

Third quarter 2019 Investor presentation

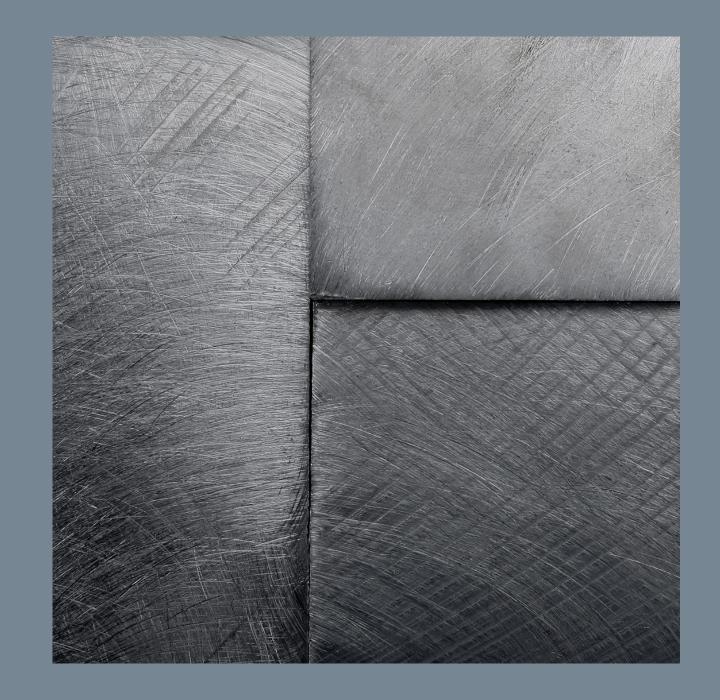


Table of contents



| Third quarter results 2019 | 3 |
|----------------------------|-----|
| Market | 37 |
| Business overview | 50 |
| Hydro - Group | 51 |
| Bauxite & Alumina | 71 |
| Energy | 79 |
| Primary Metal | 87 |
| Metal Markets | 93 |
| Rolled Products | 97 |
| Extruded Solutions | 104 |
| Additional information | 112 |

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.



Third quarter results 2019
Ramping up production in Brazil,
declining market prices

Third quarter highlights

- Underlying EBIT of NOK 1 366 million
- Final Alunorte embargo lifted
- Results down on lower aluminium and alumina prices
- Positive effects from higher upstream production and lower raw material costs
- New improvement program on track for 2019 target
- Increased market uncertainty and reduced demand expectations



Ramping up production at Alunorte

- Final embargo lifted on September 26, allowing Alunorte to resume installation and commissioning activities at DRS2
- 83% average capacity utilization in Q3, targeting 75-85% in Q4
- Commissioning of 9th press filter during November, expected to reach full utilization end-2019 – estimated average capacity utilization 85-95% in 2020
- Expect to reach full capacity utilization in 2021 with further process optimization
- Fully committed to deliver on obligations under technical and social agreement (TAC and TC)



On track for 2019 improvement target of NOK 500 million



Faster ramp-up in Brazil, Extruded Solutions facing market headwinds

Bauxite & Alumina

Curtailment reversal Fixed cost and efficiency

Rolled Products

Organizational efficiency Operational efficiency Commercial excellence

Energy

Commercial and operational handling Renewable and storage initiatives

Primary Metal

Curtailment reversal Fixed cost and efficiency Husnes restart

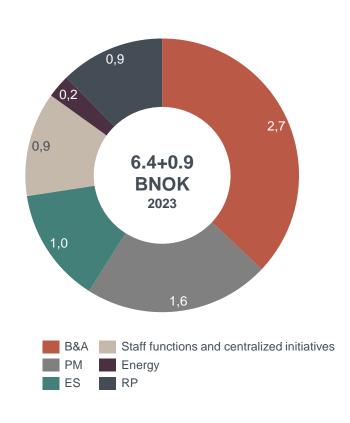
Extruded Solutions

Portfolio optimization
Fixed cost and efficiency
Value-over-volume
Selective growth

Staff and support functions

Fixed cost and simplification Procurement initiatives

By business area

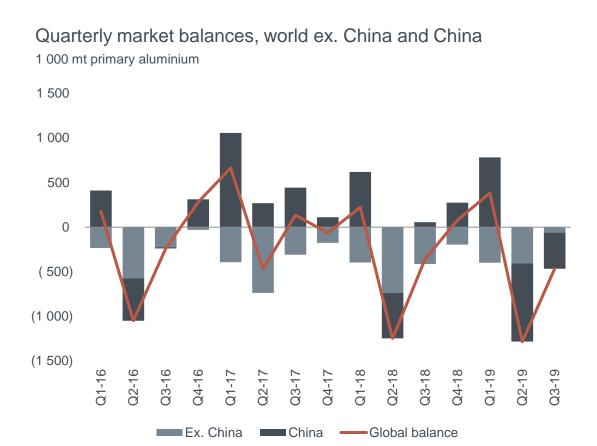


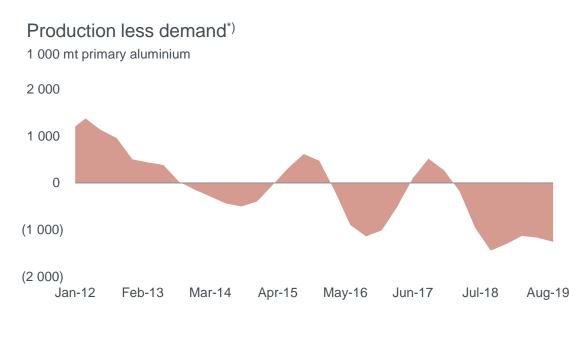
^{~10-11} BNOK in capex required to meet the improvement targets

Global aluminium market in deficit in Q3 2019



Balanced market in world outside China, deficit in China driven by production disruptions

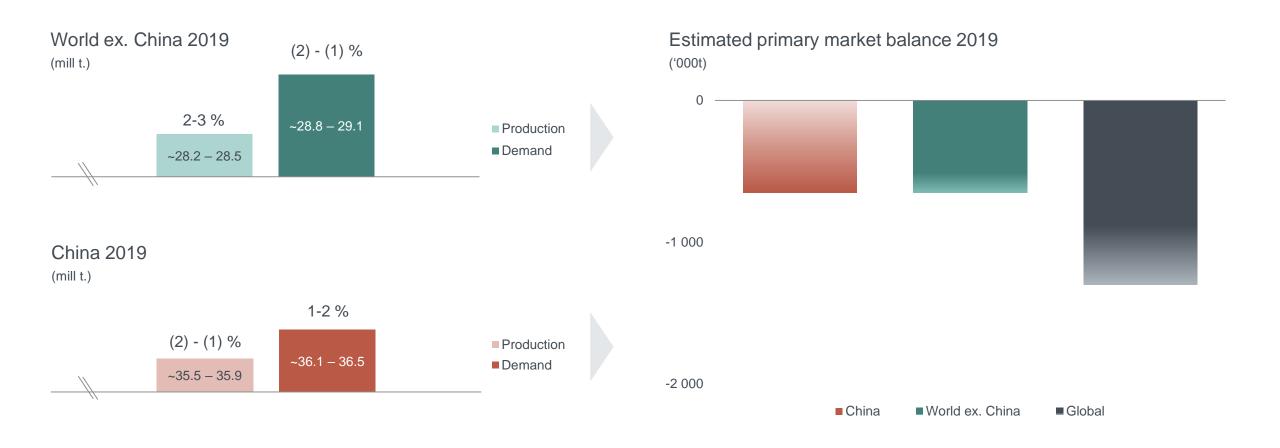




- ~0 % primary demand growth Q3-19 vs Q3-18
 - ~2 % China
 - ~(2) % World ex. China
- 2019 demand growth expected at (0.5) 0.5%

Global primary market expected in deficit for 2019

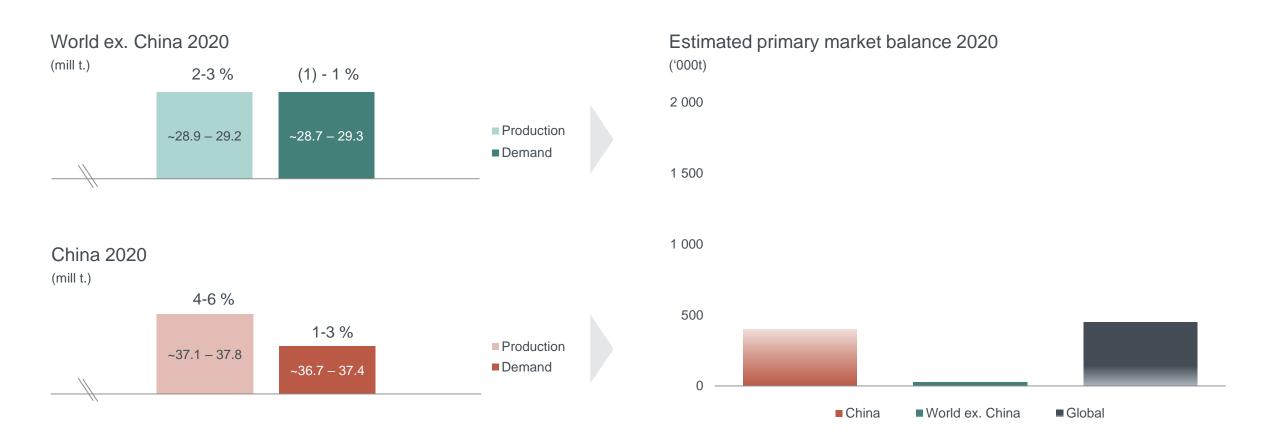




Largely balanced market expected for 2020



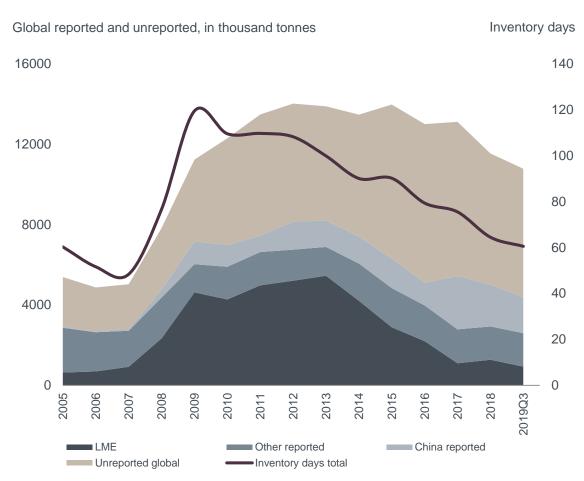
Higher production growth and continued subdued demand



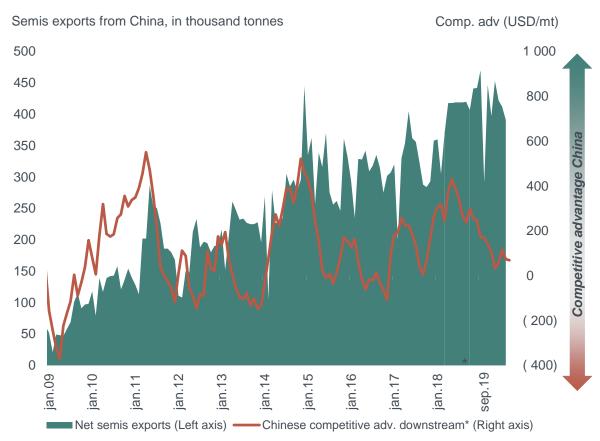
Inventories gradually trending downwards



Chinese semis exports moderating







Source: CRU, Thomson Reuters

Estimated metal cost China versus Europe

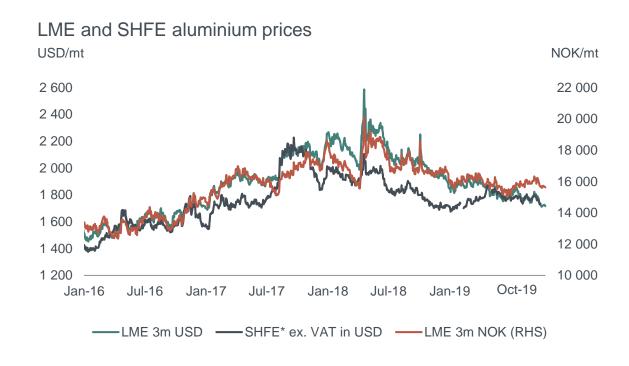
Europe: LME cash + European duty-paid standard ingot premium

China: SHFE cash + avg. local premium + freight – export rebates (~13 %)
*No detailed data for April to September 2018, semis months for these months distributed flat

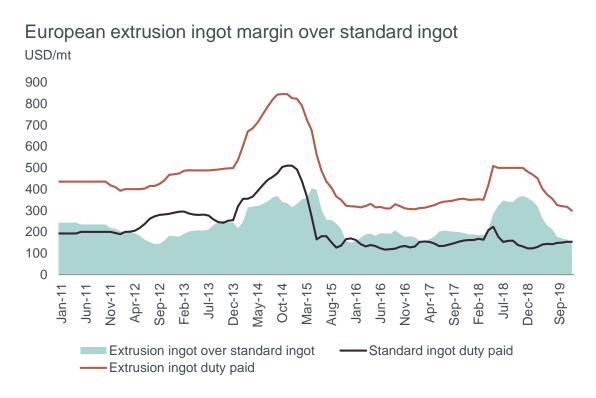
Stable LME in USD, improving in NOK during Q3



Tightening spread between standard ingot and product premiums



- LME mostly trading between 1 750 and 1 800 USD/t in Q3
- Continued low price differential between LME and SHFE



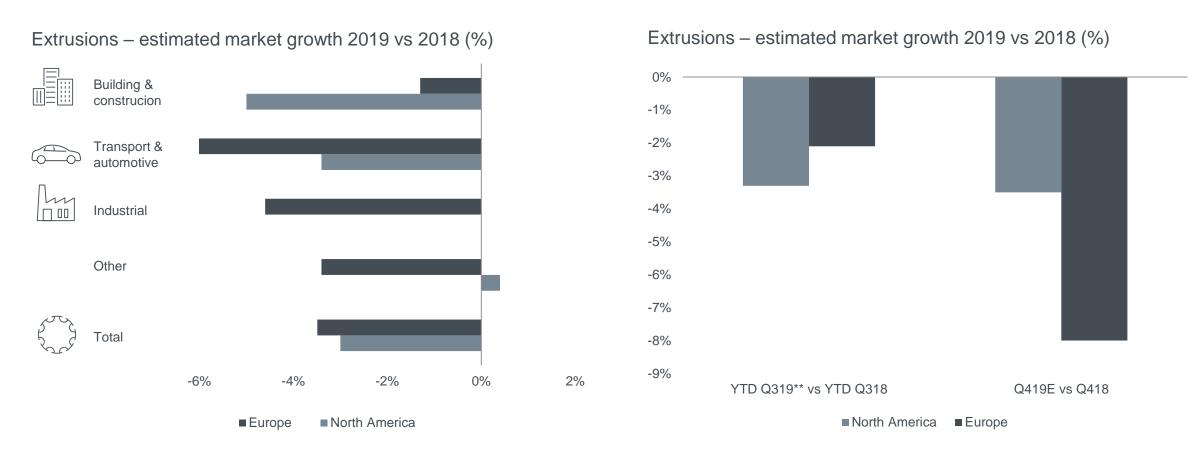
- Largely stable standard ingot premiums
- Declining extrusion ingot premiums on reduced demand

Source: Metal Bulletin, Platts, Reuters Ecowin, Hydro analysis

Negative extrusions demand in Europe and North America



Driven by weak macroeconomic development



Source: CRU / Hydro analysis

^{*} Industrial includes consumer durables, electrical and machinery

^{**} Q319 numbers for North America are based on July and August estimates as September numbers have not yet been published Europe excluding Russia/Turkey

Extruded Solutions taking firm measures in weak markets

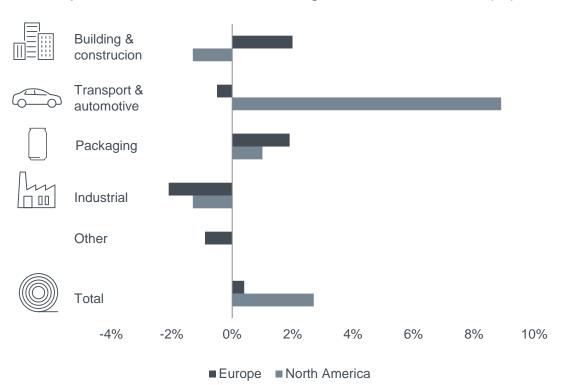
- Restructuring in Europe
 - Full closures: Pinto (Spain), Redditch (UK), Rotherham (UK), Wakefield warehouse (UK), Lodz warehouse (Poland), Dusseldorf office (Germany)
 - Divestments: Chisineu Cris (Romania)
- Restructuring in North America
 - Full closures: Belton (South Carolina), Kalamazoo (Michigan)
- Business largely transferred to other sites
- Additional restructuring and cost reduction initiatives under way
- These initiatives support ongoing BNOK 1.0 improvement target for Extruded Solutions
- Restructuring and impairment cost of MNOK 156 booked in Q3 (excluded from underlying EBIT)
 - MNOK 228 booked in Q2



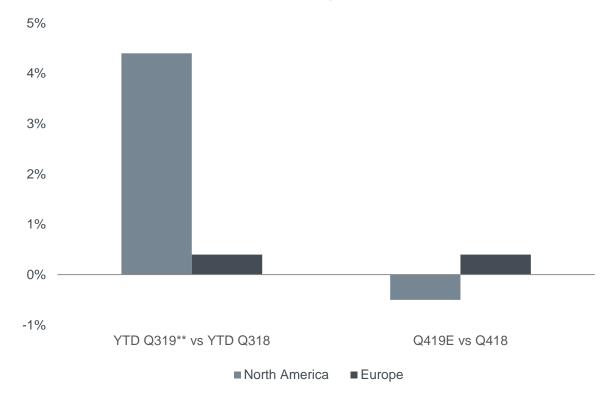
Transport and packaging demand remains firm, overall rolled products demand weakening











Source: CRU / Hydro analysis

^{*} Industrial includes consumer durables, electrical and machinery

^{**} Q319 numbers for North America are based on July and August estimates as September numbers have not yet been published Europe excluding Russia/Turkey



Growing can market, supported by substitution

- Sustainability trend supporting substitution to aluminium
- Several announcements on transition from beverage companies and can producers
- Can sheet demand in Europe expected to grow by 5-6% in 2019 and 6-7% in 2020
- Interesting market growth opportunity for Rolled Products
 - YTD 2019 vs YTD 2018 volumes to can segment up by 4%
 - Targeting to increase deliveries to can segment by ~20% by 2023

Restructuring and strategic review in Rolled Products

- Improvement and restructuring
 - Organizational efficiency
 - Operational efficiency
 - Commercial excellence
 - Shifting volumes to more attractive market segments: automotive and can
- BNOK 0.9 improvement targeted by 2023, in addition to BNOK 0.9 release in net operating capital by 2021
- Total restructuring costs BNOK ~1.6
 - Restructuring and impairment cost of MNOK 1 145 booked in Q3 (excluded from underlying EBIT)
- Improvements to be realized while continuing strategic review



Alumina prices down in Q3



Increasing alumina imports to China on widening price arbitrage



Industry raw material costs down in Q3



Petroleum coke FOB USG (indexed)



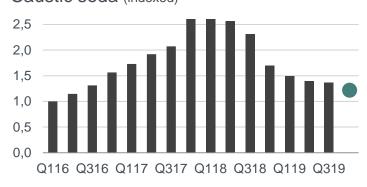
Pitch FOB USG (indexed)



Alumina PAX index (indexed)



Caustic soda (indexed)



Fuel oil A1 (Indexed)



Steam coal (indexed)



Indication of current market prices

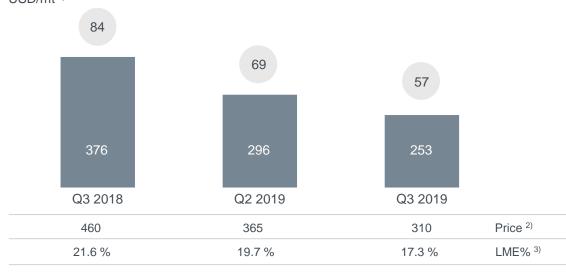
Source: Thomson Reuters, PACE, IHS Markit, Platts, ANP, CRU

Upstream costs trending downwards



Implied costs approaching pre-curtailment levels

Implied alumina cost and margin USD/mt 1)

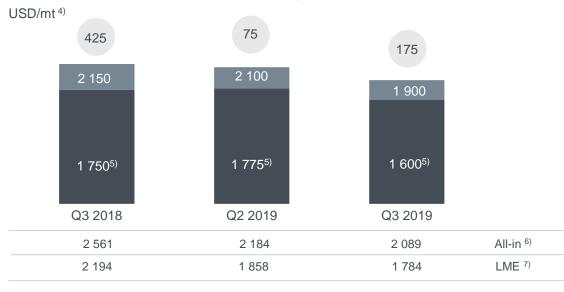


Implied alumina cost down in Q319 vs Q219, mainly on increased production, lower raw material costs and reduced external alumina sourcing and cost



- 1) Realized alumina price minus underlying EBITDA for B&A, per mt alumina sales
- 2) Realized alumina price
- 3) Realized alumina price as % of three-month LME price with one month lag
- 4) Realized all-in aluminium price less underlying EBITDA margin, incl Qatalum, per mt aluminium sold. Implied primary cost and margin rounded to nearest USD 25

All-in implied primary cost and margin



Implied primary cost down in Q319 vs Q219 on reduced costs, mainly related to alumina

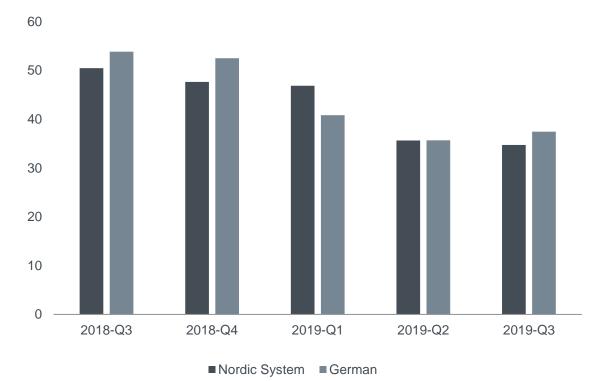


- 5) Realized LME aluminium price less underlying EBITDA margin, incl Qatalum, per mt primary aluminium produced
- 6) Realized LME plus realized premiums, including Qatalum
- 7) Realized LME, including Qatalum

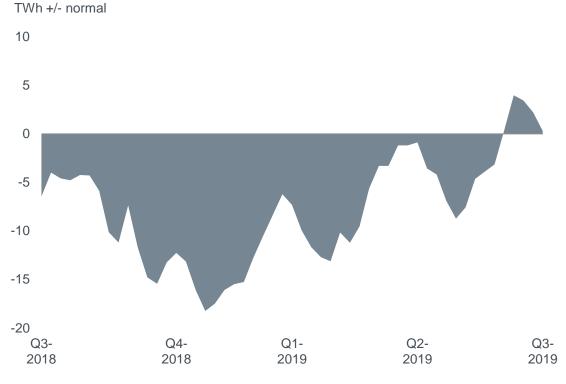
Nordic power prices down on improved hydrological balance through Q3







Nordic hydrological balance



■ Nordic hydrological balance

Source Nordic Hydrological Balance: Wattsight, Hydrological normal based on historical data from 1967-2011 and covers Norway and Sweden (the Nordic countries with significant hydrology resources)
Source Prices: NordPool (Nordic system price), Phelix (German price) The system price is the Nordic reference price for trading and clearing of most financial contracts.

Audi e-tron and Hydro: joint sustainability commitment

- Hydro provides ASI certified aluminium to the battery housing of the Audi e-tron
- The Aluminium Stewardship Initiative is the industry-leading standard of responsibility and sustainability
- Hydro with longest unbroken chain of ASI certifications in the industry - from mining through refining and primary aluminum production to fabrication of end products
- 19 Hydro plants in 8 countries have been ASI certified, several more in the process

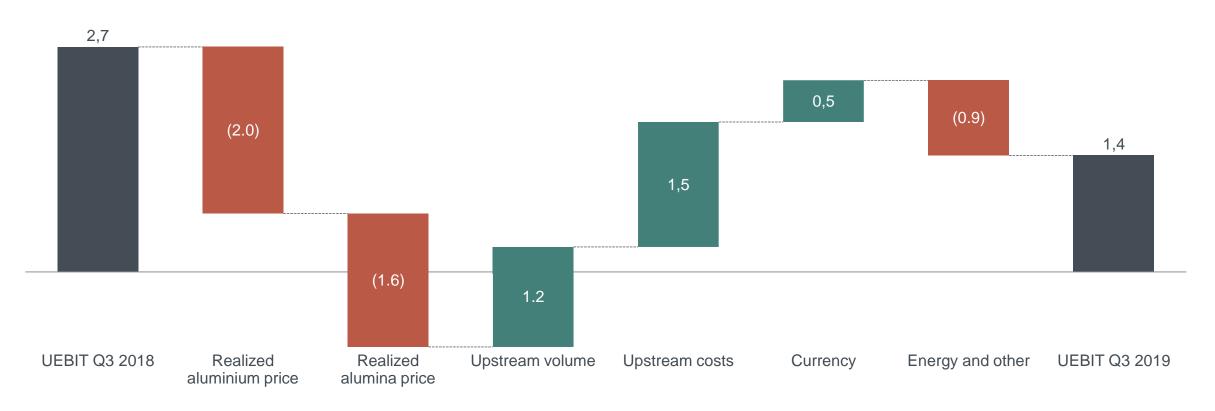


Results down on lower realized prices



Year-on-year results

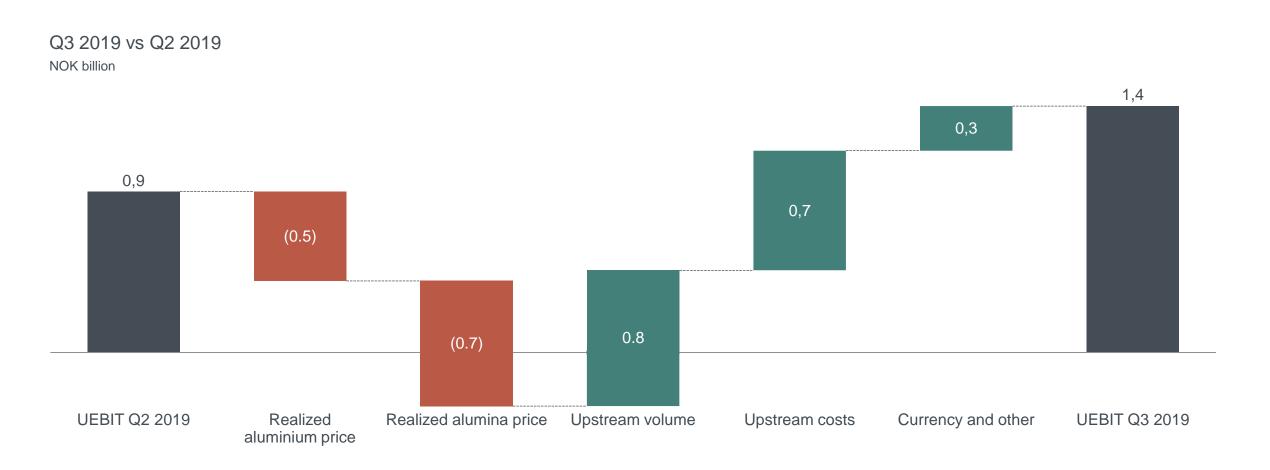




Improved results on lower costs and higher volumes upstream



Quarter-on-quarter results



Key financials



| NOK million | Q3 2019 | Q3 2018 | Q2 2019 | Year 2018 |
|-------------------------------------|---------|---------|---------|-----------|
| Revenue | 37 517 | 39 766 | 39 176 | 159 377 |
| Underlying EBIT | 1 366 | 2 676 | 875 | 9 069 |
| Items excluded from underlying EBIT | 1 144 | 620 | 219 | 547 |
| Reported EBIT | 222 | 2 057 | 656 | 8 522 |
| | | | | |
| Financial income (expense) | (1 628) | (423) | (664) | (2 060) |
| Income (loss) before tax | (1 407) | 1 634 | (8) | 6 462 |
| Income taxes | 16 | (710) | (183) | (2 139) |
| Net income (loss) | (1 390) | 925 | (190) | 4 323 |
| Underlying net income (loss) | 606 | 1 696 | 281 | 5 819 |
| | | | | |
| Reported EPS, NOK | (0.62) | 0.37 | (0.04) | 2.08 |
| Underlying EPS, NOK | 0.33 | 0.74 | 0.19 | 2.75 |

Items excluded from Underlying EBIT



Excluded a loss of 1 144 MNOK from Underlying EBIT

| NOK million | Q3 2019 | Q3 2018 | Q2 2019 | Year 2018 |
|---|---------|---------|---------|-----------|
| Underlying EBIT | 1 366 | 2 676 | 875 | 9 069 |
| Unrealized derivative effects on LME related contracts | 120 | (436) | (11) | (39) |
| Unrealized derivative effects on power and raw material contracts | 46 | 183 | 72 | 260 |
| Metal effect, Rolled Products | (123) | 153 | (3) | 73 |
| Significant rationalization charges and closure costs | (1 206) | - | (200) | (79) |
| Impairment charges | (95) | - | (28) | - |
| Alunorte agreements – provisions | (30) | (519) | (14) | (519) |
| Transaction related effects | - | - | (35) | - |
| Other effects | 82 | - | - | (203) |
| Pension | 62 | - | - | (40) |
| Reported EBIT | 222 | 2 057 | 656 | 8 522 |

Bauxite & Alumina

Results down on lower realized alumina prices

| Key figures | Q3 2019 | Q3 2018 | Q2 2019 |
|---------------------------------------|---------|---------|---------|
| Alumina production, kmt | 1 320 | 821 | 932 |
| Total alumina sales, kmt | 2 124 | 1 711 | 1 668 |
| Realized alumina price, USD/mt | 310 | 460 | 365 |
| Implied alumina cost, USD/mt1) | 253 | 376 | 296 |
| Bauxite production, kmt | 2 152 | 1 286 | 1 624 |
| Underlying EBITDA, NOK million | 1 071 | 1 193 | 1 004 |
| Underlying EBIT, NOK million | 481 | 685 | 415 |
| Underlying RoaCE, % LTM ²⁾ | 3.9% | 9.5% | 4.5% |

Underlying EBIT

NOK million





Results Q3 19 vs Q3 18

- Lower realized alumina price
- Higher alumina and bauxite production reflecting ongoing ramp-up
- Lower costs per tonne on scale effects and lower raw material prices

Outlook Q4 19

• Continued ramp-up at Alunorte and Paragominas

¹⁾ Realized alumina price minus underlying EBITDA for B&A, per mt alumina sales
2) URoaCE calculated as underlying EBIT last 4 quarters less 25% tax / average capital employed last 4 quarters

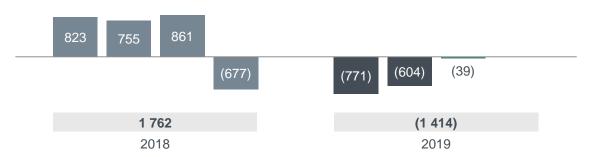
Primary Metal

Results down on lower realized metal prices

| Key figures | Q3 2019 | Q3 2018 | Q2 2019 |
|--|---------|---------|---------|
| Primary aluminium production, kmt | 522 | 497 | 486 |
| Total sales, kmt | 537 | 516 | 527 |
| Realized LME price, USD/mt | 1 784 | 2 194 | 1 858 |
| Realized LME price, NOK/mt | 15 732 | 17 905 | 15 959 |
| Realized premium, USD/mt | 305 | 367 | 326 |
| Implied all-in primary cost, USD/mt 1) | 1 900 | 2 150 | 2 100 |
| Underlying EBITDA, NOK million | 550 | 1 424 | (27) |
| Underlying EBIT, NOK million | (39) | 861 | (604) |
| Underlying RoaCE, % LTM ²⁾ | (4.5)% | 9.9% | (2.5)% |

Underlying EBIT

NOK million



Realized all-in aluminium price minus underlying EBITDA margin, including Qatalum, per mt aluminium sold. Including Qatalum volumes.



Results Q3 19 vs Q3 18

- Lower realized all-in metal price
- · Lower earnings on excess power sales in Brazil
- Lower raw material and fixed costs
- Positive currency effects

- ~ 55% of primary production for Q4 priced at USD ~1 765 per mt²⁾
- ~ 60% of premiums affecting Q4 booked at USD ~325 per mt ²⁾
 - Q4 realized premium expected in the range of USD 250-300 per mt
- Raw material costs trending downwards
- Higher production on Albras ramp-up

²⁾ URoaCE calculated as underlying EBIT last 4 quarters less 25% tax / average capital employed last 4 quarters

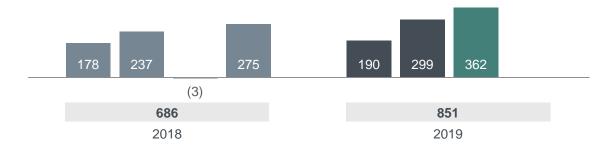
Metal Markets

Results up on stronger performance from remelters and commercial activities

| Key figures | Q3 2019 | Q3 2018 | Q2 2019 |
|--|---------|---------|---------|
| Remelt production, kmt | 125 | 126 | 139 |
| Metal products sales, kmt 1) | 662 | 685 | 707 |
| Underlying EBITDA, NOK million | 395 | 22 | 328 |
| Underlying EBIT excl currency and inventory valuation effects, NOK million | 338 | 78 | 352 |
| Underlying EBIT, NOK million | 362 | (3) | 299 |
| Underlying RoaCE, % LTM ²⁾ | 28.8% | 20.2% | 19.7% |

Underlying EBIT

NOK million





²⁾ URoaCE calculated as underlying EBIT last 4 quarters less 25% tax / average capital employed last 4 quarters



Results Q3 19 vs Q3 18

- Improved results from remelters on higher margins in the US
- Strong contribution from sourcing and trading activities
- Currency and inventory valuation effects positive NOK 24 million in Q3 19 vs NOK 81 million negative in Q3 18

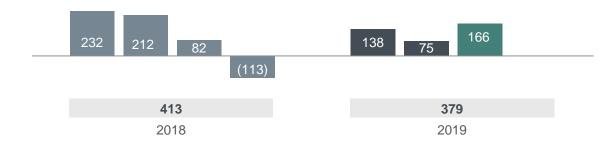
- Softening market conditions for remelters
- Volatile trading and currency effects

Rolled Products

Results up driven by Neuss smelter

| Key figures | Q3 2019 | Q3 2018 | Q2 2019 |
|--------------------------------|---------|---------|---------|
| External sales volumes, kmt | 245 | 235 | 242 |
| Underlying EBITDA, NOK million | 430 | 314 | 326 |
| Underlying EBIT, NOK million | 166 | 82 | 75 |
| Underlying RoaCE, % LTM* | 1.5% | 3.6% | 1.0% |

Underlying EBIT NOK million





Results Q3 19 vs Q3 18

- Stable results from the rolling mills
 - Higher volumes
 - Inflationary cost pressure
 - Positive currency effects
- Improved results from Neuss smelter on lower raw material costs

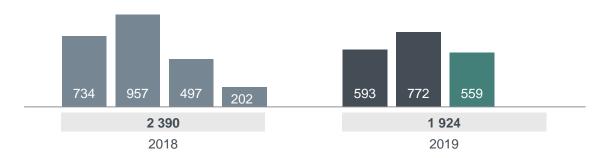
- Softening demand growth in some market segments
- Neuss results driven by all-in metal and raw material price development

Extruded Solutions

Results up on higher margins, despite lower volumes

| Key figures | Q3 2019 | Q3 2018 | Q2 2019 |
|--------------------------------|---------|---------|---------|
| External sales volumes, kmt | 316 | 343 | 348 |
| Underlying EBITDA, NOK million | 1 099 | 931 | 1 279 |
| Underlying EBIT, NOK million | 559 | 497 | 772 |
| Underlying RoaCE, % LTM* | 5.9% | 7.8% | 5.9% |

Underlying EBIT NOK million





Results Q3 19 vs Q3 18

- Improved margins
- Higher costs
- Lower volumes due to weaker markets

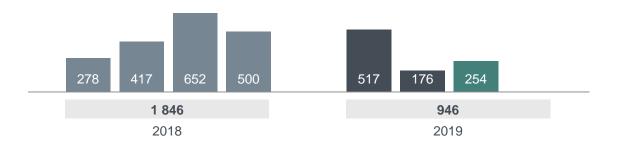
- · Continued volume decline due to softening market demand
- Softening market conditions for remelt operations

Energy

Results down on lower volumes and prices

| Key figures | Q3 2019 | Q3 2018 | Q2 2019 |
|--|---------|---------|---------|
| Power production, GWh | 2 273 | 2 888 | 1 993 |
| Net spot sales, GWh | 582 | 1 315 | 289 |
| Southwest Norway spot price (NO2), NOK/MWh | 328 | 475 | 360 |
| Underlying EBITDA, NOK million | 319 | 716 | 242 |
| Underlying EBIT, NOK million | 254 | 652 | 176 |
| Underlying RoaCE, % LTM* | 21,3% | 17,3% | 21,2% |

Underlying EBIT NOK million





Results Q3 19 vs Q3 18

- Significantly lower volumes
- Lower power prices

- Continued low production levels
- Volume and price uncertainty

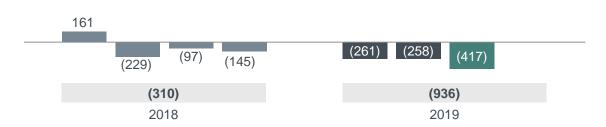


Other and Eliminations

| Underlying EBIT, NOK million | Q3 2019 | Q3 2018 | Q2 2019 |
|------------------------------|---------|---------|---------|
| Other | (160) | (190) | (253) |
| Eliminations | (257) | 93 | (5) |
| Other and Eliminations | (417) | (97) | (258) |

Underlying EBIT

NOK million

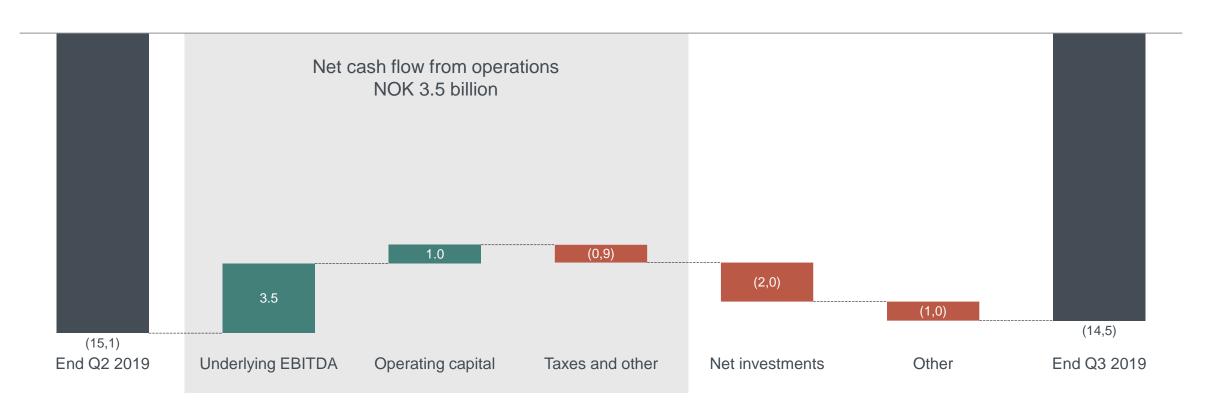


Net debt reduced in Q3 2019



Higher operating cash flow supported by further NOC release

NOK billion



Adjusted net debt up in Q3

Driven by increased net pension liability on lower discount rates

| NOK billion | Sep 30, 2019 | Jun 30, 2019 | Mar 31 2019 |
|--|-----------------|-----------------|----------------|
| Cash and cash equivalents | 10.6 | 10.6 | 6.1 |
| Short-term investments | 0.9 | 1.1 | 1.3 |
| Short-term debt | (6.1) | (8.2) | (8.9) |
| Long-term debt | (20.0) | (18.6) | (10.6) |
| Net cash/(debt) | (14.5) | (15.1) | (12.1) |
| Net pension liability at fair value, net of expected tax benefit | (10.3) | (8.8) | (8.4) |
| Other adjustments ¹⁾ | (4.8) | (4.0) | (3.9) |
| Adjusted net debt ex. EAI | (29.6) | (27.9) | (24.4) |
| Net debt in EAI | (5.4) | (5.4) | (5.7) |
| Adjusted net debt incl. EAI | (35.0) | (33.3) | (30.1) |



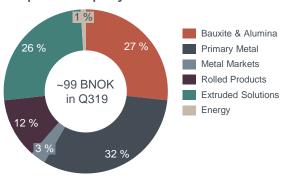
^{1) &}quot;Other adjustments" include, e.g., asset retirement obligations, cash and short-term investments in Industriforsikring.

Capital return dashboard for Hydro Q3 2019



Hydro targets URoaCE above 10% over the cycle

Capital employed1)



URoaCE

2.4% LTM Q3 2019³⁾

10% target over the cycle

FFO/aND

24% LTM Q3 2019⁴⁾

>40% target over the cycle

Free cash flow

0.7 BNOK YTD Q3 2019⁵⁾

Improvement program

On track for 2019 target

2023 target 6.4 + 0.9 BNOK²⁾ 2019 target 0.5 BNOK Net operating capital

2.3 BNOK release

Target 12 NOC days reduction (~ 4 BNOK) from end-2018 to end-2020

Capex

6.5 BNOK

2019 estimate ~10.5 BNOK



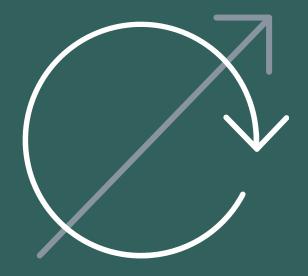
¹⁾ Graph excludes (7.8) BNOK in capital employed in Other & Elimination

^{2) 6.4} BNOK in improvement ambitions, 0.9 BNOK in Rolled Products restructuring. 2019 Rolled Products target ~ 0 BNOK

³⁾ URoaCE calculated as underlying EBIT last 4 quarters less 30% tax / average capital employed last 4 quarters. RoaCE tax is calculated on UEBIT excluding net Income from equity accounted investments.

⁴⁾ Funds from operation LTM/Average LTM adjusted net debt

⁵⁾ Free cash flow – operating cash flow less investing cash fllow excl. sales/purchases of short-term investments



Lifting profitability, driving sustainability

Priorities

- Safe and efficient operations
- Portfolio optimization, restructuring and compensating measures in challenging market
- Delivering on improvement programs, including returning Brazilian assets to full production and operational excellence
- Net operating capital release and strict capital discipline
- Differentiating through low-carbon position



Market

Macro trends and favorable properties drive aluminium demand



Hydro's strategic direction aims to realize full potential of aluminium's strong qualities and versatility



Aluminium

- ✓ Lightness and strength
- ✓ Durability and formability
- ✓ Corrosion resistance
- Conductivity
- Recyclability
- X Energy-intensity



Steel

- Strength and durability
- Recyclability
- ✓ Price
- × Weight
- **X** Corrosion
- X Energy-intensity



Copper

- Conductivity
- ✓ Corrosion resistance
- Recyclability
- X Price
- X Weight
- X Energy-intensity



Composites

- ✓ Lightness
- ✓ Strength
- X Price
- X Recyclability
- X Climate footprint
- X Energy-intensity



PVC

- ✓ Lightness and formability
- ✓ Corrosion resistance
- ✓ Price
- X Climate footprint
- X Recyclability
- **X** Durability

For illustrative purposes only

Transport & construction key semis demand segments



Global semis demand 2018: ~91 million tonnes

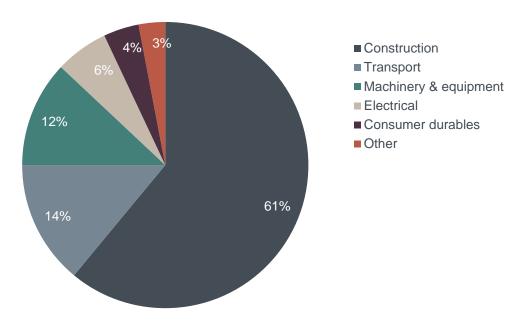
Per segment Per product form Per region 6% 14% 11% 27% 30% 6% 48% 24% 16% 11% 8% 25% 18% 7% 34% Electrical Wire & Cable Transport Rolled products China Central & South America Consumer durables Extrusions Forgings Construction Asia ex. China Africa Machinery & Equipment Castings Powder & paste, other Packaging Europe Australasia Foil stock Other North America

Source: CRU, Hydro Analysis

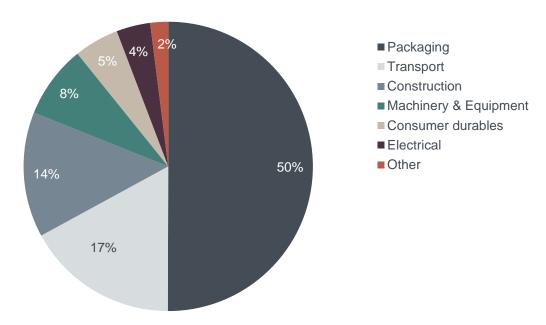
Segment composition in extruded and rolled products



Global segment composition, extrusions (2018)



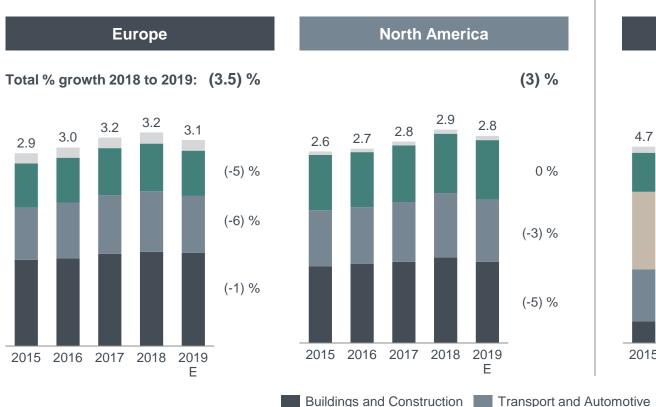
Global segment composition, rolled products (2018)



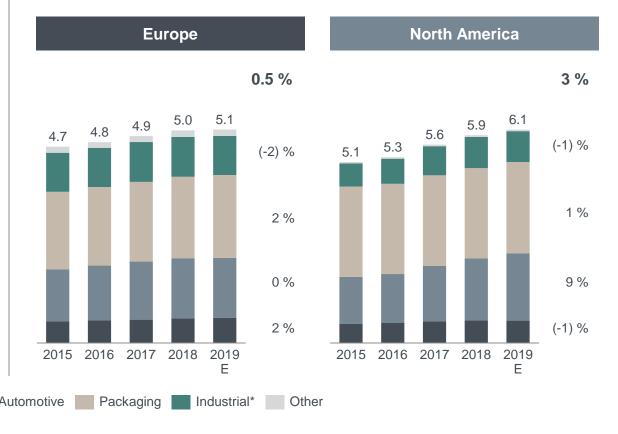
Negative extrusions demand in Europe and North America, rolled products demand supported by packaging & transport







Rolled products – estimated market size 2015-2019 (million tons)



Source: CRU, Hydro analysis

* Industrial includes consumer durables, electrical and machinery
Europe excluding Russia/Turkey
% growth from 2018 to 2019

Strong growth drivers across segments providing solid demand outlook



Solid demand growth across main segments

Transport



Buildings and construction



Semis demand growth in segment, CAGR 2018-23

Packaging



Electrical, consumer durables & industrial



Global demand increasingly supplied by recycled material



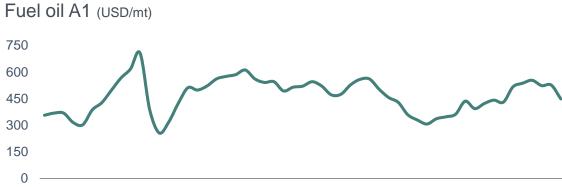


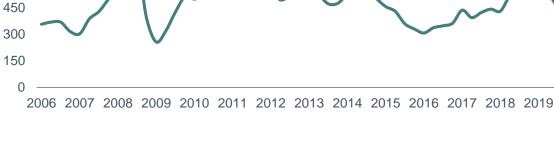


Demand growth, CAGR 2018-23

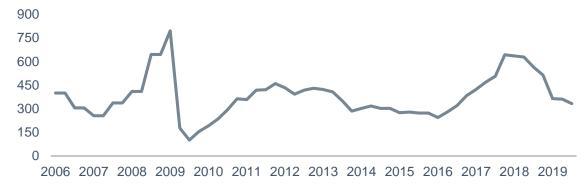
Commodity prices drive industry costs



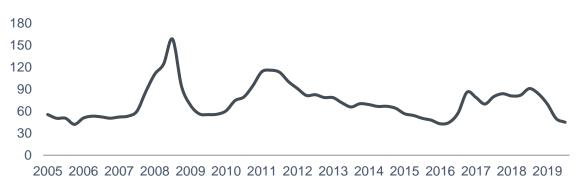




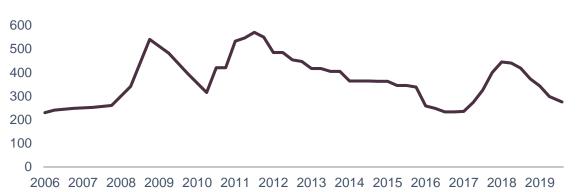




Steam coal (USD/mt)



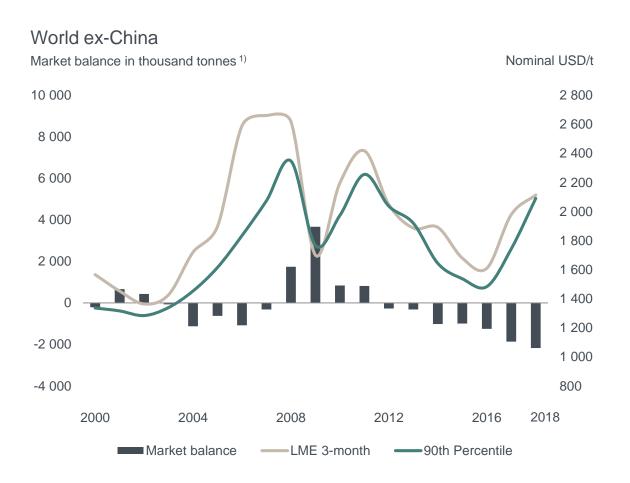
Petroleum coke FOB USG (USD/mt)

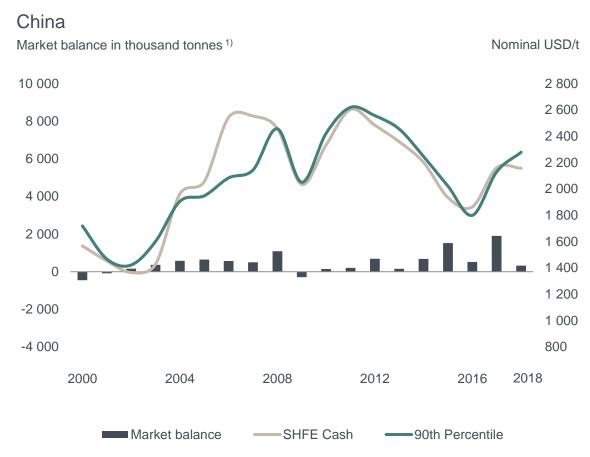


Historical strong correlation between LME and 90th percentile smelters



Primary metal market

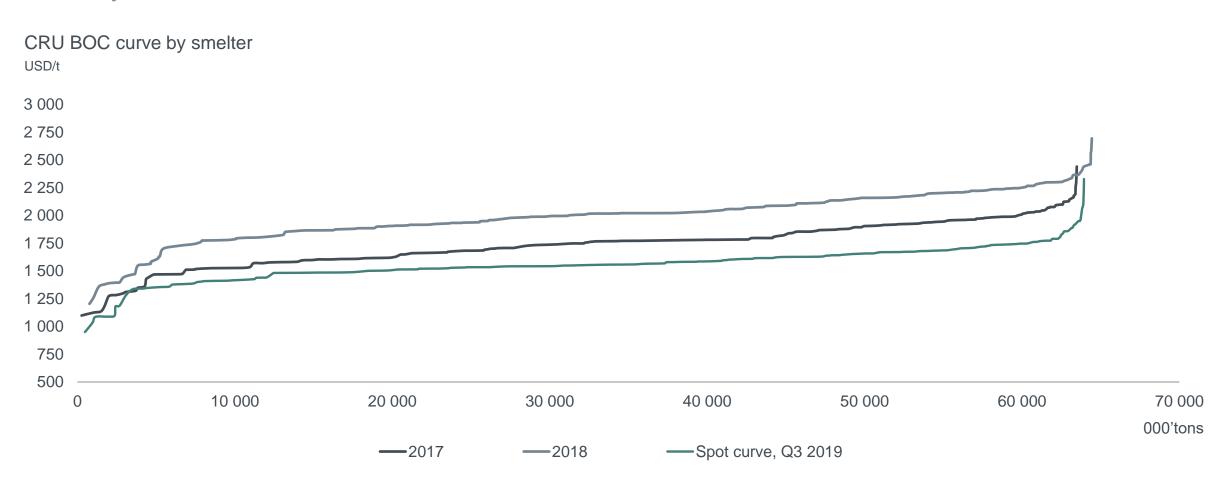




Global cost curve lower in 2019 as raw materials cost normalize



Primary metal market



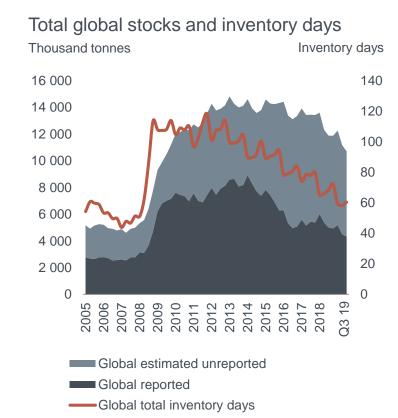
Source: Republished under license from CRU International Ltd

Total global inventory days trending downwards



Primary metal market





- Reported stocks decreasing in Q3-19
 - Reported stocks ex. China flat, drop in reported stocks China on the back of production disruptions
- LME stocks at low levels compared to the last years, down in Q3-19
- High uncertainty regarding absolute level of unreported volumes

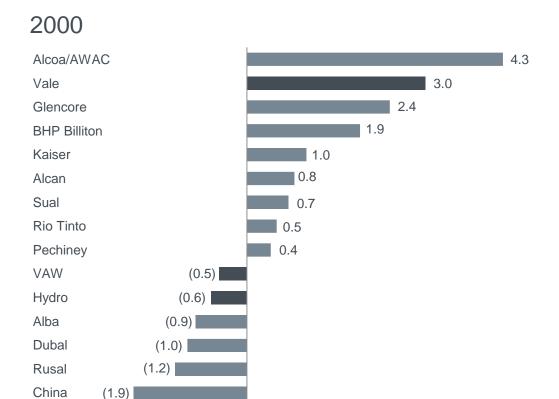
Source: CRU, Hydro Analysis

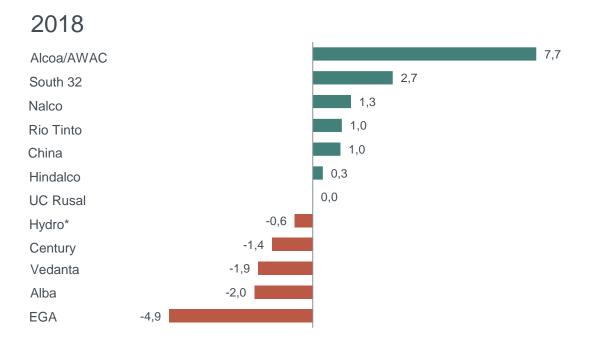
Alumina market consolidating, becoming more integrated



EGA and Vedanta planning capacity additions

Estimated net equity alumina position, in million tonnes





Source: CRU, Hydro

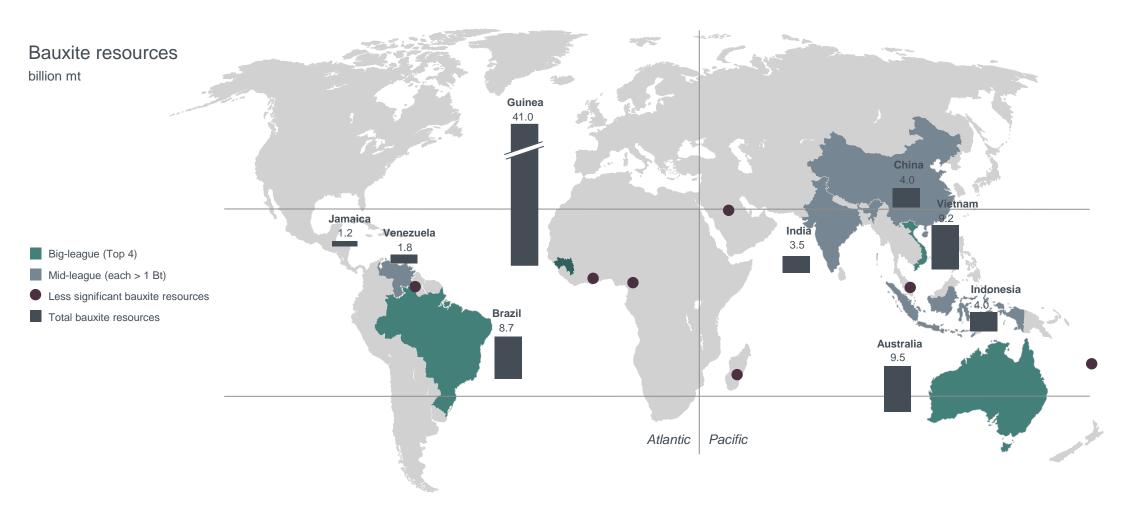
^{*}Hydro's alumina position was affected by the 50% production embargo at Alunorte from March 2018 to May 2019. Prior to the curtailment Hydro had a long alumina position of 1.7 million tonnes.

Large and concentrated bauxite resources



48

Guinea stands out as a long-term source



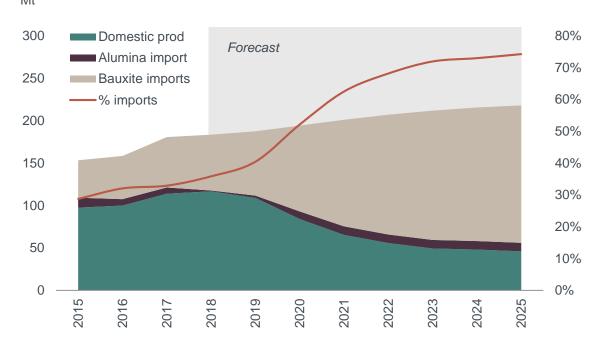
Source: Hydro analysis, CM Group

China increasingly reliant on bauxite imports



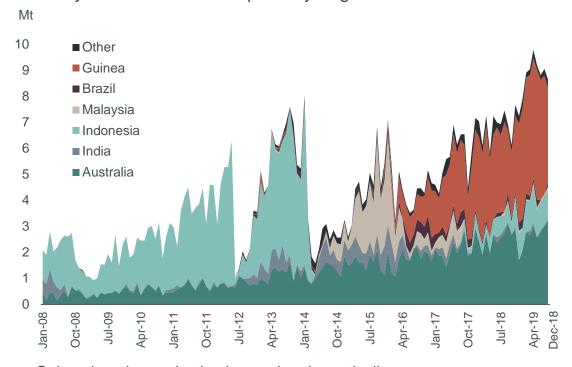
Guinea bauxite increasingly satisfying Chinese demand

Growing need for bauxite imports amid domestic depletion Mt



- Increasing Chinese bauxite prices triggering more bauxite imports
 - Chinese quality deteriorating
 - Unlicensed mines closures

Monthly Chinese bauxite imports by origin



- Guinea bauxite production increasing dramatically
 - Includes non-Chinese players
 - · Atlantic-sourced seaborne bauxite continues to grow, adding freight exposure

Source: CM,CRU, China customs, Hydro analysis



Business overview



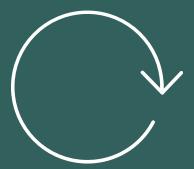
Hydro – Group





Profitability

ROACE > 10%



Sustainability

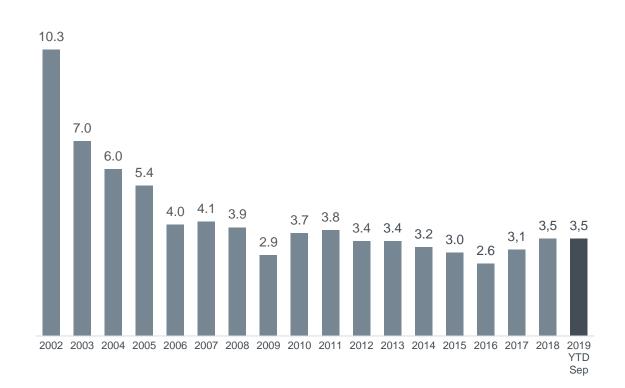
CO₂ - 30%

Safe and responsible operations is a top priority



Leadership in HSE, CSR and compliance as a license to operate

TRI Rate¹⁾





















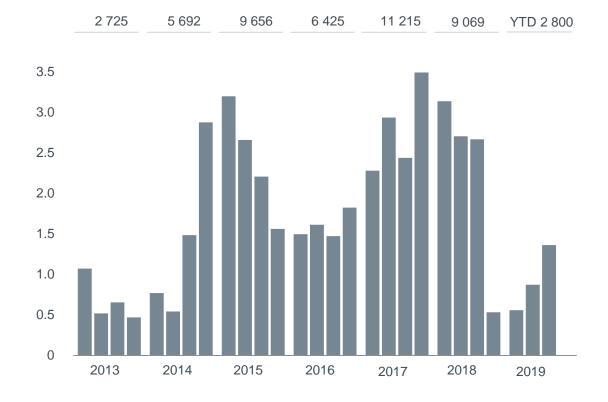






Hydro: a resource rich global aluminium company

Hydro underlying EBIT quarterly, NOK billion



Extruded Products classified as discontinued operations, and thereby excluded from revenues and underlying EBIT in 2013. Figures for 2013 are adjusted reflecting IFRS 11

1) As per Oct 16, 2019



The aluminium value chain



World class assets, high-end products and leading market positions

Raw materials processing and energy



Bauxite & Alumina

- · High quality Gibsite bauxite
- Bauxite capacity 10.8 million tonnes (100% Paragominas and 5% MRN)
- World's largest alumina refinery outside China with capacity of 6.3 million tonnes
- Long-term sourcing contracts for bauxite and alumina



Energy

- Long-term power supply secured
- Norway's second largest hydropower producer – ~10 TWh normal renewable energy production
- New business opportunities within wind and batteries/storage solutions

Primary aluminium production, marketing and recycling



Primary Metal

- 2.3 million tonnes primary capacity
- Karmøy Technology Pilot testing world's most climate and energy efficient aluminium production
- High LME and USD sensitivity
- · Improving cost position
- · Leading in technology



Metal Markets

- ~3.4 million tonnes (primary, remelt, recycling and cold metal)
- · Expertise in materials
- Flexible system
- Strengthening recycling position
- High share value-add products
- Strong marketing organization
- Risk management
- Strong market positions in Europe. Asia and the US

Aluminium in products



Rolled Products

- ~1 million tonnes Europe's largest producer
- Margin business
- Regional business
- · Close to customers
- Innovation and R&D



Extruded Solutions

- 1.4 million tonnes
- No. 1 position in North America and Europe
- Solid foothold in emerging markets

Strong global presence throughout the aluminium value chain



Rolled Products

Bauxite & Alumina

Extruded Solutions

Primary Metal

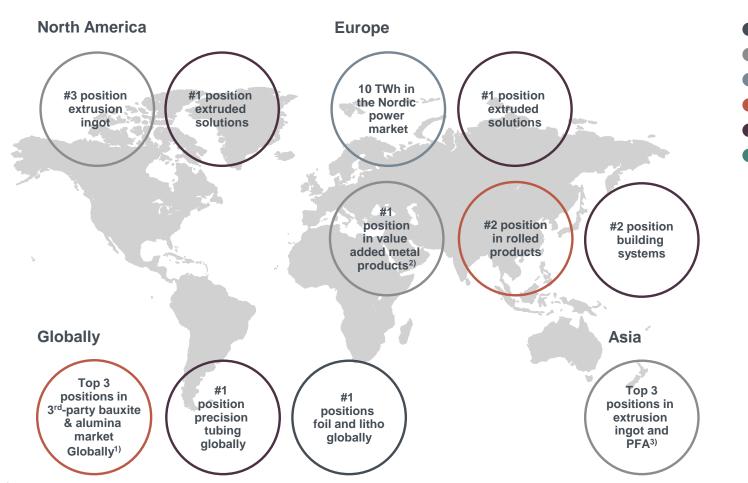
Energy

Recycling

Built on market understanding, customer closeness and competence

The complete aluminium company

- High-quality bauxite and alumina production in Brazil
- Primary production in Norway, Germany, Qatar, Slovakia, Brazil, Canada, Australia
- 10 TWh captive hydropower production
- European #2 in rolled products
- World leader in aluminium extruded profiles
- Remelting in the US, European recycling network
- Unparalleled technology and R&D organization



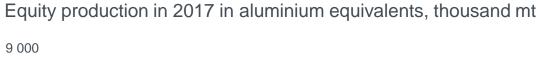
3) Primary Foundry Alloys

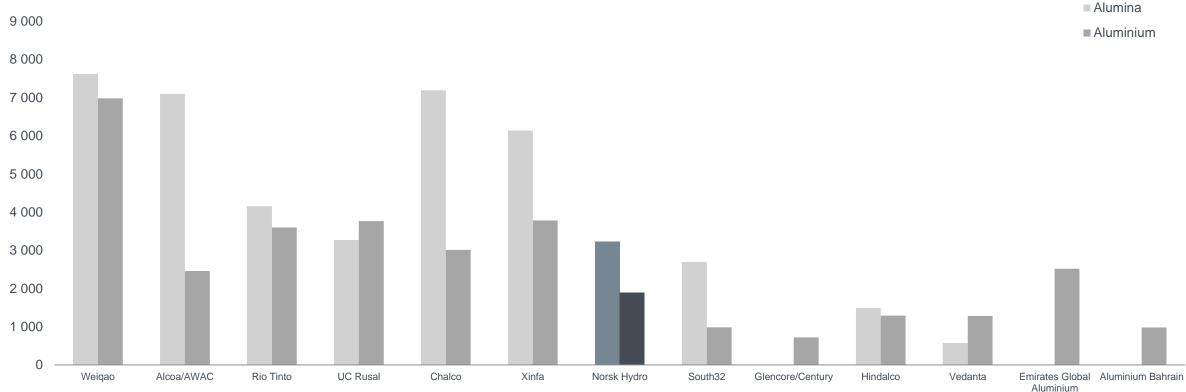
¹⁾ Outside China

²⁾ Extrusion ingot, sheet ingot, primary foundry alloys and wire rod

Hydro - the fourth largest aluminium producer outside China







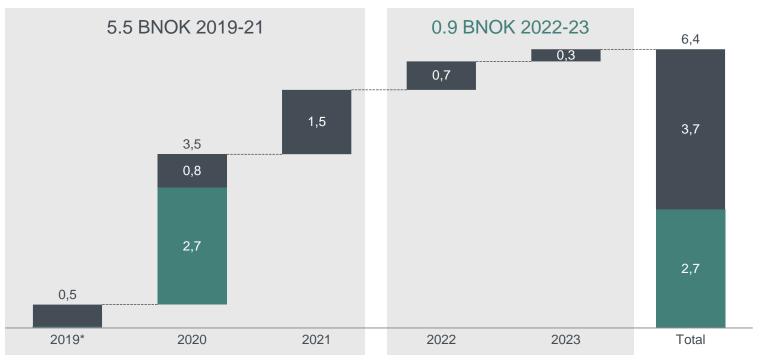
57 Source: CRU

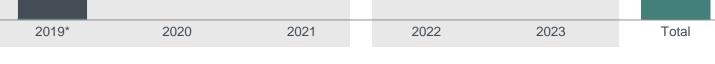
Launch of new and ambitious improvement program



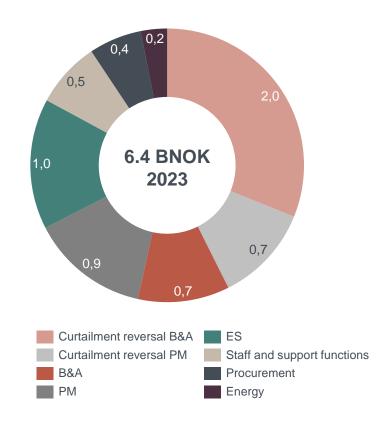
Targeting 3.7 BNOK in improvements on top of 2.7 BNOK in curtailment reversal

Improvements by year, in NOK billion





By business area



Reversal of curtailment

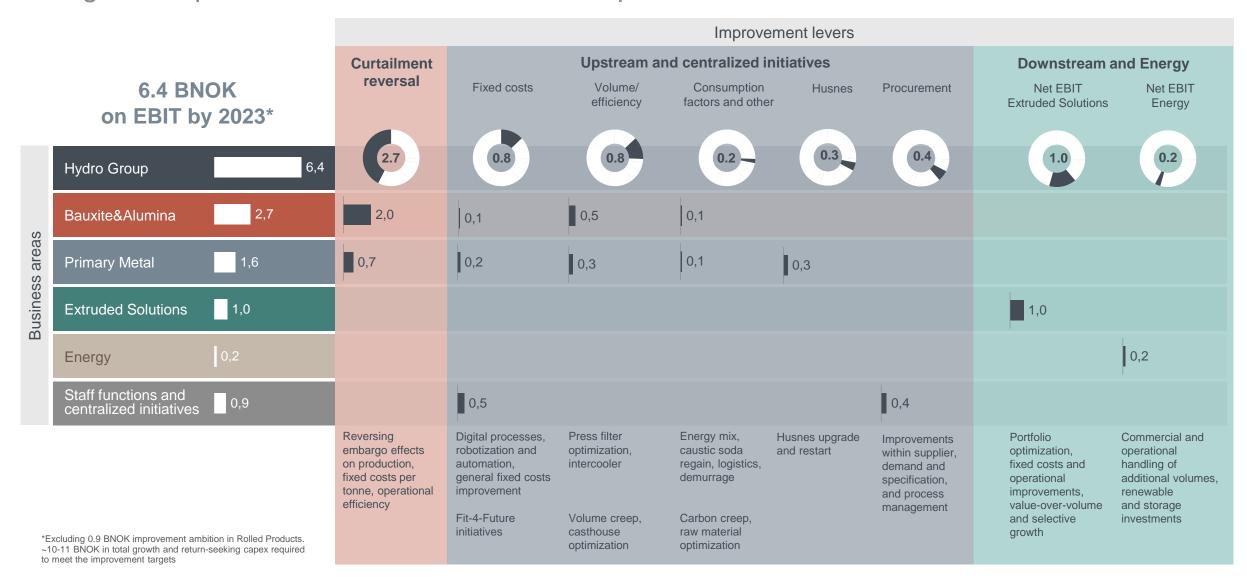
Improvements

^{*} Excludes negative effects of cyber attack for Extruded Solutions BNOK 6.4 improvement ambition excludes improvement target in Rolled Products of BNOK 0.9 ~10-11 BNOK in capex required to meet the improvement targets

Revitalizing the improvement drive



Targeted improvements to deliver ambitious potential



Total measures with significant cash flow contribution



Large share being delivered in 2019-2021

Improvement ambition Incl reversal of curtailments



6.4 BNOK2023 vs 2018

Rolled Products restructuring

- Cost and efficiency initiatives, targeting improvements of BNOK 0.9
 - BNOK 0.4 by 2021
- Restructuring cost BNOK 1.6¹
- BNOK 0.9 net operating capital to be released by end-2021
- Improvements to be realized while continuing strategic review

0.9 BNOK

2023 vs 2018

Net Operating Capital release

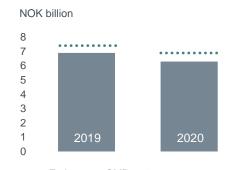
- Target to reach 52 NOC days by end-2020 vs 64 NOC days end-2018, corresponding to ~4 BNOK release
- Majority of release expected by end-2019
- Key initiatives to reduce NOC
 - Reducing inventory levels across all business areas – normalization after 2018 market uncertainty
 - Focus on performance improvements

~4 BNOK

End-2020 vs end-2018

Short-term sustaining capex reduction

 Combination of reduction and postponement – while evaluating measures to reduce sustaining capex to larger extent



••• Estimate at CMD 2018

~1 BNOK 2019-20²

¹⁾ Of which BNOK 1-1.2 will taken in provision in Q3 2019

Differentiated capital allocation

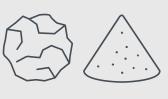


Different strategic modes for the business areas

Safe, compliant and efficient operations - The Hydro Way



Business area



Bauxite & Alumina



Primary / Metal Markets



Energy



Rolled Products



Extruded Solutions

Strategic mode

Sustain and improve*

Selective growth

Strategic review

Selective growth

Impact on capital allocation

Sustaining capex and cost efficiency (Creep and recycling with high profitability)

Selected growth investments

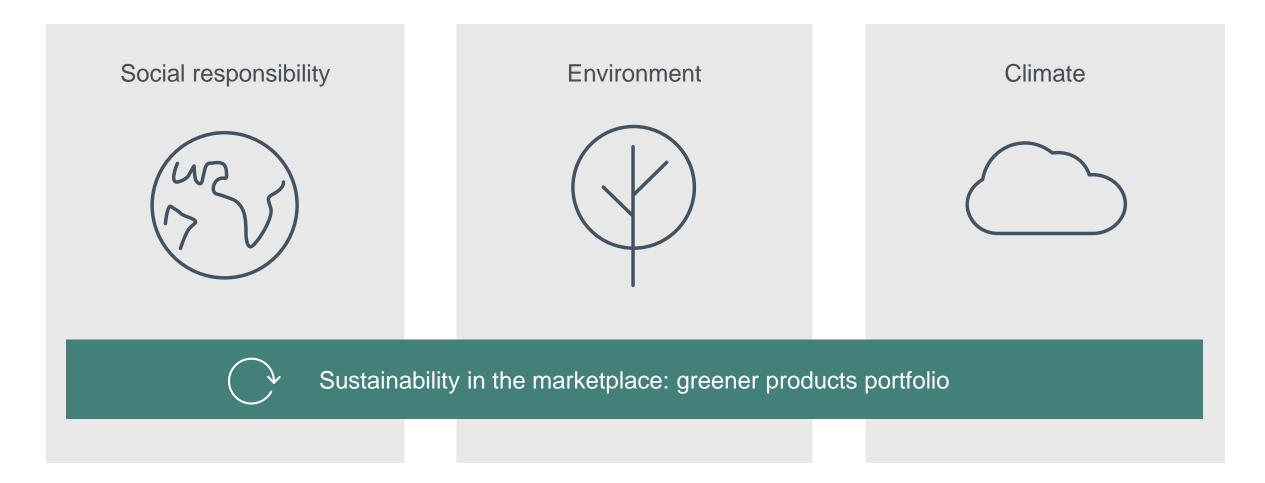
Sustaining CAPEX and cost efficiency

Selected growth investments both organic and M&A

'Creep and recycling with high profitability

Sustainability: basis for our future positioning





Building trust in local communities



Becoming a better neighbor in Brazil



Improving dialog through community meetings in Pára



Targeted activities where we have operations



Our global social responsibility ambition: Empowering 500,000 people with education and skills by end of 2030



Tackling the industry's key environmental challenges across the value chain

- Restoring biodiversity at our bauxite mine
- Exploring more sustainable tailings management practices
- Turning bauxite residue into a resource
- Recovering our historical bauxite residue storage areas
- Improving the recycling of our key waste streams
- Strengthening our resilience to water related risks
- Reducing our key emissions to air



Targets and ambitions

1 to 1 rehabilitation of available areas

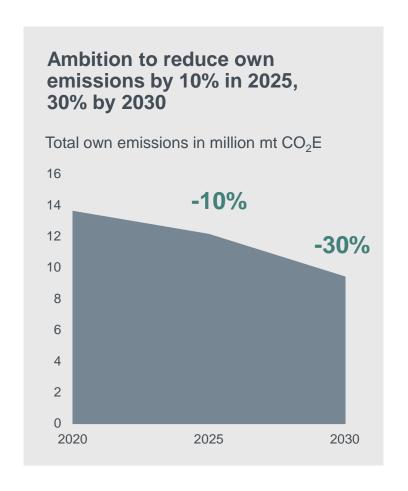
Utilise 10% of bauxite residue generated (from 2030)

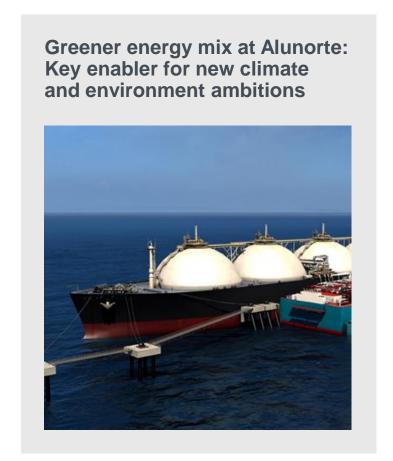
50% reduction in key non-GHG air emissions by 2030*

New climate strategy: Cut CO₂ emissions by 30% by 2030



Innovation and technology development key enablers toward CO₂-free processes





R&D for low or zero-carbon technology towards 2050

Exploring different paths

- Carbon Capture
- Biomass anodes
- Carbon-free process

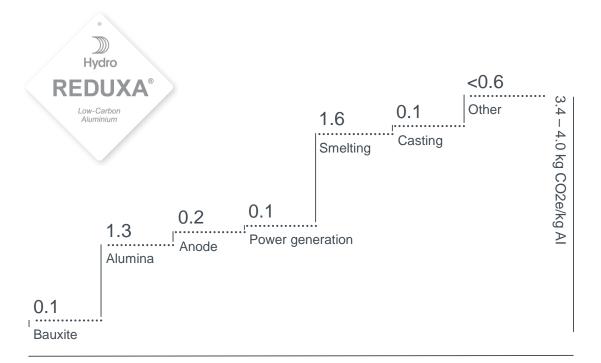
* Based on 2018 portfolio

Greener products: From REDUXA 4.0 to 2.0



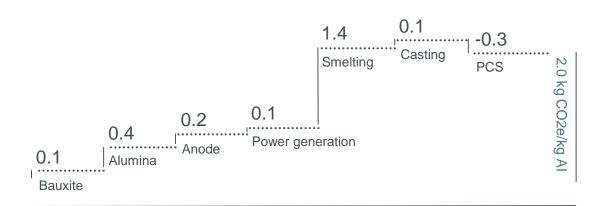
New energy mix in Alunorte important enabler to reach 2.0

From REDUXA 4.0



Typical production values

Towards REDUXA 2.0 by 2030



Potential production values

Growing in recycling – expanding CIRCAL portfolio

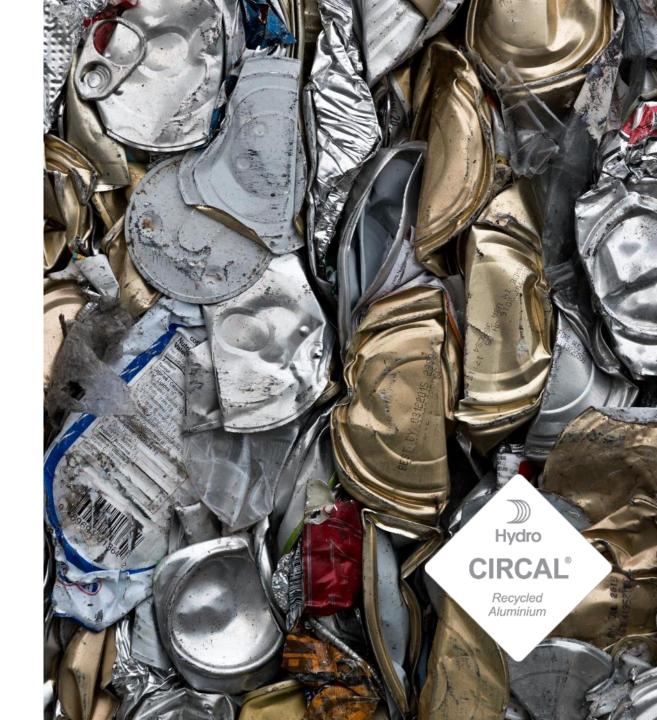
Competence, technology, integrated value chain

Recycled post-consumer scrap 2014-2018* In '000 mt

■ Rolled Products

■ Extruded Solutions

■ Primary Metal



^{*} Total post-consumer scrap – only a certain amount currently utilized in the CIRCAL product

Sustainability translated into profitability



Alunorte fuel switch project



Automotive growth



Karmøy technology pilot



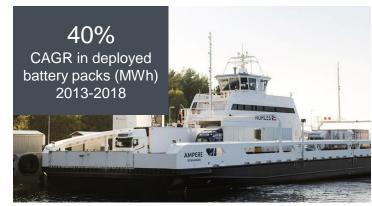
Greener brands



Recycling in Metal Markets



Battery solutions - Corvus



1) Based on EBITDA/t margins in the Rolled Products portfolio

Strategic objectives



Driving long-term shareholder value



- More stable earnings profile
- Less exposed to China
- More downstream customer base
- 10% return target over the cycle



- Sustainable value chain with lower footprint will reduce risk
- Differentiate through sustainable products, developing greener products for the future
- 30% reduction in CO₂ emissions

Strategic priorities • Portfolio management • Capital allocation



Bauxite & Alumina

Bauxite and alumina cluster in Para, Brazil



MRN bauxite mine



- · Top 3 bauxite mine in the world
- 5% ownership
- Volume off-take agreement for Vale's 40% stake
- Capacity 18 million tonnes

Paragominas bauxite mine



- 100% ownership
- · Nameplate capacity of 9.9 million tonnes
- 2017 production 11.4 million tonnes
- 2018 production 6.2 million tonnes*
- Long-life resource

Alunorte alumina refinery



- 92% ownership
- World's largest alumina refinery outside China
- Nameplate capacity of 6.3 million tonnes
- 2017 production 6.4 million tonnes
- 2018 production
 3.7 million tonnes*

- Bauxite supplied from Paragominas and MRN
- World-class conversion cost position
- Utilizing state-of-the-art press filter technology to process bauxite residue
- Enhancing plant robustness to prepare for extreme weather events

Bauxite licenses

Refining and mining competencies

External supply contracts

Sales contract portfolio

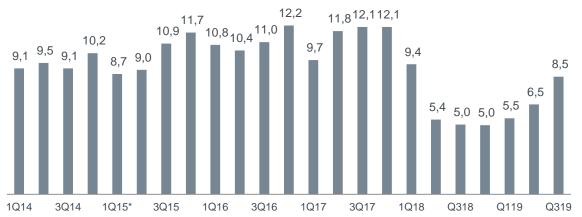
^{*} Alunorte and Paragominas produced at 50% capacity from March 2018 to May 2019 due to a 50% production embargo on the Alunorte refinery. The production embargo was lifted in May 2019.

Ramping-up production following lifting of the embargoes



Bauxite production in Paragominas

Annualized million tonnes



Paragominas bauxite mine

 Production affected by Alunorte embargo from March 2018 – May 2019, currently ramping-up

Alumina production at Alunorte

Annualized million tonnes



Alunorte alumina refinery

 Production affected by 50% Alunorte embargo from March 2018 – May 2019, currently ramping-up

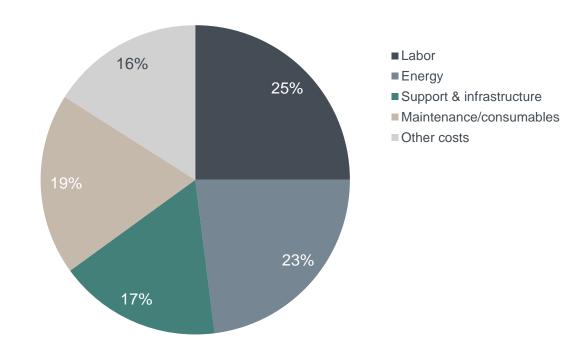
^{*} Extended maintenance period in March / April 2015 resulted in lower bauxite production

Bauxite operational mining costs in Paragominas



- Energy cost Power and fuel
- Large fixed cost base
- Labor cost
 - Influenced by Brazilian wage level
 - Productivity improvements
- Maintenance and consumables
 - Mainly influenced by Brazilian inflation

Paragominas bauxite mining costs 2017



Favorable integrated alumina cost position



- Implied alumina cost 2017 USD 242 per mt
 - Alunorte, Paragominas and external alumina sourcing for resale
- Implied alumina cost 2018 USD 358 per mt
 - Short alumina position, additional external sourcing to compensate for the 50% production embargo

Bauxite

- Internal bauxite from Paragominas at cost, sourced bauxite from MRN
- External bauxite sales

Energy

- First-quartile energy consumption 8 GJ/mt
- Energy mix of heavy fuel oil, coal and electric power

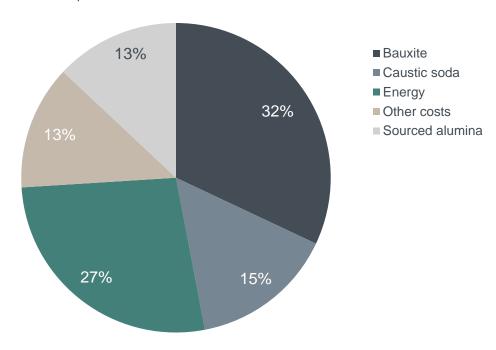
Caustic soda

- Competitive caustic soda consumption due to bauxite quality
- Competitive caustic soda sourcing contracts

Other costs

· Maintenance, labor and services

Implied alumina cost¹⁾ position 2017 USD 242 per mt



Strong commercial organization maximizing the value of B&A assets



External alumina sourcing

- 2.0-2.5 million mt of external alumina sourced annually
 - 4.0 million mt sourced in 2018 to compensate for the 50% production embargo at Alunorte
 - · Additional sourcing mainly on PAX
- Long term off-take agreement with Rio Tinto
 - ~900 000 mt annually from Yarwun refinery
- Short- and medium term contracts
 - · To balance and optimize position geographically
 - Various pricing mechanisms
 - · Older contracts linked to LME
 - · New medium to long term contracts mostly index
 - · Fixed USD per mt for spot contracts on index

Long positions in bauxite and alumina

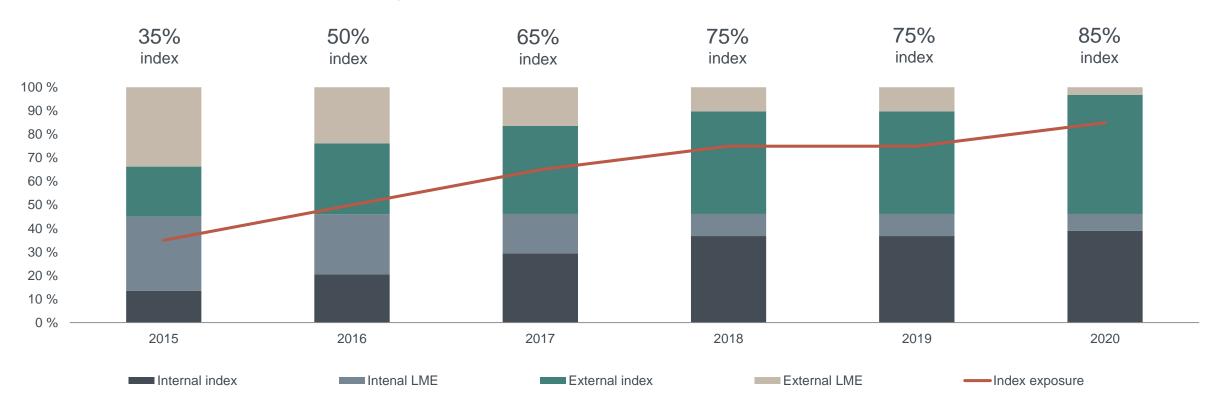
- Pricing should reflect bauxite and alumina market fundamentals
- Selling 2.5-3.5 million mt annually of MRN bauxite externally
 - Premium for high bauxite product quality
 - Majority sold to customers in the Atlantic basin
 - Mostly term contracts based on % of PAX and/or fixed USD/mt element
- Selling 3.0-4.0 million mt/yr of alumina externally in a "normal" year
 - In 2018 sold 3.0 million mt externally affected by the production embargo and force majeure clauses
 - Index pricing and short to medium-term contracts
 - New contracts: 100% sold on index, except Hydrate and short-term contracts, normal terms 2-7 years
 - Legacy LME-linked contracts: priced at ~14% of LME 3M

Shift of alumina sales to index-based pricing continues at full speed



Index pricing the new norm for the industry

Sales exposure to index and short term pricing¹⁾



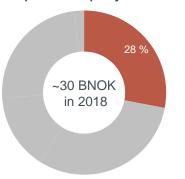
¹⁾ Rounded figures. Indicating volumes available for index pricing. Includes minority sales priced at % of LME with floor. Based on annual sourced volumes of around 2.5 mill t, assuming normal production at Alunorte.

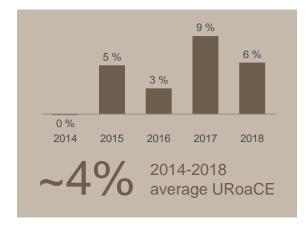
Capital return dashboard for Bauxite & Alumina



Returns below the cost of capital reflecting challenging markets, embargo and operational issues during the early years

Capital employed in B&A









2.7 BNOK

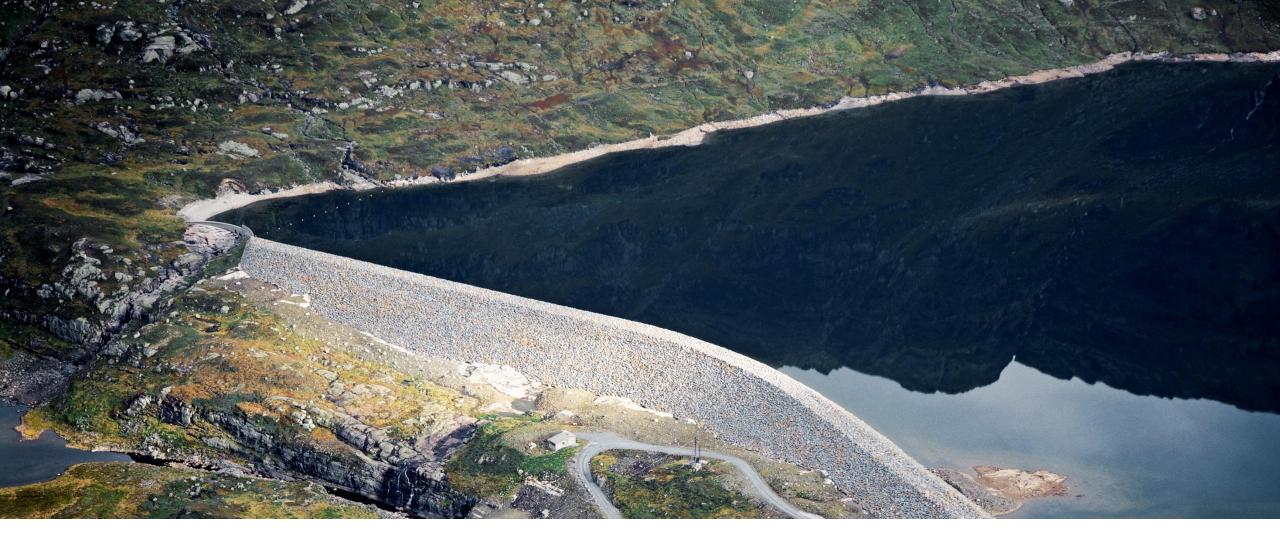
on EBIT by 2023 in improvement potential

Key initiatives to reduce NOC

- · Reduction in commercial stocks
- Reduction in caustic soda price and alumina inventories
- Reduction in Paragominas inventories





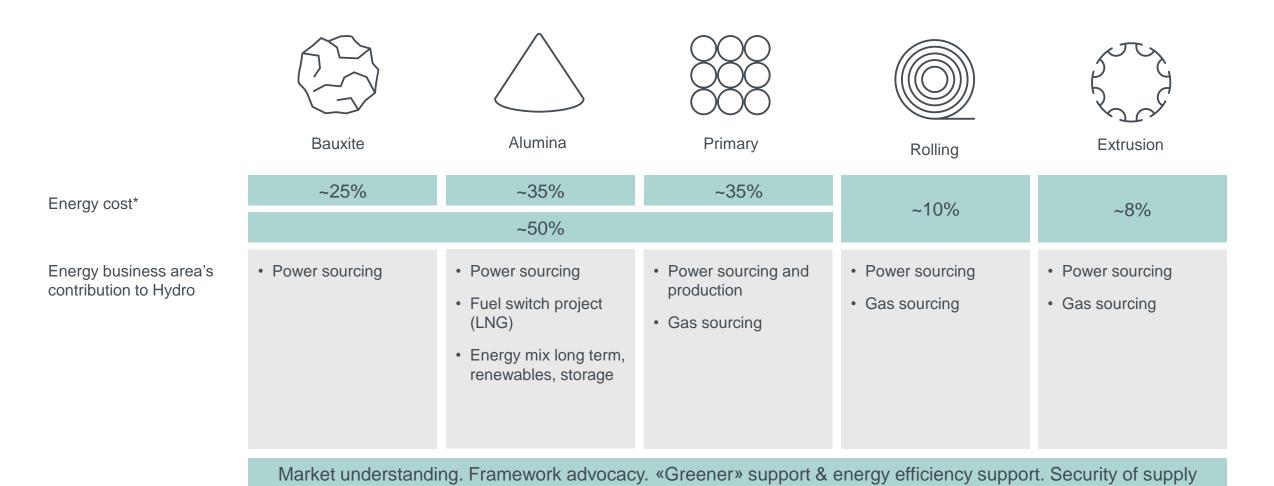


Energy

Energy is a key differentiator in the aluminium industry



Center of energy excellence in Hydro

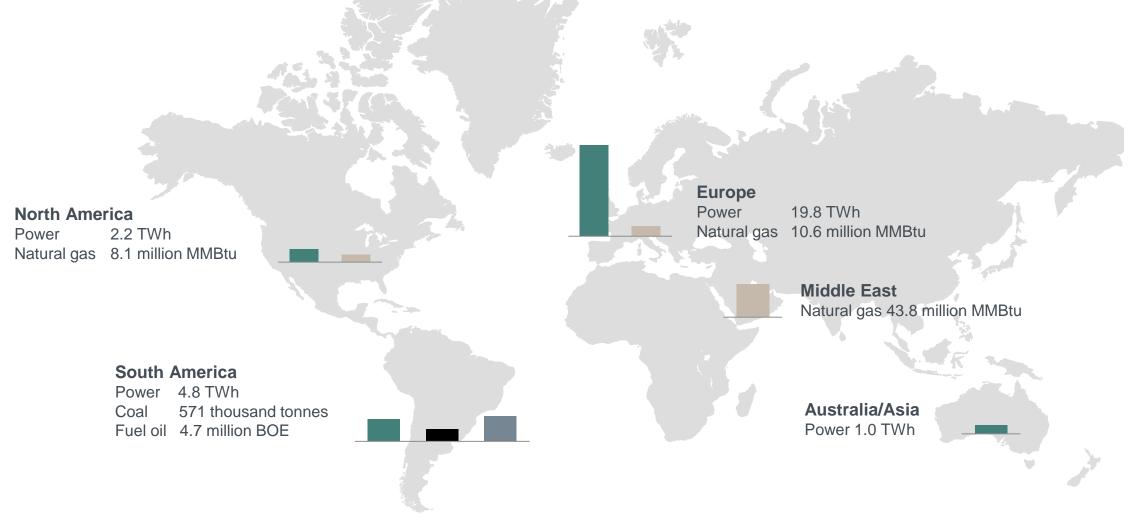


*Share of Business Operating Cash Cost

Hydro's global primary energy demand



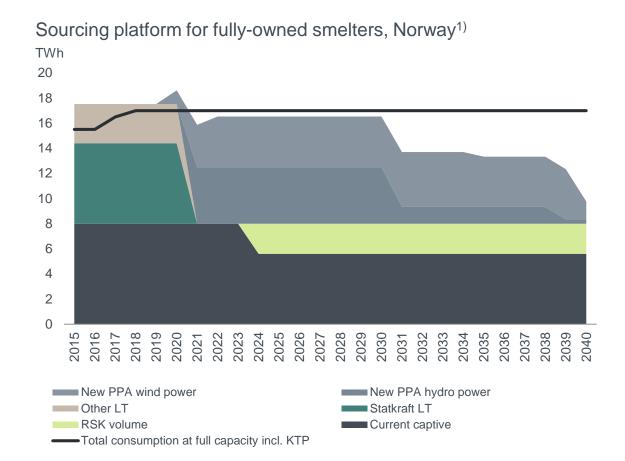
Spanning the entire aluminium value chain, all global regions and energy carriers

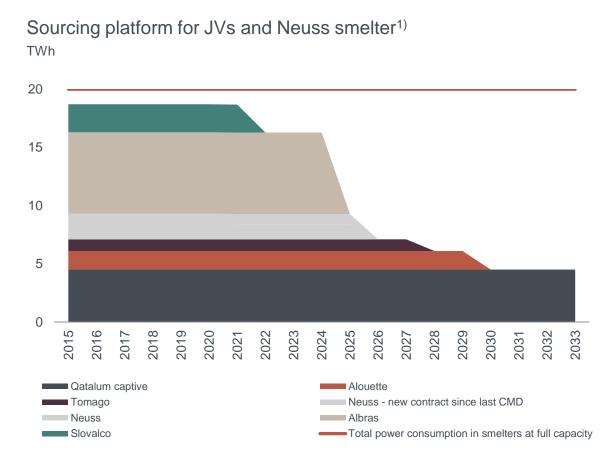


Securing long-term competitive power sourcing for smelters



Unique combination of hydro- and windpower





¹⁾ Net 8 TWh captive assumed available for smelters 2) Albras and Slovalco on 100% basis

10 TWh normal annual power production

Development in power assets last five years

- 2012: Holsbru and Vasstøl power plants in operation
- 2013: Vigeland acquisition completed, exemption from concession requirement granted
- 2016: Midtlæger and Mannsberg power plants in operation
- Turbine runner projects improving plant efficiency
- Focus: maintain cost control in operations and projects

New growth projects

· Mature new equity growth options

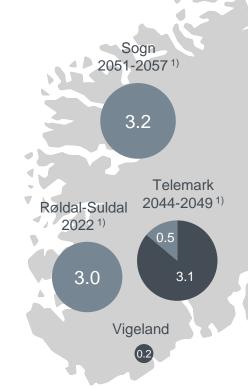
Framework conditions

- Reversion regime secures full value of energy assets:
 - Prevents further licensing to non-public entities, but allows for everlasting minority private ownership of up to 1/3
 - Law proposal from government on industrial ownership approved by Parliament in June 2016
 - · Broad optionality to maintain asset value within the reversion regime

Power production capacity (TWh), per region and reversion year

Normal annual production

10 TWh



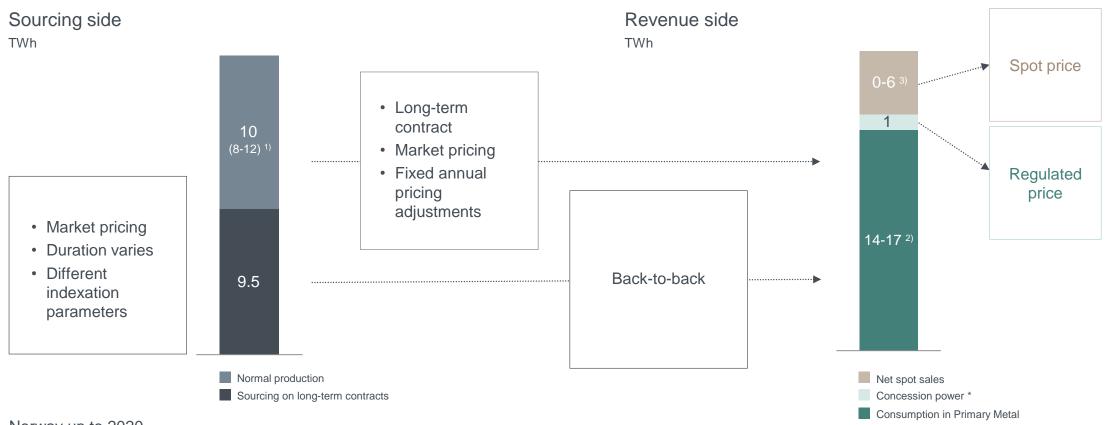
No reversionSubject to reversionBubble size = production in TWh

1) Reversion year

Market pricing principle applied to internal contracts



Based on external price references



Norway up to 2020

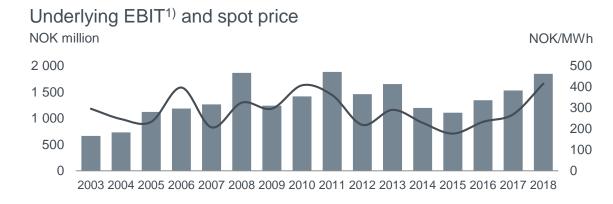
¹⁾ Depending on the precipitation level, hydropower production may vary from 8 TWh in a dry year to 12 TWh in a wet year

²⁾ Consumption in PM at current production levels and at full installed capacity (incl. Karmøy pilot plant)

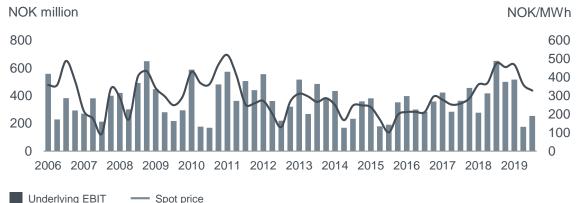
³⁾ Net spot sales vary depending on the power production level and internal consumption in PM
* Includes legacy external contracts

Energy earnings drivers









- Production and market prices strongly linked to hydrological conditions
- Fairly stable annual EBIT contribution
- Seasonal market variations in demand and supply
- Occasional delink between area prices
- Power portfolio optimized versus market
- Stable and competitive cost base:
 - Mainly fixed costs
 - Volume-related transmission costs
- Expiry of legacy supply contract entered in 2008 will have positive effect of ~NOK 400 million from 2021
- New 8 TWh internal contract for power sales to Primary Metal in Norway effective from 2021-30
 - Positive EBIT effect to Energy approximately NOK 300 million
 - Net power sourcing cost, internal and external, for Primary Metal largely unchanged

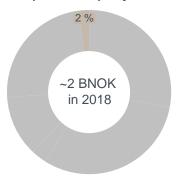
1) Underlying EBIT 2003–2006 based on USGAAP

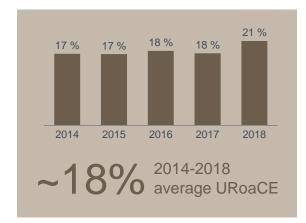
Capital return dashboard for Energy



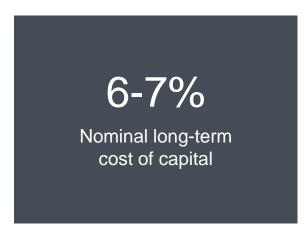
Returns significantly above the cost of capital reflecting the depreciated asset base

Capital employed in Energy









0.2 BNOK

on EBIT by 2023 in improvement potential



in EBIT upside due to the new contract portfolio from 2021





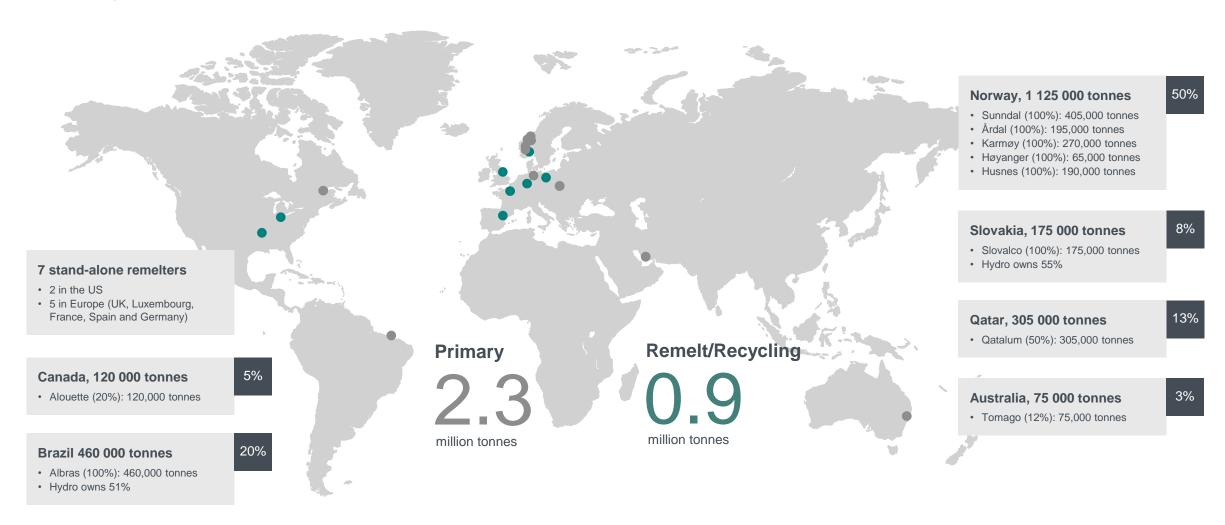


Primary Metal

World-wide primary aluminium production network



Primary Metal and Metal Markets



Unlocking new improvements through Industry 4.0 initiatives



40 ongoing projects



Robotics & Automation projects



Mobile Maintenance Worker



Trusted Data Layer Casthouse



Trusted Data Layer Carbon + Analytics workbench improvements



Soft Sensor incl. Trusted Data Layer



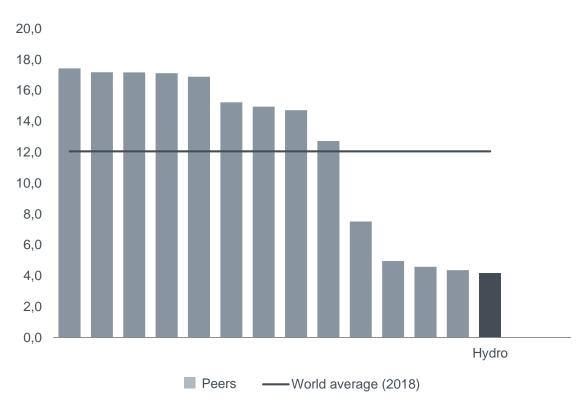
Bring Your Own Device

Digital Foundation including Cyber Security

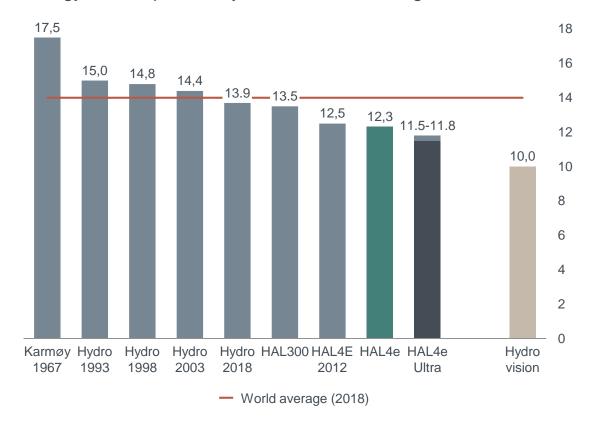
Low carbon footprint due to renewable energy base and industry lowest energy consumption







Energy consumption in Hydro smelters¹⁾, kwh/kg al

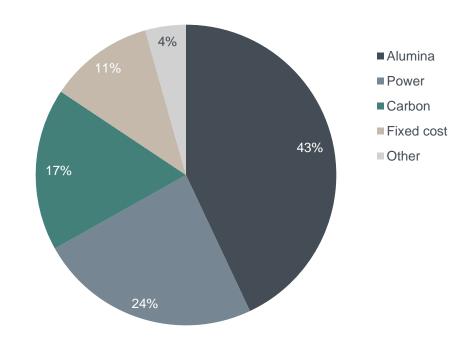


Competitive primary aluminium cash cost



- Primary aluminium cash cost 2018
 - All-in implied primary aluminium cash cost¹⁾ USD 2 175 per mt
 - LME implied primary aluminium cash cost²⁾ USD 1 825 per mt
- Alumina
 - Alumina prices for 2018 heavily affected by Alunorte curtailment
 - Alumina from both internal and external sources
 - Purchases based on alumina index ~80%4)
 - Purchased based on LME link ~20%
- Power
 - Long-term contracts
 - 2/3 of power need from renewable power
 - · Contracts with a mix of indexations; inflation, LME, coal, fixed
- Carbon
 - 2-3 year contracts for petroleum coke and pitch, quarterly pricing
- Fixed costs
 - · Maintenance, labor, services and other
- Other
 - · Other direct costs and relining

Liquid aluminium cash cost 2018³⁾



4) More alumina purchases on indexes due to Alunorte curtailment

90

¹⁾ Realized LME aluminium price minus underlying EBITDA margin, including Qatalum, per mt primary aluminium sold

²⁾ Realized LME aluminium price minus underlying EBITDA margin, including Qatalum, per mt primary aluminium produced

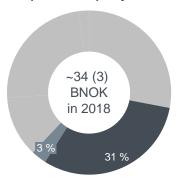
³⁾ Pie chart based on cost of producing liquid aluminium, not directly comparable to the LME or All-in implied primary aluminium cash cost

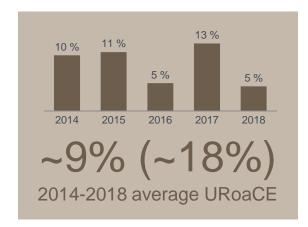
Capital return dashboard for Primary Metal & Metal Markets



Returns below the cost of capital mainly reflecting challenging markets and the Alunorte situation. Good returns in recycling

Capital employed in PM (MM)



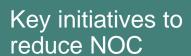






1.6 BNOK

on EBIT by 2023 in improvement potential



Reduction in alumina and ingot inventories (safety stocks)





^{*} Creep and recycling with high profitability

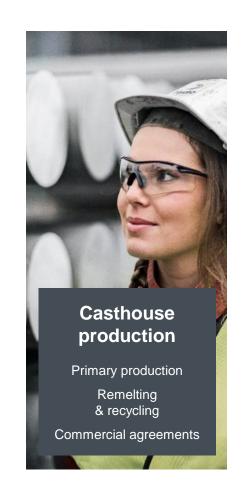


Metal Markets

Strong position in value-added casthouse products

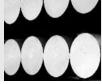


- Capitalizing on value-added casthouse products portfolio
- Extensive multi-sourcing system including fully- and part-owned primary casthouses and standalone remelters
- Flexible sourcing system enabling rapid and cost effective volume adjustments
- Value creation from margin management based on commercial expertise and risk management competence
- Strong market positions in Europe, US and Asia



Extrusion ingot

1.6 million mt



Leading global position

Unique primary and recycling capacity network

Foundry alloys

0.5 million mt



Leading global position

Strong capabilities in all automotive segments

Sheet ingot

0.3 million mt



Leading European position

Well positioned to capture automotive growth

Wire rod

0.1 million mt



Leading European position

Market attractively supported by copper substitution

Standard ingot

0.4 million mt



Leading global position

Global flow optimization through key positions

Pricing of value-added products



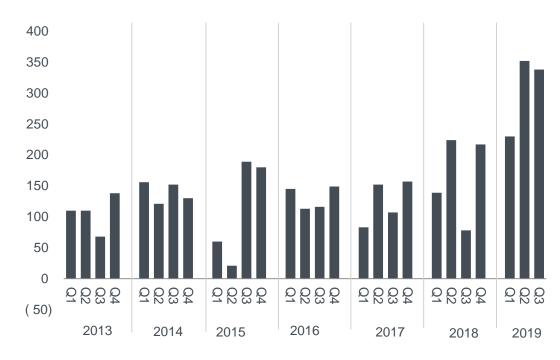
| | Smelter | Intermediate product | Casthouse | | |
|--------|-------------------------|--|--|--|--|
| | Aluminium | Standard ingot | Value added products Foundry alloy Sheet ingot Wire rod | | |
| SN | Traded on LME | US Midwest - 1020 (in cent per pound) | Extrusion Ingot – Priced above standard ingot Foundry Alloy – Priced above standard ingot Sheet ingot – Priced above standard ingot Wire rod - Priced above standard ingot | | |
| Europe | Traded on LME | Duty paid IW Rotterdam Duty unpaid IW Rotterdam | Extrusion ingot – Priced above LME Foundry Alloy – Priced partly above standard ingot and partly above LME Sheet ingot – Priced above standard ingot Wire rod - Priced partly above standard ingot and partly above LME | | |
| Asia | Traded on LME & SHFE | CIF Japan Premium (MJP)Singapore In WarehouseCIF South Korea | Extrusion ingot – Priced partly above standard ingot and partly above LME Foundry Alloy – Priced partly above standard ingot and partly above LME Sheet ingot – Priced partly above standard ingot and partly above LME | | |

Metal Markets earnings drivers



- Remelters
 - Revenue impact volume and product premiums above LME
 - Cost impact
 - Scrap and standard ingot premiums above LME
 - Raw material mix
 - Freight cost proximity to market
 - Energy consumption and prices
- Other main businesses
 - Physical and LME trading
 - Third-party products
- Results influenced by currency fluctuations and inventory valuation effects
- Underlying EBIT ex. currency and inventory valuation effects at around 500 MNOK per year

Underlying EBIT excluding currency effects and inventory valuation effect, NOK million¹⁾





Rolled Products

Rolled Products - strong European production base and global sales force



- ~1 million tonnes of flat rolled products per year
- Unique integrated aluminium cluster
 - Neuss
 - Alunorf
 - Grevenbroich
- Casthouse network and integrated recycling capacity
- Strong customer satisfaction on quality
- However, unsatisfactory returns over latest years – performance turnaround required



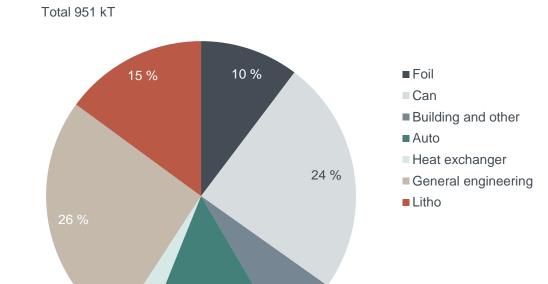




Major flat rolled products producer in Europe



- · World leader in high-end products foil and litho
 - Alunorf (JV 50%) world's largest rolling mill
 - Grevenbroich plant world's largest multi-product finishing mill
- High-grading product portfolio
 - · Margin management and cash generation
 - Portfolio adjustment towards higher margins
- Capitalize on automotive market growth
 - · Investment in new automotive body-in-white capacity
 - Ramp-up ongoing
- Strengthen recycling position
 - Investment in new Used Beverage Can (UBC) recycling line
 - Production started beginning of 2016, ramp-up ongoing
 - Targeting stable output at 40 000 mt run-rate by end 2019



External sales in tonnages 2018

3 %

15 %

Several attractive segments within rolling industry – Hydro targets to shift portfolio towards auto and can



| Cans | Automotive | General Engineering | Lithographic sheet | Packaging foil |
|---|---|--|--|---|
| | | | | |
| Aluminium can body stock & can ends for production of alum. beverage cans | Rolled aluminium for chassis, body and component applications | Solutions for buildings and for general engineering applications | Lithographic strip for offset printing plates used for printed media | Broad variety of products from aluminium foil to solid containers |
| 24% | 15% | 36% | 15% | 10% |
| High | High | Low to High | Medium | Low |
| High | Medium | Medium | Low | Low |
| 29% | 21% | 31% | 11% | 7% |

Exposure 2018

Recycling friendliness

Targeted

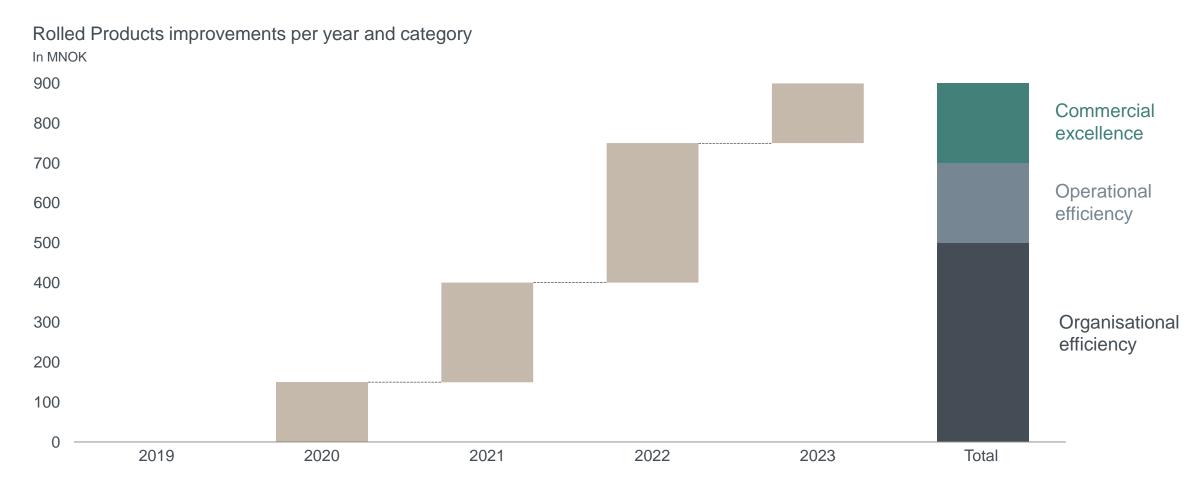
exposure 2023

Indicative segment attractiveness*

Restructuring and improvement initiatives in Rolled Products



Targeting BNOK 0.9 improvements 2023 vs 2018, more than 40% to be realised by 2021

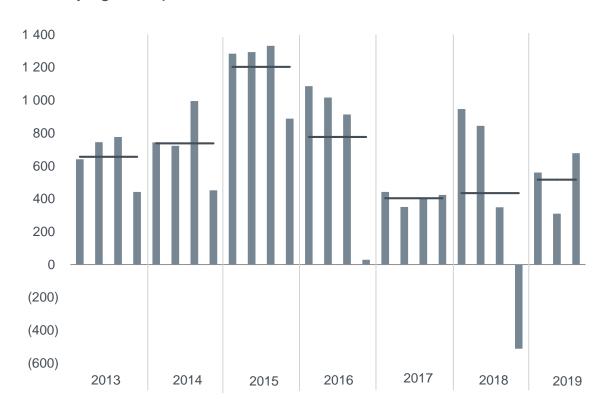


Neuss is not included in the improvement program

Rolled Products earnings drivers



Underlying EBIT per tonne, NOK



- Contract structure
 - Margin business based on conversion price
 - LME element passed on to customers
 - Range from spot contracts to multi-year contracts
- High share of fixed costs volume sensitive
- Annual seasonality driven by maintenance and customer activity
 - Q4 typically the weakest quarter of the year
- Preferred supplier market position in high-end products

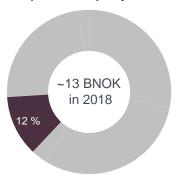
2013 are adjusted to reflect IFRS11

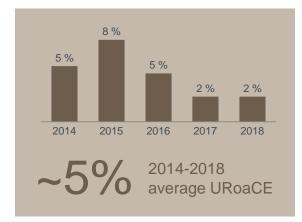
Capital return dashboard for Rolled Products



Returns below the cost of capital due to continuous margin pressure and operational challenges

Capital employed in RP



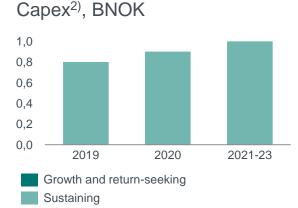






O.9 BNOK
on EBIT by 2023 in improvement potential







2) Excluding limited capital expenditures related to the manning reduction.

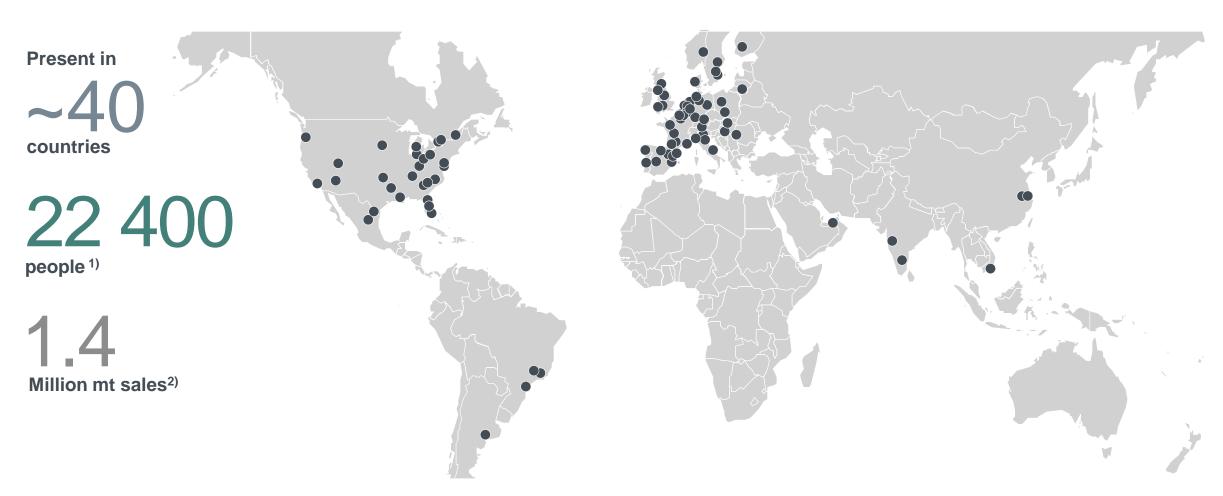
¹⁾ Relevant for the rolling business. CoC for the Neuss smelter in line with 10-11% for the upstream business



Extruded Solutions

Extruded Solutions – #1 in the global aluminium extrusion industry





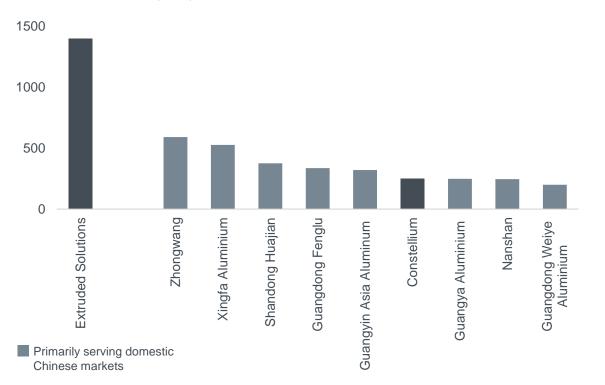
The global extrusion champion – worldwide reach, local presence



Clear leader in a fragmented industry where closeness to customers and markets are key success factors

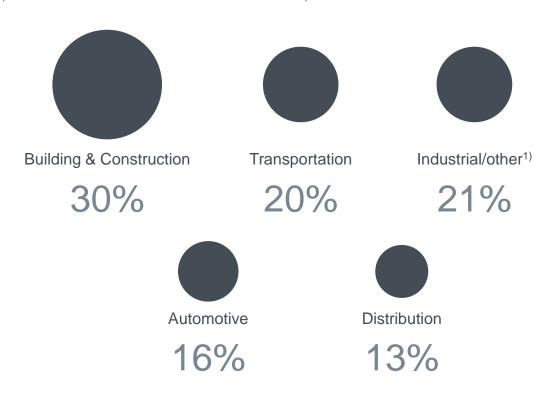
Unrivalled position as #1 extrusions provider globally

Extrusion sales volume (2018), in thousand mt



Customers in diversified end-markets

(Share of Extruded Solutions sales volumes in 2018)



Source: CRU

^{*} Including HVAC&R, Heating, ventilation, air conditioning and refrigeration

Organized in four business units to maximize synergies across units



22,700 highly competent people across the world, total turnover of BNOK 64

Extrusion Europe



- Market leader focusing on value-added products
- 20% market share
- 40 locations, 9,700 people

Revenue EBIT BNOK 24.9 BNOK 0.7

Extrusion North America



- Uniquely positioned as the only coast-to-coast supplier
- 24% market share
- 23 locations, 6,400 people

Revenue EBIT BNOK 25.0 BNOK 1.3

Precision Tubing



- Technology leader in selected market niches
- 35% market share globally
- 17 locations, 3,500 people

Revenue EBIT BNOK 7.2 BNOK 0.2

Building Systems



- Leading European player with multi-brand portfolio
- 20% market share in Europe
- Presence in 29 countries, 2,900 people

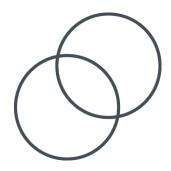
Revenue EBIT BNOK 0.4

All numbers 2018 106

Successful value-over-volume strategy



Targeting the high-tech, high-competence segments of extrusion



Simplify and collaborate

Simplification drive to increase focus, reduce complexity and cost



Deliver value-added to our customers at a reasonable cost

Higher share of value-added solutions to customers through commercial excellence and innovation

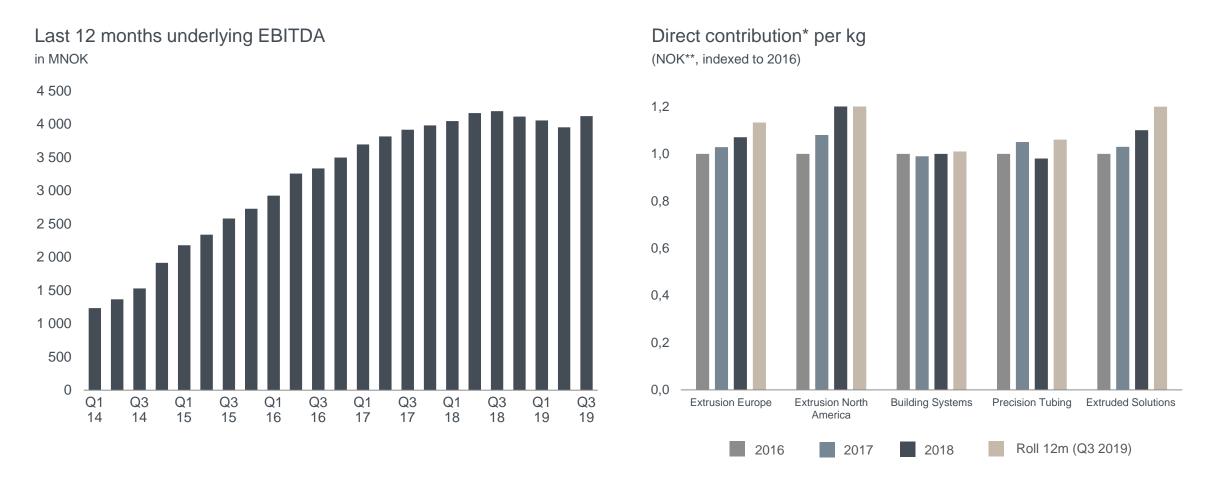


Grow to lift margins and profitability

Lifting margins and creating more customer value through selective growth

Proven track-record of value creation with further potential





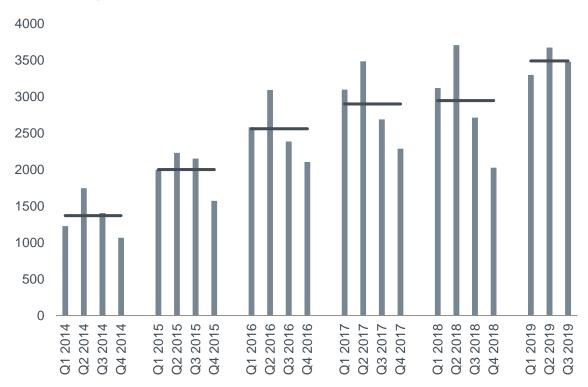
^{*}Direct Contribution: calculated as operating revenues less cost of material, including freight costs out, less process variable costs and direct labor costs

** Translated to NOK based on 2016 currency rates

Extruded Solutions earnings drivers



Underlying EBITDA per tonne¹⁾, NOK



- Extruded Solutions aims to deliver minimum 10% average annual underlying EBIT growth over the next three years²⁾
- Contract structure
 - · Margin business based on conversion price
 - · LME element passed on to customers
 - Mostly short-term contract, typically ranging from spot to 12 months, few longer term contracts with floating price or hedging in place
- High share of variable costs high level of flexibility
- Annual seasonality driven by maintenance and customer activity
 - Stronger Q1 and Q2, weaker Q3 and Q4
- Strong focus on increasing value add to customers
- Preferred supplier market position in high-end products

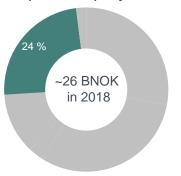
Pro-forma figures

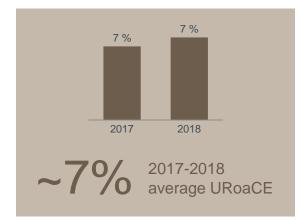
Capital return dashboard for Extruded Solutions



Returns in line with the cost of capital reflecting leading market positions and value-over-volume strategy

Capital employed in ES









1.0 BNOK

on EBIT by 2023 in improvement potential



• Reduction in safety billett stocks







Additional information

Driving long-term shareholder value

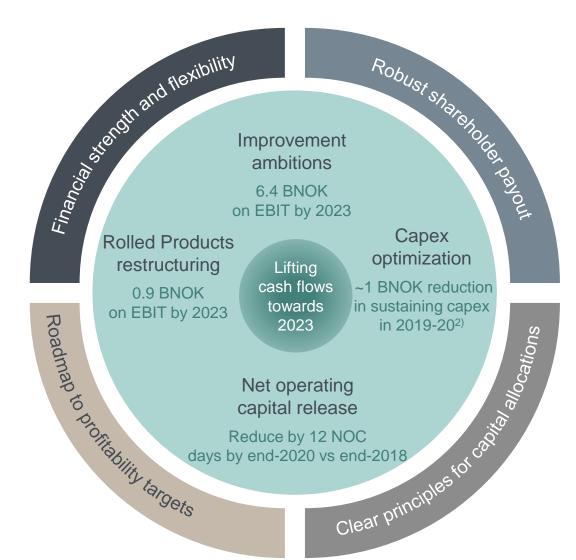


Financial strength and flexibility

- · Maintain investment grade credit rating
 - Curently BBB (S&P), Baa2 (Moody's¹⁾)
- Balance sheet ratio targets over the cycle:
 - Funds from operations to adjusted net debt > 40%
 - Adjusted net debt to equity < 55%
- Strong liquidity

Roadmap to profitability targets

- URoaCE > 10% over the cycle for Hydro group
- URoaCE> CoC for business areas over the cycle
- Differentiated return requirements by and within business areas



Robust shareholder payout

- 40% payout ratio of Net Income over the cycle
- Dividend floor of 1.25 NOK/share
- Supplementary share buybacks or extraordinary dividends

Clear principles for capital allocation

- Capital allocation in line with strategic priorities and return requirements by business area
- Competitive and affordable sustaining capex
- Strict prioritization, continuous review and reallocation

2) Compared to CMD 2018

Moody's revised Hydro's credit rating outlook from stable to negative on March 28, 2019

Clear principles for capital allocation



Evaluate funds available for allocation Strategy Review Projected funds from operations in several market scenarios Strong balance sheet Dividend commitments to shareholders **Sustaining capex** License to operate (HSE, CSR, compliance) External and internal benchmarking Affordability **Excess cash flow** Key considerations affecting growth capital availability Portfolio review and Extraordinary dividends Net operating capital Share buybacks divestments Organic and inorganic growth Aligned with strategic priorities for each business area Execution Planning Stringent return requirements by and within business area Other criteria - risk, market outlook, historical profitability, sustainability impact

Shareholder and financial policy

Hedging policy



- Hydro aims to give its shareholders competitive returns compared to alternative investments in comparable companies
- Dividend policy
 - Average ordinary payout ratio: 40% of reported net income over the cycle
 - 1.25 NOK/share to be considered as a floor, as of Q4 2016
 - Share buybacks and extraordinary dividends as supplement in periods with strong financials and outlook
 - 2018 dividend 1.25 NOK/share, vs. 1.75 NOK/share in 2017
 - Five-year average ordinary pay-out ratio 2014-2018 of ~57%
- Maintain investment-grade credit rating
 - Currently: BBB stable (S&P) & Baa2 stable (Moody's)
 - Competitive access to capital is important for Hydro's business model (counterparty risk and partnerships)
- Financial ratios over the business cycle
 - Funds from operations to adjusted net debt > 40%
 - Adjusted net debt to equity < 55%
- Strong liquidity
 - NOK 10.6 billion in cash and cash equivalents, end-Q3 2019
 - USD 1.7 billion in multi-currency revolving credit facility maturing in 2020

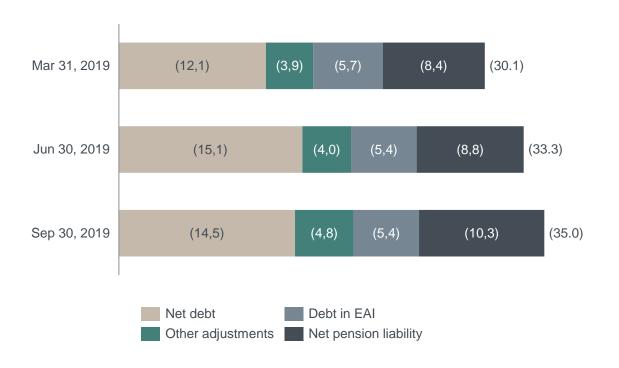
- Hedging strategy
 - Fluctuating with the market: primarily exposed to LME and USD
 - · Volatility mitigated by strong balance sheet
 - Strengthening relative position to ensure competitiveness
- Diversified business
- · Upstream cyclicality balanced with more stable earnings downstream
- · Exposed to different markets and cycles
- Bauxite & Alumina
 - Currency exposure, mainly USD and BRL
 - Exposed to LME and Platts alumina index prices
- Primary Metal
 - Operational LME hedging one-month forward sales
 - · Currency exposure, mainly USD, NOK and BRL
- · Metal Markets, Rolled Products
 - Operational LME and currency hedging to secure margin
- Flexibility to hedge LME or currency in certain cases

Maintaining a solid balance sheet and investment-grade credit rating

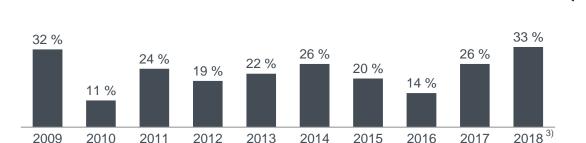


Funds from operations determine the balance sheet structure

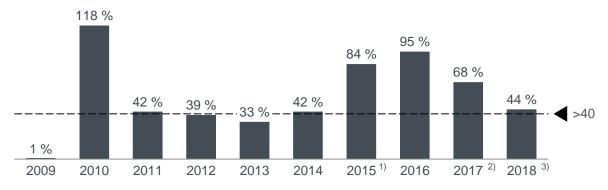
Adjusted net debt BNOK



Adjusted net debt / Equity



Funds from operations / Adjusted net debt



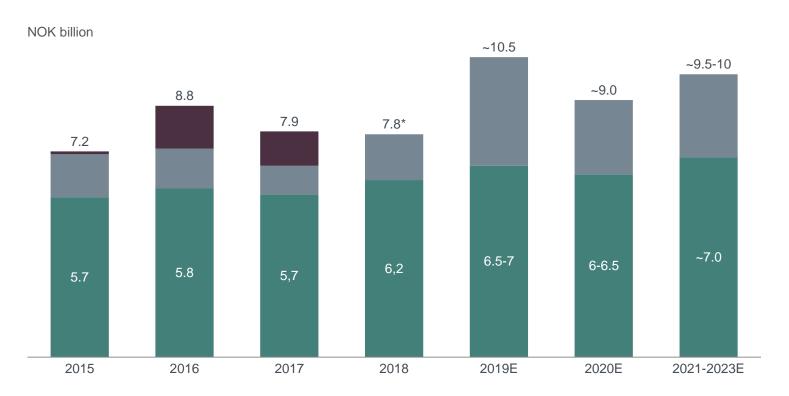
^{1) 2015} FFO/aND ratio has been restated due to change of definition

²⁾ Extruded Solutions reflected as 50% equity accounted investment Q1-Q3 2017 and fully consolidated in Q4 2017

Project pipeline to be based on updated capital allocation framework and strategic priorities



Majority of sustaining capex allocated upstream



- Karmøy technology pilot (net of ENOVA support)
- Growth projects and incremental growth
- Sustaining capex

Main sustaining projects

- Alunorte robustness
- Pipeline replacement in B&A
- Smelter relining and asset integrity in PM
- Paragominas new mine area (from 2022)

Main growth and return-seeking projects

- Husnes restart and upgrade
- Automation, process control and efficiency in PM
- Selected customer-driven growth in ES
- Energy wind and battery storage
- Fuel switch project in B&A

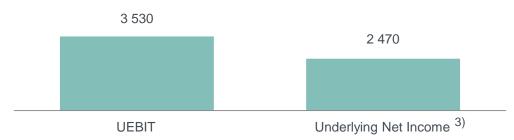
^{*}Excluding the Pis/Cofins adjustments in Brazil in 2018. Including the adjustment, 2018 capex amounted to BNOK 7.0 Capex including Extruded Solutions

Significant exposure to commodity and currency fluctuations

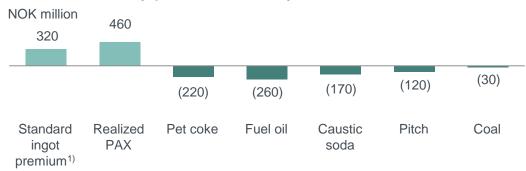


Aluminium price sensitivity +10%

NOK million



Other commodity prices, sensitivity +10% 1)



Currency sensitivities +10%

Sustainable effect:

| NOK million | USD | BRL | EUR |
|-------------|-------|---------|-------|
| UEBIT | 3 600 | (1 060) | (240) |

One-off reevaluation effect:

| Financial items | - | 820 | (3 470) |
|-----------------|---|-----|---------|
| | | | \ / |

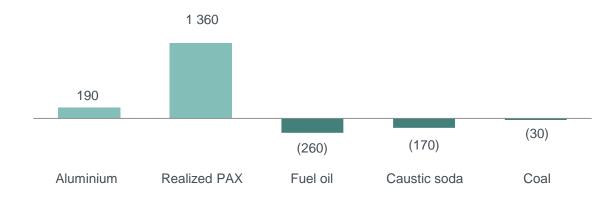
- Annual sensitivities based on normal annual business volumes (incl. 100% production at Alunorte, Paragominas and Albras) and Q319 realized prices as a starting point LME USD 1 780 per mt, standard ingot premium 150 USD/mt, PAX 315 USD/mt, fuel oil USD 450 per mt, petroleum coke USD 275 per mt, pitch 675 USD/t, caustic soda USD 330 per mt, coal USD 45 per mt, USD/NOK 8.8, BRL/NOK 2.2, EUR/NOK 9.9
- Aluminium price sensitivity is net of aluminium price indexed costs and excluding unrealized effects related to operational hedging
- BRL sensitivity calculated on a long-term basis with fuel oil assumed in USD. In the short-term, fuel oil
 is BRL-denominated
- Excludes effects of priced contracts in currencies different from underlying currency exposure (transaction exposure)
- Currency sensitivity on financial items includes effects from intercompany positions
- 2018 Platts alumina index (PAX) exposure used
- U NI sensitivity calculated as U EBIT sensitivity after 30% tax

1) Europe duty paid

Bauxite & Alumina sensitivities



Annual sensitivities on underlying EBIT if +10% in price NOK million



Currency sensitivities +10%

| NOK million | USD | BRL | EUR |
|-------------|-------|-------|-----|
| UEBIT | 1 190 | (720) | - |

Revenue impact

- ~14% of 3-month LME price per tonne alumina with one month lag
- · Realized alumina price lags PAX by one month

Cost impact

Bauxite

- ~2.45 tonnes bauxite per tonne alumina
- Pricing partly LME-linked

Caustic soda

- ~0.1 tonnes per tonne alumina
- · Prices based on IHS Chemical, pricing mainly monthly per shipment

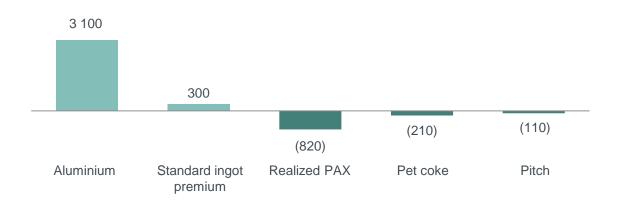
Energy

- ~0.12 tonnes coal per tonne alumina, Platts prices, one year volume contracts, weekly per shipment pricing
- ~0.11 tonnes heavy fuel oil per tonne alumina, prices set by ANP/Petrobras in Brazil, weekly pricing (ANP) or anytime (Petrobras)
- Increased use of coal as energy source in Alunorte

Primary Metal sensitivities



Annual sensitivities on underlying EBIT if +10% in price NOK million



Currency sensitivities +10%

| NOK million | USD | BRL | EUR |
|-------------|-------|-------|-------|
| UEBIT | 2 000 | (340) | (250) |

Revenue impact

- Realized price lags LME spot by ~1-2 months
- Realized premium lags market premium by ~2-3 months

Cost impact

Alumina

- ~1.9 tonnes per tonne aluminium
- ~14.5% of 3-month LME price per tonne alumina, increasing volumes priced on Platts index
- ~ 2-3 months lag

Carbon

- ~0.40 tonnes petroleum coke per tonne aluminium, Pace Jacobs Consultancy, 2-3 year volume contracts, quarterly or half yearly pricing
- ~0.08 tonnes pitch per tonne aluminium, CRU, 2-3 year volume contracts, quarterly pricing

Power

- 13.9 MWh per tonne aluminium
- · Long-term power contracts with indexations

Items excluded from underlying results - 2019



| NOK million (+=loss/()=gain) | | Q1 2019 | Q2 2019 | Q3 2019 |
|---|------------------------|---------|---------|---------|
| Alunorte agreements - provision | Bauxite & Alumina | 35 | 14 | 30 |
| Total impact | Bauxite & Alumina | 35 | 14 | 30 |
| Unrealized derivative effects on LME related contracts | Primary Metal | 122 | (15) | (27) |
| Unrealized effects on power contracts | Primary Metal | 27 | (35) | (42) |
| Total impact | Primary Metal | 149 | (50) | (69) |
| Unrealized derivative effects on LME related contracts | Metal Markets | 222 | (62) | (19) |
| Total impact | Metal Markets | 222 | (62) | (19) |
| Unrealized derivative effects on LME related contracts | Rolled Products | (77) | 60 | (24) |
| Metal effect | Rolled Products | 267 | 3 | 123 |
| Significant rationalization charges and closure costs | Rolled Products | - | - | 1 145 |
| Other effects | Rolled Products | - | - | (99) |
| Total impact | Rolled Products | 191 | 63 | 1 145 |
| Unrealized derivative effects on LME related contracts | Extruded Solutions | (77) | 27 | (44) |
| Impairment charges | Extruded Solutions | - | 28 | 95 |
| Significant rationalization charges and closure costs | Extruded Solutions | - | 200 | 61 |
| Pension | Extruded Solutions | - | - | (62) |
| Transaction related effects | Extruded Solutions | - | 35 | - |
| Other effects | Extruded Solutions | 26 | - | 59 |
| Total impact | Extruded Solutions | (51) | 289 | 109 |
| Unrealized derivative effects on power contracts | Energy | 6 | 2 | 1 |
| Other effects | Energy | - | - | (42) |
| Total impact | Energy | 6 | 2 | (41) |
| Unrealized derivative effects on power contracts | Other and eliminations | (21) | (39) | (5) |
| Unrealized derivative effects on LME related contracts | Other and eliminations | 10 | 1 | (7) |
| Total impact | Other and eliminations | (11) | (39) | (12) |
| Items excluded from underlying EBIT | Hydro | 539 | 219 | 1 144 |
| Net foreign exchange (gain)/loss | Hydro | (208) | 451 | 1 403 |
| Items excluded from underlying income (loss) before tax | Hydro | 331 | 670 | 2 547 |
| Calculated income tax effect | Hydro | (83) | (198) | (550) |
| Items excluded from underlying net income (loss) | Hydro | 248 | 472 | 1 996 |
| | | | | |

Items excluded from underlying results - 2018



| NOK million (+=loss/()=gain) | | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Year 2018 |
|---|------------------------|---------|---------|---------|---------|-----------|
| Alunorte agreements - provision | Bauxite & Alumina | - | - | 519 | - | 519 |
| Total impact | Bauxite & Alumina | | - | 519 | - | 519 |
| Unrealized derivative effects on LME related contracts | Primary Metal | (114) | (41) | 101 | (89) | (143) |
| Unrealized effects on power contracts | Primary Metal | 20 | 20 | (194) | (64) | (218) |
| Total impact | Primary Metal | (94) | (21) | (93) | (153) | (361) |
| Unrealized derivative effects on LME related contracts | Metal Markets | (128) | (32) | 104 | (144) | (200) |
| Total impact | Metal Markets | (128) | (32) | 104 | (144) | (200) |
| Unrealized derivative effects on LME related contracts | Rolled Products | 108 | (82) | 11 | 74 | 111 |
| Metal effect | Rolled Products | 47 | (60) | (153) | 93 | (73) |
| Significant rationalization charges and closure costs | Rolled Products | - | - | - | 39 | 39 |
| Total impact | Rolled Products | 154 | (142) | (141) | 206 | 77 |
| Unrealized derivative effects on LME related contracts | Extruded Solutions | 47 | (151) | 211 | 192 | 299 |
| Significant rationalization charges and closure costs | Extruded Solutions | - | - | - | 40 | 40 |
| Pension | Extruded Solutions | - | - | - | 40 | 40 |
| Other effects | Extruded Solutions | - | - | - | 237 | 237 |
| Total impact | Extruded Solutions | 47 | (151) | 211 | 509 | 616 |
| Unrealized derivative effects on power contracts | Energy | - | - | - | (7) | (7) |
| Total impact | Energy | - | - | - | (7) | (7) |
| Unrealized derivative effects on power contracts | Other and eliminations | (107) | 72 | 11 | (11) | (36) |
| Unrealized derivative effects on LME related contracts | Other and eliminations | (26) | 1 | 8 | (11) | (27) |
| Other effects | Other and eliminations | - | - | - | (34) | (34) |
| Total impact | Other and eliminations | (134) | 73 | 19 | (56) | (97) |
| Items excluded from underlying EBIT | Hydro | (155) | (274) | 620 | 356 | 547 |
| Net foreign exchange (gain)/loss | Hydro | 333 | 306 | 257 | 408 | 1 303 |
| Items excluded from underlying income (loss) before tax | Hydro | 178 | 32 | 877 | 764 | 1 851 |
| Calculated income tax effect | Hydro | (54) | (8) | (105) | (188) | (355) |
| Items excluded from underlying net income (loss) | Hydro | 125 | 24 | 772 | 575 | 1 495 |
| | | | | | | |



Underlying EBIT

| NOK million | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|
| Bauxite & Alumina | 756 | 662 | 413 | 1 872 | 741 | 364 | 685 | 493 | 153 | 415 | 481 | 3 704 | 2 282 |
| Primary Metal | 900 | 1 486 | 1 298 | 1 377 | 823 | 755 | 861 | (677) | (771) | (604) | (39) | 5 061 | 1 762 |
| Metal Markets | 24 | 244 | 91 | 185 | 178 | 237 | (3) | 275 | 190 | 299 | 362 | 544 | 686 |
| Rolled Products | 106 | 84 | 95 | 95 | 232 | 212 | 82 | (113) | 138 | 75 | 166 | 380 | 413 |
| Extruded Solutions | 281 | 329 | 209 | 284 | 734 | 957 | 497 | 202 | 593 | 772 | 559 | 1 103 | 2 390 |
| Energy | 423 | 284 | 368 | 457 | 278 | 417 | 652 | 500 | 517 | 176 | 254 | 1 531 | 1 846 |
| Other and Eliminations | (207) | (159) | (28) | (715) | 161 | (229) | (97) | (145) | (261) | (258) | (417) | (1 108) | (310) |
| Total | 2 284 | 2 930 | 2 446 | 3 555 | 3 147 | 2 713 | 2 676 | 534 | 559 | 875 | 1 366 | 11 215 | 9 069 |

Underlying EBITDA

| NOK million | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|
| Bauxite & Alumina | 1 334 | 1 248 | 1 057 | 2 551 | 1 370 | 937 | 1 193 | 877 | 758 | 1 004 | 1 071 | 6 190 | 4 377 |
| Primary Metal | 1 392 | 1 991 | 1 795 | 1 900 | 1 349 | 1 309 | 1 424 | (176) | (180) | (27) | 550 | 7 078 | 3 906 |
| Metal Markets | 47 | 268 | 114 | 209 | 201 | 262 | 22 | 301 | 219 | 328 | 395 | 638 | 786 |
| Rolled Products | 307 | 297 | 312 | 325 | 456 | 438 | 314 | 133 | 384 | 326 | 430 | 1 240 | 1 340 |
| Extruded Solutions | 281 | 329 | 209 | 728 | 1 155 | 1 383 | 931 | 645 | 1 099 | 1 279 | 1 099 | 1 547 | 4 114 |
| Energy | 476 | 337 | 424 | 519 | 339 | 479 | 716 | 566 | 583 | 242 | 319 | 1 757 | 2 100 |
| Other and Eliminations | (200) | (151) | (21) | (708) | 169 | (223) | (90) | (135) | (231) | (224) | (385) | (1 081) | (280) |
| Total | 3 637 | 4 319 | 3 889 | 5 524 | 5 038 | 4 586 | 4 510 | 2 210 | 2 633 | 2 928 | 3 479 | 17 369 | 16 344 |



EBIT

| NOK million | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|
| Bauxite & Alumina | 756 | 662 | 413 | 1 872 | 741 | 364 | 166 | 493 | 118 | 401 | 450 | 3 704 | 1 763 |
| Primary Metal | 797 | 1 538 | 1 282 | 1 112 | 917 | 776 | 954 | (524) | (919) | (554) | 30 | 4 729 | 2 123 |
| Metal Markets | (13) | 282 | 59 | 158 | 305 | 270 | (107) | 419 | (31) | 361 | 381 | 485 | 886 |
| Rolled Products | 450 | 84 | (22) | - | 78 | 353 | 223 | (319) | (53) | 12 | (978) | 512 | 336 |
| Extruded Solutions | 313 | 273 | 215 | 1 722 | 687 | 1 109 | 286 | (307) | 644 | 483 | 449 | 2 522 | 1 774 |
| Energy | 423 | 284 | 368 | 457 | 278 | 417 | 652 | 507 | 510 | 174 | 295 | 1 531 | 1 853 |
| Other and Eliminations | (316) | (176) | 7 | (810) | 295 | (303) | (117) | (89) | (249) | (220) | (405) | (1 295) | (214) |
| Total | 2 410 | 2 946 | 2 323 | 4 511 | 3 301 | 2 986 | 2 057 | 178 | 20 | 656 | 222 | 12 189 | 8 522 |

EBITDA

| NOK million | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|
| Bauxite & Alumina | 1 334 | 1 248 | 1 057 | 2 551 | 1 370 | 937 | 674 | 877 | 724 | 989 | 1 040 | 6 190 | 3 858 |
| Primary Metal | 1 289 | 2 043 | 1 779 | 1 635 | 1 443 | 1 330 | 1 517 | (23) | (328) | 23 | 619 | 6 747 | 4 267 |
| Metal Markets | 9 | 306 | 82 | 182 | 329 | 295 | (82) | 445 | (2) | 390 | 414 | 579 | 986 |
| Rolled Products | 651 | 296 | 196 | 230 | 302 | 580 | 455 | (73) | 194 | 263 | (715) | 1 372 | 1 263 |
| Extruded Solutions | 313 | 273 | 215 | 2 166 | 1 108 | 1 534 | 720 | 136 | 1 150 | 1 017 | 1 085 | 2 966 | 3 498 |
| Energy | 476 | 337 | 424 | 519 | 339 | 479 | 716 | 573 | 576 | 240 | 361 | 1 757 | 2 107 |
| Other and Eliminations | (310) | (168) | 13 | (803) | 302 | (296) | (110) | (80) | (219) | (186) | (373) | (1 268) | (183) |
| Total | 3 762 | 4 335 | 3 766 | 6 481 | 5 193 | 4 860 | 3 890 | 1 854 | 2 094 | 2 737 | 2 430 | 18 344 | 15 796 |



Total revenue

| NOK million | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| Bauxite & Alumina | 5 911 | 5 858 | 5 612 | 8 040 | 6 309 | 6 877 | 6 749 | 8 613 | 4 866 | 5 745 | 6 211 | 25 421 | 28 548 |
| Primary Metal | 8 641 | 9 575 | 8 958 | 9 291 | 10 170 | 10 083 | 9 984 | 9 196 | 9 023 | 8 937 | 8 718 | 36 466 | 39 434 |
| Metal Markets | 12 149 | 13 604 | 11 862 | 12 991 | 13 898 | 14 205 | 13 230 | 12 903 | 12 959 | 13 301 | 12 326 | 50 606 | 54 237 |
| Rolled Products | 6 277 | 6 569 | 6 435 | 6 434 | 6 797 | 7 145 | 6 791 | 6 223 | 6 844 | 6 623 | 6 672 | 25 715 | 26 955 |
| Extruded Solutions | | | | 14 153 | 15 911 | 16 980 | 15 976 | 15 218 | 16 013 | 17 270 | 15 233 | 14 153 | 64 085 |
| Energy | 1 955 | 1 750 | 1 831 | 2 169 | 1 762 | 2 163 | 2 488 | 2 267 | 2 261 | 1 815 | 1 990 | 7 705 | 8 681 |
| Other and Eliminations | (11 906) | (12 765) | (11 900) | (14 276) | (14 877) | (16 198) | (15 452) | (16 034) | (14 382) | (14 515) | (13 633) | (50 847) | (62 562) |
| Total | 23 026 | 24 591 | 22 799 | 38 803 | 39 971 | 41 254 | 39 766 | 38 386 | 37 583 | 39 176 | 37 517 | 109 220 | 159 377 |

External revenue

| NOK million | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|
| Bauxite & Alumina | 3 382 | 3 417 | 3 293 | 5 095 | 3 509 | 3 640 | 3 016 | 4 232 | 2 370 | 2 692 | 3 684 | 15 188 | 14 396 |
| Primary Metal | 1 700 | 1 944 | 1 865 | 2 068 | 2 018 | 1 993 | 2 312 | 1 505 | 1 390 | 1 457 | 1 642 | 7 578 | 7 829 |
| Metal Markets | 11 094 | 12 080 | 10 675 | 10 414 | 10 901 | 10 905 | 10 575 | 10 121 | 10 139 | 10 577 | 9 742 | 44 264 | 42 502 |
| Rolled Products | 6 153 | 6 629 | 6 380 | 6 375 | 6 870 | 7 011 | 6 773 | 6 287 | 6 777 | 6 654 | 6 639 | 25 538 | 26 940 |
| Extruded Solutions | | | | 14 083 | 15 932 | 16 877 | 15 934 | 15 280 | 15 924 | 17 271 | 15 214 | 14 083 | 64 023 |
| Energy | 687 | 514 | 582 | 767 | 738 | 823 | 1 151 | 961 | 983 | 519 | 594 | 2 550 | 3 673 |
| Other and Eliminations | 9 | 6 | 3 | - | 4 | 6 | 5 | (1) | - | 5 | 1 | 18 | 14 |
| Total | 23 026 | 24 591 | 22 799 | 38 803 | 39 971 | 41 254 | 39 766 | 38 386 | 37 583 | 39 176 | 37 517 | 109 220 | 159 377 |



Internal revenue

| NOK million | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| Bauxite & Alumina | 2 528 | 2 441 | 2 320 | 2 944 | 2 800 | 3 237 | 3 733 | 4 381 | 2 496 | 3 052 | 2 527 | 10 234 | 14 152 |
| Primary Metal | 6 941 | 7 631 | 7 093 | 7 223 | 8 152 | 8 090 | 7 672 | 7 691 | 7 633 | 7 480 | 7 075 | 28 888 | 31 605 |
| Metal Markets | 1 054 | 1 523 | 1 187 | 2 577 | 2 997 | 3 301 | 2 656 | 2 781 | 2 820 | 2 724 | 2 584 | 6 341 | 11 735 |
| Rolled Products | 124 | (61) | 55 | 59 | (72) | 134 | 18 | (64) | 66 | (31) | 33 | 178 | 15 |
| Extruded Solutions | | | | 70 | (21) | 103 | 42 | (62) | 89 | (1) | 18 | 70 | 61 |
| Energy | 1 267 | 1 236 | 1 249 | 1 403 | 1 024 | 1 340 | 1 337 | 1 306 | 1 278 | 1 296 | 1 382 | 5 155 | 5 007 |
| Other and Eliminations | (11 915) | (12 772) | (11 903) | (14 276) | (14 881) | (16 204) | (15 457) | (16 033) | (14 382) | (14 520) | (13 620) | (50 865) | (62 576) |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - |

Share of profit /(loss) in equity accounted investments

| NOK million | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|
| Bauxite & Alumina | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Primary Metal | 98 | 231 | 159 | 258 | 210 | 280 | 238 | (5) | 32 | 24 | 150 | 745 | 722 |
| Metal Markets | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rolled Products | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Extruded Solutions | 313 | 273 | 215 | 12 | 17 | 11 | 14 | 10 | 12 | 5 | - | 812 | 53 |
| Energy | - | - | - | (7) | (10) | (11) | (4) | (11) | (9) | (9) | (4) | (7) | (35) |
| Other and Eliminations | (1) | (13) | (3) | (7) | 3 | 5 | (20) | 35 | (32) | 27 | (23) | (24) | 24 |
| Total | 409 | 491 | 371 | 256 | 221 | 286 | 229 | 30 | 3 | 47 | 123 | 1 527 | 765 |

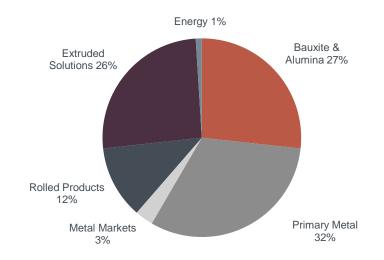


Return on average capital employed 1) (RoaCE)

| | | | | Reported F | RoaCE | | | Underlying RoaCE | | | | | | |
|-----------------------|-------|-------|--------|------------|---------|---------|---------|------------------|-------|--------|--------|---------|---------|---------|
| | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
| Bauxite & Alumina | 4.3% | 8.5% | 2.7 % | 5.3 % | (0.1) % | (2.5) % | (1.5) % | 5.5% | 8.5% | 2.8 % | 5.3 % | (0.1) % | (2.2) % | (1.6) % |
| Primary Metal | 5.4% | 11.8% | 5.2 % | 10.7 % | 10.4 % | 2.3 % | (3.1) % | 4.6% | 12.6% | 5.2 % | 11.0 % | 10.4 % | 3.9 % | 0.4 % |
| Metal Markets | 26.6% | 18.6% | 19.6 % | 5.4 % | 21.9 % | 22.3 % | 4.3 % | 20.6% | 20.9% | 15.9 % | 11.4 % | 19.4 % | 19.9 % | 6.6 % |
| Rolled Products | 1.9% | 3.2% | 6.2 % | 1.1 % | 8.6 % | 0.7 % | 6.7 % | 2.4% | 2.4% | 4.6 % | 7.8 % | 5.3 % | 5.2 % | 5.3 % |
| Extruded Solutions 2) | 5.4% | 13.4% | | | | | | 7.2% | 6.6% | | | | | |
| Energy | 20.6% | 17.5% | 18.1 % | 17.2 % | 17.4 % | 36.1 % | 23.0 % | 20.5% | 17.5% | 18.1 % | 17.3 % | 17.4 % | 36.1 % | 23.2 % |
| Hydro Group | 5.8% | 11.2% | 6.5 % | 7.5 % | 4.9 % | 1.1 % | (0.5) % | 6.4% | 9.6% | 5.1 % | 9.2 % | 5.2 % | 2.3 % | 0.9 % |

Capital employed – upstream focus

| NOK million | Sep 30, 2019 |
|------------------------|--------------|
| Bauxite & Alumina | 28 722 |
| Primary Metal | 34 625 |
| Metal Markets | 2 704 |
| Rolled Products | 12 443 |
| Extruded Solutions | 27 577 |
| Energy | 968 |
| Other and Eliminations | (7 845) |
| Total | 99 195 |



Graph excludes BNOK (7.8) in capital employed in Other and Eliminations

¹⁾ RoaCE at business area level is calculated using 25% tax rate (30% tax rate applied for years prior to 2017). For Energy, 70% tax rate is used for 2018, 65% for 2017, 60% for 2016 and 55% for prior years. 2018 RoaCE has been restated due to the implementation of IFRS16 Leases.

²⁾ Extruded Solutions reflected as 50% equity accounted investment Q1-Q3 2017 and fully consolidated from Q4 2017



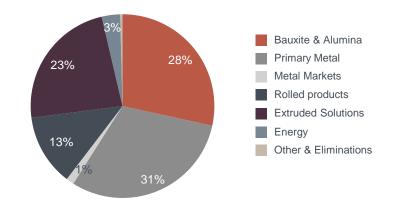
Depreciation, amortization and impairment

| NOK million | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|
| Bauxite & Alumina | 577 | 586 | 644 | 679 | 630 | 573 | 509 | 384 | 605 | 589 | 590 | 2 486 | 2 095 |
| Primary Metal | 492 | 505 | 504 | 526 | 546 | 575 | 583 | 548 | 619 | 605 | 616 | 2 026 | 2 253 |
| Metal Markets | 23 | 24 | 24 | 24 | 24 | 25 | 25 | 26 | 29 | 29 | 33 | 95 | 101 |
| Rolled Products | 201 | 212 | 217 | 230 | 223 | 227 | 231 | 246 | 247 | 251 | 264 | 860 | 927 |
| Extruded Solutions | | | | 444 | 421 | 425 | 434 | 443 | 506 | 535 | 639 | 444 | 1 723 |
| Energy | 53 | 54 | 56 | 60 | 58 | 59 | 61 | 63 | 62 | 62 | 62 | 223 | 239 |
| Other and Eliminations | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 10 | 30 | 34 | 32 | 28 | 30 |
| Total | 1 352 | 1 389 | 1 450 | 1 970 | 1 909 | 1 891 | 1 851 | 1 719 | 2 098 | 2 105 | 2 236 | 6 162 | 7 369 |

Indicative depreciation currency exposure by business area

| Percent | USD | EUR | BRL | NOK & Other |
|----------------------|-----|-----|------|-------------|
| Bauxite & Alumina | | | 100% | |
| Primary Metal | 20% | | 20% | 60% |
| Metal Markets | 30% | 50% | | 20% |
| Rolled Products | | 90% | | 10% |
| Extruded Solutions | 30% | 40% | | 30% |
| Energy | | | | 100% |
| Other & Eliminations | | 10% | | 90% |

Depreciation by business area 2018, 7.4 BNOK



Income statements



| NOK million | | | | | | | Q3 2019 | Q3 2018 | Q2 20° | | rst nine hs 2019 | First nine months 2018 | Year 2018 |
|---|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------------|---------------------------|-----------|
| Revenue | | | | | | | 37 517 | 37 766 | 39 17 | 76 | 114 276 | 120 991 | 159 377 |
| Share of the profit (loss) in equity accoun | ited investments | | | | | | 123 | 229 | | 47 | 173 | 735 | 765 |
| Other income, net | | | | | | | 268 | 169 | | 39 | 590 | 508 | 772 |
| Total revenue and income | | | | | | | 37 908 | 40 163 | 39 30 | 62 | 115 040 | 122 233 | 160 913 |
| Raw material and energy expense | | | | | | | 24 090 | 25 667 | 25 92 | 20 | 75 146 | 77 359 | 102 523 |
| Employee benefit expense | | | | | | | 6 728 | 5 650 | 6 19 | 92 | 18 943 | 17 250 | 23 176 |
| Depreciation, amortization and impairmen | nt | | | | | | 2 236 | 1 851 | 2 10 | | 6 440 | 5 650 | 7 369 |
| Other expenses | | | | | | | 4 632 | 4 939 | 4 48 | 38 | 13 613 | 13 631 | 19 324 |
| Earnings before financial items and tax | x (EBIT) | | | | | | 222 | 2 057 | 6 | 56 | 898 | 8 344 | 8 522 |
| Financial income | | | | | | | 72 | 64 | (| 90 | 225 | 211 | 255 |
| Financial expense | | | | | | | (1 700) | (486) | (75 | 4) | (2 512) | (1 549) | (2 315) |
| Income (loss) before tax | | | | | | | (1 407) | 1 634 | (| 8) | (1 389) | 7 005 | 6 462 |
| Income taxes | | | | | | | 16 | (710) | (18 | 3) | (316) | (1 931) | (2 139) |
| Net income (loss) | | | | | | | (1 390) | 925 | (19 | 0) | (1 705) | 5 074 | 4 323 |
| Net income (loss) attributable to non-conf | trolling interests | | | | | | (131) | 174 | (10 | 5) | (370) | 124 | 67 |
| Net income (loss) attributable to Hydro sh | nareholders | | | | | | (1 259) | 751 | (8 | 5) | (1 335) | 4 949 | 4 256 |
| Earnings per share attributable to Hyd | ro shareholders | | | | | | (0.62) | 0.37 | (0.0 | 4) | (0.65) | 2.42 | 2.08 |
| | | | | | | | | | | | | | |
| NOK million | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 201 | 9 Year 2017 | Year 2018 |
| Net income (loss) | 1 838 | 1 562 | 2 184 | 3 600 | 2 076 | 2 073 | 925 | (750) | (124) | (190) | (1 390 | 9 184 | 4 323 |
| Underlying net income (loss) | 1 580 | 2 214 | 1 785 | 2 816 | 2 201 | 2 096 | 1 696 | (175) | 124 | 281 | 60 | 6 8 396 | 5 819 |
| Earnings per share | 0.86 | 0.73 | 1.00 | 1.71 | 1.02 | 1.03 | 0.37 | (0.34) | 0 | (0.04) | (0.62 | 2) 4.30 | 2.08 |
| Underlying earnings per share | 0.75 | 1.04 | 0.82 | 1.33 | 1.06 | 1.02 | 0.74 | (0.06) | 0.13 | 0.19 | 0.3 | 3 3.95 | 2.75 |

Balance sheets



| NOK million | Sep 30, 2019 | Jun 30, 2019 | Mar 31, 2019 | Dec 31 2018 ¹⁾ | Sep 30 2018 | Jun 30 2018 | Mar 31 2018 |
|---|--------------|--------------|--------------|---------------------------|-------------|-------------|-------------|
| Cash and cash equivalents | 10 581 | 10 590 | 6 099 | 5 995 | 6 846 | 5 682 | 9 371 |
| Short-term investments | 929 | 1 090 | 1 274 | 975 | 1 176 | 1 136 | 1 031 |
| Accounts receivable | 23 007 | 23 186 | 23 542 | 20 744 | 21 727 | 23 442 | 22 785 |
| Inventories | 21 679 | 22 718 | 25 004 | 26 483 | 23 916 | 22 337 | 20 626 |
| Other current assets | 700 | 471 | 349 | 801 | 738 | 978 | 818 |
| Property, plant and equipment | 74 025 | 73 193 | 72 882 | 74 369 | 66 251 | 66 683 | 69 945 |
| Intangible assets | 11 695 | 11 485 | 11 133 | 11 443 | 10 695 | 11 660 | 12 133 |
| Investments accounted for using the equity method | 11 809 | 10 936 | 11 349 | 11 570 | 11 094 | 11 140 | 10 551 |
| Prepaid pension | 5 721 | 5 986 | 5 854 | 5 162 | 6 857 | 6 322 | 5 933 |
| Other non-current assets | 6 877 | 7 322 | 7 157 | 7 385 | 5 962 | 5 780 | 5 588 |
| Total assets | 167 025 | 166 978 | 164 644 | 164 928 | 155 261 | 155 159 | 158 781 |
| Bank-loans and other interest-bearing short-term debt | 6 074 | 8 177 | 8 913 | 9 373 | 6 607 | 4 969 | 5 269 |
| Trade and other payables | 19 716 | 21 014 | 22 146 | 20 381 | 19 906 | 21 351 | 20 621 |
| Other current liabilities | 4 095 | 3 688 | 4 674 | 6 062 | 5 897 | 4 976 | 4 852 |
| Long-term debt | 19 985 | 18 620 | 10 559 | 9 342 | 7 886 | 9 377 | 8 746 |
| Provisions | 6 283 | 5 577 | 5 673 | 5 588 | 5 358 | 5 532 | 5 652 |
| Pension liabilities | 17 879 | 16 646 | 15 981 | 15 648 | 14 416 | 14 665 | 14 911 |
| Deferred tax liabilities | 2 911 | 3 123 | 3 052 | 3 031 | 3 952 | 3 456 | 3 522 |
| Other non-current liabilities | 5 435 | 4 536 | 4 252 | 4 746 | 3 756 | 3 673 | 4 084 |
| Equity attributable to Hydro shareholders | 80 275 | 81 143 | 84 692 | 85 820 | 83 012 | 82 676 | 86 233 |
| Non-controlling interests | 4 371 | 4 452 | 4 703 | 4 936 | 4 472 | 4 486 | 4 891 |
| Total liabilities and equity | 167 025 | 166 978 | 164 644 | 164 928 | 155 261 | 155 159 | 158 781 |

1) Restated

Operational data



| Bauxite & Alumina | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alumina production (kmt) | 1 523 | 1 576 | 1 605 | 1 693 | 1 277 | 829 | 821 | 786 | 805 | 932 | 1 320 | 6 397 | 3 712 |
| Sourced alumina (kmt) | 600 | 645 | 667 | 610 | 900 | 985 | 907 | 1 163 | 711 | 704 | 660 | 2 522 | 3 954 |
| Total alumina sales (kmt) | 2 129 | 2 196 | 2 251 | 2 344 | 2 071 | 1 842 | 1 711 | 1 983 | 1 423 | 1 668 | 2 124 | 8 920 | 7 607 |
| Realized alumina price (USD) 1) | 309 | 295 | 297 | 398 | 371 | 430 | 460 | 463 | 373 | 365 | 310 | 326 | 429 |
| Implied alumina cost (USD) 2) | 235 | 228 | 237 | 265 | 287 | 367 | 376 | 409 | 311 | 296 | 253 | 242 | 358 |
| Bauxite production (kmt) 3) | 2 400 | 2 943 | 3 043 | 3 049 | 2 326 | 1 348 | 1 286 | 1 254 | 1 361 | 1 624 | 2 152 | 11 435 | 6 214 |
| Sourced bauxite (kmt) 4) | 1 675 | 1 809 | 2 013 | 2 103 | 1 317 | 1 250 | 905 | 1 730 | 1 029 | 1 315 | 1 563 | 7 601 | 5 202 |
| Underlying EBITDA margin 11) | 22.6% | 21.3% | 18.8% | 31.7% | 21.7% | 13.6% | 17.7% | 10.2% | 15.6% | 17.5% | 17.2% | 24.3% | 15.3% |
| | | | | | | | | | | | | | |
| Primary Metal 5) | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
| | | | | | | | | | | | | | |
| Realized aluminium price LME, USD/mt | 1 757 | 1 902 | 1 921 | 2 092 | 2 140 | 2 183 | 2 194 | 2 041 | 1 912 | 1 858 | 1 784 | 1 915 | 2 140 |
| Realized aluminium price LME, USD/mt Realized aluminium price LME, NOK/mt ⁷⁾ | 1 757 14 798 | 1 902 16 265 | 1 921 15 496 | 2 092 17 066 | 2 140 16 929 | 2 183 17 292 | 2 194 17 905 | 2 041 17 038 | 1 912 16 291 | 1 858 15 959 | 1 784 15 732 | 1 915 15 888 | 2 140 17 282 |
| , , | | | | | | | | | | | | | |
| Realized aluminium price LME, NOK/mt ⁷⁾ | 14 798 | 16 265 | 15 496 | 17 066 | 16 929 | 17 292 | 17 905 | 17 038 | 16 291 | 15 959 | 15 732 | 15 888 | 17 282 |
| Realized aluminium price LME, NOK/mt ⁷⁾ Realized premium above LME, USD/mt ⁶⁾ | 14 798 266 | 16 265 273 | 15 496 261 | 17 066 259 | 16 929 295 | 17 292 364 | 17 905 367 | 17 038 362 | 16 291 344 | 15 959 326 | 15 732 305 | 15 888 265 | 17 282 346 |
| Realized aluminium price LME, NOK/mt ⁷⁾ Realized premium above LME, USD/mt ⁶⁾ Realized premium above LME, NOK/mt ⁶⁾⁷⁾ | 14 798 266 2 236 | 16 265 273 2 330 | 15 496 261 2 106 | 17 066 259 2 116 | 16 929 295 2 335 | 17 292 364 2 881 | 17 905 367 2 999 | 17 038 362 3 025 | 16 291 344 2 935 | 15 959 326 2 802 | 15 732 305 2 688 | 15 888 265 2 197 | 17 282 346 2 791 |
| Realized aluminium price LME, NOK/mt ⁷⁾ Realized premium above LME, USD/mt ⁶⁾ Realized premium above LME, NOK/mt ⁶⁾⁷⁾ Realized NOK/USD exchange rate ⁷⁾ | 14 798 266 2 236 8.42 | 16 265 273 2 330 8.55 | 15 496 261 2 106 8.07 | 17 066 259 2 116 8.16 | 16 929 295 2 335 7.91 | 17 292 364 2 881 7.92 | 17 905 367 2 999 8.16 | 17 038 362 3 025 8.35 | 16 291 344 2 935 8.52 | 15 959 326 2 802 8.59 | 15 732 305 2 688 8.82 | 15 888 265 2 197 8.30 | 17 282 346 2 791 8.08 |
| Realized aluminium price LME, NOK/mt ⁷⁾ Realized premium above LME, USD/mt ⁶⁾ Realized premium above LME, NOK/mt ⁶⁾⁷⁾ Realized NOK/USD exchange rate ⁷⁾ Implied primary cost (USD) ⁸⁾ | 14 798 266 2 236 8.42 1 350 | 16 265 273 2 330 8.55 1 375 | 15 496 261 2 106 8.07 1 425 | 17 066 259 2 116 8.16 1 575 | 16 929 295 2 335 7.91 1 725 | 17 292 364 2 881 7.92 1 775 | 17 905 367 2 999 8.16 1 750 | 17 038 362 3 025 8.35 2 000 | 16 291 344 2 935 8.52 1 850 | 15 959 326 2 802 8.59 1 775 | 15 732 305 2 688 8.82 1 600 | 15 888 265 2 197 8.30 1 425 | 17 282 346 2 791 8.08 1 825 |
| Realized aluminium price LME, NOK/mt ⁷⁾ Realized premium above LME, USD/mt ⁶⁾ Realized premium above LME, NOK/mt ⁶⁾⁷⁾ Realized NOK/USD exchange rate ⁷⁾ Implied primary cost (USD) ⁸⁾ Implied all-in primary cost (USD) ⁹⁾ | 14 798 266 2 236 8.42 1 350 1 675 | 16 265 273 2 330 8.55 1 375 1 700 | 15 496 261 2 106 8.07 1 425 1 725 | 17 066 259 2 116 8.16 1 575 1 850 | 16 929 295 2 335 7.91 1 725 2 075 | 17 292 364 2 881 7.92 1 775 2 175 | 17 905 367 2 999 8.16 1 750 2 150 | 17 038 362 3 025 8.35 2 000 2 350 | 16 291 344 2 935 8.52 1 850 2 200 | 15 959 326 2 802 8.59 1 775 2 100 | 15 732 305 2 688 8.82 1 600 1 900 | 15 888 265 2 197 8.30 1 425 1 725 | 17 282 346 2 791 8.08 1 825 2 175 |
| Realized aluminium price LME, NOK/mt ⁷⁾ Realized premium above LME, USD/mt ⁶⁾ Realized premium above LME, NOK/mt ⁶⁾⁷⁾ Realized NOK/USD exchange rate ⁷⁾ Implied primary cost (USD) ⁸⁾ Implied all-in primary cost (USD) ⁹⁾ Primary aluminium production, kmt | 14 798 266 2 236 8.42 1 350 1 675 516 | 16 265 273 2 330 8.55 1 375 1 700 523 | 15 496 261 2 106 8.07 1 425 1 725 527 | 17 066 259 2 116 8.16 1 575 1 850 528 | 16 929 295 2 335 7.91 1 725 2 075 514 | 17 292 364 2 881 7.92 1 775 2 175 492 | 17 905 367 2 999 8.16 1 750 2 150 497 | 17 038 362 3 025 8.35 2 000 2 350 490 | 16 291 344 2 935 8.52 1 850 2 200 485 | 15 959 326 2 802 8.59 1 775 2 100 486 | 15 732 305 2 688 8.82 1 600 1 900 522 | 15 888 265 2 197 8.30 1 425 1 725 2 094 | 17 282 346 2 791 8.08 1 825 2 175 1 993 |

Weighted average of own production and third party contracts, excluding hedge results. The majority of the alumina is sold linked to either the LME prices or alumina index with a one month delay. Sourced alumina volumes have been re-calculated, with Q1 2018 being adjusted accordingly.

²⁾ Implied alumina cost (based on EBITDA and sales volume) replaces previous apparent alumina cash cost

³⁾ Paragominas production, on wet basis

^{4) 40} percent MRN offtake from Vale and 5 percent Hydro share on wet basis

⁵⁾ Operating and financial information includes Hydro's proportionate share of production and sales volumes in equity accounted investments. Realized prices, premiums and exchange rates exclude equity accounted investments

⁶⁾ Average realized premium above LME for casthouse sales from Primary Metal.

⁷⁾ Including strategic hedges /hedge accounting applied

⁸⁾ Realized LME price minus Underlying EBITDA margin (incl. Qatalum) per mt primary aluminium produced. Includes net earnings from primary casthouses

Realized all-in price minus Underlying EBITDA margin (incl. Qatalum) per mt primary aluminium sold. Includes net earnings from primary casthouses

¹⁰⁾ Total sales replaces previous casthouse sales due to change of definition

¹¹⁾ Underlying EBITDA divided by total revenues

Operational data



| Metal Markets | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
|---|--|---|--|--|--|---|--|--|---|---|---|--|--|
| Remelt production (1 000 mt) | 143 | 152 | 136 | 137 | 150 | 153 | 126 | 135 | 131 | 139 | 125 | 568 | 563 |
| Third-party Metal Products sales (1 000 mt) | 79 | 80 | 74 | 86 | 70 | 77 | 83 | 73 | 70 | 83 | 82 | 319 | 304 |
| Metal Products sales excl. ingot trading (1 000 mt) 1) | 735 | 759 | 707 | 720 | 745 | 746 | 685 | 682 | 683 | 707 | 662 | 2 921 | 2 859 |
| Hereof external sales excl. ingot trading (1 000 mt) | 672 | 675 | 639 | 589 | 580 | 563 | 543 | 532 | 539 | 556 | 517 | 2 575 | 2 217 |
| External revenue (NOK million) | 11 094 | 12 080 | 10 675 | 10 414 | 10 901 | 10 905 | 10 575 | 10 121 | 10 139 | 10 577 | 9 742 | 44 264 | 42 502 |
| Rolled Products | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
| Rolled Products external shipments (1 000 mt) | 241 | 239 | 236 | 224 | 245 | 251 | 235 | 220 | 246 | 242 | 245 | 940 | 951 |
| Rolled Products – Underlying EBIT per mt, NOK | 442 | 351 | 400 | 424 | 949 | 844 | 349 | (512) | 560 | 309 | 678 | 404 | 435 |
| Underlying EBITDA margin ²⁾ | 4.9% | 4.5% | 4.8% | 5.0% | 6.7% | 6.1% | 4.6% | 2.1% | 5.6% | 4.9% | 6.4% | 4.8 % | 5.0% |
| | | | | | | | | | | | | | |
| Extruded Solutions ³⁾ | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | Q1 2019 | Q2 2019 | Q3 2019 | Year 2017 | Year 2018 |
| Extruded Solutions ³⁾ Extruded Solutions external shipments (1 000 mt) | Q1 2017 355 | Q2 2017 359 | Q3 2017 | Q4 2017 318 | Q1 2018 362 | Q2 2018 373 | Q3 2018 | Q4 2018 318 | Q1 2019 | Q2 2019 348 | Q3 2019 316 | Year 2017 1 372 | Year 2018 1 396 |
| | | | | | | | | | | | | | |
| Extruded Solutions external shipments (1 000 mt) Extruded Solutions – Pro-forma underlying EBIT per mt, | 355 | 359 | 339 | 318 | 362 | 373 | 343 | 318 | 333 | 348 | 316 | 1 372 | 1 396 |
| Extruded Solutions external shipments (1 000 mt) Extruded Solutions – Pro-forma underlying EBIT per mt, NOK | 355 1 973 | 359 2 328 | 339 1 505 | 318 893 | 362 2 028 | 373 2 566 | 343 1 449 | 318 635 | 333 1 781 | 348 2 219 | 316 1 769 | 1 372 1 699 | 1 396 1 712 |
| Extruded Solutions external shipments (1 000 mt) Extruded Solutions – Pro-forma underlying EBIT per mt, NOK Underlying EBITDA margin ²⁾ | 355 1 973 7.7% | 359 2 328 8.2% | 339 1 505 6.5% | 318 893 5.2% | 362 2 028 7.3% | 373 2 566 8.1% | 343 1 449 5.8% | 318 635 4.2% | 333 1 781 6.9% | 348 2 219 7.4% | 316 1 769 7.2% | 1 372 1 699 6.9% | 1 396 1 712 6.4% |
| Extruded Solutions external shipments (1 000 mt) Extruded Solutions – Pro-forma underlying EBIT per mt, NOK Underlying EBITDA margin ²⁾ Energy | 355 1 973 7.7% Q1 2017 | 359 2 328 8.2% Q2 2017 | 339 1 505 6.5% Q3 2017 | 318 893 5.2% Q4 2017 | 362 2 028 7.3% Q1 2018 | 373 2 566 8.1% Q2 2018 | 343 1 449 5.8% Q3 2018 | 318 635 4.2% Q4 2018 | 333 1 781 6.9% Q1 2019 | 348 2 219 7.4% Q2 2019 | 316 1 769 7.2% Q3 2019 | 1 372 1 699 6.9% Year 2017 | 1 396 1 712 6.4% Year 2018 |
| Extruded Solutions external shipments (1 000 mt) Extruded Solutions – Pro-forma underlying EBIT per mt, NOK Underlying EBITDA margin ²⁾ Energy Power production, GWh | 355 1 973 7.7% Q1 2017 2 869 | 359 2 328 8.2% Q2 2017 2 369 | 339 1 505 6.5% Q3 2017 2 509 | 318 893 5.2% Q4 2017 3 089 | 362 2 028 7.3% Q1 2018 2 433 | 373 2 566 8.1% Q2 2018 2 550 | 343 1 449 5.8% Q3 2018 2 888 | 318 635 4.2% Q4 2018 2 822 | 333 1 781 6.9% Q1 2019 2 553 | 348 2 219 7.4% Q2 2019 1 993 | 316 1 769 7.2% Q3 2019 2 273 | 1 372 1 699 6.9% Year 2017 10 835 | 1 396 1 712 6.4% Year 2018 10 693 |
| Extruded Solutions external shipments (1 000 mt) Extruded Solutions – Pro-forma underlying EBIT per mt, NOK Underlying EBITDA margin ²⁾ Energy Power production, GWh Net spot sales, GWh | 355 1 973 7.7% Q1 2017 2 869 1 409 | 359 2 328 8.2% Q2 2017 2 369 996 | 339 1 505 6.5% Q3 2017 2 509 1 168 | 318 893 5.2% Q4 2017 3 089 1 633 | 362 2 028 7.3% Q1 2018 2 433 763 | 373 2 566 8.1% Q2 2018 2 550 961 | 343 1 449 5.8% Q3 2018 2 888 1 315 | 318 635 4.2% Q4 2018 2 822 1 166 | 333 1 781 6.9% Q1 2019 2 553 770 | 348 2 219 7.4% Q2 2019 1 993 289 | 316 1 769 7.2% Q3 2019 2 273 582 | 1 372 1 699 6.9% Year 2017 10 835 5 206 | 1 396 1 712 6.4% Year 2018 10 693 4 204 |

Includes external and internal sales from primary casthouse operations, remelters and third party Metal sources
 Underlying EBITDA divided by total revenues
 FY 2017 and historical operational data based on pro forma figures

Extruded Solutions, information by business area



Historical Sapa information (100% basis) Q1 2017 – Q3 2017 Extruded Solutions, fully consolidated in Hydro since Q4 2017 ¹⁾

| Precision Tubing | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | 2018 | Q1 2019 | Q2 2019 | Q3 2019 |
|---------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|------------|------------|------------|
| Volume (kmt) | 36 | 38 | 36 | 35 | 37 | 41 | 41 | 38 | 157 | 34 | 36 | 34 |
| Operating revenues (NOKm) | 1 651 | 1 734 | 1 601 | 1 645 | 1 700 | 1 910 | 1 873 | 1 722 | 7 205 | 1 623 | 1 788 | 1 540 |
| Underlying EBITDA (NOKm) | 180 | 193 | 157 | 138 | 168 | 120 | 121 | 98 | 507 | 86 | 146 | 140 |
| Underlying EBIT (NOKm) | 123 | 136 | 97 | 66 | 103 | 55 | 50 | 30 | 237 | 18 | 87 | 74 |
| Building Systems | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | 2018 | Q1 2019 | Q2 2019 | Q3 2019 |
| Volume (kmt) | 20 | 21 | 19 | 19 | 20 | 21 | 18 | 19 | 78 | 18 | 22 | 19 |
| Operating revenues (NOKm) | 1 830 | 2 044 | 1 765 | 1 960 | 2 057 | 2 124 | 1 919 | 2 045 | 8 145 | 1 973 | 2 328 | 2 104 |
| Underlying EBITDA (NOKm) | 155 | 219 | 118 | 137 | 167 | 198 | 130 | 155 | 650 | 104 | 233 | 189 |
| Underlying EBIT (NOKm) | 119 | 183 | 85 | 85 | 116 | 146 | 70 | 99 | 430 | 22 | 143 | 79 |
| Other and eliminations | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | 2018 | Q1 2019 | Q2 2019 | Q3 2019 |
| Underlying EBITDA (NOKm) | (63) | (43) | (41) | (35) | (45) | (46) | (21) | (118) | (230) | (56) | (96) | 24 |
| Underlying EBIT (NOKm) | (69) | (49) | (42) | (45) | (55) | (58) | (35) | (130) | (278) | (58) | (99) | 21 |

| Extrusion Europe | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | 2018 | Q1 2019 | Q2 2019 | Q3 2019 |
|---------------------------|------------|------------|------------|------------|------------|------------|------------|------------|--------|------------|------------|------------|
| Volume (kmt) | 154 | 155 | 142 | 134 | 159 | 160 | 138 | 129 | 586 | 139 | 142 | 120 |
| Operating revenues (NOKm) | 5 553 | 5 999 | 5 460 | 5 541 | 6 600 | 6 664 | 5 867 | 5 719 | 24 850 | 6 328 | 6 461 | 5 579 |
| Underlying EBITDA (NOKm) | 390 | 416 | 290 | 240 | 417 | 504 | 263 | 201 | 1 385 | 346 | 348 | 215 |
| Underlying EBIT (NOKm) | 274 | 292 | 164 | 59 | 246 | 333 | 98 | 27 | 705 | 141 | 144 | 6 |
| Extrusion North America | Q1 2017 | Q2 2017 | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 | Q4 2018 | 2018 | Q1 2019 | Q2 2019 | Q3 2019 |
| Extrasion North America | 2017 | 2017 | 2017 | 2011 | 2010 | 2010 | 2010 | 2010 | 2010 | 2013 | 2013 | 2013 |
| Volume (kmt) | 150 | 151 | 148 | 134 | 152 | 157 | 152 | 137 | 598 | 146 | 148 | 142 |
| Operating revenues (NOKm) | 5 514 | 5 753 | 5 369 | 5 211 | 5 882 | 6 519 | 6 541 | 6 091 | 25 033 | 6 306 | 7 053 | 6 267 |
| Underlying EBITDA (NOKm) | 437 | 466 | 390 | 248 | 448 | 606 | 439 | 310 | 1 802 | 619 | 648 | 532 |
| Underlying EBIT (NOKm) | 330 | 353 | 284 | 119 | 325 | 481 | 314 | 176 | 1 295 | 469 | 498 | 378 |

¹⁾ Includes certain effects of the acquisition such as increased depreciation and amortization following fair value adjustments related to long-lived assets. Estimate increased depreciation of around MNOK 300 per annum for Extruded Solutions vs "old Sapa".

Investor Relations in Hydro

Next events

Fourth quarter results February 7, 2020

For more information see www.hydro.com/ir



Stian Hasle

Head of Investor Relations

t: +47 97736022

e: stian.hasle@hydro.com



Olena Lepikhina

Investor Relations Officer

t: +47 96853035

e: olena.lepikhina@hydro.com



Aud Helen Halvorsen

Investor Relations Assistant

t: +47 95182741

e: aud.helen.halvorsen@hydro.com



We are aluminium

