

Capital Markets Day

November 27, 2014



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Cautionary note in relation to certain forward-looking statements

Certain statements included within this announcement contain forward-looking information, including, without limitation, those relating to (a) forecasts, projections and estimates, (b) statements of management's plans, objectives and strategies for Hydro, such as planned expansions, investments 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, as well as (i) statements preceded by "expected", "scheduled", "targeted", "planned", "proposed", "intended" or similar statements.

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 aluminium business; 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.

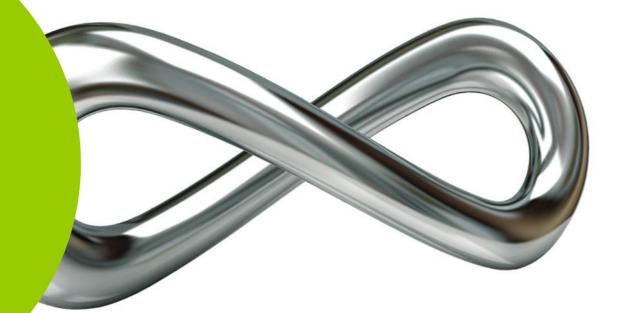




Lifting performance, creating value in tight markets

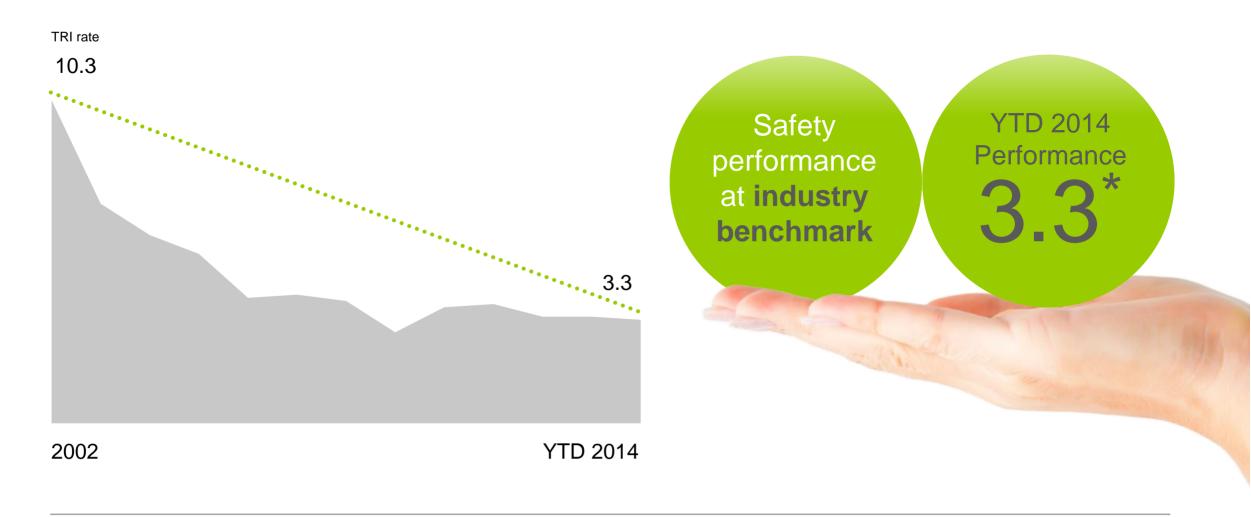
Svein Richard Brandtzæg

Capital Markets Day 2014



Better Bigger Greener

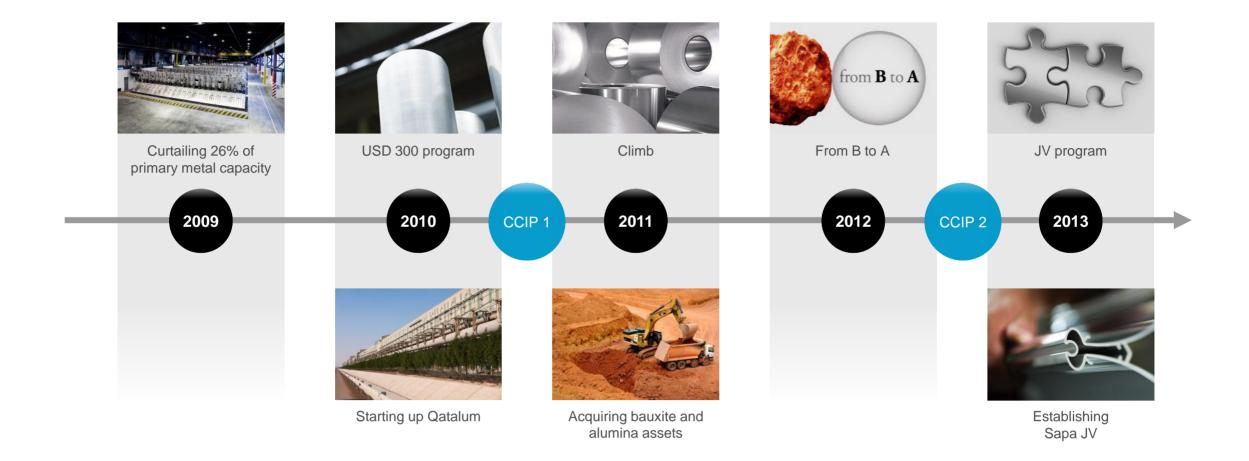
HSE, CSR and compliance – integral parts of our business



^{*} By end-October 2014

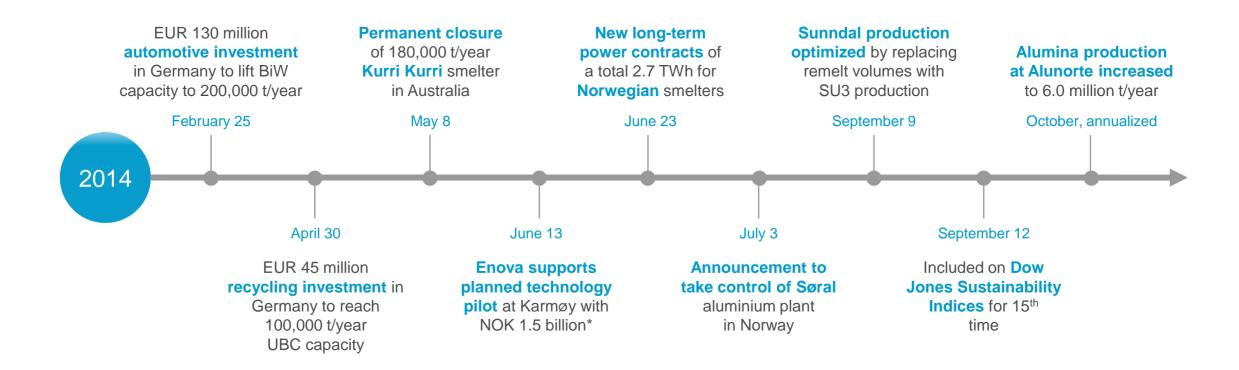


Our agenda for value creation





Hydro continues on set direction during 2014



BiW = Body-in-White

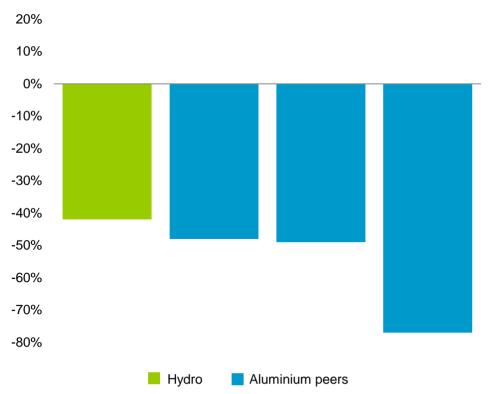


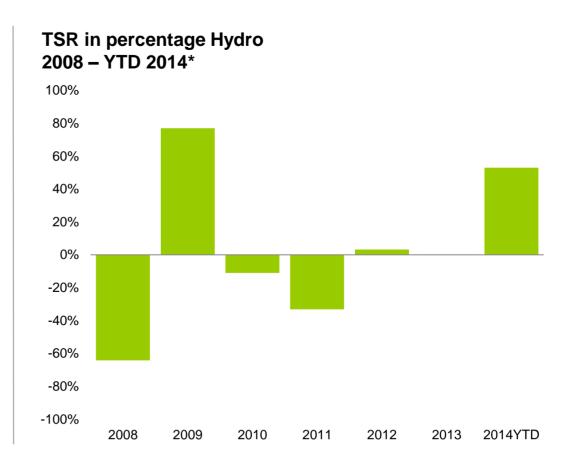
^{*} Pending ESA approval. Building of the technology pilot is pending several factors, including sufficient strength in regional grid, long-term competitive power contract, and market conditions for aluminium must indicate a satisfactory profitability outlook.

Recent positive developments, following unsatisfactory low-cycle returns

Reflecting developments in underlying market fundamentals

TSR in percentage Hydro and Peers 2008 - YTD2014 (Including financial crisis of 2008)*





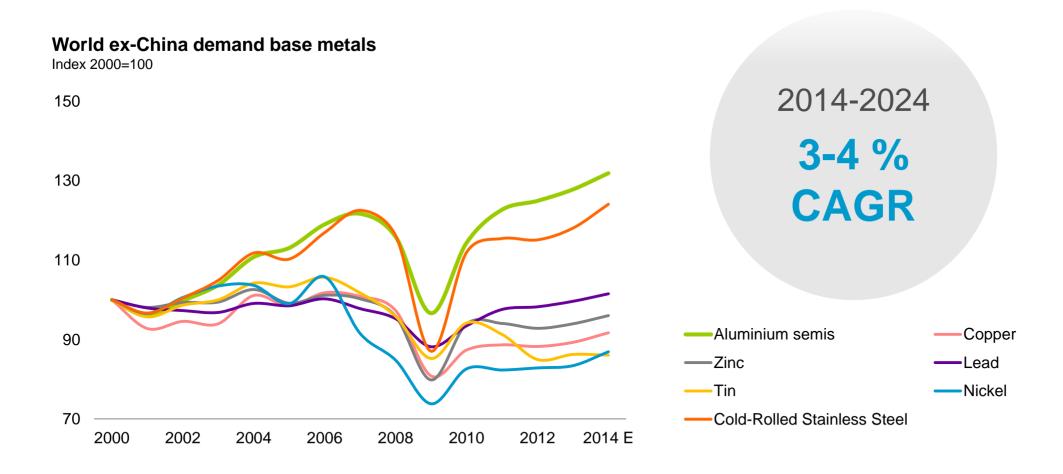


Improving markets





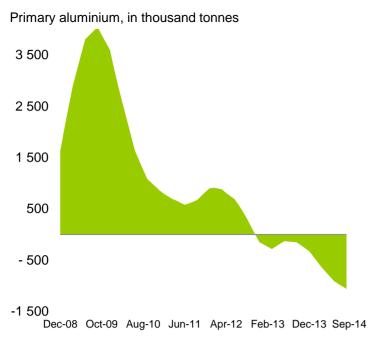
Aluminium demand expectations remain healthy





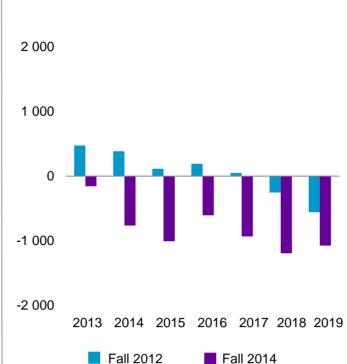
Inventory reductions driven by primary curtailments

Production less demand world ex-China Quarterly annualized*



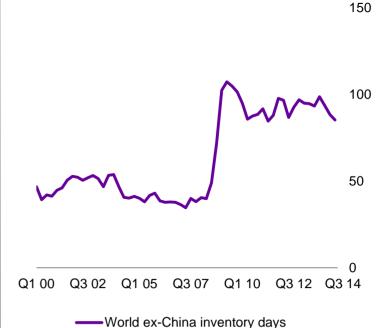
Supply/demand world ex-China**

Primary aluminium, in thousand tonnes



Inventory days

World ex-China reported primary aluminium inventories



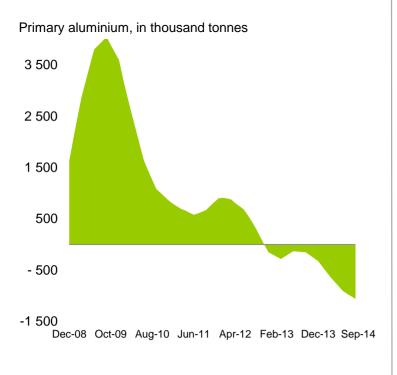
Source: CRU/Hydro



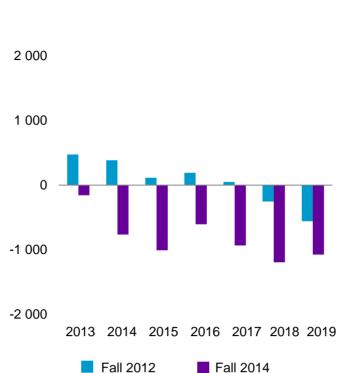
^{*12} month rolling average ** CRU estimates

Inventory reductions driven by primary curtailments

Production less demand world ex-China Quarterly annualized*

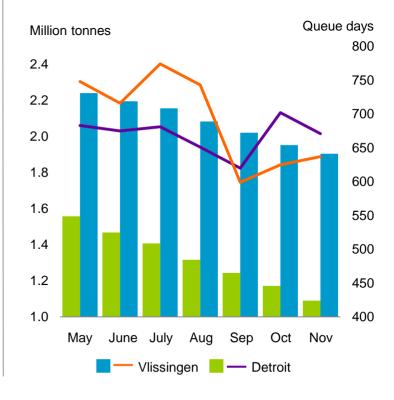


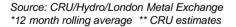
Supply/demand world ex-China** Primary aluminium, in thousand tonnes



Total stock levels in 2014

Detroit and Vlissingen

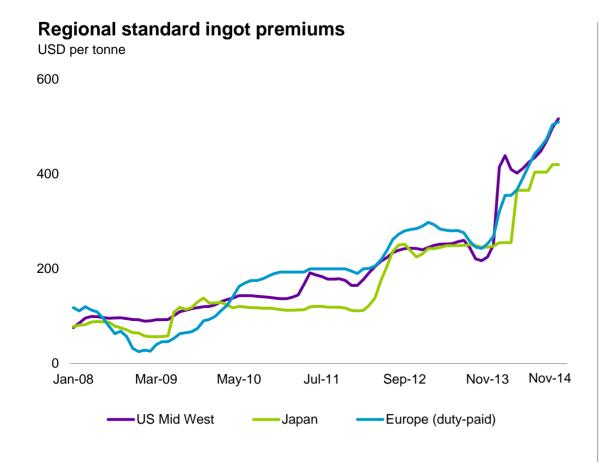


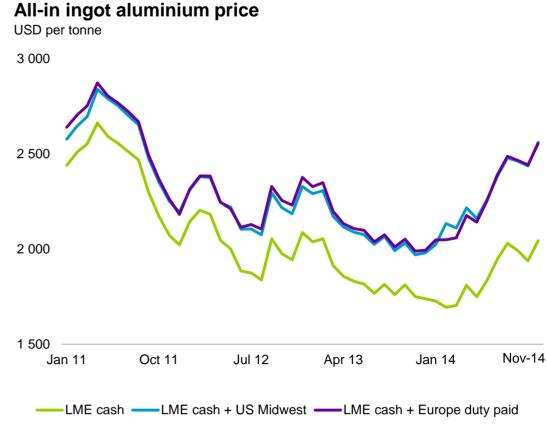




All-in price of aluminium in upward trend

All-in ingot price exceeds USD 2 500/tonne as premiums continue to rise to new records



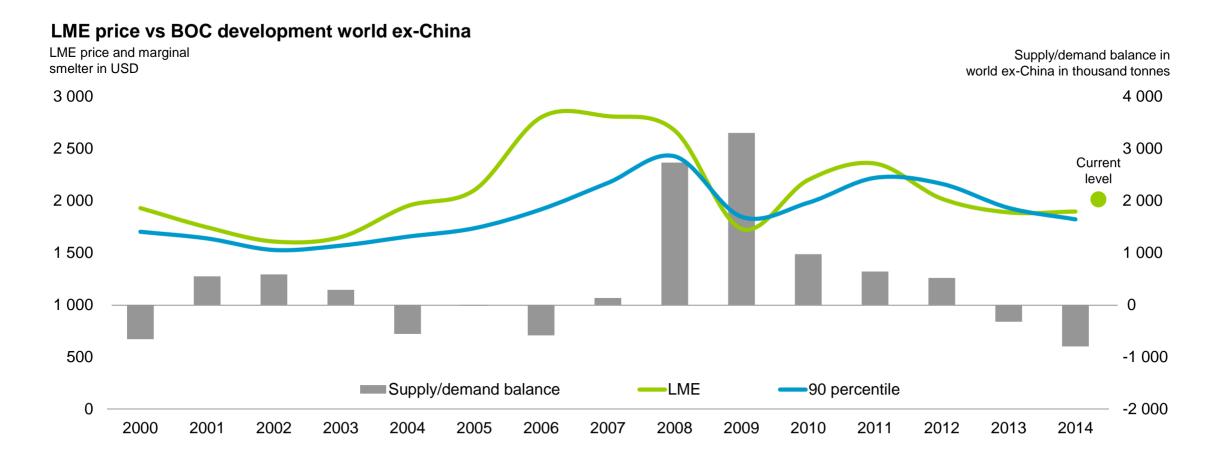


Source: Metal Bulletin, MW/MJP: Platts



Market balance indicates pricing above 90th percentile on the cost curve

High inventories separates current period from earlier periods where demand exceeded production





*BOC = Business Operating Costs



The world around us

Main external drivers for aluminium and Hydro





The main approaches within the global aluminium industry



Shareholder return



Monetizing energy



Resource re-valuation



China



Hydro's aspiration for higher value creation



Better Bigger Greener



Better

Bigger Greener

- Continue improvements drive
- Capture commercial opportunities
- · Extend technology and innovation lead

- Further strengthen relative industry position
- Enhance market positions and high-grade portfolio
- Mature selective growth projects for when time is right

- Turn leading HSE/CSR position into competitive advantage
- · Deliver on fast-developing customer demands
- Capitalize on strong climate position over time



Better



Strengthening our performance by improving the way we work









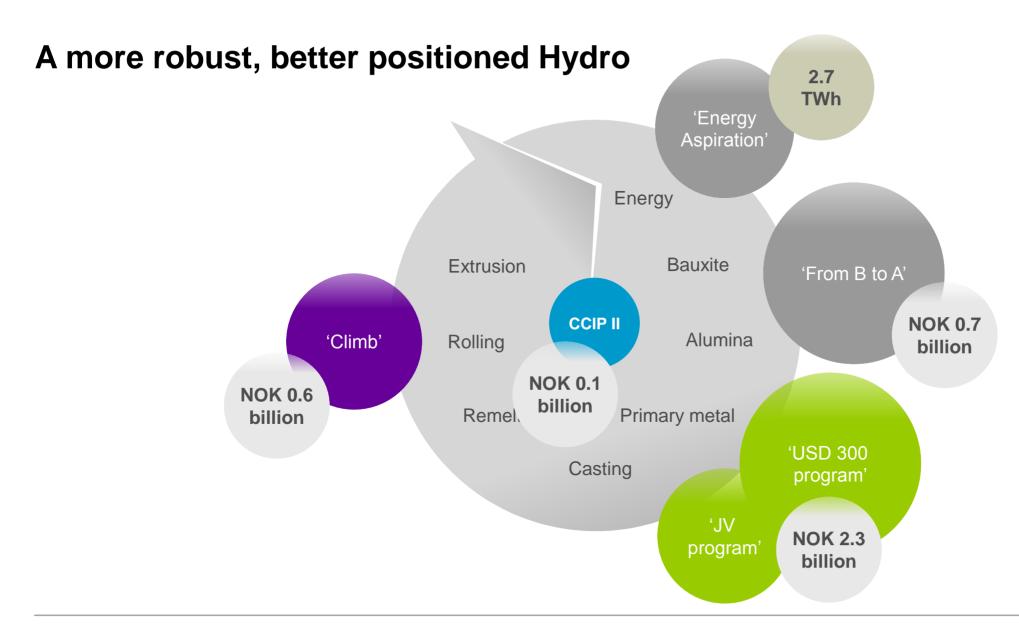






People and competence







Energy: Realizing full potential of strong asset base and competencies

Further improve earnings from energy asset management and commercial activities



- Increase value creation based on "new normal" equity production of 10 TWh per year
- Further improve operational performance
- Capture full value potential of unique industry combination of operational and commercial competence (consumer and producer)
- Increase utilization of global energy sourcing competence to provide stronger support to Hydro's other business areas



Bauxite and Alumina: Lifting production, reducing costs

Aiming to seize value from fundamental pricing and tightening markets

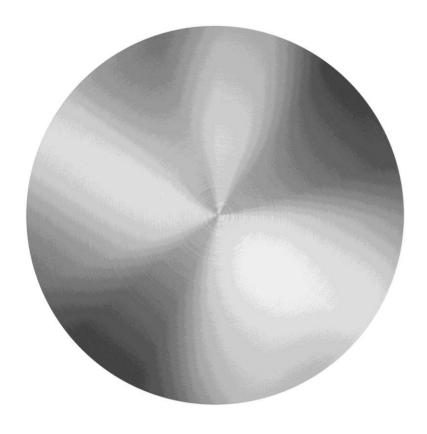


- Reach nameplate capacity for Paragominas bauxite and Alunorte alumina production (9.9 and 6.3 million tonnes/yr)
- Further reduce costs and increase efficiency
- Expand alumina volumes sold on index to capture more of upside potential from pricing on own fundamentals
- Continue commercialization of bauxite sales



Primary Metal: Capitalizing on operational improvements

Increasing efforts to capture high-premium markets



- Utilize improvement momentum to further reduce cost position of smelter portfolio
- Continue to target high-premium segments, aiming to deliver increased value over standard ingot
- Capture more value from metal markets through quality, reliability and customer satisfaction
 - Build on top primary foundry alloys (PFA) position in Asia ex China and strengthen market platform in the Americas
 - Maintain customer satisfaction lead in Europe within extrusion ingot and PFA



Rolled Products: Meeting customer demands and expanding in attractive markets

Taking a bigger share in high-margin growth segments



- High-grading portfolio through margin management and portfolio adjustments
- Increase volumes and lift margins based on automotive lightweighting trend
- Utilize UBC* recycling investment to lower production costs
- Create customer value and competitiveness through innovation, quality and service



^{*} Used Beverage Can

Sapa: On track to deliver on ambitious NOK 1 billion restructuring program

Flexibility and capability to meet customer expectations



- Continue improvement efforts and realization of annual synergies through rightsizing portfolio
- Maintain No. 1 position in North America and Europe through unique network, R&D expertise, process capacity and strong customer focus
- Develop attractive positions in high-growth markets
- Capitalize on expectations of a continued strong US market, and respond to more challenging outlook for Europe and South America





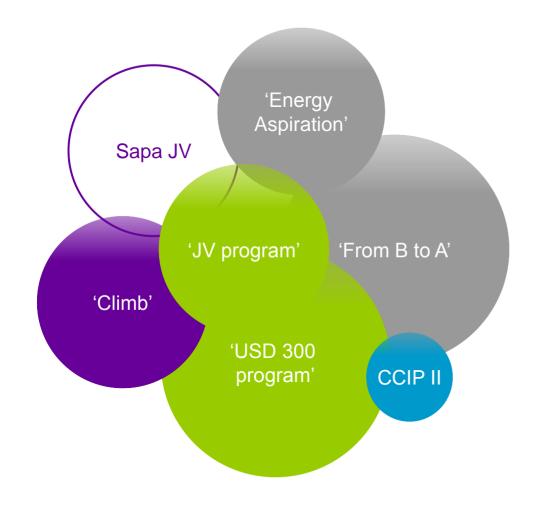
Company-wide focus areas to lift competitiveness and value creation

Competence, technology, product development and innovation





Hydro improvement drive continues at full pace



Total contribution from Hydro's improvement programs (excl. Sapa)

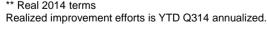
2011*-2014

BNOK 3.7

2015-2016**

BNOK 1.5

^{**} Real 2014 terms





^{*} USD 300 from 2009

Bigger



Aluminium – an increasingly important building block of modern society

Providing exciting commercial opportunities throughout the value chain



^{*} CRU, 2014; global estimates CAGR – Compound annual growth rate

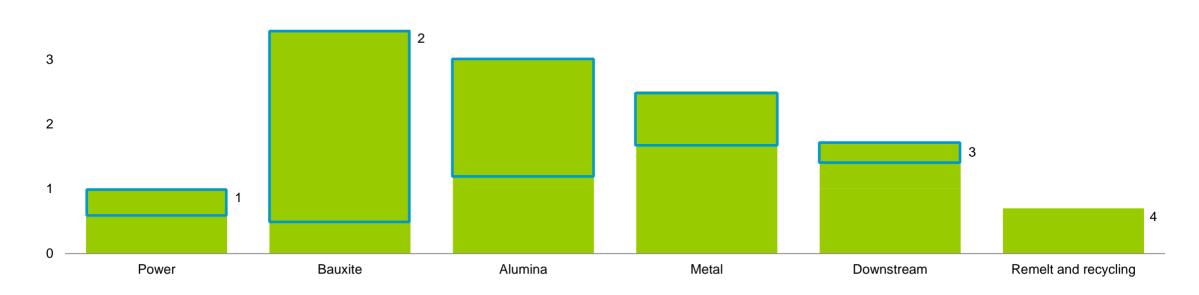


Low-cycle period utilized strategically to strengthen relative positions

Rectangles show changes since 2008, including Qatalum, Vale, Sapa JV and Husnes



Annual consolidated capacity in metal equivalents (million tonnes)



¹⁾ Gas plant Qatalum + new hydro power Noway

4



²⁾ Includes evergreen MRN

^{3) 50%} of Sapa (rectangle = delta volume)

⁴⁾ Includes stand-alone remelters and recycling of post-consumed scrap

Bigger: A solid platform for building an even stronger Hydro



Bauxite & Alumina

- Move beyond nameplate capacity
- Further improve bauxite positions
- Mature CAP project and Paragominas expansion for when time is right



Energy

- Mature captive growth opportunities
- Raise income potential from market operations
- Leverage value from Nordic power surplus



Primary Aluminium

- Enhance position in high-margin segments
- Realize 100,000 tonnes creep in fully-owned smelters
- Extend technology lead with Karmøy pilot plant
- Mature Qatalum 2 and Alouette expansion for when time is right



Rolled Products

- Expand automotive capacity to 200,000 t/yr by end-2016
- Increase recycling of postconsumed scrap above 250,000 t/year*
- Build positions and lift margins through technology leadership and innovation



^{*} Includes recycling ambition in Primary Metal

Greener



'Greener' captures Hydro's full sustainability agenda

Aiming to set new standards to support the value proposal from communities to customers



Climate change



Social projects



Environment



The industry's most ambitious climate strategy: Carbon-neutral by 2020

Supported by the three pillars of Hydro's technology strategy



Energy and primary production

Reduce emissions, increase efficiency



Aluminium in use

Maximize userphase benefits



'End-of-life'

Increase recycling, back to the loop





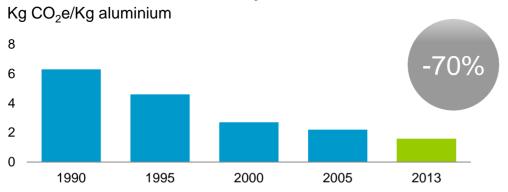




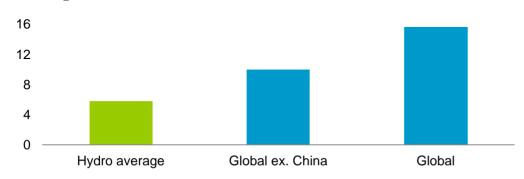
Climate as a competitive advantage

Will gradually grow stronger as the world moves to meet the climate challenge

Lower direct emissions in Hydro

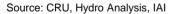


Hydro in leading industry position on CO₂ emissions Kg CO₂e/Kg aluminium







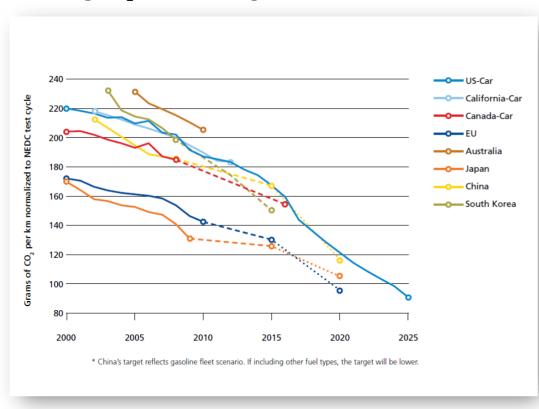




Lighter vehicles make a big impact on the climate challenge

Aluminium – part of the solution

Declining CO₂ emission targets around the world





Land Rover Sport 2010 3,100 kg

C0₂ emissions **327** g/100 km

For each
10% reduction
in vehicle weight,
car manufacturers
achieve fuel-savings
of 5-7%



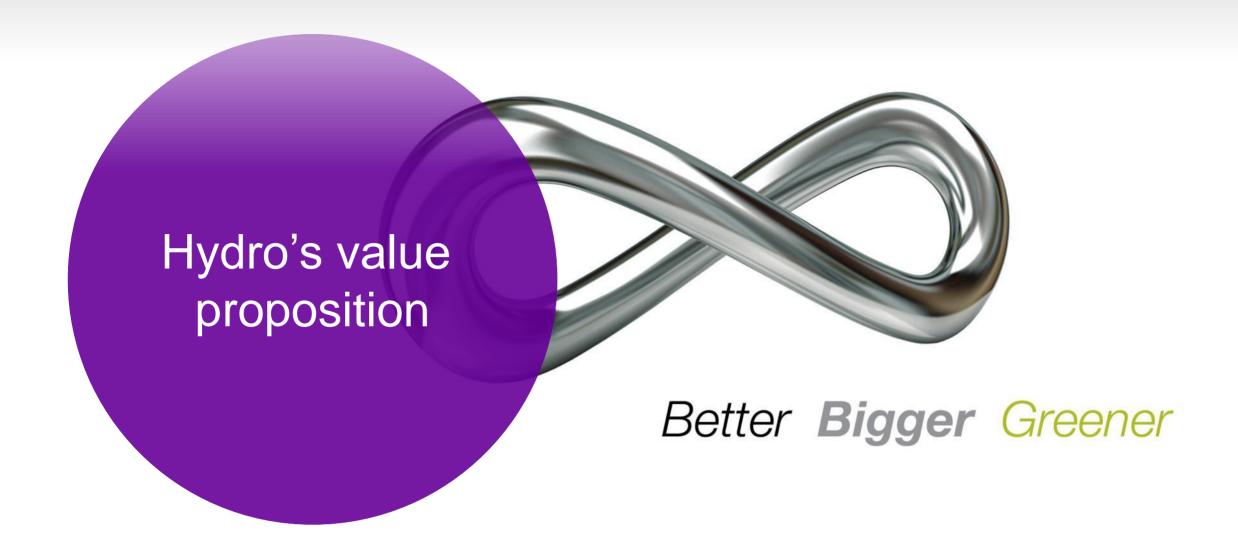
Land Rover Sport 2014

2,200 kg

C0₂ emissions **194** g/100 km







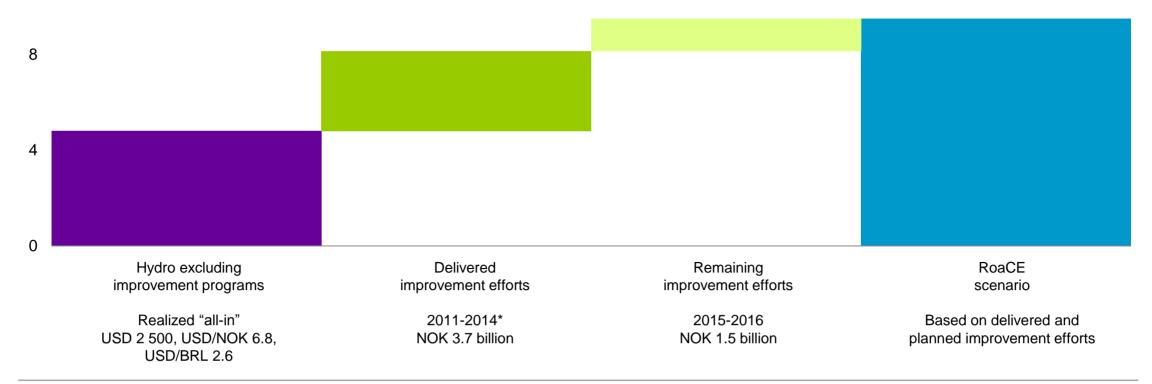


Hydro's roadmap towards sustainable profitability

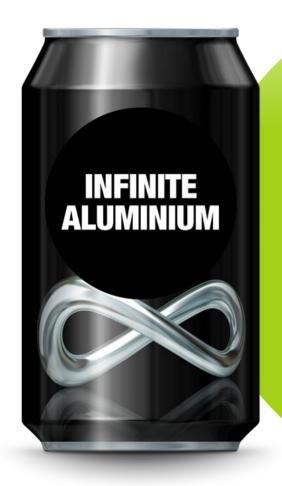
Solid contribution from improvement efforts

RoaCE (%)

12







Value creation in Hydro

Increase shareholder returns through

- Operational and commercial improvement drive
- High-grading and selective growth to improve relative industry position
- Lower energy consumption and footprint to strengthen future competitive climate advantage





Finance

Eivind Kallevik

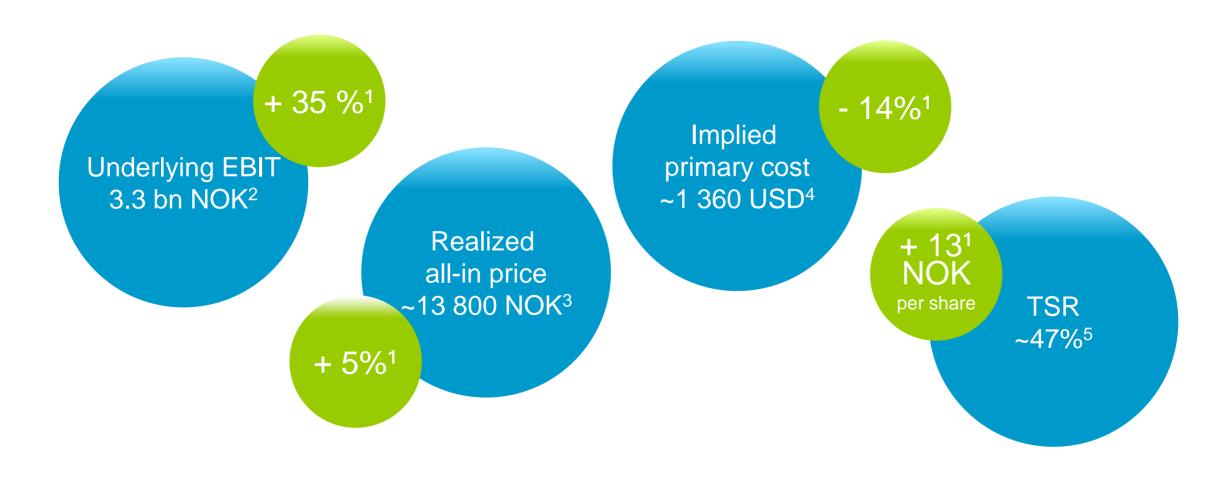
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Financial highlights



¹⁾ Q4 2013 - Q3 2014 compared to Q4 2012 - Q3 2013



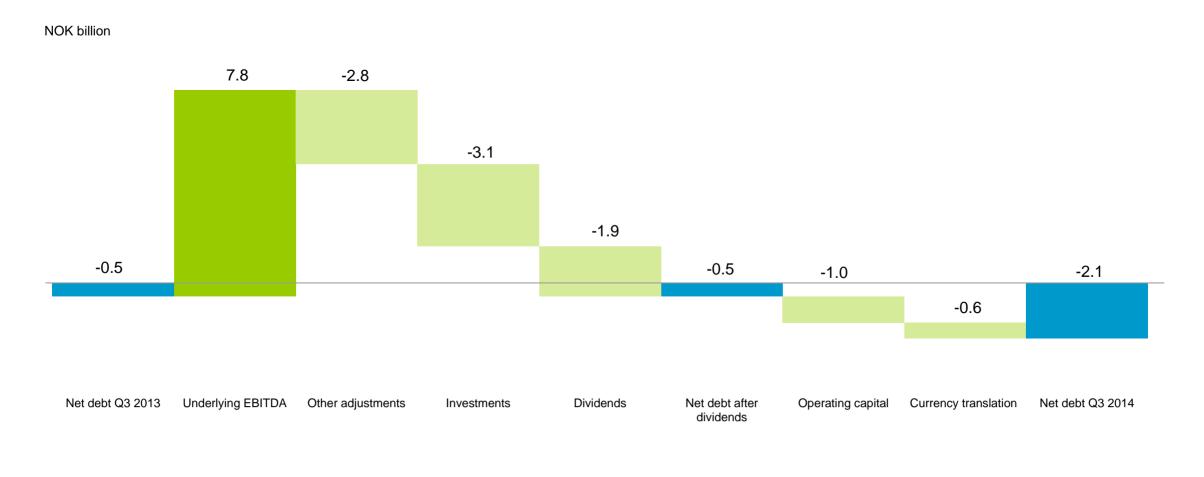
²⁾ Underlying EBIT. Sum 12 months rolling Q4 2013 - Q3 2014

³⁾ Realized aluminium price + realized premium above LME. Average 12 months rolling Q4 2013 - Q3 2014

⁴⁾ Implied primary cost. Average 12 months rolling Q4 2013 – Q3 2014. Implied cost developments including premiums: - 6%

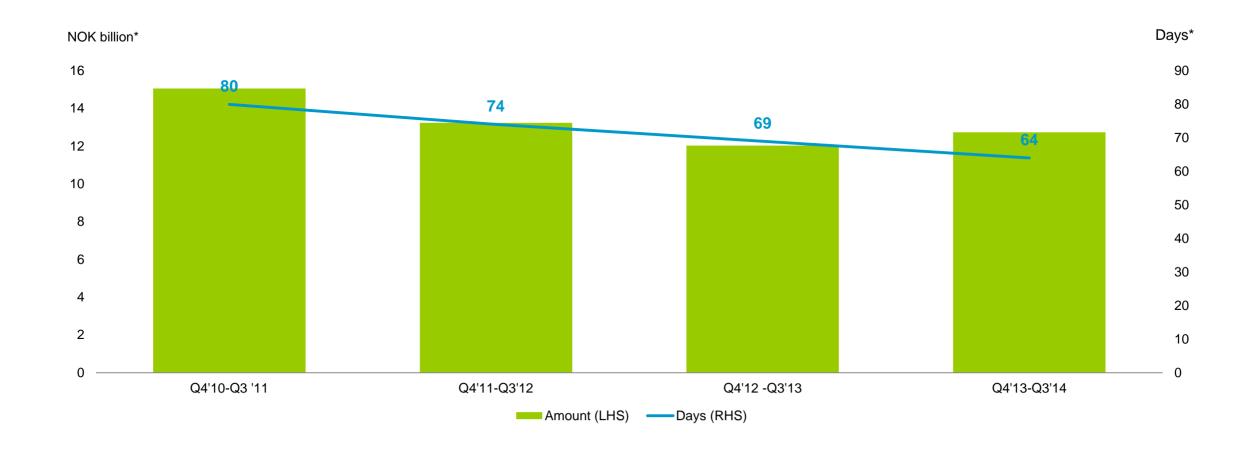
⁵⁾ Hydro share priced development + dividend paid. Sum 12 months rolling Q4 2013 - Q3 2014

Cash neutral after dividend at realized all-in price ~2 300 USD/mt





Continued decline in operating capital days

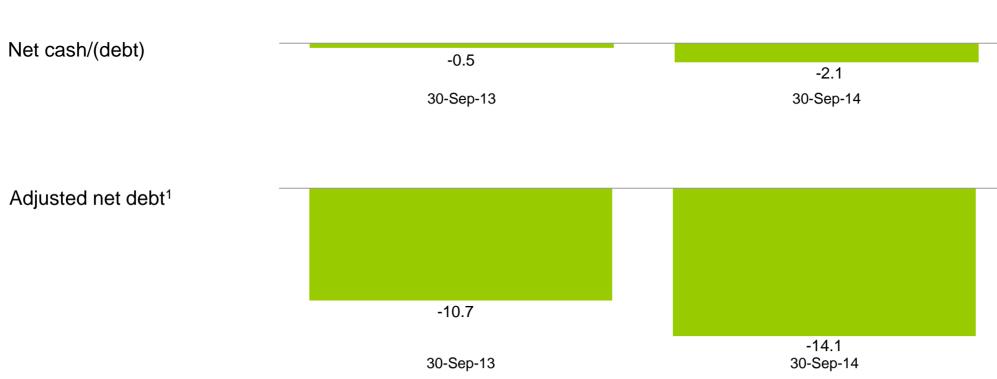




^{*} Pro-forma, excluding extruded products for Q4 2010 – Q3 2013 LHS = left hand side. RHS = right hand side

Maintain solid financial position







¹⁾ Net pension liability, operating lease commitments and other. Hydro's share of EAI net debt from Qatalum and Sapa not included.



Understanding Hydro's earning drivers



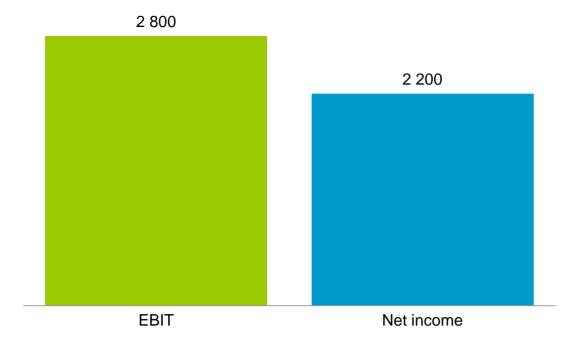
- Starting point and assumptions
- Simplified models
- Negative correlations
- Complexity



Hydro price and currency sensitivities

Aluminium price sensitivity +10%*

NOK million



Currency sensitivities +10%*

NOK million	EBIT	Financial items
USD	2 800	-1 100
BRL	-850	700
EUR	-300	-1 000

- Annual sensitivities based on normal annual business volumes, LME USD 1 900 per mt, Oil USD 550 per mt, petroleum coke USD 400 per mt, caustic soda USD 300 per mt, coal USD 70 per mt, NOK/USD 6.30, NOK/BRL 2.80, NOK/EUR 8.30
- Aluminium price sensitivity is net of aluminium price indexed costs and excluding unrealized effects related to operational hedging
- Excludes effects of priced contracts in currencies different from underlying currency exposure (transaction exposure)
- Currency sensitivity on financial items includes effects from intercompany positions
- 2015 Platts alumina index (PAX) exposure used

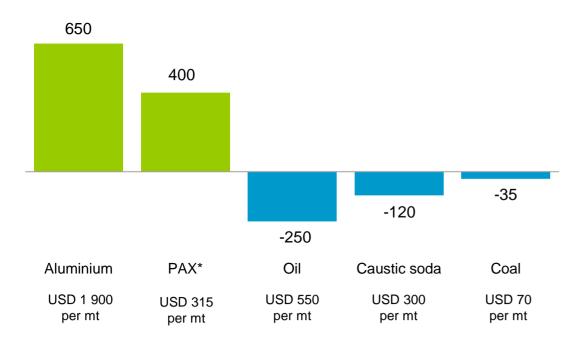


^{*} Excluding Sapa JV

Bauxite & Alumina sensitivities

Sensitivities on underlying EBIT if +10% in price

NOK million



Revenue impact

- ~14.3% of 3-month LME price per tonne alumina
 - ~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 for bauxite from MRN

Caustic soda

- ~0.1 tonnes per tonne alumina
- Prices based on average of CMAI and Harriman US, pricing quarterly or per shipment

Energy

- ~0.11 tonnes coal per tonne alumina, one year contracts
- ~0.11 tonnes heavy fuel oil per tonne alumina, market prices
- Increased use of coal as energy source in Alunorte

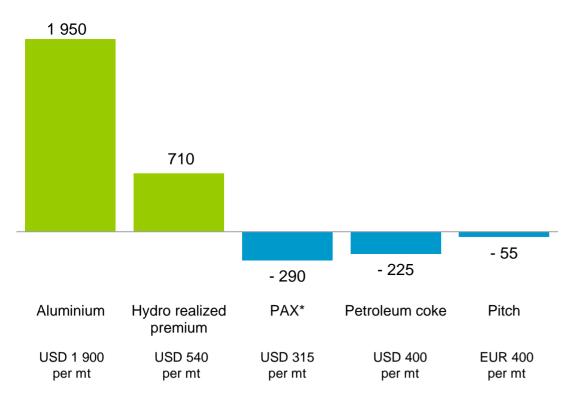
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^{* 2015} Platts alumina index exposure Currency rates used: NOK/USD 6.30, NOK/BRL 2.80, NOK/EUR 8.30

Primary Metal sensitivities

Sensitivities on underlying EBIT if +10% in price





Revenue impact

- Realized price lags LME spot by ~1-2 months
- Realized premium lags market premium by ~2-4 months

Cost impact

Alumina

- ~1.9 tonnes per tonne aluminium
- ~14.3% of 3-month LME price per tonne alumina, increasing volumes priced on Platts index
- ~Two months lag

Carbon

- ~0.35 tonnes petroleum coke per tonne aluminium
- Half yearly pricing
- ~0.08 tonnes pitch per tonne aluminium
- Quarterly pricing

Power

- 13.7 MWh per tonne aluminium
- Long-term power contracts with indexations

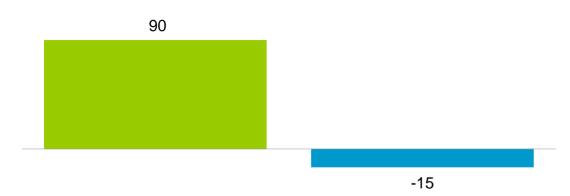


^{* 2015} Platts alumina index exposure Currency rates used: NOK/USD 6.30, NOK/BRL 2.80, NOK/EUR 8.30

Energy sensitivites

Sensitivities on underlying EBIT if +10% in price

NOK million



NO2/NO5 spot price NOK 250 per MWh NO2/NO5 to NO3 spread NOK 40 per MWh

Revenue impact

- NO2 and NO5 spot price for net spot sales
- Internal contract sales based on own production are priced on long term market based prices
- Internal contract sales based on externally sourced contracts are priced back to back

Cost impact

- NO2/NO5 to NO3 spot price spread
 - 3.5TWh annual NO3 exposure

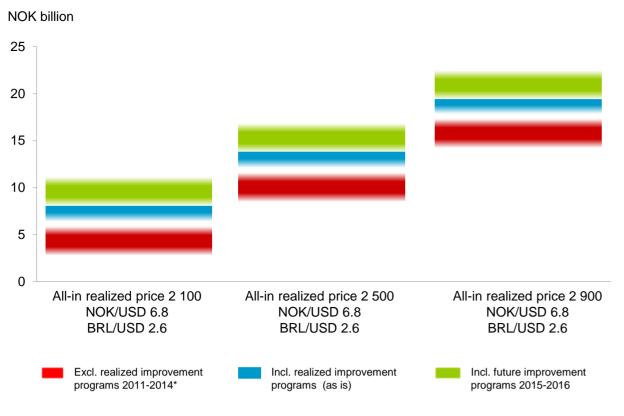


Currency rates used: NOK/USD 6.30, NOK/BRL 2.80, NOK/EUR 8.30

Annualized underlying EBITDA scenarios

Scenarios are not forecasts, but represent earnings potential based on sensitivities

Indicative EBITDA-range in 3 scenarios



Additional factors influencing earnings

- Production volumes
- · Alumina index prices
- · Energy prices
- Downstream margin developments
- · Raw material cost development
- Premiums
- ICMS
- Inflation
- Currency
- Other

EBITDA scenarios comparable to Operational Cash flow scenarios when adjusting for taxes and working capital





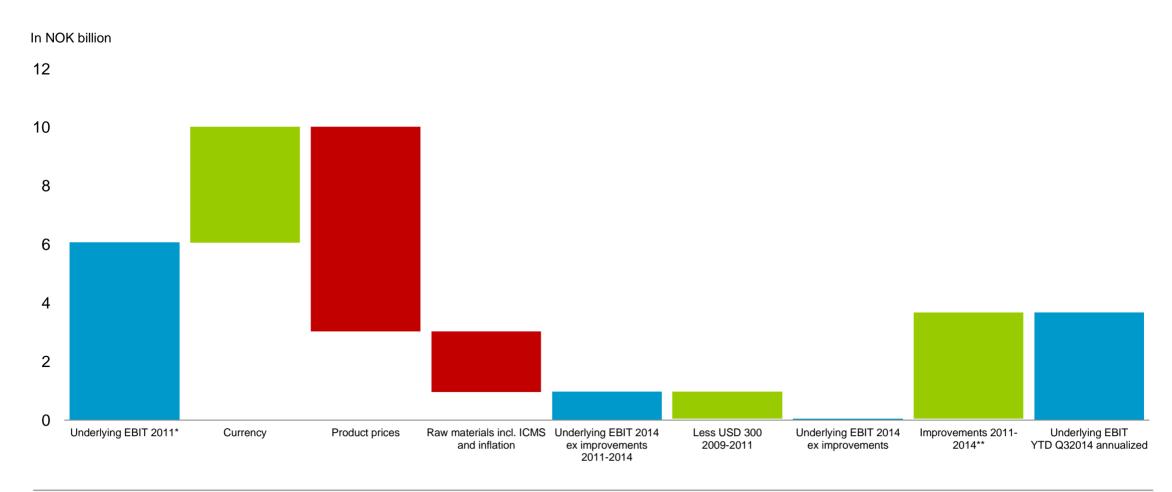
Priorities for capital allocation



- Aim for competitive return to shareholders
- Maintain a solid balance sheet
- Pursue disciplined and selective growth



Improving the potential for competitive returns



^{*}Hydro Underlying EBIT excluding Extruded Products.

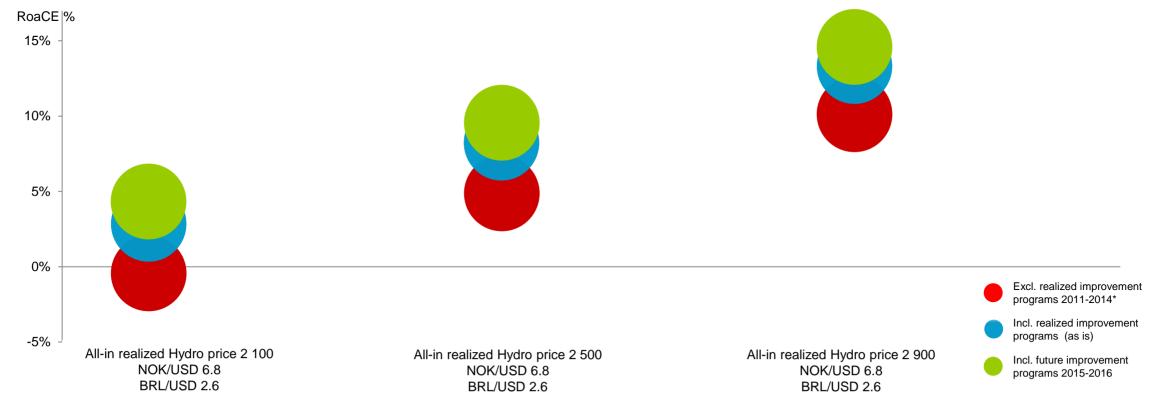


^{**}USD 300 included from 2009. Improvements exclude Sapa.

Lifting the potential for competitive returns through improvement efforts

Scenarios are not forecasts, but represent earnings potential based on sensitivities

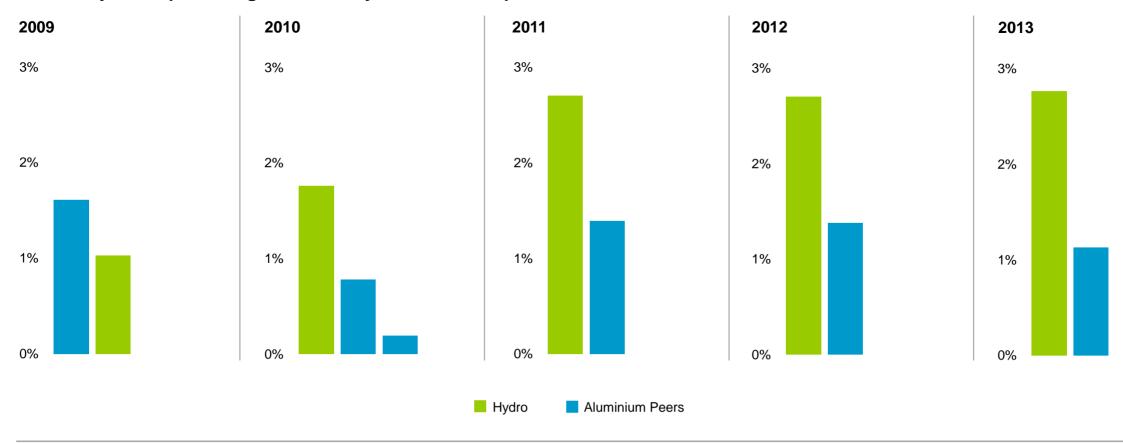
Indicative RoaCE-range in 3 scenarios





Competitive yield compared to aluminium peers

Dividend yield in percentage, based on year-end share-prices

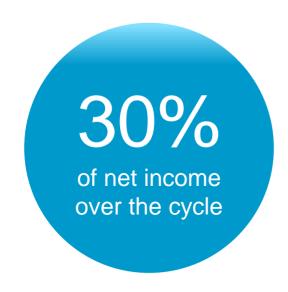


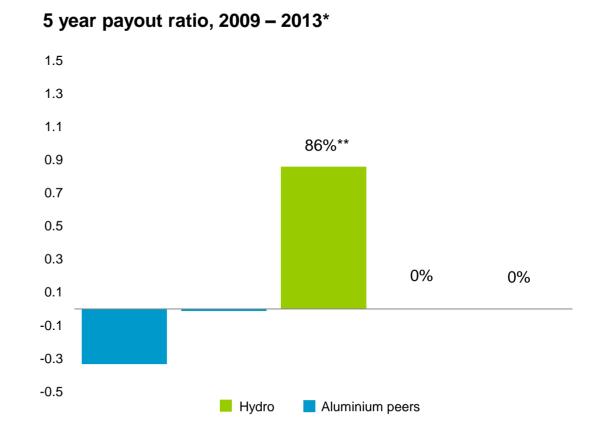
Source: Thomson Reuters



Aiming for stable and competitive cash return to shareholders

- Average 86% 2009-2013
- Share buybacks and extraordinary dividends considered when earnings, liquidity position and capital structure allow







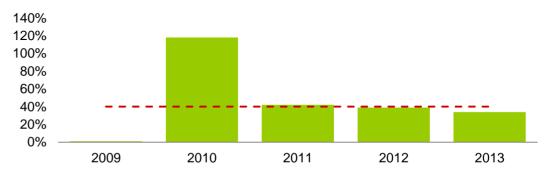
^{*} Dividend paid divided by EPS from continuing operations

^{**}Including Alunorte revaluation gain Source: Thomson Reuters

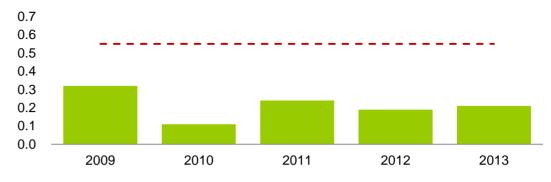
Maintain a solid balance sheet

- Maintain investment-grade rating
 - Currently: BBB (S&P), Baa2 (Moody's), both with stable outlook
 - Competitive access to capital important for Hydro's business model
- Financial ratio ambitions over business cycle
 - Funds from operations to net adjusted debt > 40%
 - Net adjusted debt to equity < 0.55
- Funds from operations determined balance sheet structure over the last years
- Strong liquidity
 - NOK 6.0 billion in cash and cash equivalents by end-Q3 2014
 - USD 1.7 billion credit facility with maturity 2019*, currently undrawn

Adjusted funds from operations / Adjusted net interest-bearing debt



Adjusted net interest-bearing debt to adjusted equity ratio

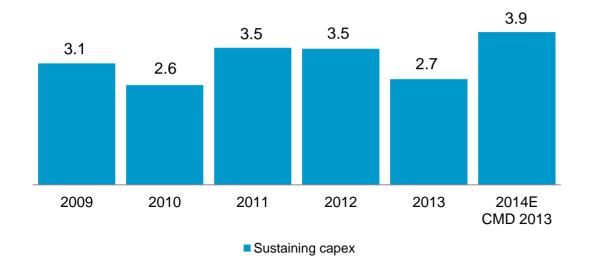




^{*} Potential to extend through one year extension option

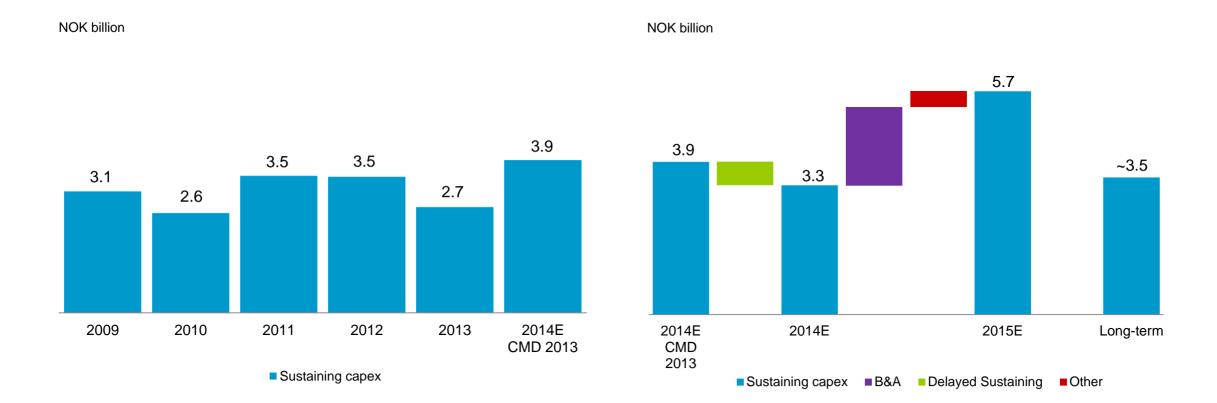
Long-term sustaining capex NOK ~3.5 billion

NOK billion





Long-term sustaining capex NOK ~3.5 billion





High-grading portfolio through 2015

Clervaux remelter to get a significant upgrade

(February 18, 2014) Hydro will revamp the Cleryaux aluminium recycling and remelt plant in Luxembourg, resulting in considerable benefits for the climate and the bottom line.

Feb 25, 2014 Hydro boosts capacity for growth market in automotive products

> Norsk Hydro ASA will invest in a new production line at its rolled products plant in Grevenbroich, Germany, The new line will increase annual capacity for aluminium car body sheet to 200,000 metric tons.

Hydro adds new recycling line for aluminium April 30, 2014 beverage cans

> Hydro will build a new, integrated recycling line for used aluminium beverage cans at its Neuss plant in Germany. The line will be completed by end 2015, and increase the plant's existing annual recycling capacity of 50,000 tonnes to more than 100,000 tonnes.



Hydro to invest in advanced casting technology, targeting automotive industry

> Hydro has decided to invest in new casting technology for its sheet ingot casthouses in Høyanger and Årdal, Norway. The investment will enable the company to better serve customers in the automotive industry.

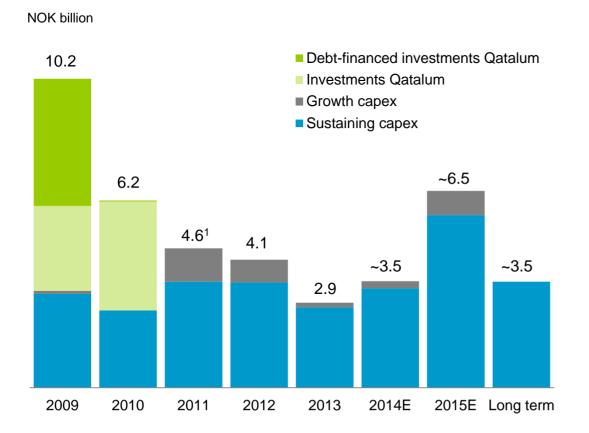


Energy to pursue new equity production with Midtlægre and Mannsberg

(October 23, 2014) Energy is pursuing two exciting new hydropower projects in Norway, aiming to add close to 30 GWh in total annual production and increase commercial flexibility by realizing the Midlægre project in the Røldal-Suldal power system and the planned Mannsberg project in the Tyin power system.



Majority of capital allocated upstream

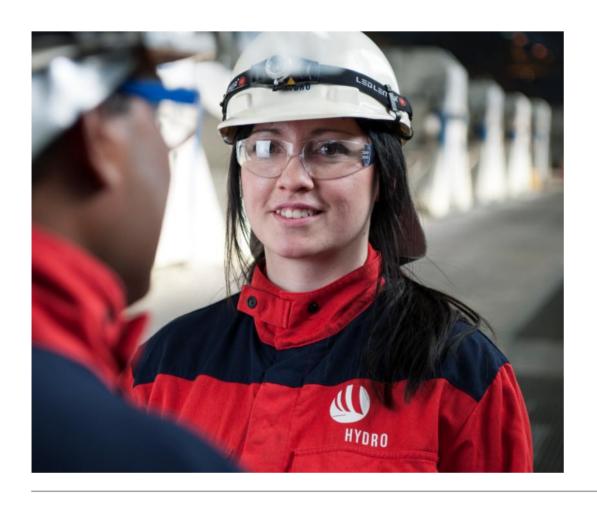


- Long-term sustaining capex NOK 3.5 billion annually
- Sustaining projects for 2014 2016:
 - Red mud disposal area
 - Bauxite tailing dam
 - Smelter relining
- Some growth projects impacting 2015
 - RP Automotive line
 - RP UBC Recycling line



¹⁾ Excluding Vale assets acquisition Excluding Extruded Products from 2013 onwards

Hedging policy



- Bauxite & Alumina, Primary Metal
 - Operational LME hedging
 - One-month forward sales
 - Currency exposure, mainly USD, NOK and BRL
 - Policy of maintaining long-term debt in USD
 - BRL hedged for 2014
- Metal Markets, Rolled Products
 - Operational LME and currency hedging to secure margin
- Volatility mitigated by strong balance sheet
- Flexibility to hedge LME or currency in certain cases





Consolidation of Hydro Husnes (Søral) & Aluchemie

- Transaction closed October 31
 - Full consolidation as of November 1 2014
- Proportional consolidation of Aluchemie anode factory
 - Hydro now owns 46.7%
- Combined effects of Husnes transaction
 - Increased sustaining capex
 - NOK ~100 million per year
 - Increased depreciation
 - NOK ~100 million per year

Husnes

- Annual capacity of 180 000 tonnes primary metal
 - Currently producing 90 000 tonnes
- 100% value added products
- Located on the west coast of Norway

Aluchemie

- Annual capacity of 500 000 tonnes anodes
- Joint venture with Rio Tinto Alcan
- Located in Rotterdam, Netherlands



Regulatory framework in Brazil



- Hydro aims to develop robust and viable operations in Pará with stable and predictable framework conditions
- Aluminium industry in Pará ICMS deferral to be revisited in July 2015
 - ICMS on fuel oil remains in place since February 2014
 ~BRL 60 million per quarter
 - Ongoing dialogue continues following elections
- Reintegra tax refund program reintroduced
 - Hydro receives refund of ~BRL 170 million per year on alumina and aluminium exports



Short-term update: Increasing all-in prices and higher B&A production



- Increasing all-in metal and alumina prices
- Weakening NOK and BRL
- Higher bauxite and alumina production
- Rolled products Q4 maintenance
- Lower NO2 power prices



Financial priorities

- Shareholder return
- Cash flow generation
- Continuous improvements
- Margin management
- Financial strength and flexibility



Better Bigger Greener





Market outlook

Arvid Moss Erik Fossum

Capital Markets Day 2014

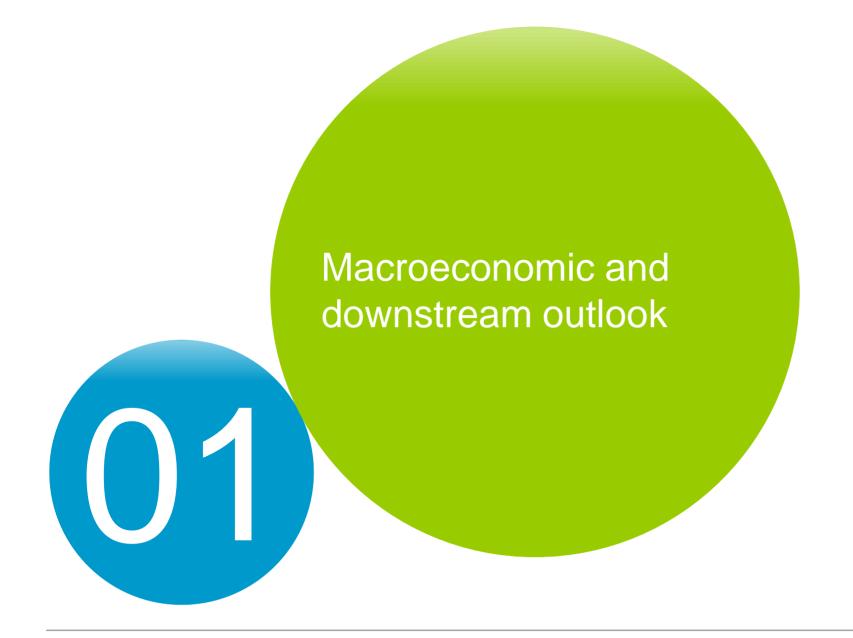


Agenda market outlook

- 1 Macroeconomic and downstream outlook
- 2 Primary supply/demand
- 3 Premium development
- 4 Bauxite and alumina market
- 5 China
- 6 Energy
- 7 Long-term outlook

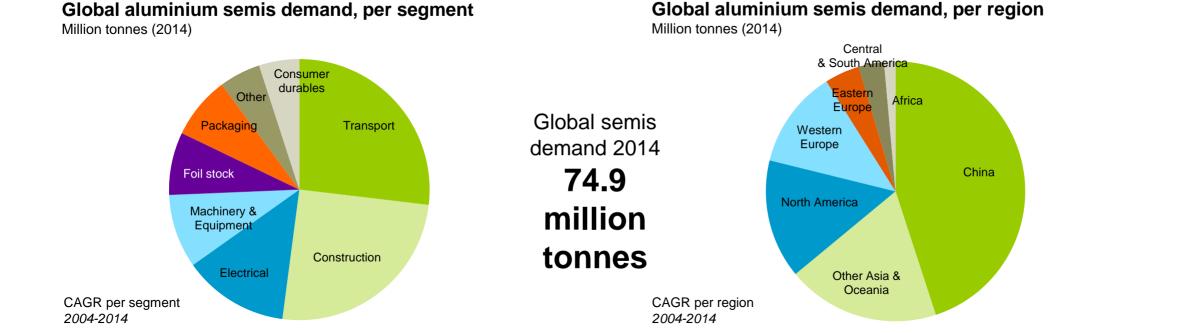








Broad-based aluminium demand growth across segments and regions



China

Africa

North America

■ Eastern Europe

16.7 %

~0 %

6.2 %

7.7 %

Other Asia & Oceania

■ Central & South America

Western Europe

7.6 %

5.6 %

3.3 %

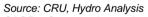
4.9 %

Construction

Packaging

Machinery & Equipment

■ Consumer durables



■Transport 5.2 %

■Foil stock 5.9 %

Electrical

Other

CAGR = Compound annual growth rate

8.0 %

4.3 %



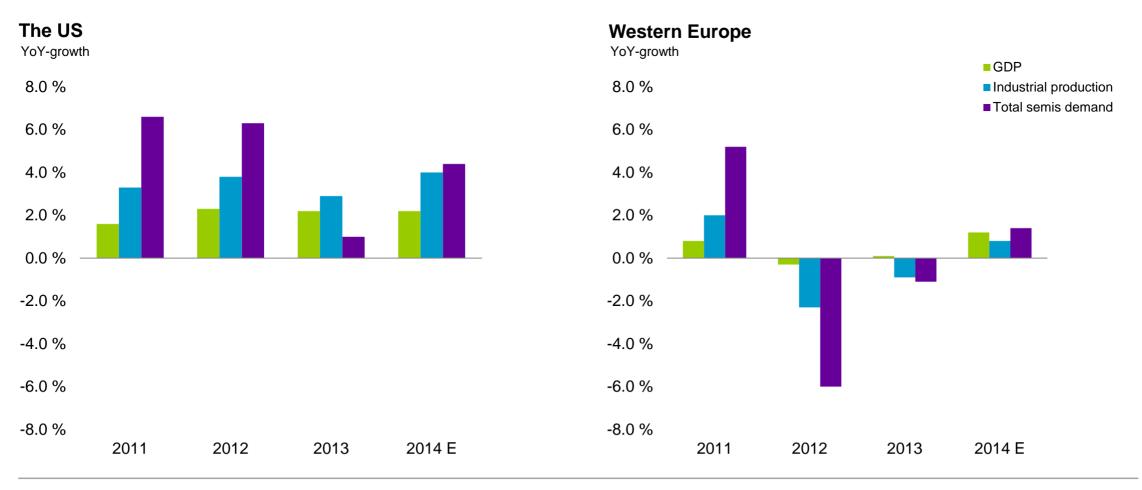
3.6 %

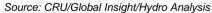
~0 %

7.6 %

Aluminium demand progressing in line with economic growth

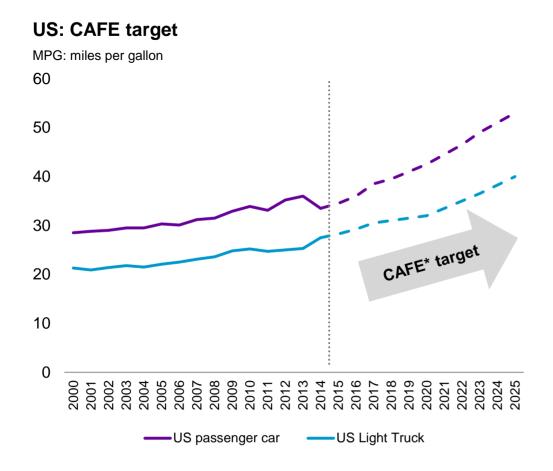
Economic activity and semis demand picking up in western economies

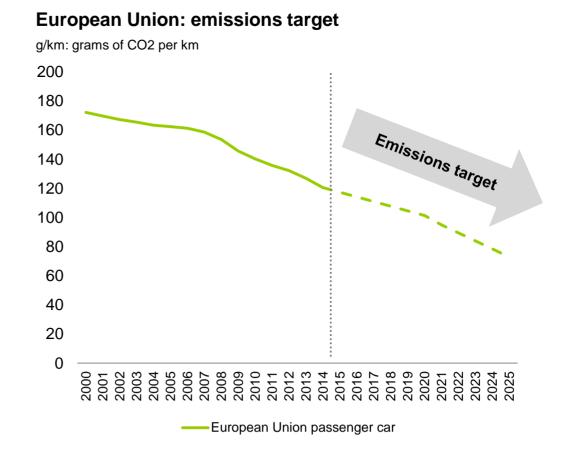






Legislation is key driver for growing intensity in auto segment



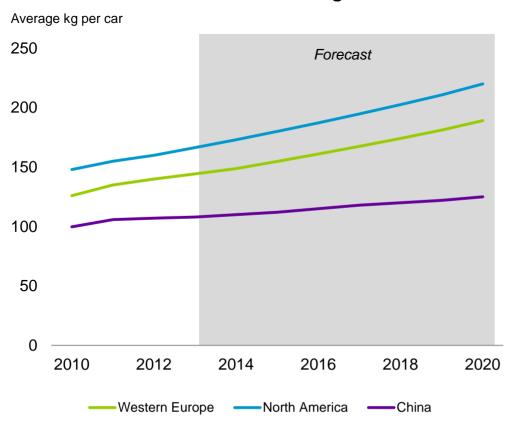




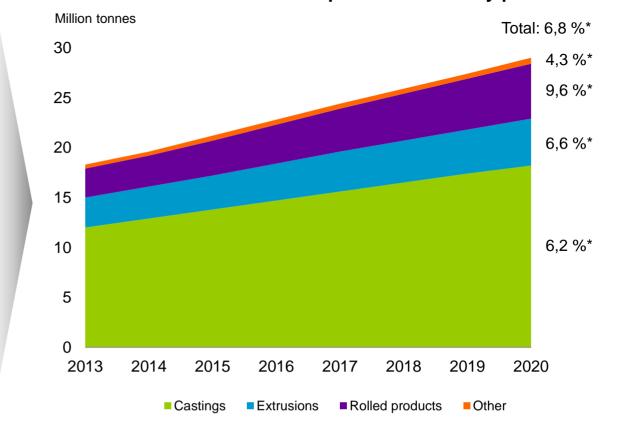
^{*}Corporate Average Fuel Economy (CAFE)

High growth in transport segment supported both by increasing aluminium usage per car and vehicle production volumes

Aluminium content in cars increasing



Global semis demand for transportation sector by product form



Source: CRU, Hydro Analysis, WoodMackenzie

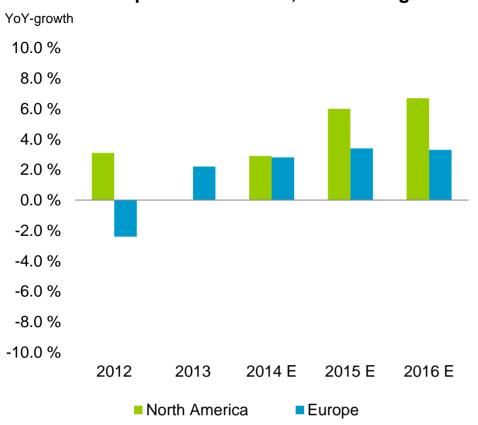
* CAGR per product form 2013-2020

CAGR – Compound annual growth rate



Rolled products segment much supported by transport sector, but also general improvements in other industrial segments

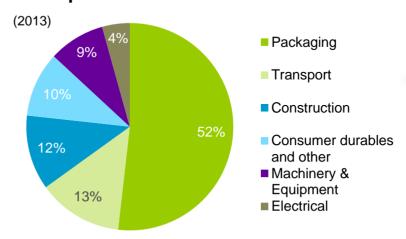
General rolled products demand, selected regions



Expected market development

- Strong demand contribution from increased aluminium usage in transport segment
- Healthy growth expected in packaging segment driven by end consumer packaging

Global segment composition, rolled products







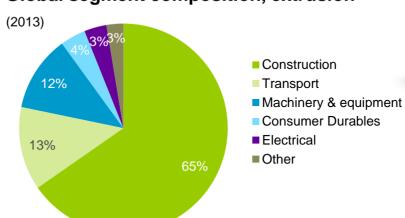
Extrusion outlook improving on the back of solid construction activity in the US and improvement from low levels in Europe

Extrusion demand, selected regions YoY-growth 10.0 % 8.0 % 6.0 % 4.0 % 2.0 % 0.0 % -2.0 % -4.0 % -6.0 % -8.0 % -10.0 % 2012 2013 2014 F 2015 F 2016 F North America Europe

Expected market development

- US housing market sustaining positive momentum
- Construction activity in peripheral Europe showing signs of recovering, although from low levels
- Growth in transport segment

Global segment composition, extrusion





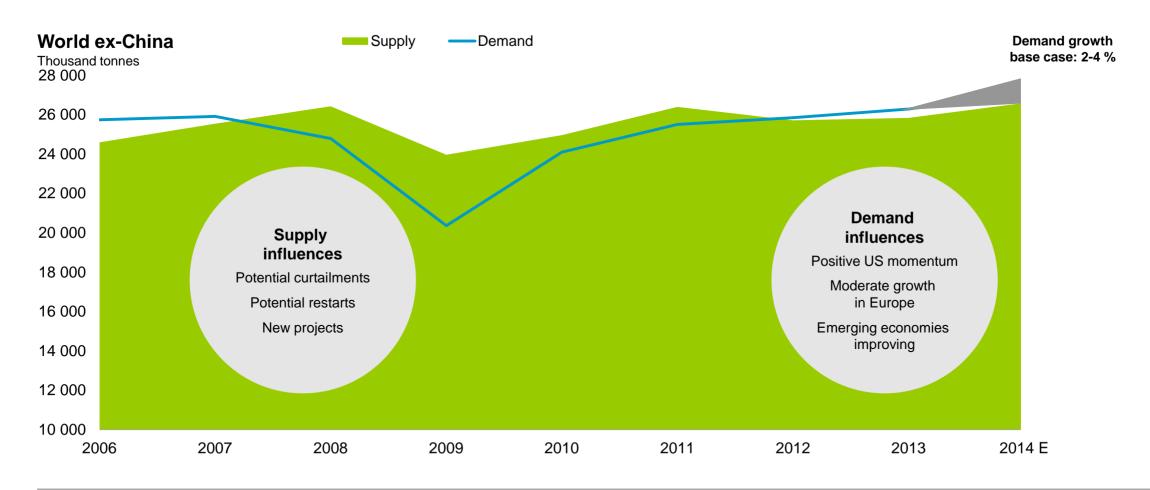






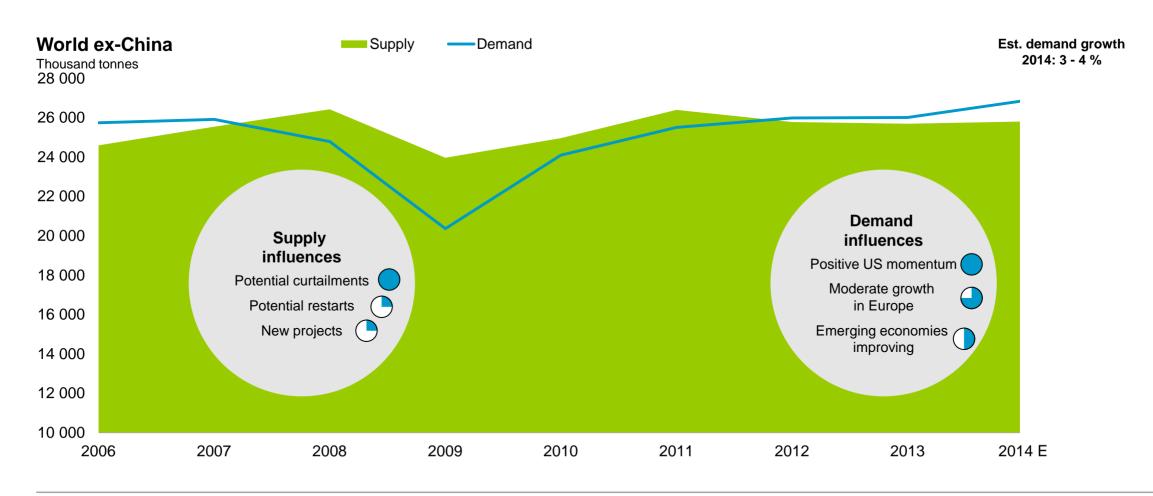
Recap Capital Markets Day 2013: Balanced outlook for 2014

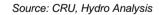
Possibility of modest inventory decline





Production curtailments and solid demand resulting in a market deficit for 2014







Happened to a limited extent

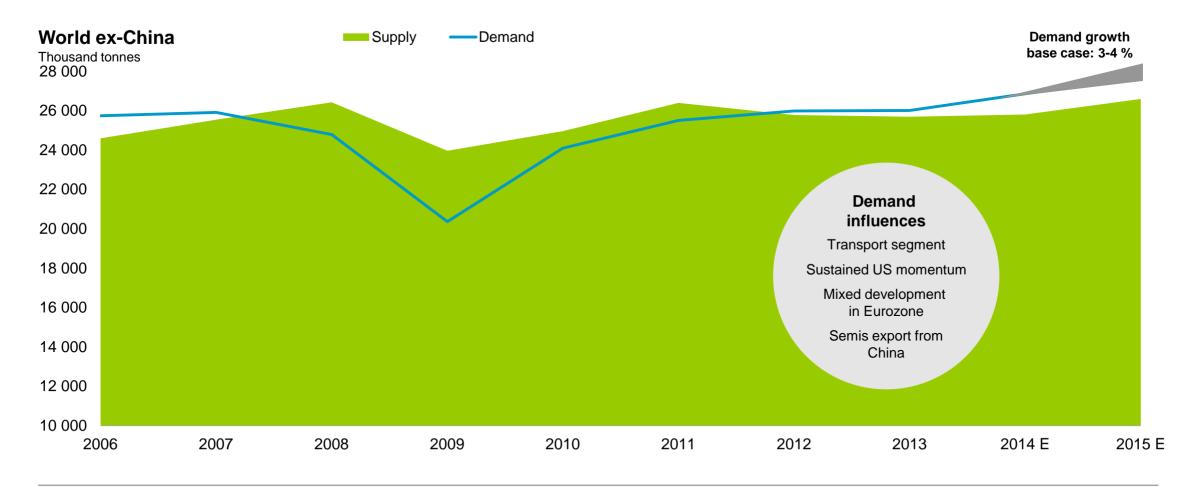


Happened to a large extent



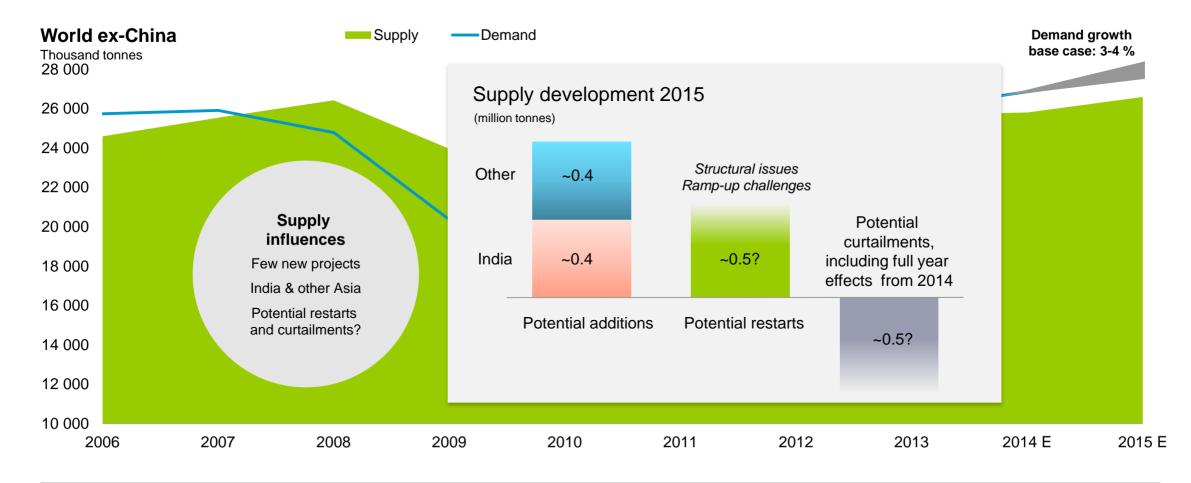
Expectations for modest inventory decline also in 2015

Tight market balance continuing





Supply growth next year mainly in Asian regions





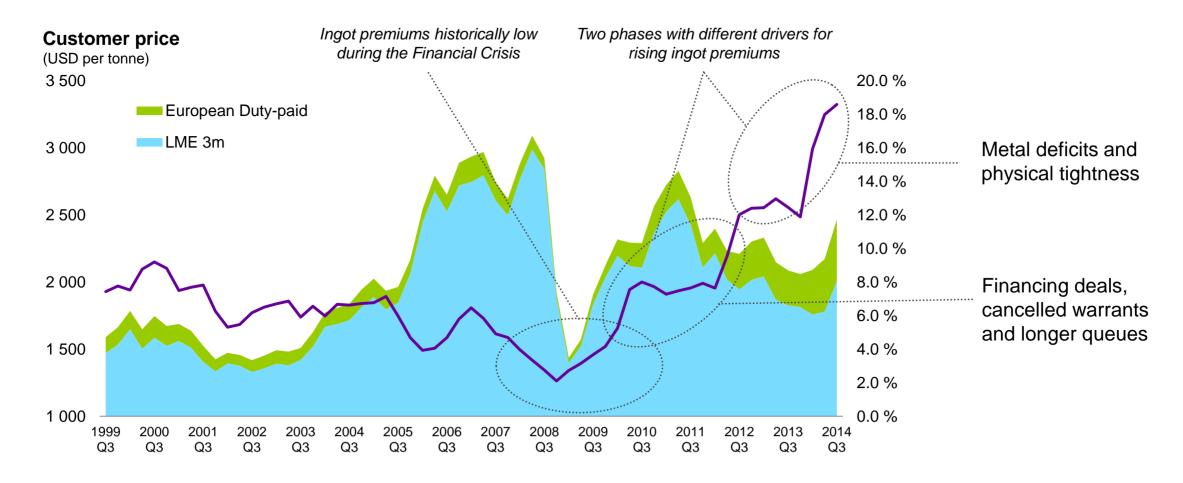
Premium development

Head of Commercial, Erik Fossum





Several factors have contributed to a steady rise in standard ingot premiums since the Financial crisis

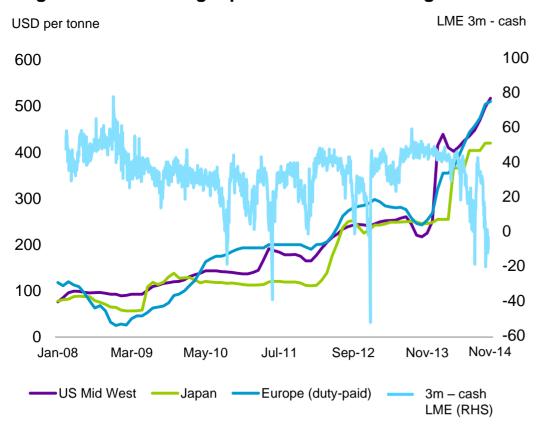




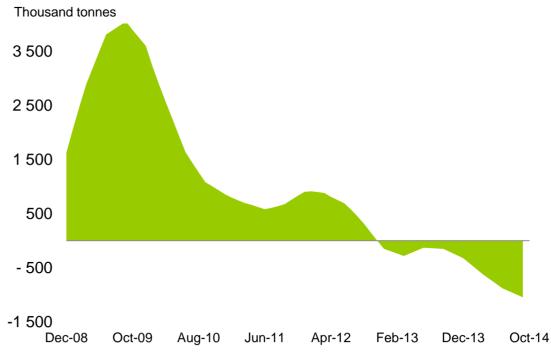


Solid ingot premium development amid metal tightness

Regional standard ingot premiums and contango



Production less demand, (quarterly annualized)* World ex-China Thousand tonnes

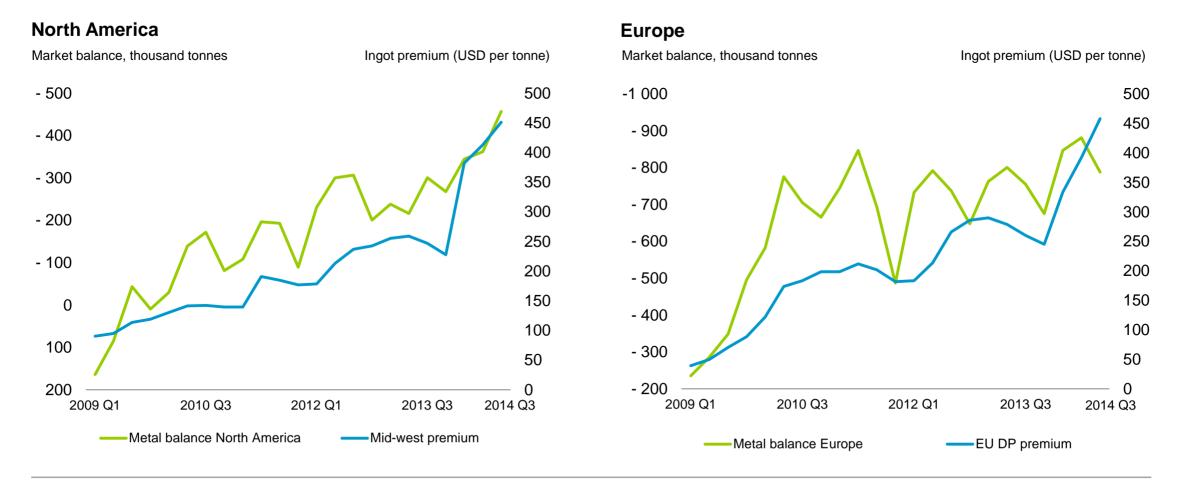


Source: Metal Bulletin, MW/MJP: Platts

Source: CRU/Hydro Analysis



Tighter metal balances amid smelter curtailments further underpinning rise in standard ingot premium levels

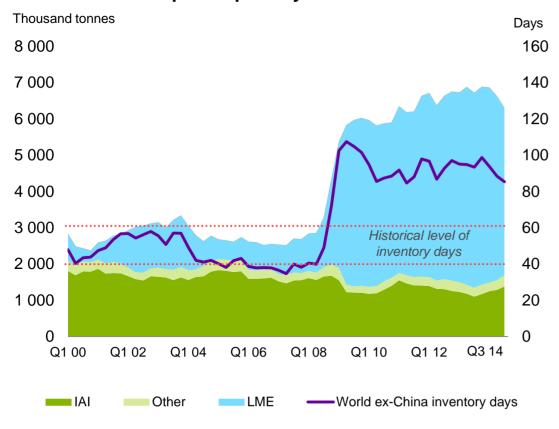






Declining stock levels, several warehouses already complying with suggested LME rules

World-ex China reported primary aluminium inventories



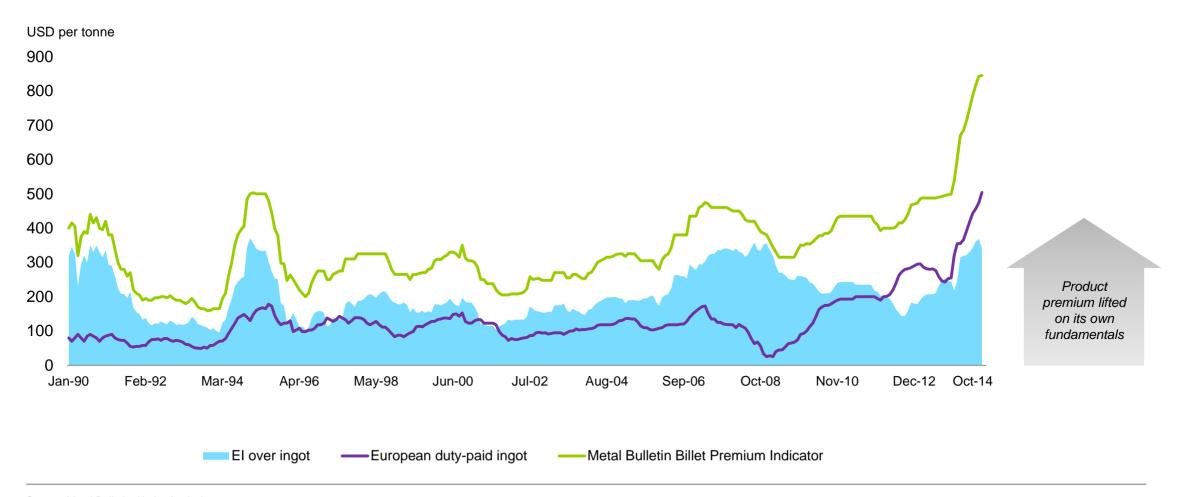
Stock levels selected warehouses



Warehouse	Gross load in 2014 YTD	Gross load out 2014 YTD	Load-out/ load-in
Metro Detroit / Pacorini Vlissingen	450 kt	1.335 kt	3.0 X

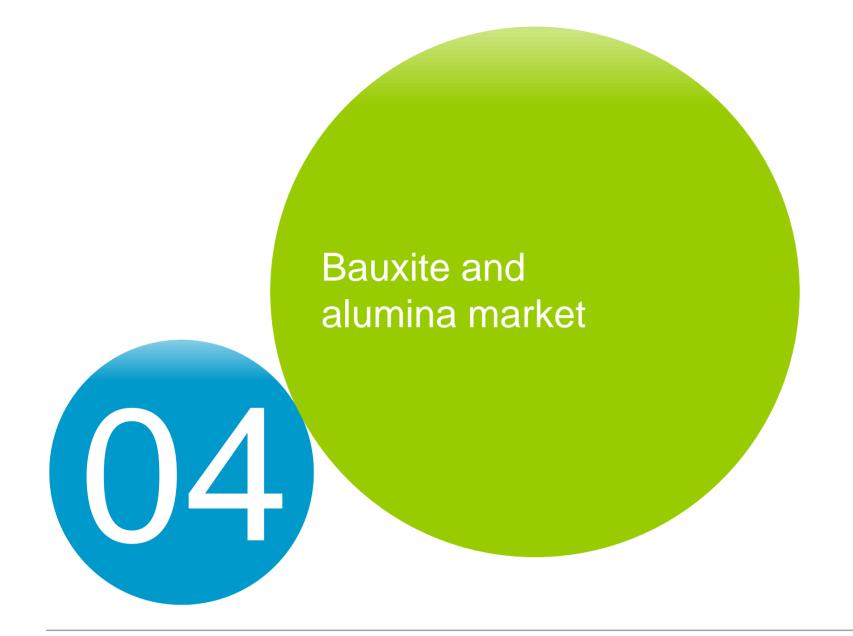


Product premiums also at record high levels







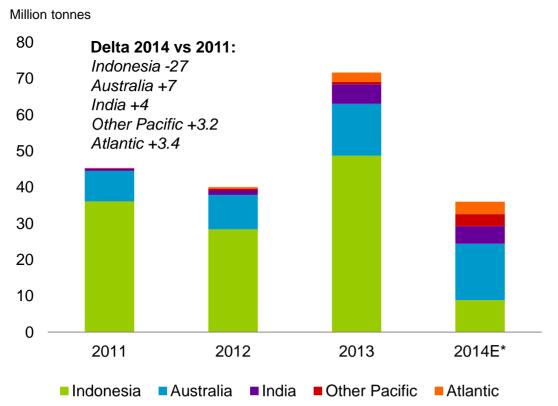




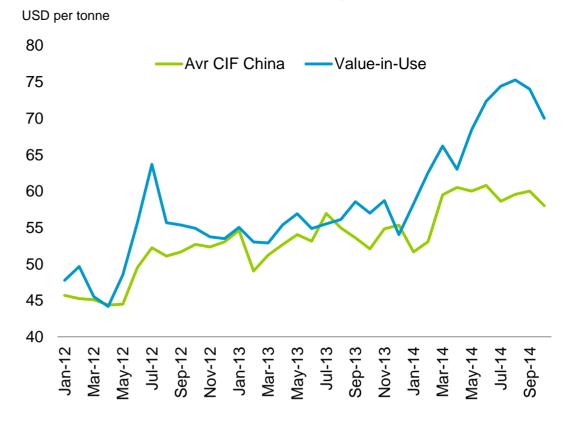
China developing new bauxite import sources

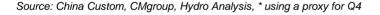
No Indonesian bauxite exports translates to higher prices average CIF China

Import volume by origin



Value-in-use bauxite price increasing more

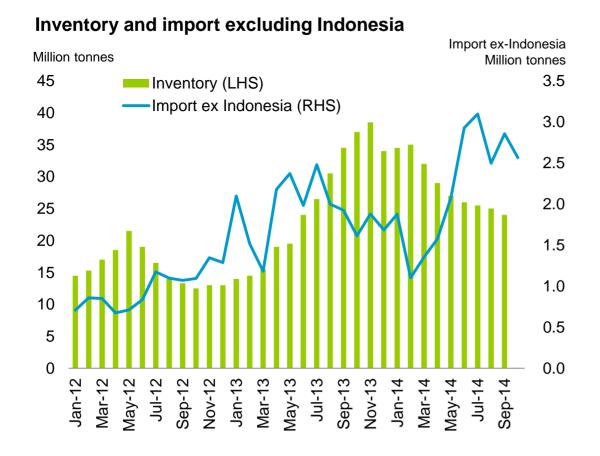






Short term, new imports and inventory offer relief

Enough volume, but higher cost



No short/mid term bauxite squeeze

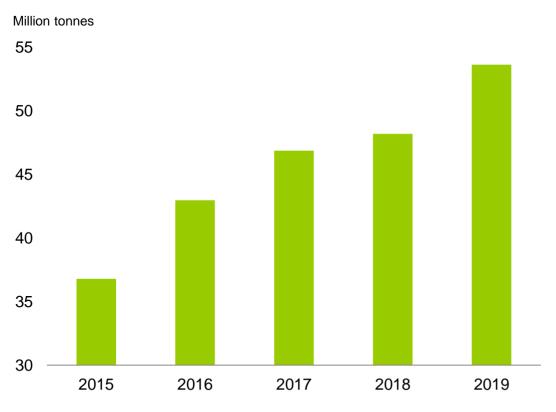
- China demand for imported bauxite is below 4 million tonnes per month
- Chinese bauxite import around 3 million tons per month should keep China with sufficient supply the next 2 years, however stocks are unevenly distributed
- Medium term, potential export projects in Guinea and Australia could balance China's import demand
- Bauxite prices could continue to strengthen somewhat leading to a cost push for alumina producers



Long term China has bauxite challenges

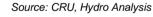
Greenfield is needed, but cost CIF China is uncertain

Chinese bauxite import forecast



More challenging in and outside China

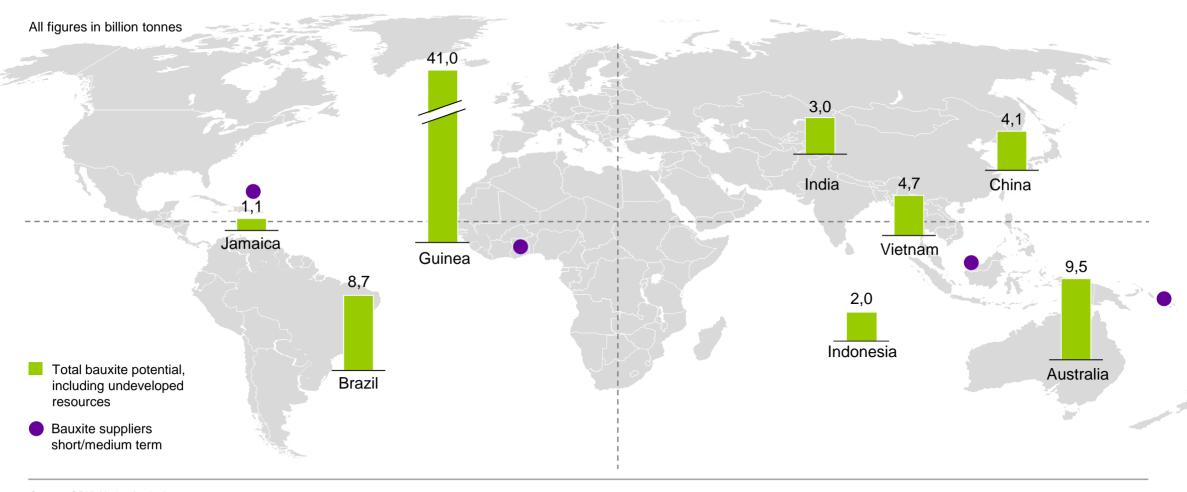
- Lower quality on new China domestic bauxite resources
- Domestic bauxite prices increasing, especially in the new areas like Guizhou and Guangxi
- Resource nationalism growing
- Stronger environmental policies
- Higher infrastructure cost expected
- Atlantic bauxite long term to China faced with shipping exposure





Bauxite potentials

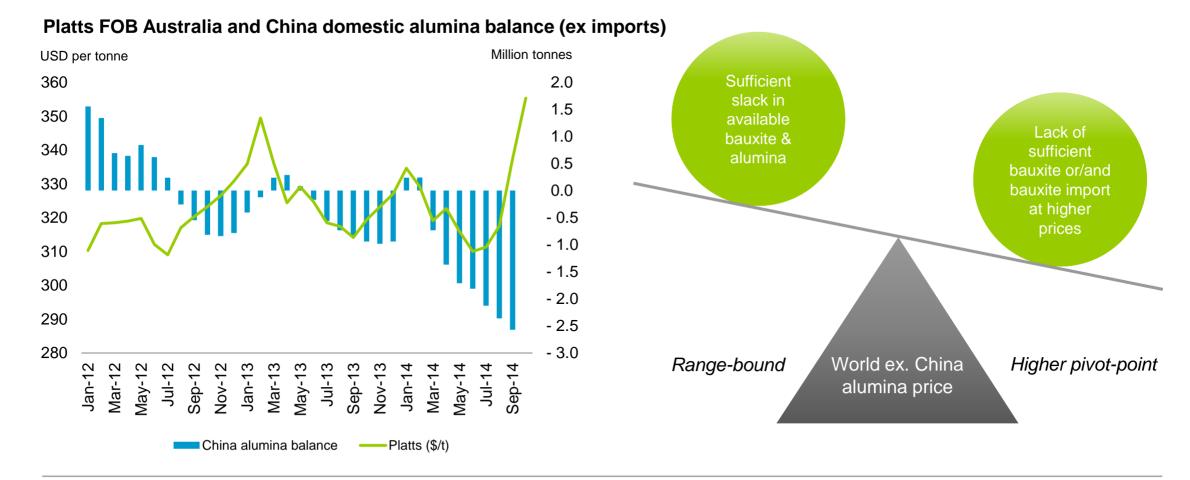
New sources being explored, but not expected to replace the importance of Indonesia



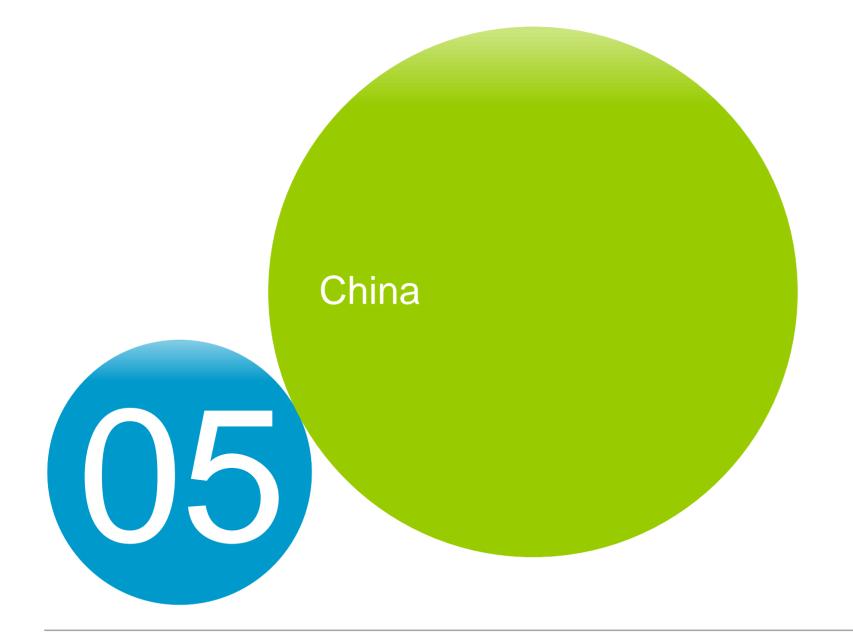


Alumina curtailments have tilted China into domestic alumina deficit

High impact on world alumina prices

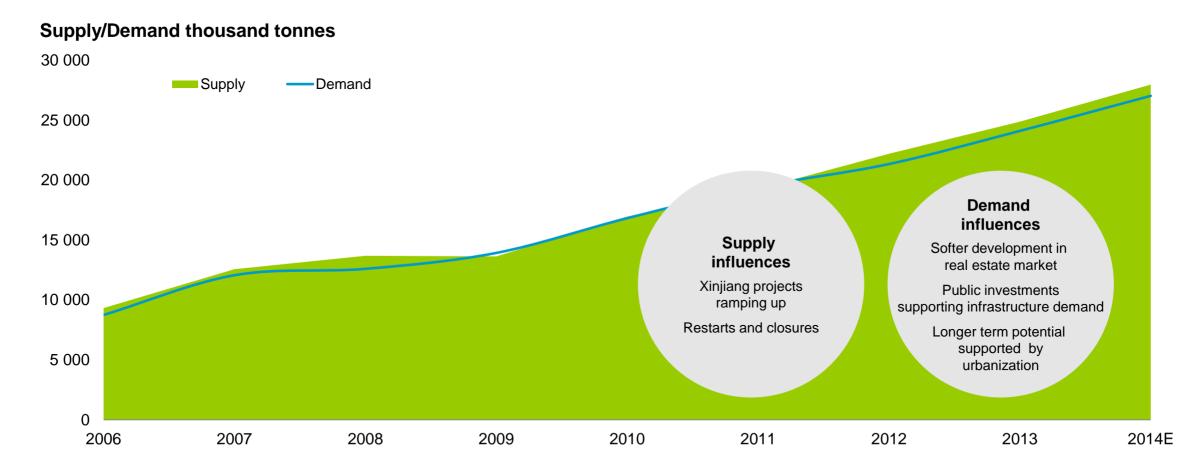


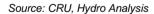






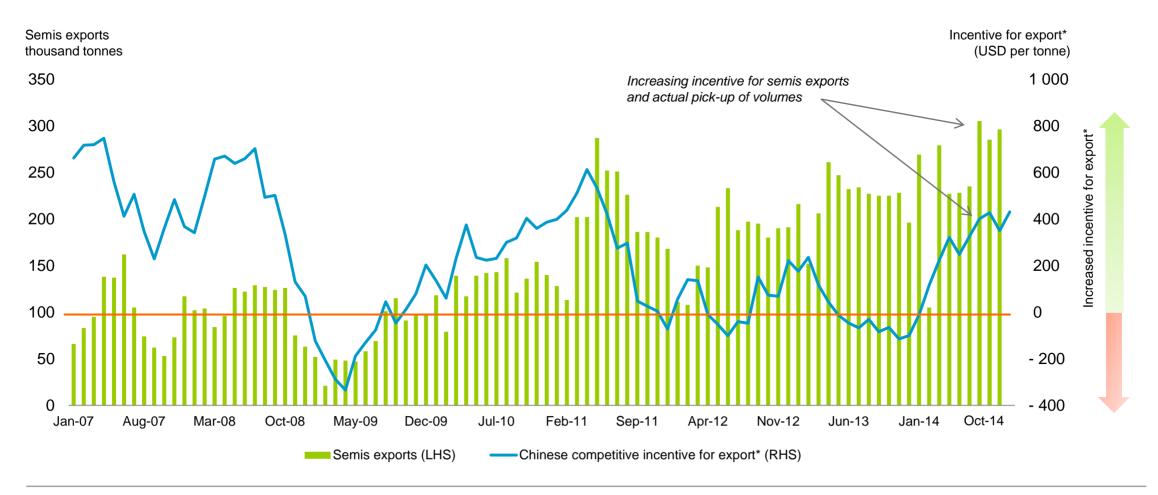
Chinese primary market in slight oversupply

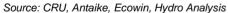






Chinese net semis exports picking up over the last months amid current cost advantage

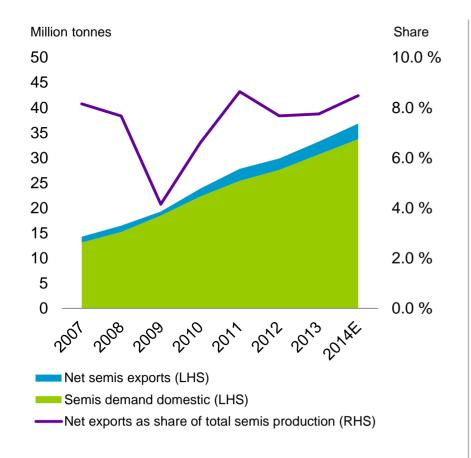


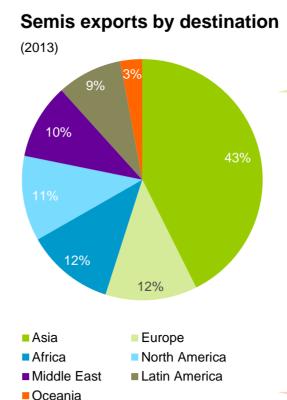


^{*}Est. metal price China versus Europe Europe: LME cash + European duty-paid standard ingot premium – freight from China China: SHFE cash (excl. VAT) + avg. local premium + VAT (incl. rebate)



Net semis exports stable as share of total production, Asia key destination area



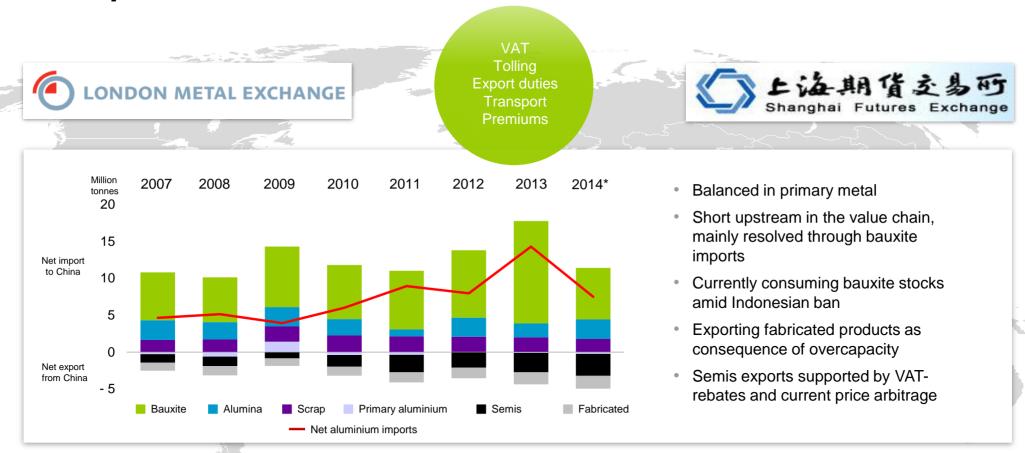


Factors influencing semis export trend

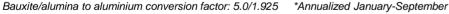
- Continued metal price advantage and VATrebates
- Higher quality gives better export opportunities
- Increasing downstream capacity
- Integrated business models gaining presence
- Bauxite & alumina cost
- Energy costs challenged by increasing focus on pollution and potentially lower subsidies
- Transport costs to/from Xinjiang
- Labor costs increasing
- VAT-rebates
- Government support of new applications domestically



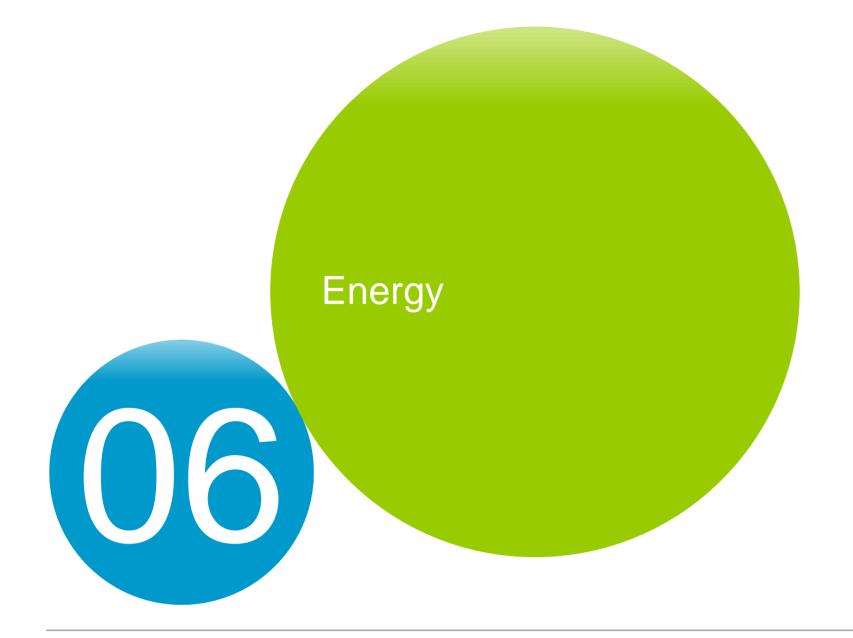
China's metal flows underpinned by trade barriers at several parts of the value chain













Current German & Nordic power prices low over last years

German & Nordic power market, forward and history

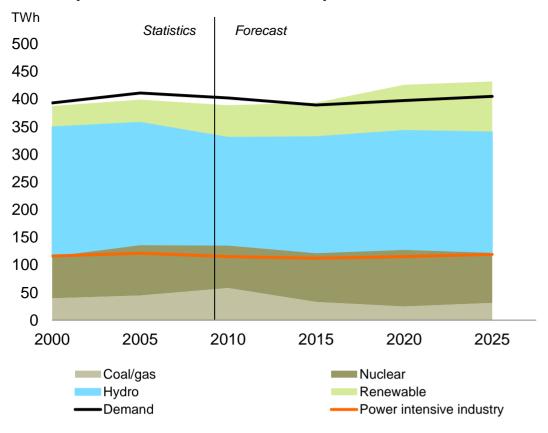


- Low CO2 price
- Relatively low fuel prices
- Lower power demand
- High growth in renewables



Nordic power generation expected to increase more than demand

Nordic power demand and consumption



Main power price drivers medium & long term:

Fuel and CO2

 Prices on coal, gas and CO2 are most important for power prices via cross border trade with Germany, Poland and the Netherlands

Nordic power balance

- Power surplus will all other things equal keep prices down
- Development of Nordic nuclear capacity adds uncertainty post 2020

Interconnectors

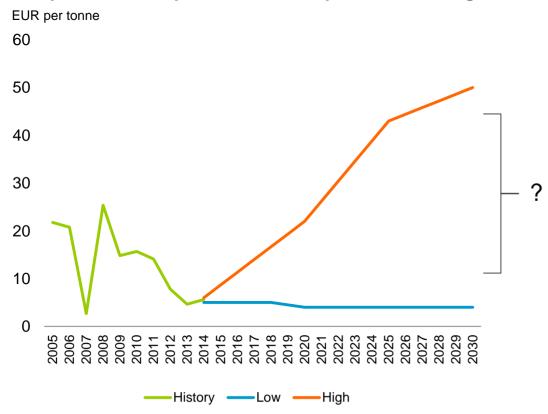
 Power prices – both level and volatility – influenced by the interconnectors to rest of Europe

Source: Hydro Analysis



Uncertain CO₂ prices going forward

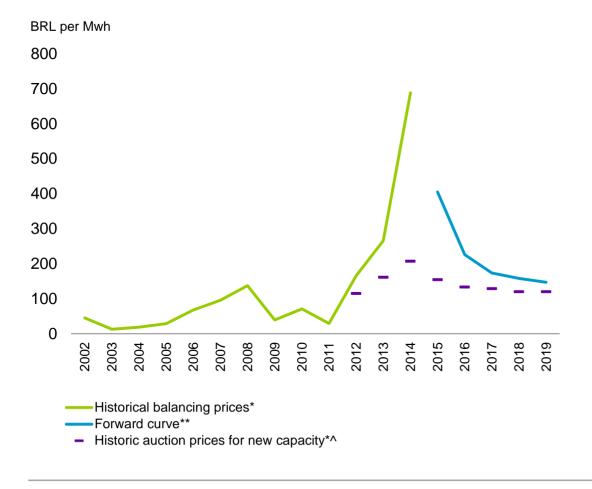
The possible CO2 price until 2030 spans a wide range



- The EU ETS regulatory regime has high impact on European power prices
 - Final regulatory scheme for 2030 expected in second half of the decade
- CO₂ costs are reflected in the power price
 - Continued CO₂ compensation for direct emissions and CO₂ costs in power necessary post 2020



Brazilian power market affected by hydrological draught



- Brazilian power market suffering from historic low inflows
- High short term balancing prices impacting the power industry
- Hydro is covered on long term contract to 2024 for Albras





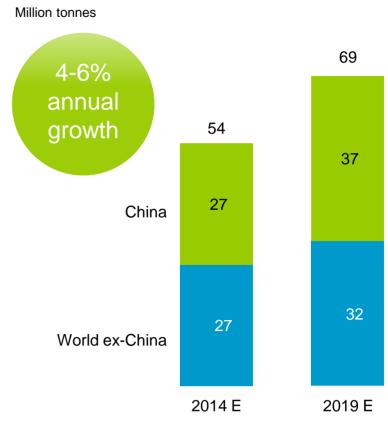


Global aluminium primary demand growth set to experience continued strong growth across regions and segments

Strong demand drivers in key aluminium segments

	Transport	Growth in automotive vehicle production Aluminium content in cars increasing Growth in other transport modes, e.g. railway
	Construction	Urbanization Housing market recovery in mature regions Energy neutral buildings
4	Electrical	Urbanization Substitution from copper
	Machinery & equipment	Improving industrial sentiment in mature regions Manufacturing activity and industrial growth in emerging countries
	Packaging	Urbanization Environmental friendly solutions

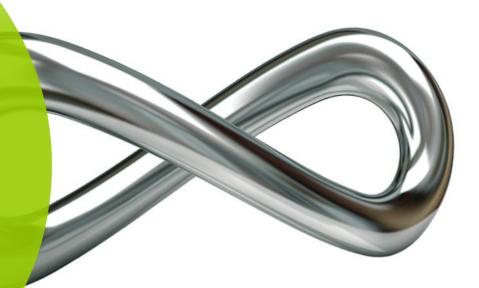
Global Primary demand estimates



Source: CRU, Hydro Analysis



- Solid, broad-based demand growth across segments and regions, but European macro uncertainty prevails
- Primary market deficits expected to continue in World ex-China, gradually reducing inventories
- Bauxite and alumina increasingly priced on their own merits
- Increasing upstream costs lifting Chinese cost curve uncertain effects on China's production and export growth



Better Bigger Greener





Rolled Products

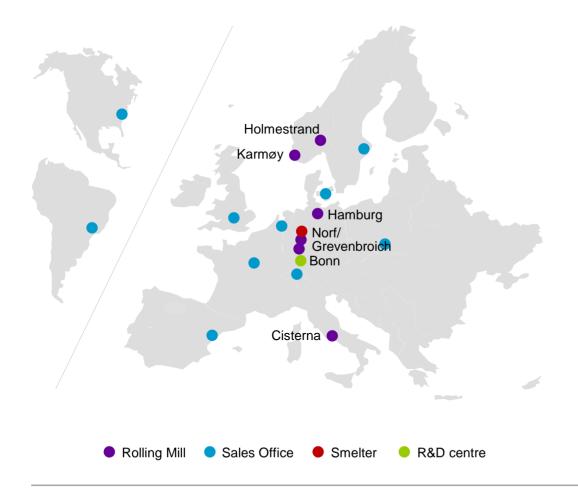
Oliver Bell

Capital Markets Day 2014





Rolled Products - No 1 producer in Europe

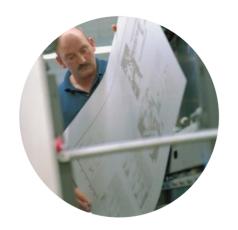


- European production base with global reach
- 1 million tonnes of flat rolled products per year
- World class assets
 - Casthouse network & integrated recycling capacity
 - World's largest rolling mill with dedicated conversion mill
- Industry leading R&D facility
- Turnover ~20 billion NOK
- ~4 200 employees



Rolled Products market positions

Leading market positions – supported by leading R&D competence



LithographyWorld market leader



Foil
World market leader
in aseptic foil



Beverage can Leading position in Europe

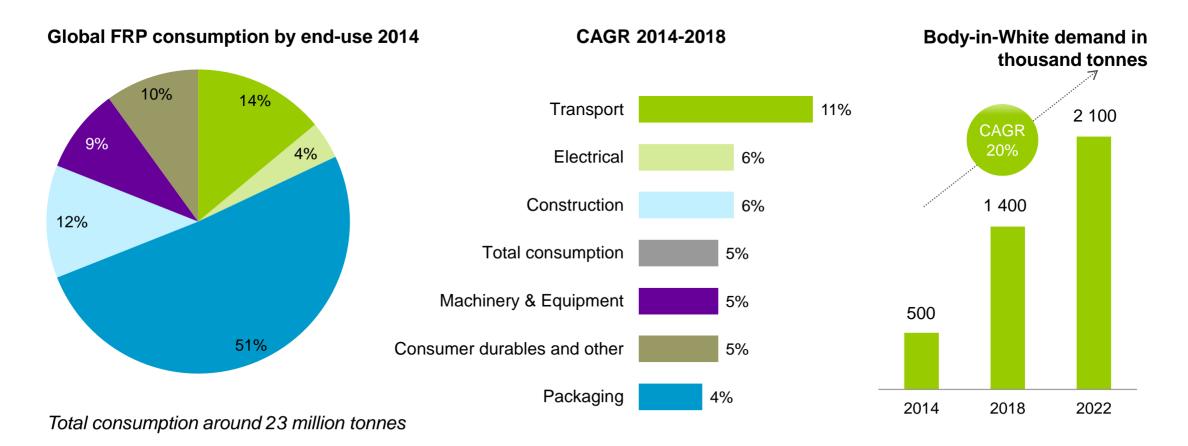


AutomotiveLeading position in Europe



Robust long-term growth outlook for flat rolled products worldwide

Transport is main driver for growth – Body-in-White consumption growth outperforming all other segments





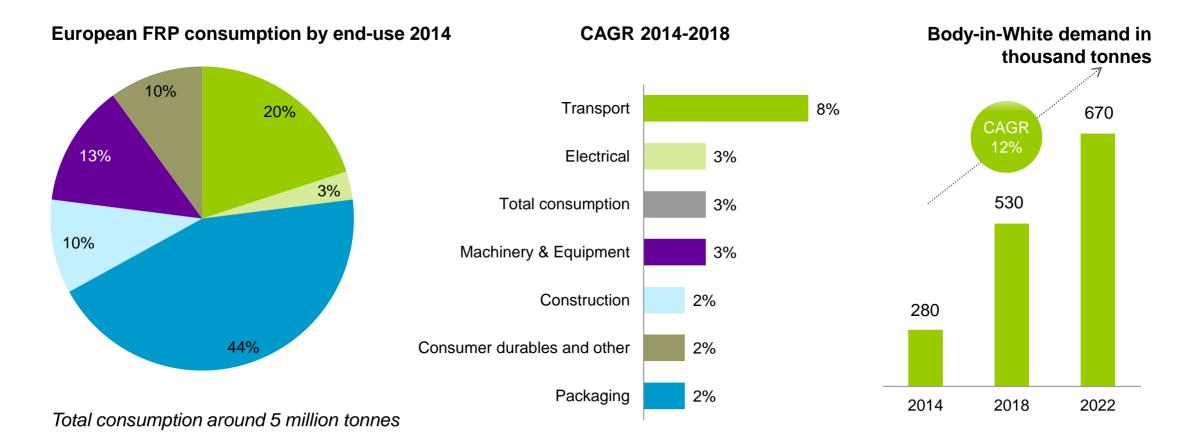
FRP - Flat rolled products

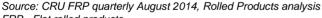
CAGR - Compound annual growth rate



Stable long-term development in Europe

Potentially some signs of weakening short-term





FRP - Flat rolled products

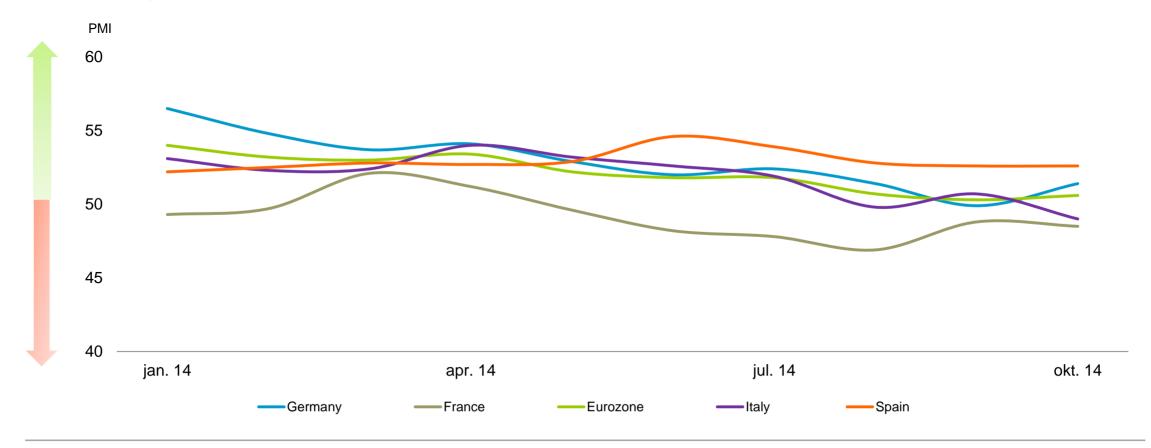
CAGR - Compound annual growth rate



Mixed macro economic development in the Eurozone short term

Softer short-term signals in core countries, signs of improvement in peripheral regions

Manufacturing PMI, major Eurozone economies

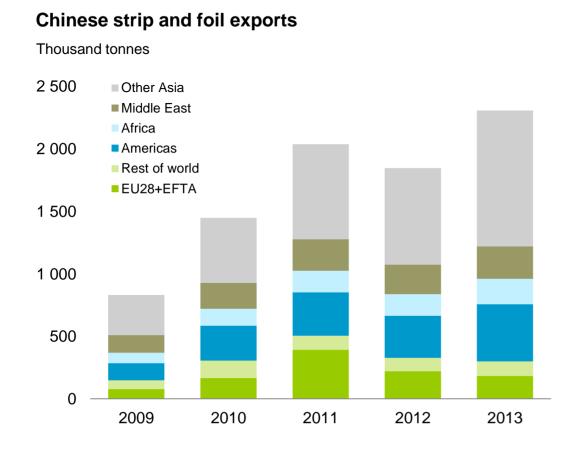


Source: Ecowin

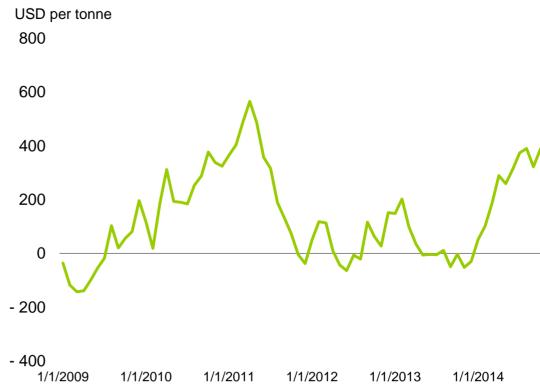
PMI - Purchasing manager index



Chinese exports increasing, driven by metal advantage



Chinese metal advantage*







^{*} Est. metal price China versus Europe Europe: LME cash + European duty-paid standard ingot premium – freight from China China: SHFE cash (excl. VAT) + avg. local premium + VAT (incl. rebate)

Better, Bigger, Greener in Rolled Products



Better Bigger Greener



Better



Close to customer: creating value through innovation





Forming optimized AA5182 variant in automotive applications

- High formability and high corrosion resistance due to optimized specification
 - Strategic supplier to major European OEM's
 - Based on leading R&D competence

Introducing 5µm* high-performance aluminium foil

- Full protection at record-thin gauges
- Maintains absolute barrier protection against food spoilage
 - Material savings of up to 16 percent
 - Improved material properties
 - Improved run ability on customers' equipment

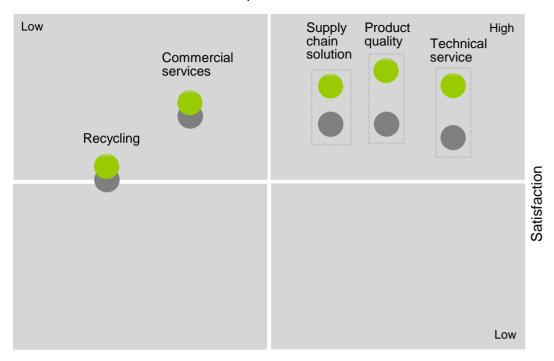


^{*} Micrometre

Close to customer: creating value through quality and services

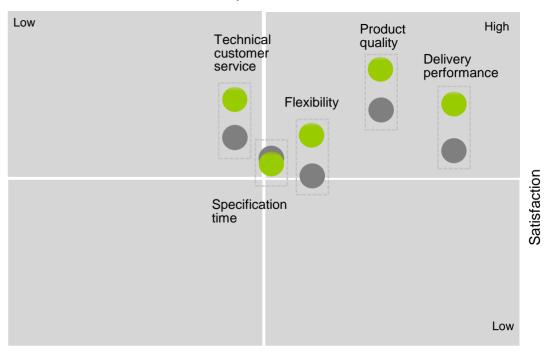
Specialty segment

Importance



Commercial segment

Importance





Hydro

Competitors



Rolled Products' "Climb" improvement program on track

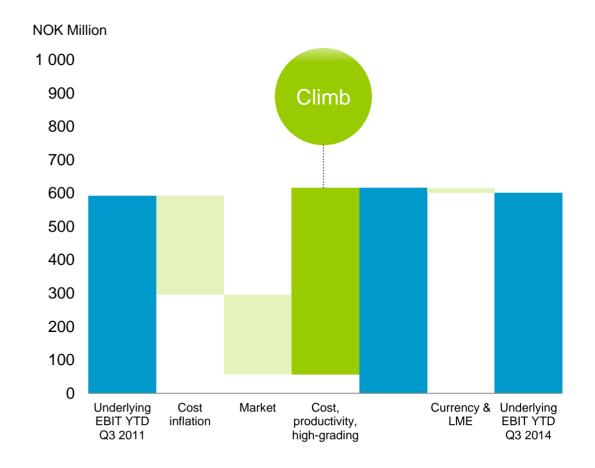
Target

Time period

800 MNOK 2012-2016

Contributions driven by

- High-grading product portfolio
- Margin management
- Productivity improvement
- Reducing net cost level





Bigger

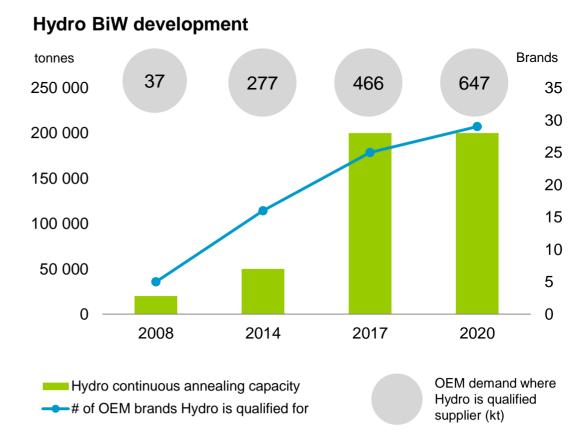


Pursuing attractive growth opportunities



Major step in automotive Body-in-White (BiW) market

- Installation of automotive line 3 lifting capacity to 200 thousand tonnes per year
- Step change in BiW production process
- Production start second half 2016



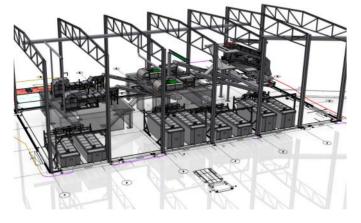


Hot mill expansion and strengthening of recycling position



Expanding AluNorf hot mill capacity

- Capacity increase by ~60 000 tonnes
- Debottlenecking core asset
- Start of production 2016



Establishing strong recycling position

- Installation of UBC* recycling line
- Fulfilling customer needs and strengthening beverage can market position
- Improving metal cost position
- Start of production end 2015



^{*} UBC: Used beverage can

Greener



Fulfilling customer and environmental needs

Greener

Products

- 5µm high-performance aluminium foil saves up to 16% in material
- Light-weighting in automotive by replacing steel saves up to 20kg of CO₂ per kg of aluminium used

Process

- Continuous improvement and step changes
- Award-winning efficiency in annealing of aluminium coils

Recycling

- Closing the loop
- Significant CO₂ savings from recycling post-consumed scrap at new UBC recycling line







Our ambition: No 1 in Europe and benchmark in the world

Better

Bigger Greener

- Differentiate through innovation, quality, service and lead time
- Continue operational improvement drive
 - ✓ Lifting the bar and staying competitive
 - Deliver improvements through "Climb"

- Enhance market positions and portfolio high-grading
- Strengthen relative industry position
 - ✓ Automotive Line 3
 - ✓ Norf expansion
 - ✓ UBC line

- Fulfill customer and environmental needs
- Being part of the solution in low carbon society
 - ✓ Improved processes
 - ✓ Resource efficient products
 - ✓ UBC closing the loop





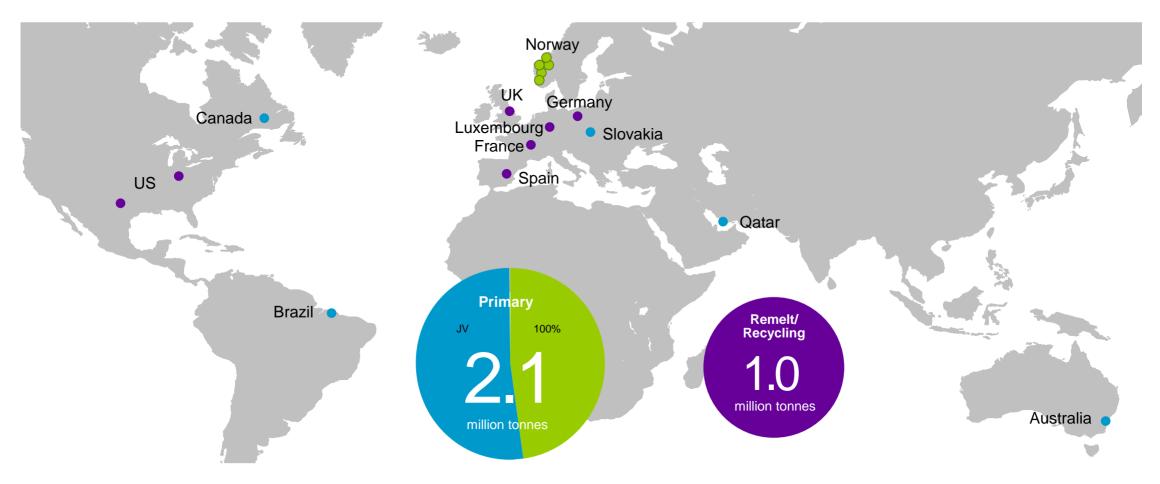
Primary Metal

Hilde M. Aasheim Capital Markets Day 2014





Primary Metal and Metal Markets production portfolio



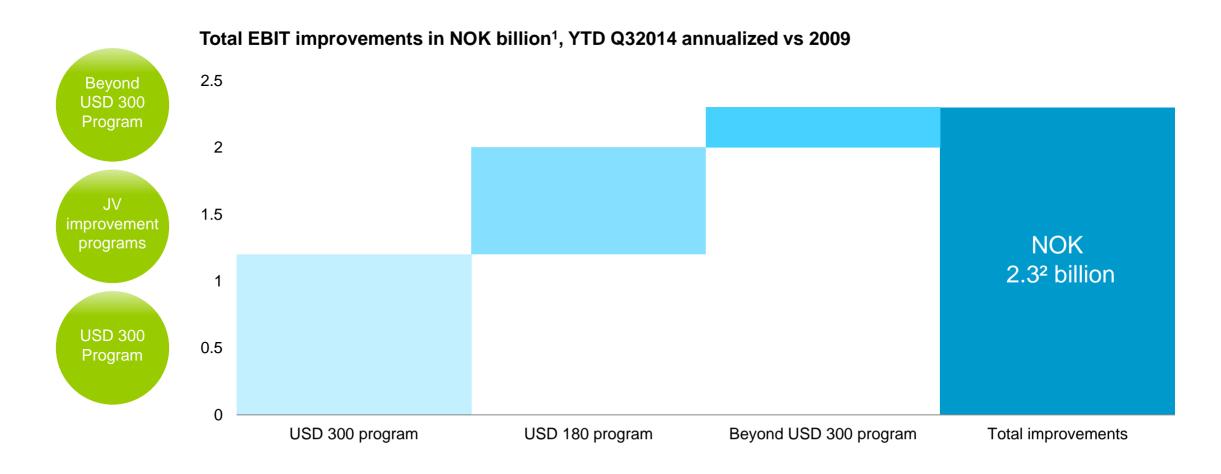
2.1 million mt is consolidated capacity. Slovalco and Albras are fully consolidated, Tomago and Alouette are proportionally consolidated and Qatalum is equity accounted. 90.000 mt of capacity is currently mothballed in Hydro Husnes. Neuss, which is a part of Rolled Products, is not included. 1.0 million mt includes stand-alone remelters, recycling facilities and additional casthouse capacity at primary plants.



Better



Systematic improvement work over several years

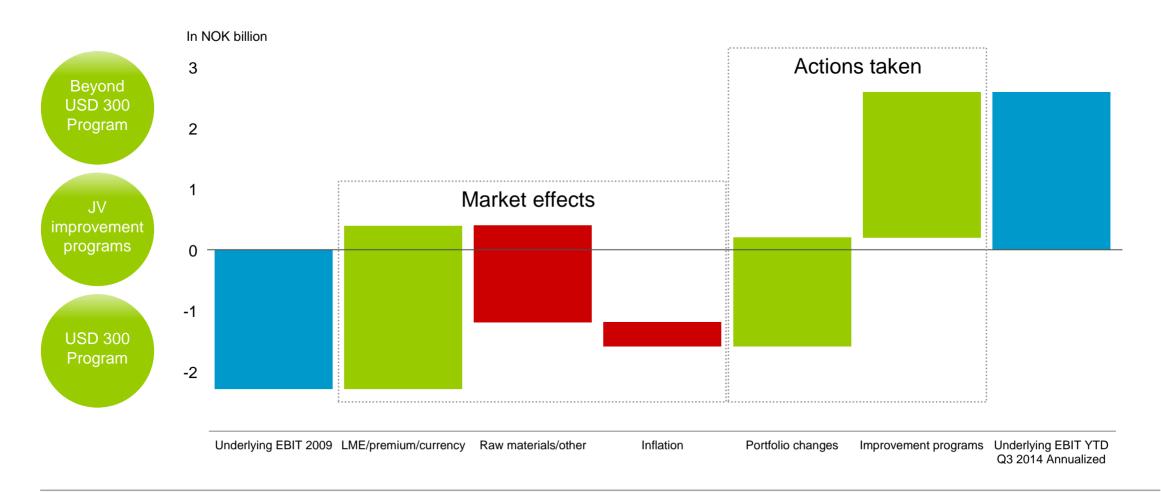


¹⁾ Compared to 2009 cost level for USD 300 program and "other". Compared to 2011 for USD 180 program. In real terms. Effect of exchange rates and raw materials cost changes are neutralized



²⁾ Excludes NOK 0.2 billion improvements in capex and relining

Repositioning through improvement focus and portfolio measures





Qatalum: First decile cash cost position



- Continued strong production performance with superior products to the market
- Improvement efforts providing solid results strong cost discipline and operational excellence
- Implementing next generation cathodes to further increase productivity
- Strong cash flow EBITDA of NOK 1.7 billion* Q4 2013 – Q3 2014
- NOK ~900 million* dividend received last 12 months
- NOK ~450 million* of debt repaid last 12 months

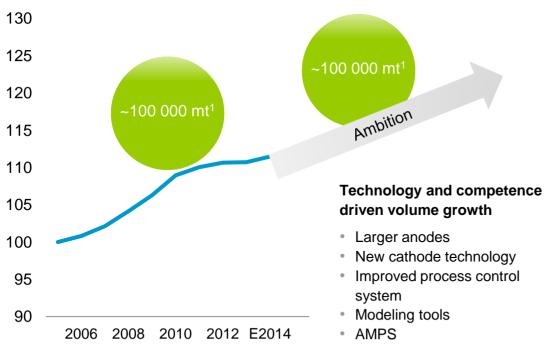


^{*} Hydro's 50% share

Ambitious improvement programs continue

Fully-owned smelters – increasing output from existing lines, gaining productivity

Production development in Norwegian fully-owned smelters, indexed from 2005



JV improvement program on track

USD 180 per mt improvements by end-2016, corresponding to NOK 1.2 billion Improvements in USD per tonne





¹⁾ Not including Hydro Husnes

²⁾ Compared to 2011 cost level. USD 180 per mt in real terms corresponds to USD 150 in nominal terms. Effect of exchange rates , LME and raw materials cost changes are neutralized. Casthouse margins and cost above plants are not included.

Strong position in value-added casthouse products

85% of global sales volume is value added



Extrusion ingot, 52%



Wire rod, 2%



Standard ingot, 15%

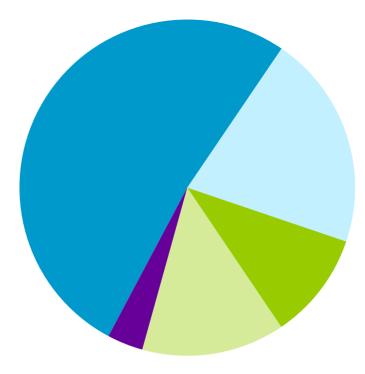


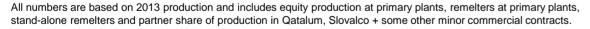
Foundry alloys, 19%



Sheet ingot, 12%





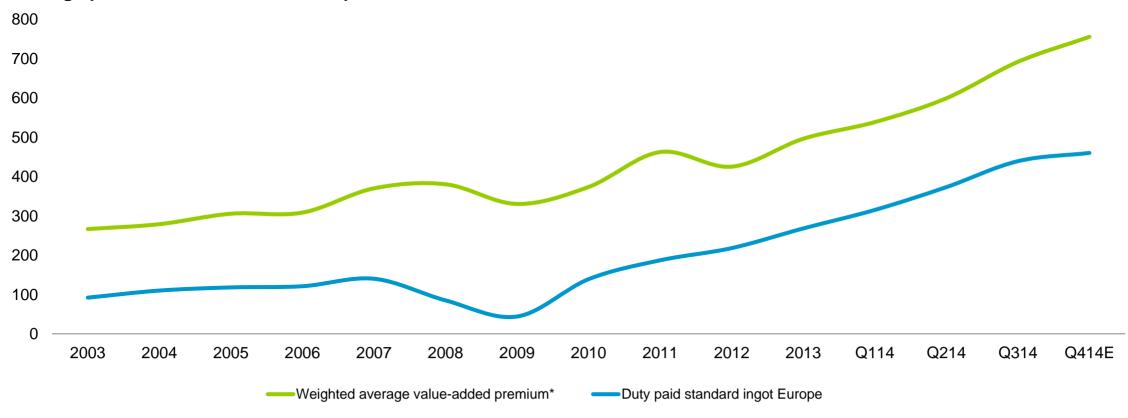




Significant value creation through value-added products

Illustrated by the European market





^{*} Weighted average of European premiums for Extrusion ingot, Foundry alloys and Sheet ingot based on Hydro's sales volumes



Focusing on advanced customers









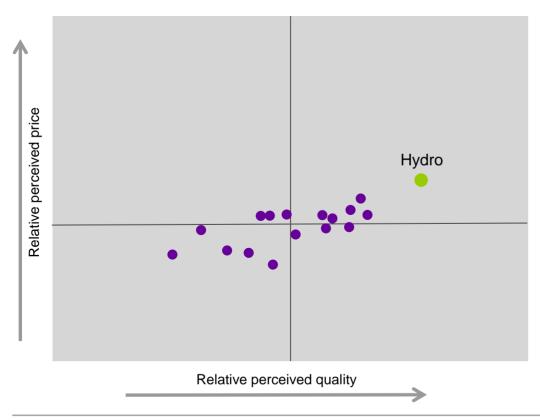
- Strategy of high-grading product portfolio
- AFM* technology to strengthen capabilities towards automotive sector
- Strong R&D focus on alloy developments in cooperation with customers
- Focus on total quality aspect
 - Service and technical support
 - Reliable and on-time delivery



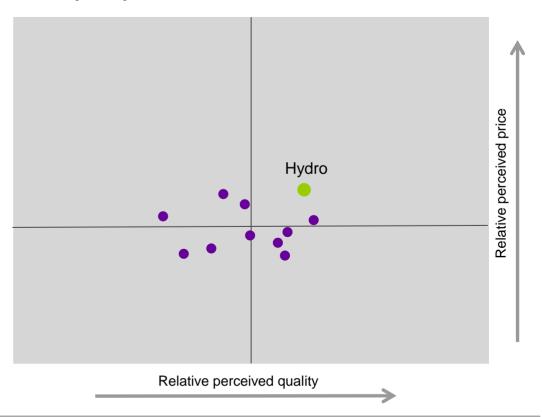
^{*} Adjustable, Flexible, Mold technology

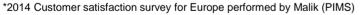
Strong relative position compared to peers

Customer satisfaction survey* Extrusion Ingot



Customer satisfaction survey* Foundry alloys





Competitors



Bigger



Strengthening the Norwegian production base



- Five Norwegian fully-owned smelters including newly acquired Husnes
- Competence cluster and technology
 - Pilot at Karmøy to utilize highly advanced smelting technology
- Current macroeconomic cycle favorable for power sourcing, confirmed by 2.7 TWh contracts (2021-2030) in 2014
- Attractive source for European value-added markets with increasing primary aluminium deficit



Possible pilot plant at Karmøy

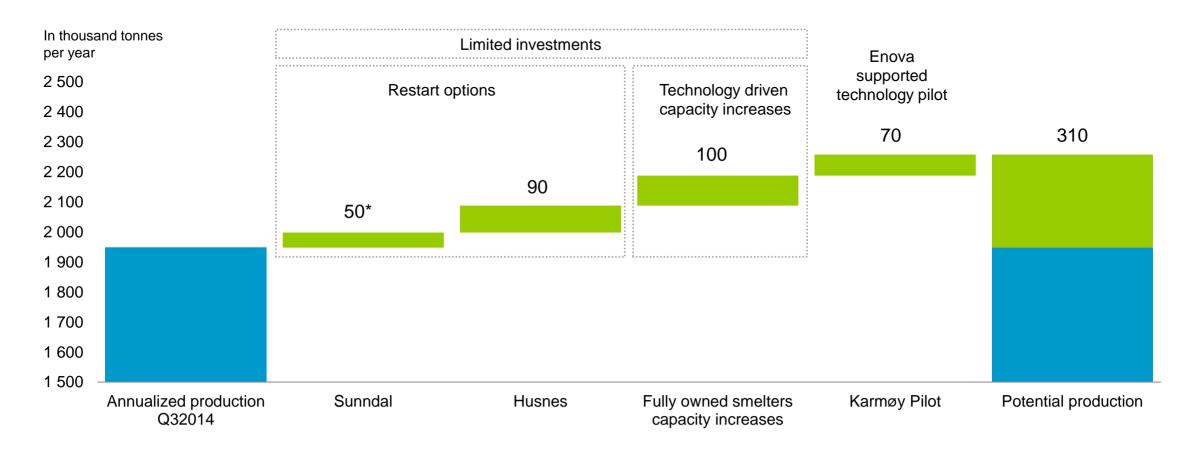


- Annual production 70 000 tonnes
- Using next-generation cell technology
 - World's most energy efficient cell with the lowest CO2 footprint
- Springboard for portfolio-wide competence and technology development and operational improvements
- Conditions
 - Aluminium market balance
 - Grid upgrade and long-term competitive power sourcing
 - Cooperation and support from Enova, pending ESA approval



Several opportunities within Norwegian portfolio

Potential to add 310 000 tonnes per year





^{*} Restart of remaining cells in progress

Attractive growth opportunities

When time is right







Norway Qatalum Alouette



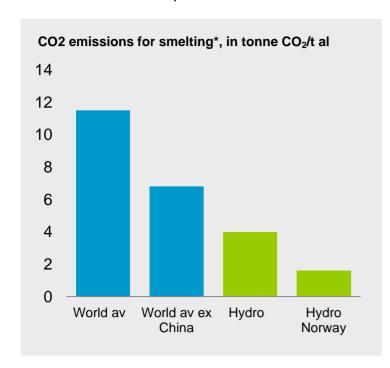
Greener



Primary Metal contributing to a greener Hydro

Emissions

Reduce energy consumption and emissions in our own processes



Use-phase benefits

Develop products/solutions helping customers reduce energy consumption and emissions



Recycling

Reduce waste and recover value from used products





^{*} Direct and indirect

A globally leading aluminium producer

Better

Bigger Greener

- Deliver on improvement programs
- · Secure competitive power sourcing
- Continue to develop products and services towards advanced customers to improve margins

- Realize 100,000 mt creep in fully-owned smelters
- Extend technology lead with Karmøy pilot plant
- Further mature growth options for when time is right

- · Grow the recycling business to improve margins and environmental footprint
- Reduce energy consumption and emissions in our processes
- Develop products/solutions helping customers reduce energy consumption and emissions





Bauxite & Alumina

Alberto Fabrini

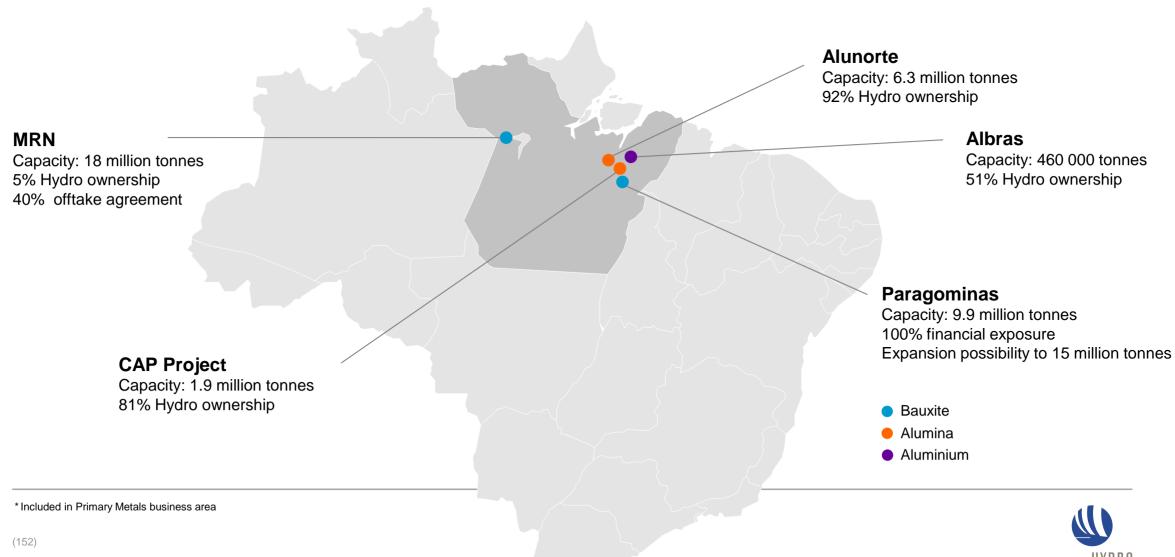
Capital Markets Day 2014





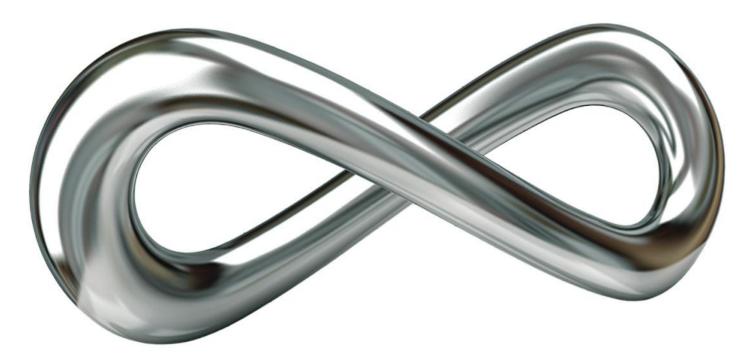
Competitive aluminium cluster in Parà

Strategic position in mineral resources creates competitive advantage





Better, Bigger, Greener in Bauxite & Alumina



Better Bigger Greener

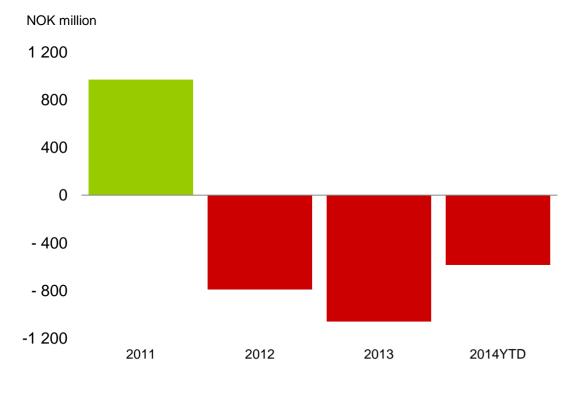


Better



Weak B&A results over the past years

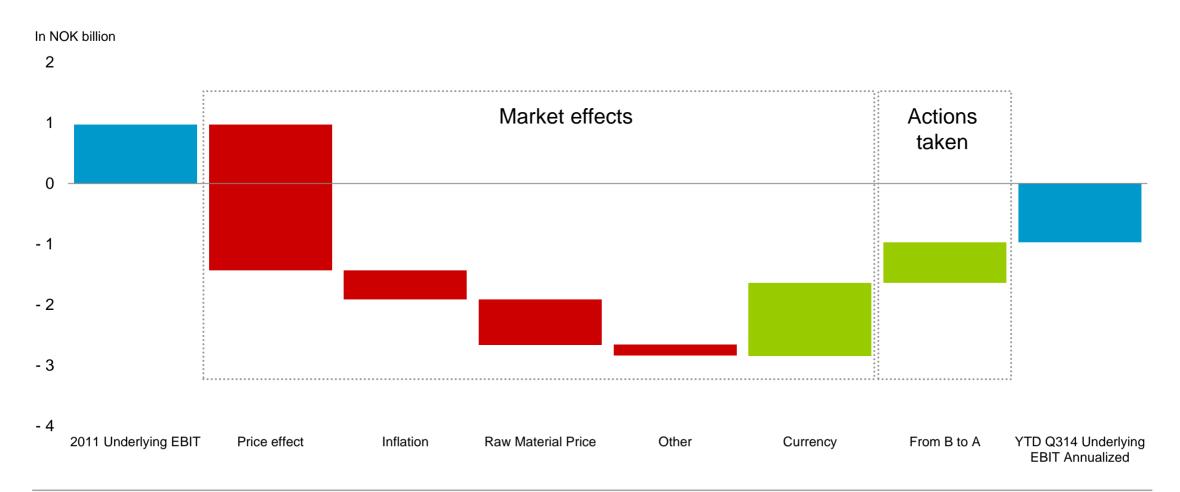
Underlying EBIT



- Operational issues in 2013 at Alunorte
 - Also affecting performance in Paragominas
- High Brazilian inflation impacting costs
- Continuous low alumina prices
- Regulatory challenges
- Positive currency development



Responding to challenges with improvement efforts





From B to A back on track in 2014

- Total program on track
 - Paragominas ahead of target
 - Underlying improvements in Alunorte ongoing, bringing program closer to target level during 2014
 - Strong commercial contribution, ahead of target
- Estimated delivery by end 2014: NOK 700 million
- 2015 target confirmed
 - 20% manning reduction by end of 2015
 - NOK 1 billion annual improvement by end of 2015



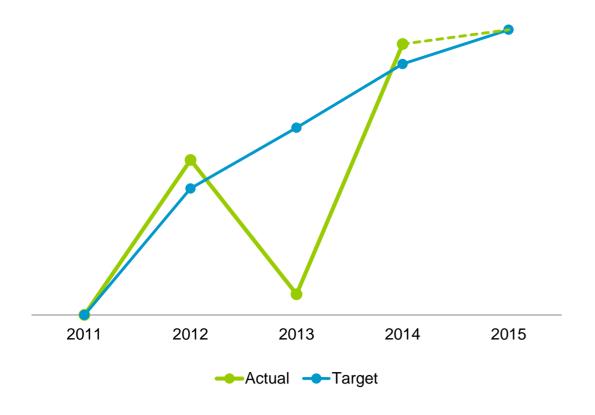


Better

Paragominas



Paragominas ahead of planned cost improvements

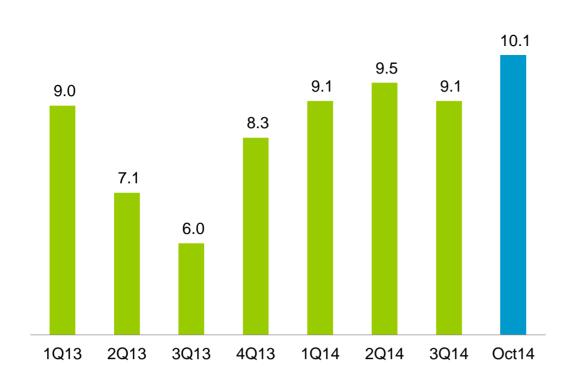


- Positive contributions from all areas
 - Production increased to record levels.
 - Productivity improvements driven by debottlenecking at beneficiation plant and optimization of mining operations
 - Fixed cost reduction mainly due to manning reduction of 25%



Paragominas production beyond nameplate capacity

Production, annualized million tonnes

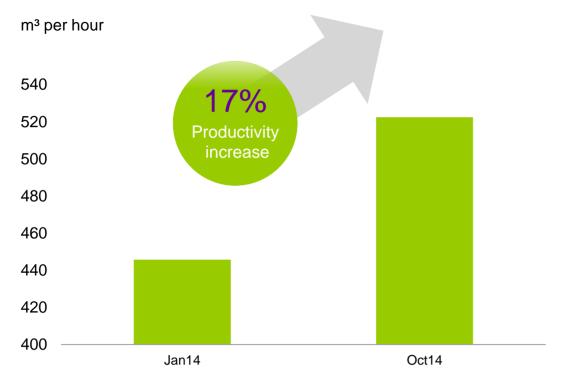






Productivity increased through reduction in number of dozers

Dozer productivity



- Improved process for removing overburden to open mining strips
- Reducing distance travelled for moving equipment by increasing cut angle for transport ramps 14° to 18°



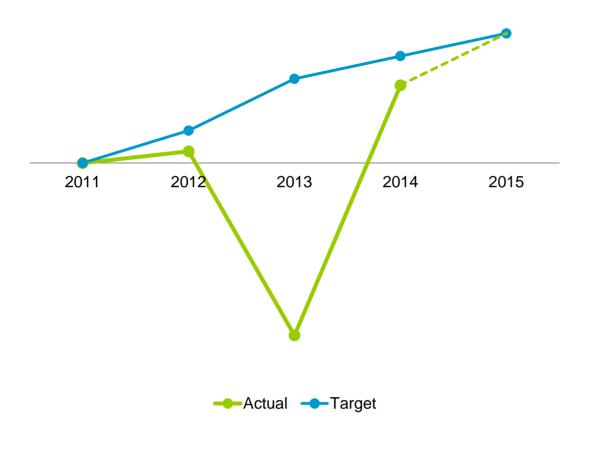


Better

Alunorte



Alunorte improvement efforts recovering following 2013 setback

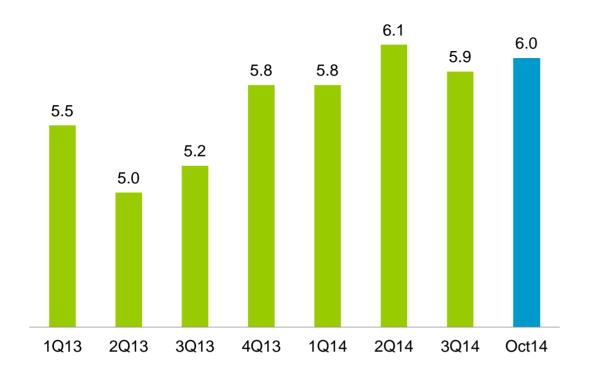


- Strong recovery during 2014
 - Continuing positive contributions from increasing production
 - Stabilizing performance and increasing raw material efficiency
 - Still lagging development in manning reduction
- Increased robustness against power outages
 - Automation of substations and powerhouse



Positive production trend continues

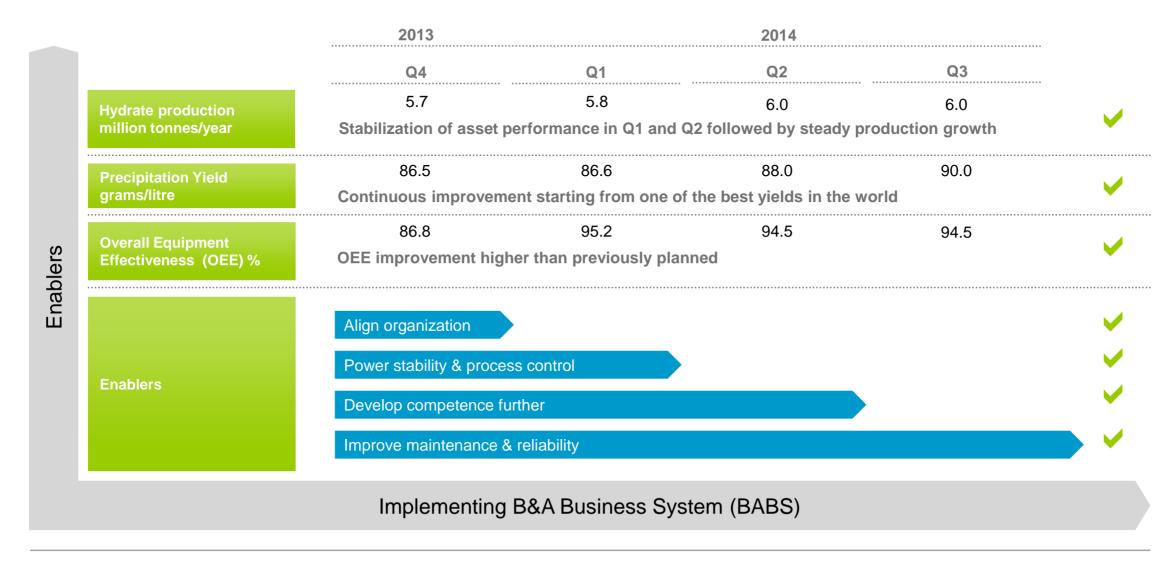
Production, annualized million tonnes







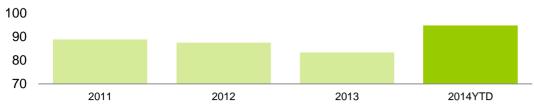
Delivering on Alunorte plan towards nameplate capacity





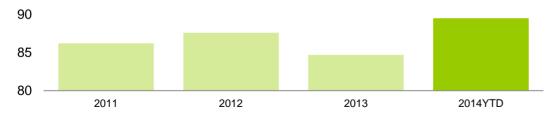
Improved operational parameters resulting in lower costs

Overall equipment effectiveness (OEE) (%)



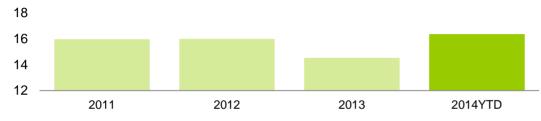
- Focus on residual life
- Disciplined root cause failure analysis

Precipitation yield (grams/litre)



- OEE achievements
- Better temperature control and A/C ratio

Hydrate Production (tonnes per day)



- Shift from line to process orientation
- Daily meetings with root cause failure analysis
- OEE and yield improvements

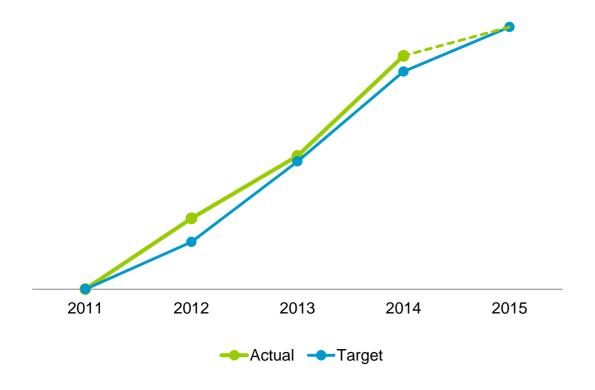


Better

Commercial



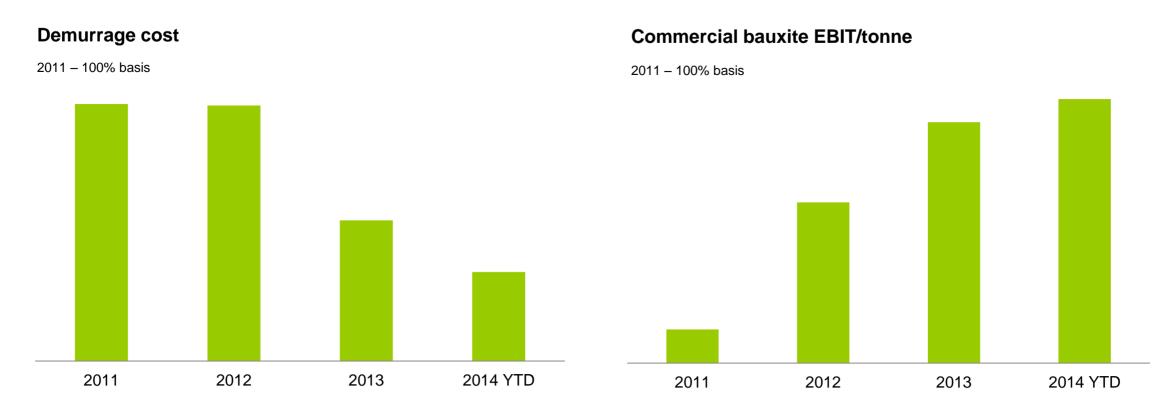
Strong improvements in commercial



- Commercial improvements achieved through
 - Strategic pricing ambitions to price bauxite and alumina on own fundamentals
 - Reduce demurrage cost
 - Portfolio optimization
 - Improved pricing terms on existing and new contracts



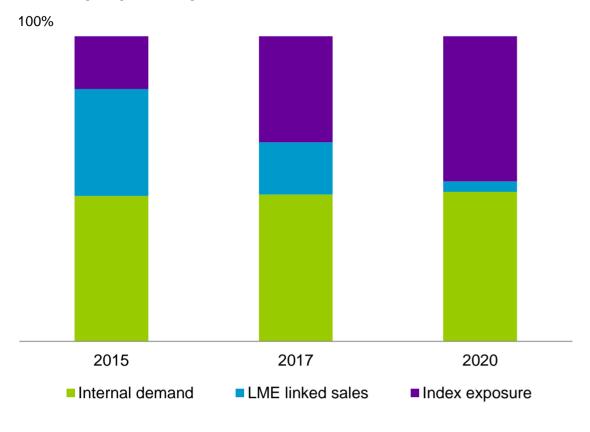
Creating value through reduced demurrage costs, and higher bauxite margins





Alumina pricing on own fundamentals

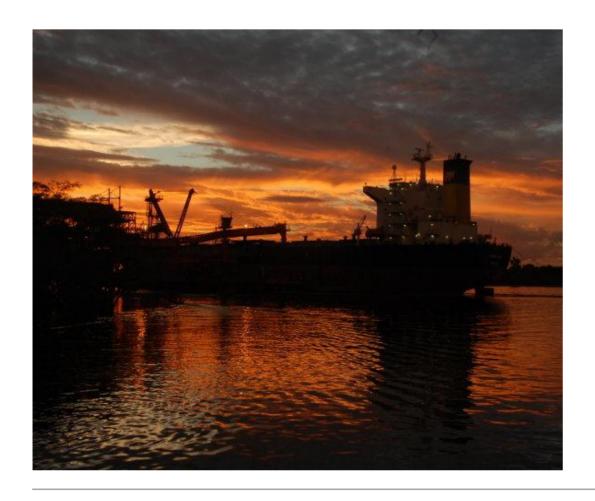
Index spot price exposure



- Increased index potential
 - Some contract renegotiations
 - Sourcing volumes higher than previously indicated, stable going forward
- Focus on developing strategic consumer business
 - Closer links with end-users
- Sales on delivered (CIF) terms
 - Better control of total value chain and logistics



More attractive market positions



- China and Indonesia represent commercial opportunities
 - Brazilian bauxite quality attractive in global market
 - Excess bauxite sold at a premium
 - Bauxite pricing on own merits, value-in-use pricing gaining traction
- Increasing commercial diversification through Atlantic and Pacific presence



Bigger



Secure and develop bauxite resources for future decades



- High-quality Gibbsite bauxite at Paragominas
 - High available alumina
 - Good alumina/silica ratio
 - Low impurities
 - Organic free
- Paragominas expansion possibility to 15 million tonnes per year, supported by current pipeline
 - Securing bauxite supply for CAP project
- Important to secure long term supply to Alunorte
 - Long-life resource base



CAP alumina refinery project: attractive project when time is right



Utilize large bauxite reserves in Paragominas

- Competitive investment cost and cost position
 - Utilizing existing pipeline capacity
- Full review of technical solutions to further reduce cost and increase efficiency
- Ready to proceed as soon as new capacity is needed in the market
- Phase one: 1.86 million tonnes per year



Greener



Hydro's social and environmental commitment in Pará

Focus on health, safety, environment, social and educational programs







Education



Social projects



Environment



Reforestation: Our "license to operate"

Mining rehabilitation ratio 1:1 by 2017, aiming for no net loss in biodiversity long term





Para Sempre: Proactive approach to regulatory challenges



- Systematic dialog with key stakeholders
 - Politicians: Local, state, federal
 - Industry associations
 - NGOs and media
- Focus on Hydro's contribution to a sustainable aluminium value chain in Pará state
- Underline need for competitive and predictable framework conditions for Hydro's operations
- Hydro ICMS strategy and task force in place



Aiming for operational and commercial leadership in bauxite and alumina





- Continue operational improvement drive
- Price bauxite and alumina on own fundamentals

- · Secure and develop bauxite resources for future decades
- Mature CAP project and Paragominas expansion for when time is right

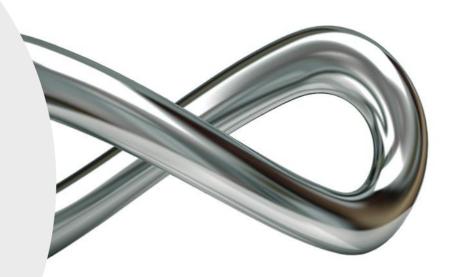
- Improve organizational capabilities and HSE performance
- Deliver on reforestation ambition 1:1 in 2017



Hydro 2015

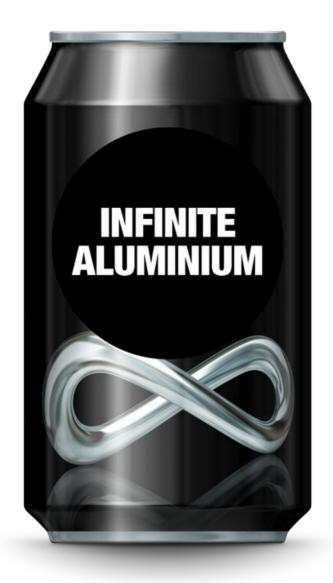
Lifting performance and shareholder value in tight physical markets

- Delivering on improvement programs
- Targeting high-margin markets and maturing growth portfolio, while maintaining tight capital discipline
- Increasing energy-efficiency and lowering climate footprint



Better Bigger Greener







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Next events

Fourth Quarter Results
February 11, 2015

For more information see www.hydro.com/ir

