice also details:

- the procedure for representation by proxy, including the use of a form of proxy
- the right of shareholders to propose resolutions for consideration by the general meeting of shareholders.
- the website where the notice of the meeting and other supporting documents will be made available

The following information is available at www.hydro.com:

- information on the right of shareholders to propose matters for consideration by the general meeting of shareholders
- how to make proposals for resolutions for consideration by the general meeting or how to comment on matters for which no resolution is proposed
- form of proxy

Our aim is that resolution proposals and supporting information that are distributed are sufficiently detailed and comprehensive to enable shareholders to reach decisions on the matters to be considered at the meeting.

The notification deadline for shareholders wishing to attend the general meeting of shareholders is maximum five days prior to the meeting.

Shares registered in a nominee account must be re-registered in the Norwegian Central Securities Depository (VPS) and be registered in the VPS on the fifth working day before the general meeting of shareholders in order to obtain voting rights.

Shareholders who are unable to attend in person may vote by proxy. Hydro will nominate a person who will be available to vote on behalf of shareholders as their proxy.

The general meeting of shareholders votes for each candidate nominated for election to the company's corporate assembly and nomination committee.

To the extent possible, the form of proxy will facilitate separate voting instructions for each matter to be considered by the meeting and for each of the candidates nominated for election. It is possible to vote electronically in advance.

The general meeting of shareholders is chaired by the chairperson of the corporate assembly or, in his or her absence, by the deputy chairperson.

The chairperson of the board of directors, minimum one nomination committee representative, the President and CEO, and the auditor attend the general meeting.

References: Learn more about the general meeting of shareholders at www.hydro.com/investor

Deviations: See the first page of this section.

#### 7. Nomination committee

In accordance with Hydro's articles of association, the company must appoint a nomination committee. This committee is comprised of minimum three members, maximum four, who are either shareholders or shareholder representatives. The committee's chairperson and members are appointed by the general meeting of shareholders. At least two, including the chairperson, must be elected from the shareholder-elected representatives in the corporate assembly. If the chairperson resigns as member of the Nomination Committee during the electoral period, the Nomination Committee shall elect among its members a new chairperson for the remainder of the new chairperson's electoral period.

The guidelines for the nomination committee have been approved by the general meeting of shareholders, which also determines the remuneration of the committee. All shareholders may propose candidates for the nomination committee at any time. In order to be considered at the next ordinary election, proposals must be submitted by the end of November in the year before the election year.

The recommendations of the nomination committee include details on the candidates' background and independence.

The nomination committee ensures that due attention is paid to the interests of the shareholder community and the company's requirements for competence, capacity and diversity. The nomination committee also takes account of relevant statutory requirements regarding the composition of the company's governing bodies.

According to its mandate, the Nomination Committee shall be receptive to external views and shall ensure that any deadlines for proposals regarding members of the Corporate Assembly, the Nomination Committee and the Board of Directors are published well in advance on the Company's website. In carrying out its duties the Nomination Committee should actively maintain contact with the shareholder community and should ensure that its recommendations are anchored with major shareholders.

All members of the nomination committee are independent of Hydro's board of directors, chief executive officer and other executive management staff. As the largest shareholder, the Norwegian state is represented on the nomination committee by Morten Strømgren.

References: Hydro's Articles of Association can be found at www.hydro.com/governance. More information about Hydro's nomination committee can be found at the same site. Members of the nomination committee are listed on www.hydro.com/governance. Nominations can be submitted electronically, also from www.hydro.com/governance

*Deviations:* See the first page of this section.

# 8. Corporate assembly and board of directors: composition and independence

All board directors, members of the board committees and members of the corporate assembly are independent of the company's executive management and material business relationships. One member of the corporate assembly is dependent of major Hydro shareholders: Nils Bastiansen, who is an employee of the Government Pension Fund Norway, is a member of the corporate assembly. There were a few matters where certain board members were disqualified.

Thomas Schulz is the CEO of the listed company FLSchmidt. Sales and purchases between FLSchmidt and fully owned Hydro subsidiaries totaled DKK 13.9 million in 2019. Schulz was not directly involved in these transactions.

Two-thirds of the corporate assembly and their deputies are elected by the general meeting of shareholders. The nomination committee nominates candidates with a view to obtain a broad representation by the company's shareholders and other relevant stakeholders with competence in, for example, technology, finance, research, and corporate social responsibility.

The corporate assembly elects the board of directors, including its chair and deputy chair.

In compliance with Hydro's articles of association, the board of directors consists of between nine and 11 members. These are elected for a period of up to two years.

The nomination committee aims to achieve a board composition whereby the members complement each other professionally and the board of directors is able to function as a corporate body.

As of December 31, 2019, seven of the board's directors owned a total of 111,377 shares. Hydro has no share purchase program for board members, with the exception of the employee representatives, who are entitled to buy shares through the Norwegian employee share purchase scheme. All share purchase transactions are conducted in compliance with the Securities Trading Act.

References: The Government Pension Fund Norway is a significant shareholder in Hydro. An overview of the members of the corporate assembly, the current composition of the board of directors and information about their independence, and Hydro's articles of association at www.hydro.com/governance

#### 9. The work of the board of directors

The board of directors has established procedures for its own work and that of the company's management, with particular emphasis on clear internal division of responsibilities whereby the board has responsibility for supervising and administrating the company, and the company's management has responsibility for the general operation of the group.

#### Conflicts of interests and disqualification

Hydro's Code of Conduct contains guidelines for, among other things, how conflicts of interests that may arise should be dealt with. The code applies to all of Hydro's board members and employees. It is the opinion of the board of directors that there were no transactions that were material between the group and its shareholders, board members, corporate management board or related parties in 2019, except those described under item 8.

If the chairperson of the board is or has been actively involved in a given case, for example in negotiations on mergers, acquisitions etc., another board director will normally lead discussions concerning that particular case.

The board of directors has an annual work plan, with particular emphasis on objectives, strategy and implementation.

Since 2001, Hydro has had an audit committee and a compensation committee. The audit committee has four members and the compensation committee three members. The shareholder-elected members are all independent of the company. In the opinion of the board of directors, the audit committee meets the Norwegian requirements regarding independence and competence.

The board of directors conducts an annual self-assessment of its work, competence and cooperation with management and a separate assessment of the chairperson of the board. In addition, the audit committee performs a self-assessment. The assessment results are submitted to the nomination committee, which in turn assesses the board's composition and competence.

References: See the section Board developments in the Board of Directors' report. Information about the board of directors and its committees, and the board members' competence can be found in the chapter Corporate Governance in Hydro's Annual Report 2019. The board of directors' mandate can be found at www.hydro.com/governance

#### 10. Risk management and internal controls

The board of directors ensures that the company has sound internal controls and appropriate risk management systems through, for example, an annual review of the key risk areas and the company's internal controls. Internal audit corporate reports directly to the board of directors, but is for administrative purposes placed under the purview of the chief financial officer.

Hydro's internal control system includes all parts of our corporate directives, including our code of conduct and HSE and corporate social responsibility requirements. A more detailed description of the company's internal controls and risk management systems related to financial reporting can be found at www.hydro.com/governance

*References*: A review of Hydro's major risks can be found in the section Risk review in the Board of Directors' report.

#### 11. Remuneration of the board of directors

The board directors elected by the shareholders perform no duties for the company other than their board duties.

Remuneration is determined by the corporate assembly, based on the recommendation of the nomination committee. The nomination committee recommends compensation with the intention that it should reflect the board's responsibility, competence and time commitment as well as the company's complexity and global activities compared with the general level of directors' fees in Norway. Remuneration of the board of directors is based neither on performance nor on shares or share options.

References: All aspects of remuneration of the board of directors are described in note 9.4 (Board of directors and corporate assembly) to the consolidated financial statements. See also Hydro's articles of association.

# 12. Remuneration of the executive management

The board of directors has established guidelines for remuneration of members of the executive management. These guidelines are communicated to the general meeting of shareholders and included in the annual report. The guidelines for determining remuneration of the executive management are based on the main principles for Hydro's remuneration policy, which is that Hydro shall pay its employees a total compensation package that is competitive, but not among the highest, and in line with good industry standards locally. Where appropriate, compensation packages should also include a performance-based component, and the basic salary should reflect individual performance.

The guidelines are also intended to contribute to long-term value creation for the company's shareholders. A ceiling has been set on performance-based compensation. The company has share-based long-term incentive programs, but no share option scheme for its executive management.

The board of directors' statement on management remuneration is made public through note 9.1 to the consolidated financial statements. Note 9.1 is sent forward to the general meeting of shareholders for advisory vote, however, the part of section of note 9.1 which concerns compensation based on shares is presented for a binding vote.

References: The board's guidelines for management remuneration are described in note 9.1 (Board of directors' statement on executive management remuneration) to the consolidated financial statements. All aspects of remuneration of management are described in note 9.2 (Management remuneration). The employee share purchase plan is described in note 9.3 (Employee remuneration). Hydro's remuneration policy is also described in Hydro's people policy, which can be found at www.hydro.com/principles

#### 13. Information and communication

Hydro has established guidelines for the company's reporting of financial and extra-financial information, the requirements that extends beyond the financial reporting, covering environmental, social and governance issues, based on transparency and with regard to the requirement of equal treatment of all parties in the securities market. This also pertains to contact with shareholders outside of the general meeting of shareholders.

Shareholder information is available at www.hydro.com. The financial statements and annual report are sent free of charge to shareholders on request. Notice of general meeting of shareholders is sent directly to shareholders with known addresses unless they have consented to receive these documents electronically. All information sent to the shareholders is made available at hydro.com when distributed. Presentation of the quarterly reports as well as the annual shareholder meeting are simultaneously broadcasted through web casts. All relevant information is

sent to the Oslo Stock Exchange electronically for public storage.

Hydro has emergency plans in place at the relevant levels in the organization. These plans are exercised regularly. Rules for who can speak on behalf of the company are regulated through Hydro's code of conduct.

References: A financial calendar is available in this report and at www.hydro.com/investor where also more information about web casts and the Hydro share can be found, including key legal information for shareholders in Norsk Hydro ASA. Hydro's code of conduct is available at www.hydro.com/principles

#### 14. Takeovers

The board of directors will handle takeover bids in accordance with Norwegian law and the Norwegian Code of Practice for Corporate Governance. There are no defense mechanisms against acquisition offers in our articles of association or in any underlying steering document. We have not implemented any measures to limit the opportunity to acquire shares in the company. See also item 5.

Deviations: See the first page of this section.

#### 15. Auditor

The external auditor annually presents to the audit committee the main features of the plan for the audit of Hydro.

The external auditor participates in considering relevant matters in meetings of the audit committee. The minutes from these meetings are distributed to all the board directors. This practice is in line with the EU audit directive. Each year the auditor expresses its opinion on internal control procedures to the audit committee including identified weaknesses and proposals for improvement.

The auditor meets with the board of directors when the company's annual financial statements are discussed. In the meetings the auditor will review material changes in the company's accounting policies, assess material accounting estimates and any other material matters on which the auditor and management may disagree, and identify weaknesses in and suggest improvements to the company's internal controls. The board of directors holds meetings with the external auditor without members of the corporate management present.

Hydro places importance on independence and has clear guidelines regarding the use of services from external auditors. All use of services from an external auditor, including non-audit services, is subject to prior approval as defined by the audit committee.

Remuneration of the auditor is stated in the annual report. It is also included as a separate agenda item to be approved by the annual general meeting of shareholders.

In 2010, the general meeting of shareholders chose KPMG as new external auditor for the group with effect from the reporting period 2010.

References: Learn more about the external auditor in the sections Corporate Governance and Viability Performance statements in Hydro's Annual Report 2019, note 10.4 (Auditor's remuneration) to the consolidated financial statements, and note 10.5 (Changes in accounting principles and new pronouncements).

# Modern Slavery transparency statement

Hydro's Modern slavery transparency statement has been developed to comply with the legal requirements as stated in the UK Modern Slavery Act 2015, valid to Hydro from 2016, and the Australia Modern Slavery Bill 2018, valid to Hydro from 2020. The reporting requirements apply to Hydro as a supplier of goods with a total turnover of £36 million or more in the UK and more than AUD 100 million in Australia. The statement is valid for Norsk Hydro ASA and its consolidated subsidiaries. These include, but are not limited to, the fullyowned production units Hydro Aluminium Deeside Ltd, Hydro Building Systems UK Ltd., Hydro Components UK Ltd and Hydro Extrusion UK Ltd in the UK and the fully-owned holding company Hydro Aluminium Australia Pty Limited in Australia. The latter is the owner of Hydro's 12.4 percent of the shares in the joint venture Tomago Aluminium Smelter and Tomago Aluminium Smelter management company Tomago Aluminium Company Pty.

The Modern slavery transparency statement is prepared based on information collected from all consolidated entities in Hydro. In addition, the above-mentioned legal entities have been consulted on the statement itself.

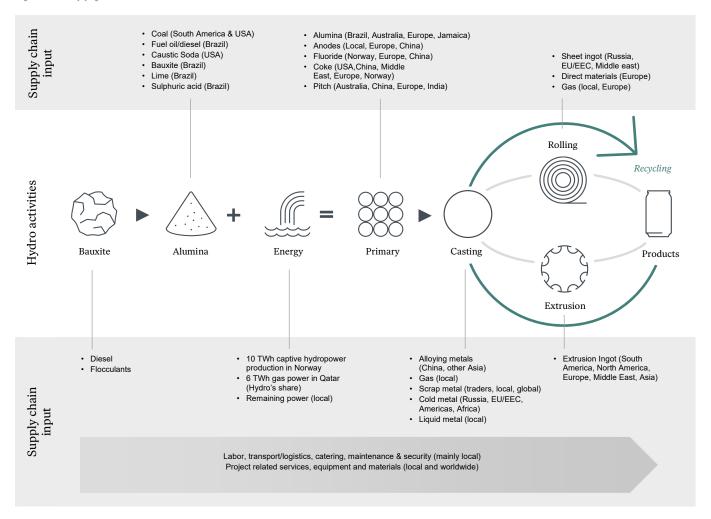
Entities that are not fully owned by, but are controlled by Hydro, can have different policies. We believe that their relevant policies are aligned with the ones of Hydro.

The UK and Australia Modern Slavery transparency statement is approved by the board of directors of the parent company Norsk Hydro ASA. The statement is included in the board's responsibility statement and included in the Financial Statements and Board of Directors' Report 2019.

#### Our business and supply chain

Hydro is a fully integrated aluminium company with 36,000 employees in around 40 countries on all continents. In addition to production of primary aluminium, rolled and extruded products and recycling, Hydro also extracts bauxite, refines alumina and generates energy to be the only 360° company in the global aluminium industry. Our operations include one of the world's largest bauxite mines and the world's largest alumina refinery, both located in Brazil. We have primary metal production facilities in Europe, Canada, Australia, Brazil and Qatar. Hydro is a large operator of power production in Norway. Extrusion activities are mainly located in Europe and North America, but we also have significant operations in Asia and Brazil. Hydro is present within all market segments for aluminium, with sales and trading activities throughout the value chain serving more than 30,000 customers. Hydro has more than 30,000 active suppliers globally. Most of these are situated in the same countries as our production facilities.

#### Hydro's supply chain



The figure shows Hydro's supply chain related to its value chain, and does not reflect the current organizational structure.

#### Our policies and commitments

As a global aluminium company with mining interests, ensuring responsible conduct is important throughout Hydro's value chain. We have to consider our impact on society, spanning from construction to divestment, as well as the exposure to corruption and human rights violations, within our own operations and in the supply chain.

Our compliance system shall ensure that all persons acting on behalf of Hydro comply with applicable laws and regulations and with the requirements adopted by Hydro.

We are committed to respecting and supporting the human rights of all individuals potentially affected directly or indirectly by our operations, including freedom from modern slavery. As an employer, owner and purchaser, an important contribution toward respecting human rights is to secure decent working conditions in our organization, in minority-owned companies and with our suppliers.

We support the principles underlying the Universal Declaration of Human Rights, the UN Global Compact and ILO's eight core conventions. Our human rights policy is based on the UN Guiding Principles on Business and Human Rights, and we report on our adherence in the GRI index. We are a member of the International Council on Mining and Metals (ICMM) and are committed to following their principles and position statements. We use the GRI Standards for voluntary reporting of sustainable development. Hydro's human rights management is based on the OECD Due Diligence Guidance for Responsible Business Conduct

Hydro's Human Rights Policy was developed in 2013 through a multi-stakeholder process. The policy was updated in 2016 and outlines the company's commitment to respecting and promoting human rights. The commitment is integrated in key procedures, including supply chain management, new projects and portfolio management and risk management. The policy is approved by the Corporate Management Board and is governed by EVP Corporate Development.

Implementation of the Human Rights Policy is a line management responsibility. Human rights risk can be addressed in the business areas' Sustainability committees or similar fora. The committees typically include senior members or members of the management team of the business area. Information pertaining to Hydro's most severe human rights risks are communicated to the board of directors, the Corporate Management Board, business area management teams, and relevant parties such as union representatives.

Hydro's supplier and business partner requirements regarding social and environmental responsibility are, as stated in our global directives and procedures, an integral part of all stages of the procurement process. The requirements cover issues related to environment, human rights, anti-corruption and bribery and working conditions, including work environment.

These requirements set out in Hydro's Supplier Code of Conduct are based on international standards, including UN Global Compact, the ILO core conventions, UN Guiding Principles on Business and Human Rights and other UN documents and instruments. The Supplier Code of Conducted will be updated in 2020.

The principles in Hydro's Supplier Code of Conduct are made binding through contractual clauses, to ensure suppliers and business partners reflect the values and principles that Hydro promotes internally and externally. Standard contracts also include clauses on auditing rights and the supplier's responsibility to actively promote the principles with its own suppliers/contractors and sub suppliers/subcontractors of any tier that have a material contribution to the supply of goods and services to Hydro under the contract.

For legal entities where Hydro holds less than 100 percent of the voting rights, Hydro representatives in the boards of directors shall endeavor to implement the ambitions and principles related to Hydro's global policies including human rights.

#### Training and capacity building

Human rights responsibilities are part of Hydro's Code of Conduct, which is translated into 18 languages. The Code of Conduct includes our opposition to all forms of human trafficking and forced or compulsory labor. Training in the Code of Conduct is mandatory for all employees. In addition, more specific training on relevant human rights topics is given to functions involved in procurement and social responsibility on a regular basis. E-learnings on Hydro's Social responsibility, including human rights, are available to all employees.

Hydro works to strengthen and improve suppliers' performance. This may be done through dialogue, sharing of knowledge, innovation processes, incentives or supplier development programs.

In Brazil, suppliers can apply to participate in a comprehensive, year-long supplier development program. In 2019, 26 supplier companies participated in the program.

#### Risk assessments of human and labor rights

With more than 30,000 active suppliers, Hydro risks being exposed to human rights violations including modern slavery. Hydro did not detect severe human rights impacts in our own operations in 2019.

Human rights due diligence is integrated in Hydro's processes. As part of the Enterprise Risk Management process, risk of adverse human rights impacts is discussed. Based on this, mitigating actions are developed and included in business plans in the business areas. Business plans are monitored, followed up and evaluated through the year in regular meetings with the Corporate Management Board.

Hydro's procedure for integrity risk management of business partners includes suppliers and customers, strategic partners and intermediaries/agents. It sets requirements for risk assessments and integrity due diligence when entering into a new business relationship or renewing an existing contract. Implementation is risk-based and takes into consideration contractual value, sector specific risk, human rights risk, corruption risk and more.

Suppliers, customers and other business partners registered in our main accounting systems are screened on a weekly basis against recognized international sanction lists. Furthermore, supplier audits and site visits are performed by Hydro personnel and external auditors based on risk analyses, and include environmental, social and governance topics, including human rights.

We consult with interested and affected parties in the identification, assessment and management of significant impacts associated with our activities. This includes communicating findings and addressing mitigating actions. We also consult with human rights experts knowledgeable about the local territories where we operate or through established partnerships.

Before new projects, major developments or large expansions are undertaken, we conduct environmental and social impact assessments when relevant, which includes evaluating risks for adverse human rights impacts in line with internationally accepted standards such as IFC Performance Standards, Equator principles and UN Guiding Principles on Business and Human Rights. This includes the principle of free, prior and informed consent when Indigenous and Traditional Peoples are involved. Dialogue with affected groups gives input to development plans. We strive to act in an open and credible manner, and gather views from interested parties, aiming for a common understanding of the decisions that are made.

Hydro's human rights management is risk-based. In countries with higher risks for adverse human rights impact, we aim to conduct stand-alone human rights impact assessment and mitigating action plans. Hydro recognizes that there are potential risks of adverse impacts concerning our operations in Brazil and in the Middle East, as well as in our supply chain. The risk of incidents of child labor abuse, compulsory or forced labor in our supply chain is low in the majority of Hydro's business areas. We do, however, recognize a risk of forced or compulsory labor among

suppliers in the Middle East, South America and Asia. This is followed up through supplier audits, etc.

Hydro's framework for human rights management was reviewed in 2019. The identified improvements include revision of the Human rights policy and strengthening of due diligence and risk mapping procedures. The improvement work will continue in 2020.

We engage with rightsholders and stakeholders both internally and externally to help inform about the effectiveness our human rights impact management.

Dialogue with the employees' representatives includes involvement at an early stage in all major processes affecting employees, and we have a tradition for open and successful collaboration between management and unions.

Hydro has regular dialogue with communities, and more frequent and structured dialogue in communities with higher risk of adverse human rights impact. We develop and plan community dialogues in collaboration with affected communities, based on their needs and expectations. Community members in Brazil and at several other major sites are invited to plant visits on a regular basis. We also have regular dialogue with non-governmental organizations, academia and other civil society actors to discuss our human rights management.

Grievance, or complaint, mechanisms are important to understand the impact of Hydro's operations on the rights of individuals and groups affected by our operations. Grievances may be of any kind, including social and environmental issues, and can be made anonymously. In situations where we identify adverse human rights impact, we work to mitigate, prevent, address and remedy potential adverse impacts as recommended in the UN Guiding Principles on Business and Human Rights. Hydro will not tolerate retaliation against anyone who speaks up in good faith to ask a question, raises a concern, reports a suspected violation or participates in an internal company investigation. We have several grievance mechanisms depending on stakeholder groups.

#### Responsible behavior

We recognize that business can have an important role in supporting the fulfillment of human rights.

Hydro's social responsibility is founded on the basis of making a positive difference by strengthening our business partners and the local communities where we operate. To deliver on this, we target the fundamental drivers of long-term development. In line with local stakeholder expectations and needs, and through strong partnerships, we aim to:

- Contribute to quality education in our communities
- Promote decent work throughout the value and supply chain
- Foster economic growth in our communities
- Strengthen local communities and institutions through capacity building on human rights and good governance

We have committed to contribute to quality education and capacity building for 500,000 people in our communities and for business partners from 2018 until end of 2030.

In 2019, we reached a more than 26,000 people. Continuous improvement of current initiatives and development of new effective, high-impact initiatives will be important going forward.

Through our operations, we contribute to the economic and human development of our employees and the communities in which we operate. We work to ensure informed and effective participation by individuals and groups who are actually or potentially affected by our operations. We respect Indigenous Peoples' rights, including the right to free, prior and informed consent, and the rights of local communities when our activities may affect their lands, territories and livelihoods.

We are concerned about fundamental labor rights, such as freedom of association and collective bargaining, minimum wage requirements and the regulation of working hours. We have a long tradition of maintaining a good dialogue with employee organizations. Hydro's major sites in Europe and Brazil are unionized. Extruded Solutions has a major presence in the USA, and 60 percent of our US employees are working at unionized sites. We have activities in countries where trade unions are restricted, where we look for alternative forums to empower employees. Hydro's Global Framework Agreement was last updated in 2016. The parties are currently negotiating a new agreement. The agreement aims at creating an open channel of information between the parties about industrial relation issues in order to continuously improve and develop good work practices in our worldwide operations.

An important contribution toward respecting human rights is to secure decent working conditions in our organization and promote the same standards in jointly operated and minority-owned companies, and with our suppliers. In Qatalum, in Qatar, where Hydro holds a 50 percent share, the large majority of employees are migrant workers. Proper working conditions for them is key to us.

Security guards are employed on a regular basis to protect our personnel and assets. No armed guards were engaged in our activities in 2019, and there were no significant incidents reported in connection with the use of security guards. Hydro is committed to the Voluntary Principles on Security and Human Rights.

All documents listed under References below are also valid for all our subsidiaries subject to the UK Modern Slavery Act and the Australia Modern Slavery Bill.

#### References

A number of Hydro's constituting documents and global directives are relevant for our work against modern slavery. These include, but are not limited to:

- NHC-CD07 Hydro's Code of Conduct
- GD02 Hydro's People Directive
- GD03 Health, Security, Safety and Environment
- GD09 Hydro's Social Responsibility
- GP09-01 Corporate Social Responsibility in the supply chain
- GP09-01 Hydro's Supplier Code of Conduct
- GP09-03 Hydro's Human Rights Policy
- The Hydro Integrity Program Handbook

All documents are available at www.hydro.com/principles

# Additional information

#### Terms and definitions

ADRs	American Depositary Receipts, evidencing a specified number of ADSs
ADSs	American Depositary Shares, each ADS representing one deposited ordinary share
Alunorf	Aluminium Norf GmbH
Alunorte	The world's largest Alumina refinery outside China, situated in Barcarena in Northern Brazil. Hydro owns 92 percent
AMPS	Aluminium Metal Production System. Hydro's best practice system and standard for world-class production and improvement in our primary metal business
Articles of Association	The articles of association of the Company, as amended and currently in effect
Audit Committee	The audit committee of the Company's Board of Directors
BABS	Bauxite & Alumina's best practice system, based on AMPS (see above) and adjusted to B&A needs
BAT	Best Available Techniques for pollution prevention and control
B&A	Hydro's Bauxite & Alumina business area
CO2 equivalents (CO2e)	A measure used to compare the emissions from various greenhouse gases based upon their global warming potential
Code	The U.S. Internal Revenue Code of 1986, as amended
Company	Norsk Hydro ASA, a Norwegian public company limited by shares, or Norsk Hydro ASA and its consolidated subsidiaries as the context requires
Compensation Committee	The compensation committee of the Company's Board of Directors
Consolidated Financial Statements	The consolidated financial statements and notes included in the Company's annual report to shareholders
Corporate Assembly	The corporate assembly, a body contemplated by Norwegian companies' law, with responsibility, among other things, for the election of the members of the Company's Board of Directors and nomination of the external auditor
Corporate Management Board	The corporate management board established by the Company's President and Chief Executive Officer to assist him in discharging his responsibilities
CRU	CRU International Limited
CSR	Corporate Social Responsibility
Disclosure Committee	The disclosure committee of the Company, comprised of members of senior management, which is responsible for reviewing financial and extra-financial information before it is made public
DRS1	The old bauxite residue deposit area at Alunorte, still being used to deposit bauxite residue, processed by state-of-the-art press filters
DRS2	The new bauxite residue deposit area at Alunorte, which was under commissioning when Barcarena was flooded following extreme rainfalls in February 2018
EEA	European Economic Area
EEA Agreement	The European Economic Area Agreement
EFTA	European Free Trade Association
EU	European Union
GHG	Greenhouse gas emissions
GRI Standards	Globally recognized standards for sustainability reporting
HSE	Health, security, safety and environment
Hydro	Norsk Hydro ASA and its consolidated subsidiaries
Hydro Aluminium	The aluminium business of Hydro, comprising the sub-segments Metals, Rolled Products, and Extrusion and Automotive
Hydro Monitor	Hydro's global employee engagement survey, normally performed for all employees every second year
Ibama	Brazilian Institute of the Environment and Renewable Natural Resources is a federal environmental agency under the Ministry of Environment
ILO	International Labor Organization
Industry 4.0	An initiative within Primary Metal focusing on advanced analytics, automation, robotics, and digital and predictive maintenance.
kWh	Kilowatt hour
LME	London Metal Exchange
mm	Millimeter
Mt (or mt)	Metric tonne (1,000 kilograms)
My Way	The process we use at Hydro for employee feedback and development. This process consists of regular dialogues between employee and leader, as well as a system tool.
NOK	Norwegian kroner
Nomination Committee	The nomination committee provided for in the Company's Articles of Association and operating under a charter established by the shareholders' representatives in the Corporate Assembly
OSE	Oslo Stock Exchange
Semas	The Secretary of State for Environment and Sustainability is the environmental agency in the state of Pará
TAC	"Term of Adjustment of Conduct" is an agreement between Alunorte, Ministério Público and the Government of Pará/Semas and regulates certain technical studies and improvements, audits, payments of fines, and payments for food cards to families living in the hydrographic area of the Murucupi river

TC	"Term of Commitment" is a social agreement, in addition to TAC, between Alunorte and the Government of Pará. The agreement addresses efforts and investments related to the social development of communities in Barcarena			
tonne, mt	One metric tonne (1,000 kilograms or 2,205 pounds)			
TWh	Terawatt hour (one billion kilowatt hours)			
US GAAP	Generally accepted accounting principles in the United States			
VAW	VAW Aluminium AG			
VPS or VPS System	The Norwegian Central Securities Depository, Verdipapirsentralen			
Workers	Person that performs work directly or indirectly for the company. It includes, but is not limited to, employees			
WTO	World Trade Organization			
Yara	Yara International ASA			

#### Cautionary note

Certain statements included in this announcement contain forward-looking information, including, without limitation, information relating to (a) forecasts, projections and estimates, (b) statements of Hydro management concerning plans, objectives and strategies, such as planned expansions, investments, divestments, curtailments or other projects, (c) targeted production volumes and costs, capacities or rates, start-up costs, cost reductions and profit objectives, (d) various expectations about future developments in Hydro's markets, particularly prices, supply and demand and competition, (e) results of operations, (f) margins, (g) growth rates, (h) risk management, and (i) qualified statements such as "expected", "scheduled", "targeted", "planned", "proposed", "intended" or similar.

Although we believe that the expectations reflected in such forward-looking statements are reasonable, these forward-looking statements are based on a number of assumptions and forecasts that, by their nature, involve risk and uncertainty. Various factors could cause our actual results to differ materially from those projected in a forward-looking statement or affect the extent to which a particular projection is realized. Factors that could cause these differences include, but are not limited to: our continued ability to reposition and restructure our upstream and downstream businesses; changes in availability and cost of energy and raw materials; global supply and demand for aluminium and aluminium products; world economic growth, including rates of inflation and industrial production; changes in the relative value of currencies and the value of commodity contracts; trends in Hydro's key markets and competition; and legislative, regulatory and political factors.

No assurance can be given that such expectations will prove to have been correct. Hydro disclaims any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.



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T +47 22 53 81 00 www.hydro.com Hydro is a fully integrated aluminium company with 36,000 employees in 40 countries on all continents, combining local expertise, worldwide reach and unmatched capabilities in R&D. In addition to production of primary aluminium, rolled and extruded products and recycling, Hydro also extracts bauxite, refines alumina and generates energy to be the only 360° company of the global aluminium industry. Hydro is present within all market segments for aluminium, with sales and trading activities throughout the value chain serving more than 30,000 customers. Based in Norway and rooted in more than a century of experience in renewable energy, technology and innovation, Hydro is committed to strengthening the viability of its customers and communities, shaping a sustainable future through innovative aluminium solutions.