



Fourth quarter 2023 Investor presentation

February 14, 2024

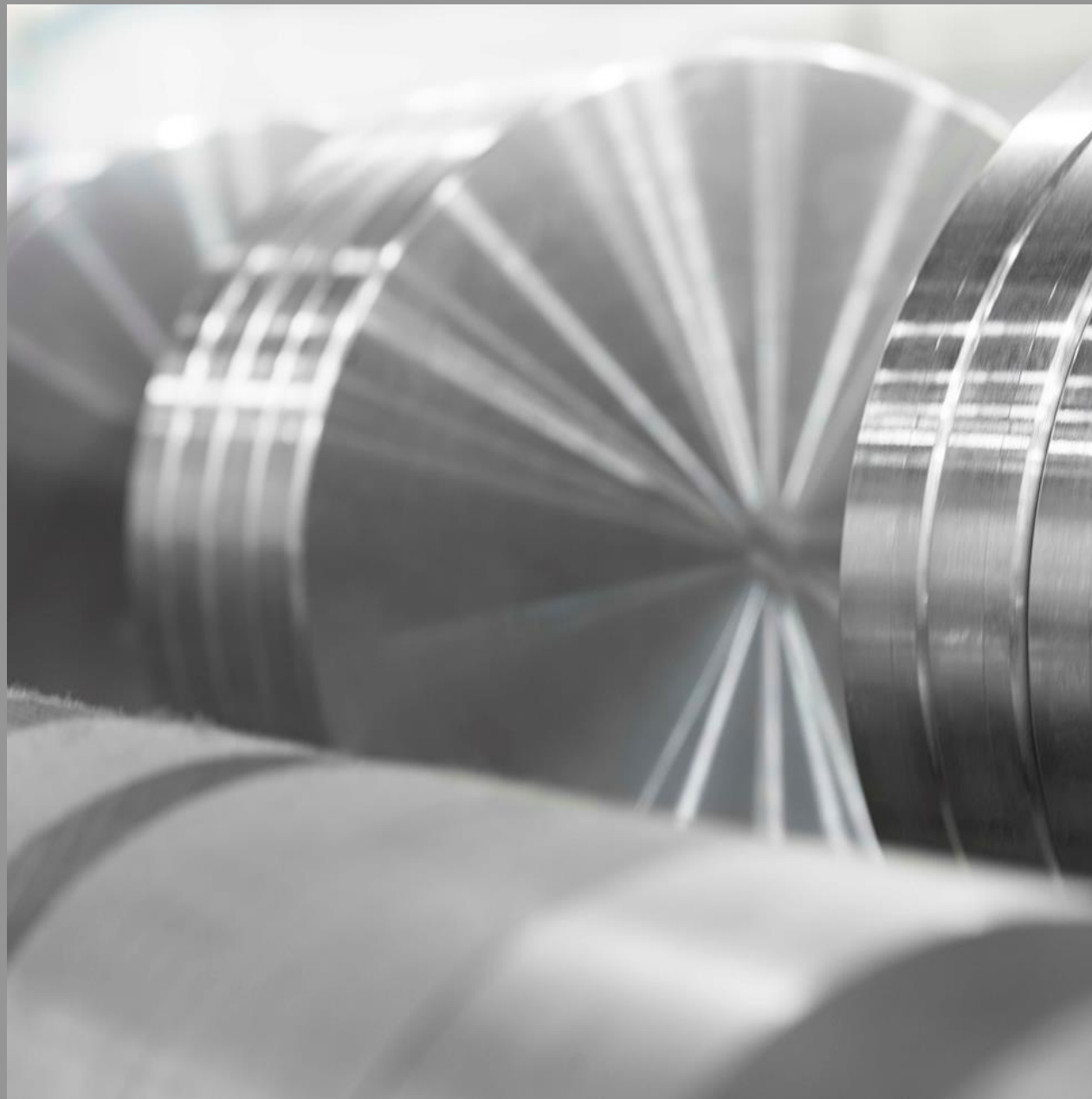


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Cautionary note

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.



Hydro

Changing the aluminium game: Strengthening position in challenging markets

Pål Kildemo
Chief Financial Officer

February 14, 2024

Q4 2023 | Adjusted EBITDA NOK 3,737 billion

Free cash flow NOK (1.5) billion, adjusted RoaCE 7.1%

Weaker results in challenging markets, managing short term volatility and freeing up cash

Exceeding 2023 improvement targets and commercial ambitions

Growing in recycling by increasing capacity and post-consumer scrap upscaling

Delivering on decarbonization roadmap across the value chain, pushing boundaries with low-carbon Hydro CIRCAL

Proposed cash dividend of 59 percent of adjusted net income (NOK 2.5 per share) and NOK 2 billion share buyback program

Challenging alumina markets in Q4

Tightening at year-end on industry curtailments

Three key events impacting alumina market dynamics

01 Chinese bauxite sourcing

- Domestic bauxite sourcing constraints causing temporary alumina capacity curtailments

02 Explosion & fire at fuel depot in Guinea

- Uncertainties over Guinean bauxite shipments to China in the wake of extensive fire damage to the main oil depot in Guinea

03 Industry curtailments

- Announced industry curtailment affects the global alumina balance and tightens the market



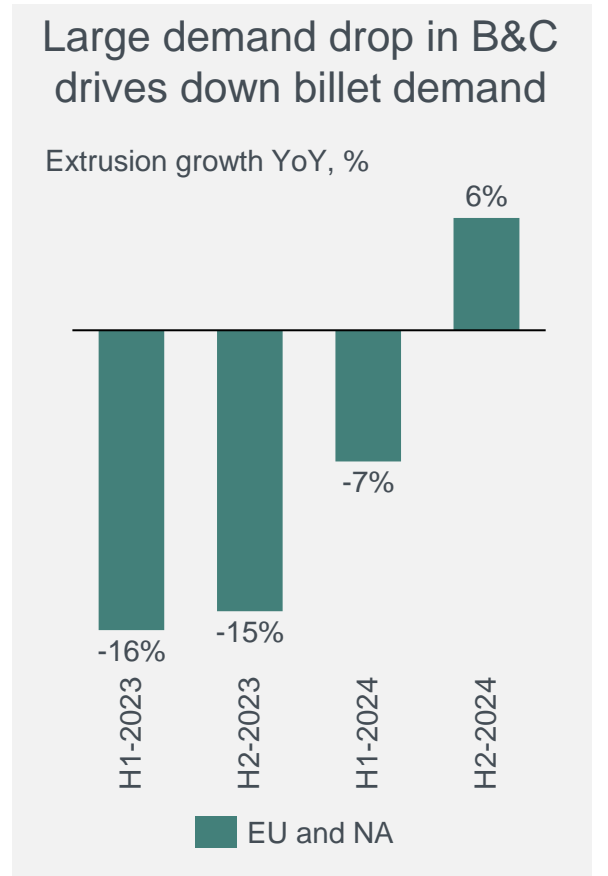
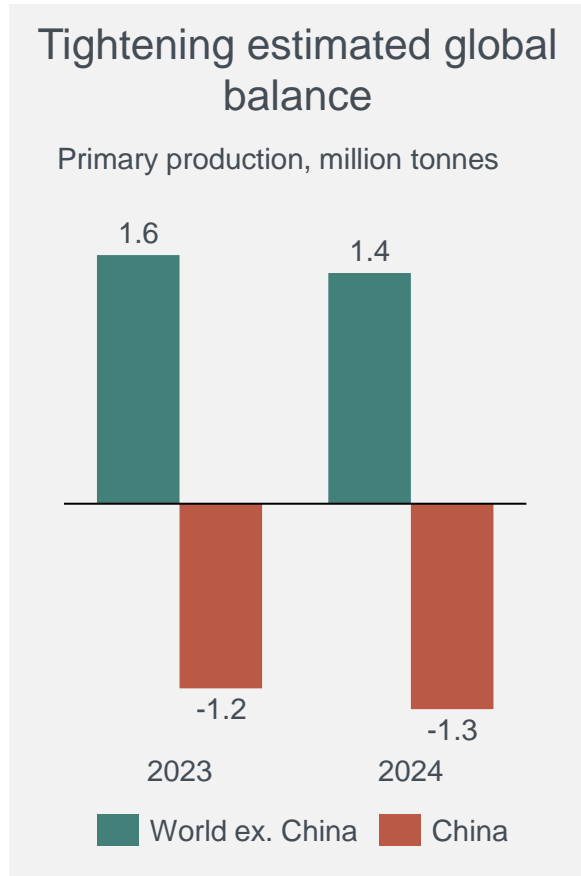
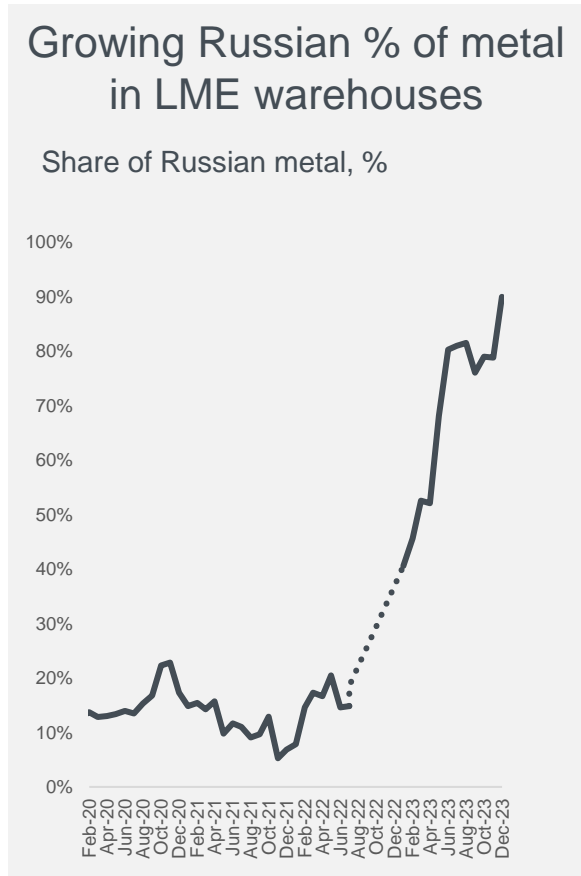
Regional alumina market balances



Rangebound aluminium prices, slower decline in demand



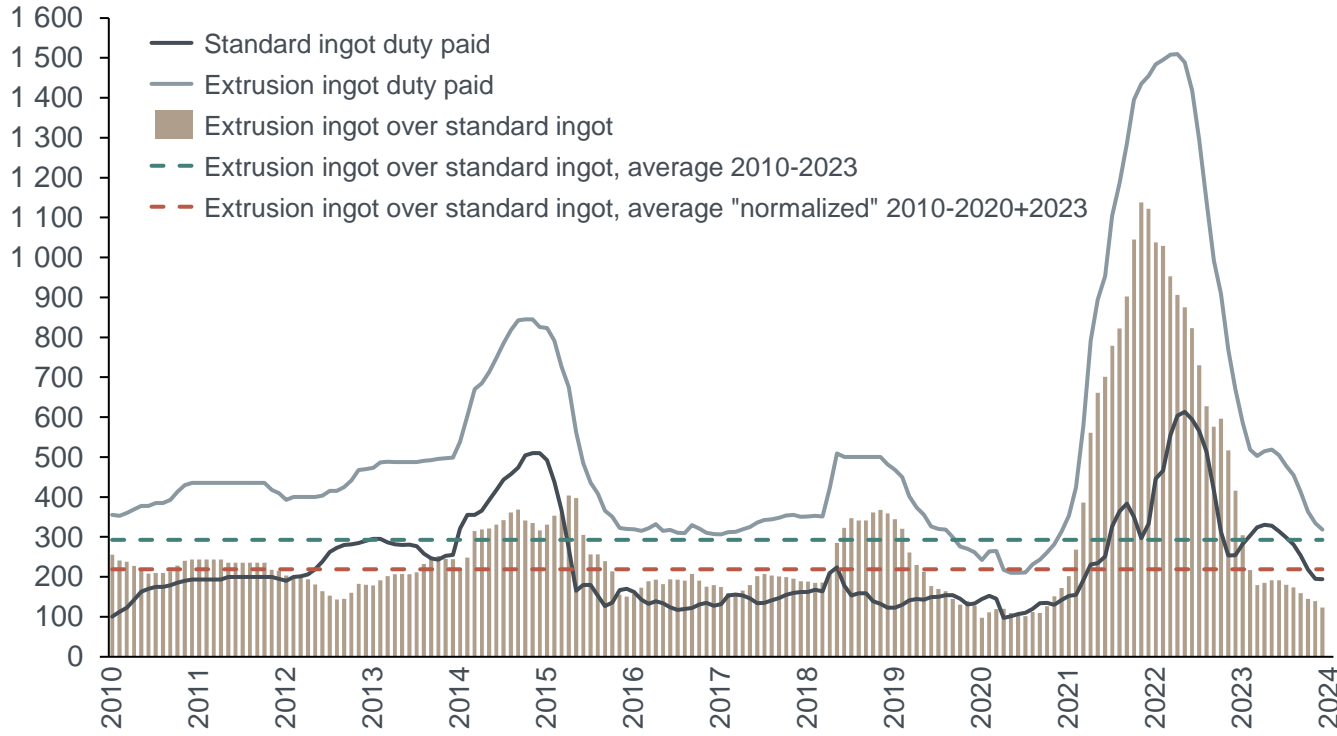
Expected improved market balance in 2024



Margin pressure and challenging demand impact recycling profitability

Margin pressure

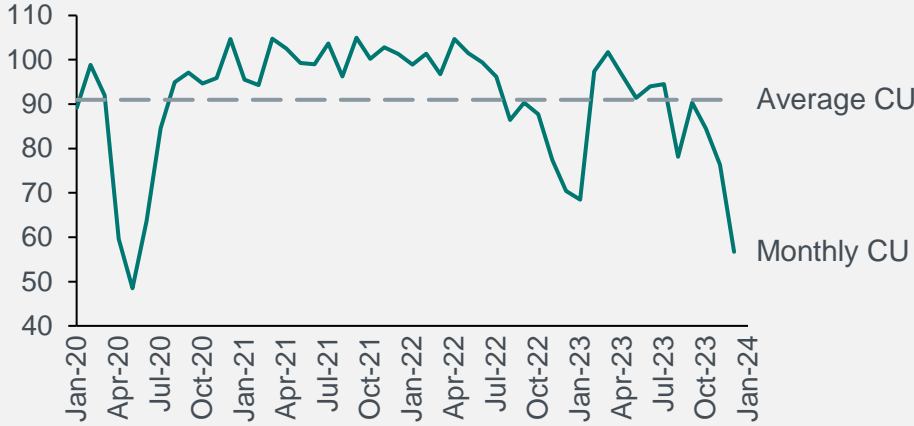
USD/mt, Europe



Source: Fastmarkets, Hydro analysis

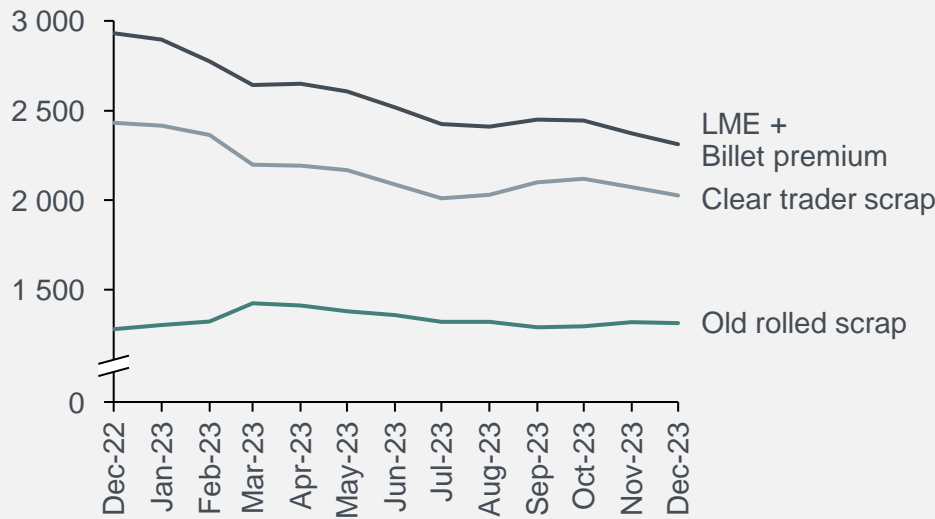
Capacity utilization

% production vs capacity, recyclers in Metal Markets



Scrap price development

USD/mt



Managing short-term volatility, freeing up cash



Large NOC release in Q4

Short and medium-term mitigation



Aluminium Metal

- Electrolysis production curtailed (~130kt Norwegian smelters)
- Volumes shifted between product segments
- Utilizing short-term flexibility in recyclers
- Strong margin management, and optimizing metal input and cost in recyclers



Extrusions

- Strong margin management
- Product portfolio and workforce flexibility
- Utilizing short-term flexibility in recyclers

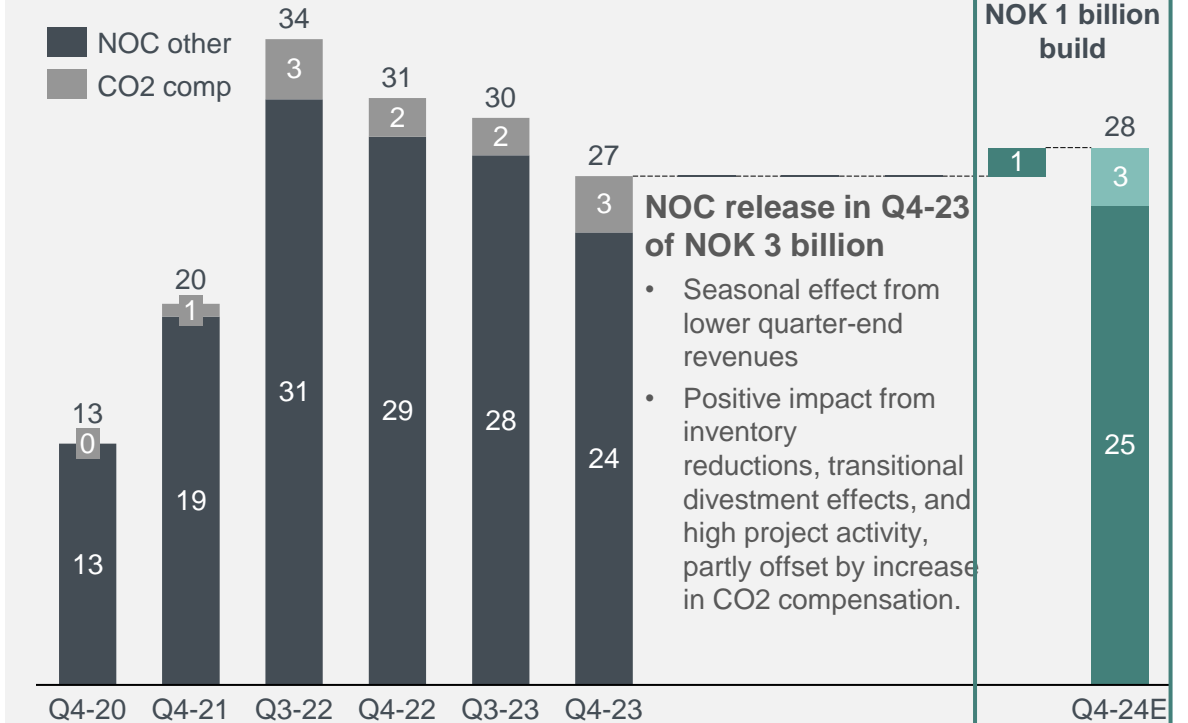


Hedging program to secure margins

- B&A: hedges for most of exposure to coal, electricity and gas in 2024
- MM & Extrusions: hedges for gas and power for 50% of exposure in 2024
- Integrated margin hedge in place for 2024 and 2025
- USD/BRL hedges in place for Alunorte and Albras

NOK 7 billion cash effective NOC release in 2023

Net operating capital, NOK billion



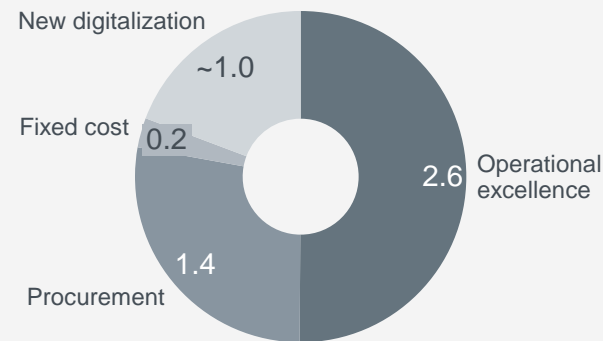
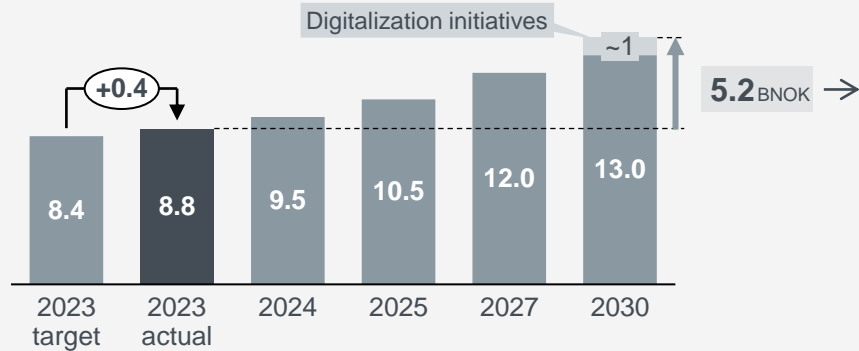
Exceeding 2023 improvement targets

2030 ambitions strengthened through greener premiums and digitalization



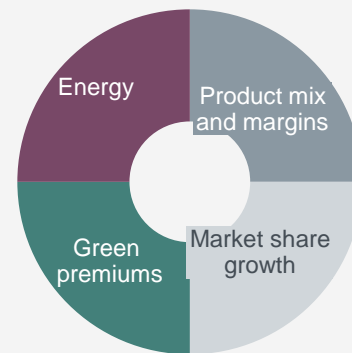
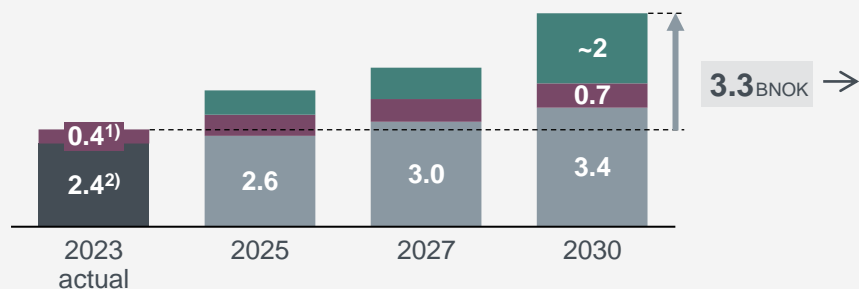
Improvement program

Ambitions extended with additional NOK 1 billion until 2030



Commercial initiatives

Ambition increased in 2025 and 2027, and extended with additional NOK 0.4 billion until 2030



Key achievements 2023:

- 2023 NOK 0.4 billion above target for improvement program
- Added Energy commercial initiative with a NOK 0.4 billion impact
- Fixed cost and procurement strongest drivers for achievement in improvement program
- B&A commercial achievements key contributor in commercial ambitions

Key levers 2024:

- Improving operational and commercial excellence, enabled by digitalization
- Expanding new products and corresponding margin contributions
- Leveraging on greener premiums

1) Added scope on top of initial target, Energy commercial improvements

2) Including greener premiums

Note: Estimated NOK 1.5 billion in annual average CAPEX to meet remaining improvement and commercial ambitions.

Hydro 2030:

Pioneering the green aluminium transition, powered by renewable energy

Key priorities towards 2030

1

Step up growth investments in Recycling and Extrusions to take lead in the market opportunities emerging from the green transition

2

Step up ambitions within renewable power generation

3

Execute on ambitious decarbonization and technology road map and step up to contribute to nature positive and a just transition

4

Shape the market for greener aluminium in partnership with customers

Growing recycling capacity, and securing scrap, supports 2030 targets

Increasing green field capacity



Production start at Cassopolis, U.S.

- Increasing annual recycling capacity with 120 kt, and post-consumer scrap use with 40 kt

Investing in Torija, Spain recycler

- Increasing annual recycling capacity with 120 kt, and post-consumer scrap use with 70 kt

Growing and extracting value from post-consumer scrap



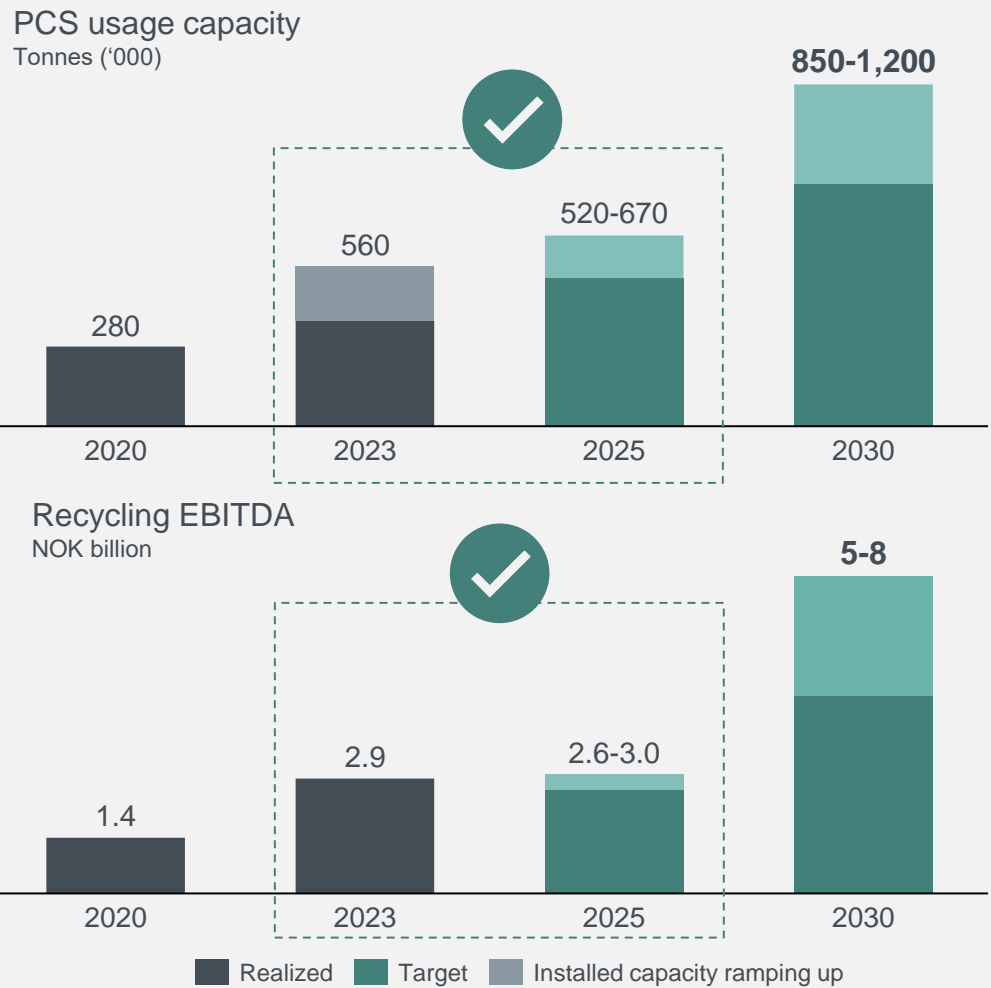
Padnos joint venture

- Industrializing HySort in the U.S., enabling more upcycling of 20 kt annual post-consumer scrap

Alumetal integration

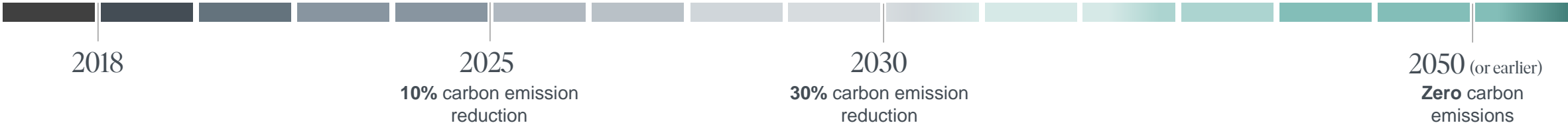
- Implementing identified synergies of EUR 10-15 million by 2027 - Recycled ingot to Norwegian smelters and combining sorting capabilities

Recycling targets 2030¹⁾



1) Range based on capex. High-range include ~70% of further potential capex given market and M&A. Including Alumetal for July 2023

Executing on ambitious decarbonization roadmap



Alunorte fuel switch

- Only days before FSRU is expected to arrive at Barcarena
- Minimal financial impact of delay



HalZero test facility at Herøya, Norway approved

- Next step in developing emission-free electrolysis technology for new smelter capacity



Testing emission-free plasma technology

- Decarbonization pilot with global potential at casthouse in Sunndal



Hydro CIRCAL, from 2.3 to 1.9 kgCO2/kgAl

- Documented lower-carbon footprint through advances in sourcing, sorting and traceability of post-consumer scrap



Founded on renewable energy

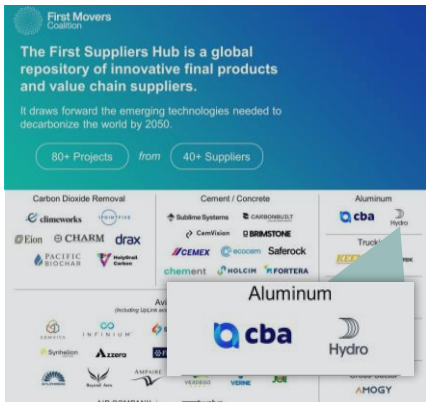
Shaping the market for greener aluminium

Joining the First Movers Coalition (FMC)



Joining forces with Volvo Group

- Hydro and Volvo Group will work together to accelerate net-zero transportation through establishment of roadmap towards 2030, enabling greater use of low-carbon aluminium

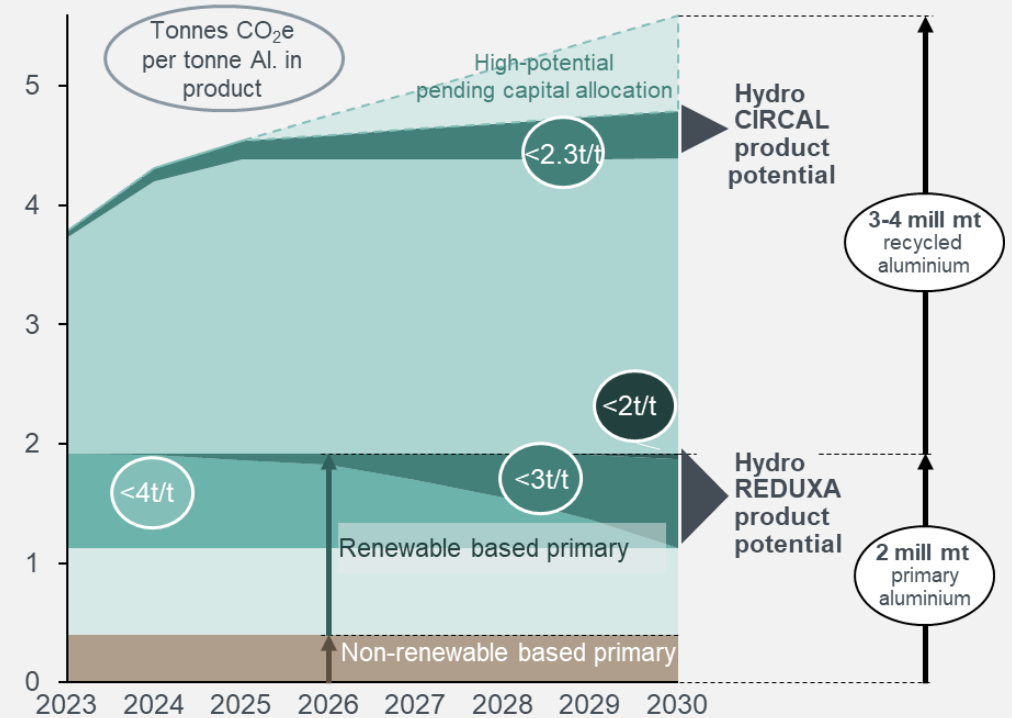


Joining the FMC's new "green" supplier database

- Hydro has qualified as a supplier of REDUXA 3.0 – Hydro as one of two suppliers of products below 3.0 tonne CO₂e per tonne Al in the world

Greener product capability from total aluminium portfolio¹⁾

Million tonnes capacity potential



1) Based on 2030 EU ETS cost and relative CO₂ reduction vs Hydro REDUXA 4.0 at current industry traded upcharge. Hydro REDUXA and CIRCAL potential based on estimated certification capacity. Primary capacity based on equity share renewable power. Hydro CIRCAL products have post-consumer scrap content > 75%

Powering the green aluminium transition

Project portfolio with robust return potential



Positive development on resource rent tax onshore wind

- The Norwegian Parliament has reached an agreement on the implementation of a resource rent tax on onshore wind power: **25 percent**, effect from January 1, 2024



Concession application for new hydropower plants

- Hydro and Lyse have applied for concession for five new hydropower stations in Røldal-Suldal
- An upgrade and expansion of the current plants could increase capacity by:
 - 800 GWh, gross
 - 650 MW



Hydro Rein and Årdal Energi collaboration

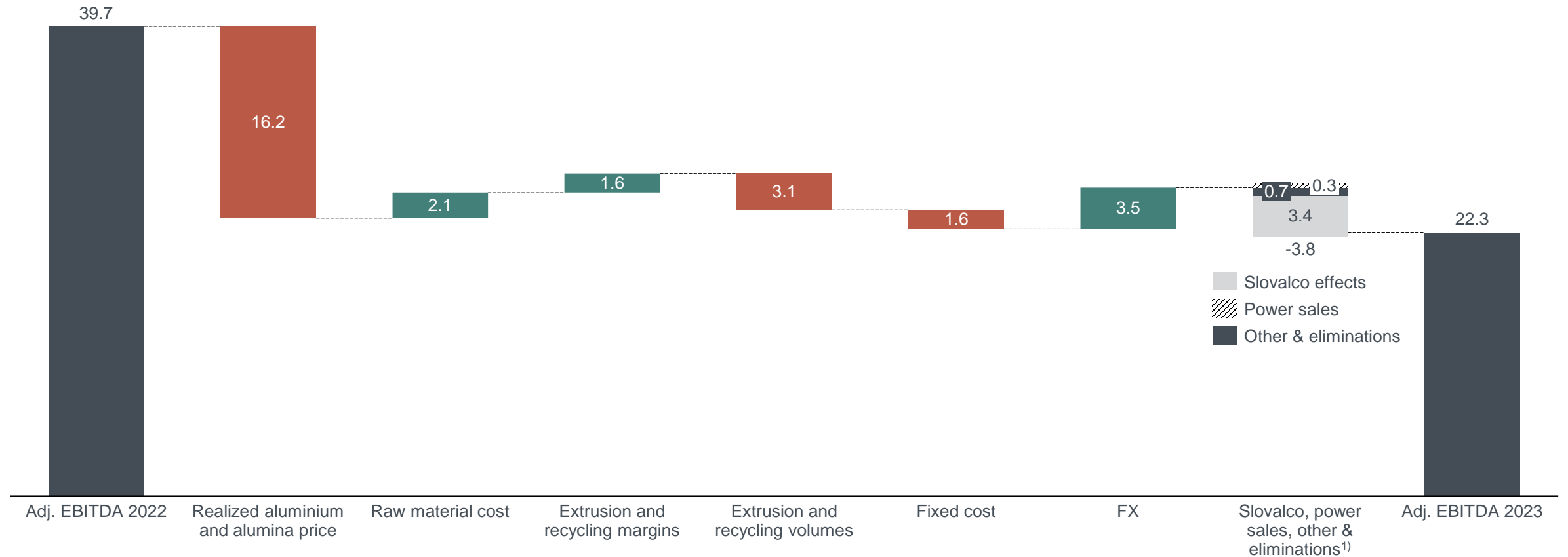
- Hydro Rein has signed a cooperation agreement with Årdal Energi to develop renewable projects in Årdal

Adj. EBITDA down on lower upstream prices



Marginally offset by FX, lower raw material cost and Extrusions margins

2023 vs 2022



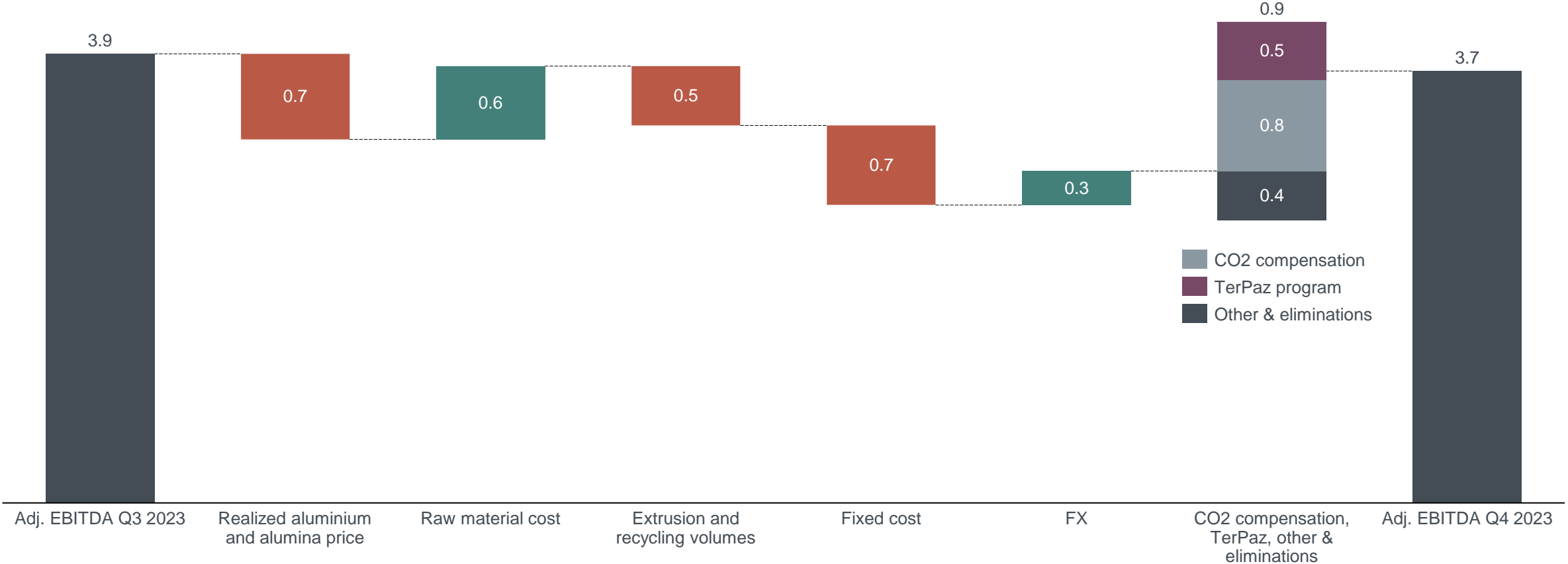
Note: 1) Power sales including Energy loss on buy-back contract with AM

Adj. EBITDA down on lower prices and Extrusions results



Partially offset by lower raw material cost, CO2 compensation adjustment and TerPaz

Q4 2023 vs Q3 2023



Note: 1) Excluding Energy loss on buy-back contract with AM

Key financials



NOK million	Q4 2023	Q4 2022	Q3 2023	Year 2022	Year 2023
Revenue	46 754	44 075	44 702	207 929	193 619
Reported EBITDA	4 673	3 930	1 975	39 536	23 291
Adjusting items to EBITDA	(936)	3 254	1 923	128	(1 033)
Adjusted EBITDA	3 737	7 184	3 899	39 664	22 258
Reported EBIT	(2 256)	1 405	(323)	30 715	9 592
Adjusted EBIT	1 231	4 946	1 600	31 179	12 983
Financial income (expense)	(259)	271	378	1 649	(3 046)
Reported Income (loss) before tax	(2 516)	1 676	55	32 365	6 546
Income taxes	(256)	(1 519)	(680)	(7 984)	(3 742)
Reported Net income (loss) from continuing operations	(2 771)	158	(625)	24 381	2 804
Adjusted net income (loss) from continuing operations	754	2 371	345	23 145	7 835
Earnings per share from continuing operations	(1.26)	0.12	(0.18)	11.76	1.77
Adjusted earnings per share from continuing operations	0.50	0.99	0.27	10.70	4.26
Income (loss) from discontinued operations ¹⁾	-	36	-	36	-

1) Income and expenses in the business to be sold are excluded from such income and expenses in continuing operations and reported separately as losses for discontinued operations. For further information and a specification of the result in the discontinued operations, see Note 4 Discontinued operations and assets held for sale to the interim financial statements

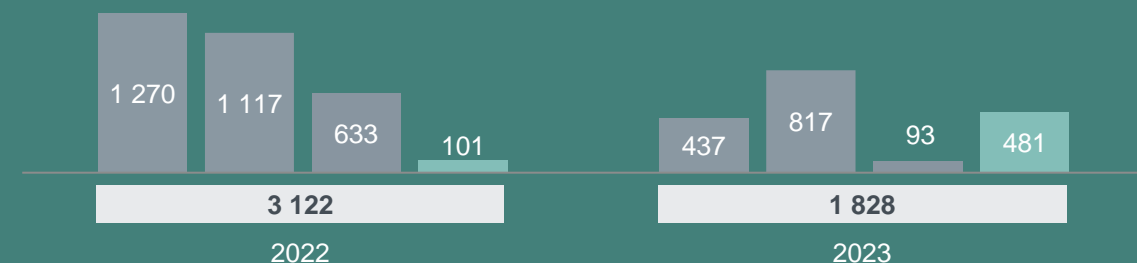
Hydro Bauxite & Alumina

Results up, mainly driven by lower raw material prices, partly offset by currency effects, lower bauxite production and higher fixed costs

Key figures	Q4 2023	Q4 2022	Q3 2023
Alumina production, kmt	1 571	1 559	1 522
Total alumina sales, kmt	2 487	2 220	2 229
Realized alumina price, USD/mt	349	342	349
Implied alumina cost, USD/mt ¹⁾	331	337	345
Bauxite production, kmt	2 771	2 824	2 848
Adjusted EBITDA, NOK million	481	101	93
Adjusted EBIT, NOK million	-269	-586	-610
Adjusted RoaCE, % LTM ²⁾	-2.5 %	1.8 %	-3.2 %

Adjusted EBITDA

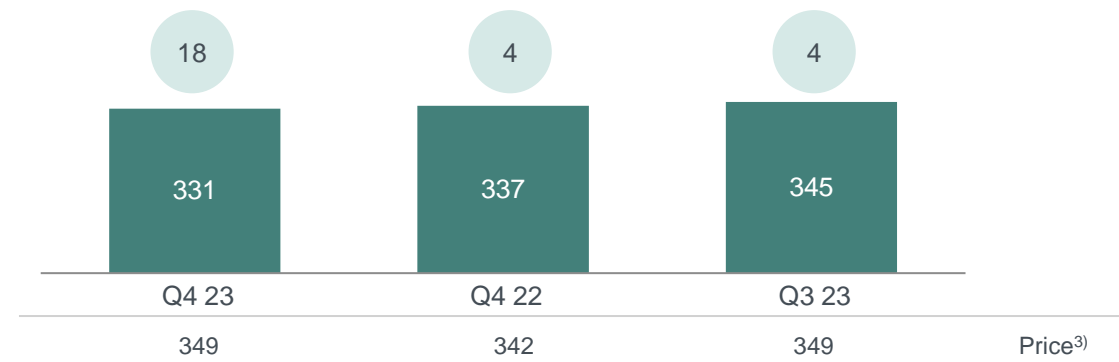
NOK million



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

Implied alumina cost and margin

USD/mt¹⁾



Implied EBITDA cost per mt¹⁾

All-in EBITDA margin per mt

Results Q4 23 vs Q4 22

- Lower raw material prices
- Stronger BRL against USD
- Lower bauxite production
- Higher fixed costs

Outlook Q1 24 vs Q4 23

- Alunorte production around nameplate capacity
- Higher alumina price
- Stable raw materials development

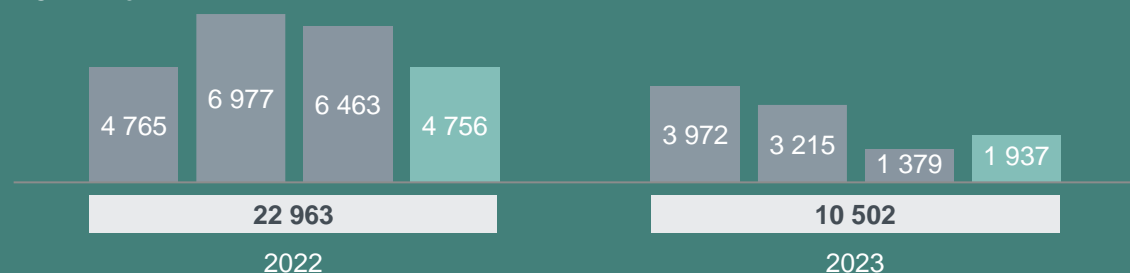
Hydro Aluminium Metal

Results down on lower all-in metal prices, reduced contribution from power sales and lower sales volume, partly offset by reduced raw material cost, adjusted CO2 compensation and positive currency effects

Key figures	Q4 2023	Q4 2022	Q3 2023
Primary aluminium production, kmt	514	522	512
Total sales, kmt	541	542	539
Realized LME price, USD/mt ¹⁾	2 129	2 246	2 146
Realized LME price, NOK/mt ¹⁾	23 143	22 813	22 456
Realized premium, USD/mt	348	577	432
Implied all-in primary cost, USD/mt ²⁾	2,125	2,250	2,225
Adjusted EBITDA, NOK million	1 937	4 756	1 379
Adjusted EBITDA including Qatalum 50% pro rata (NOK million)	2 487	5 256	1 896
Adjusted EBIT, NOK million	1 264	4 097	727
Adjusted RoaCE, % LTM ³⁾	13.8 %	35.4 %	18.5 %

Adjusted EBITDA

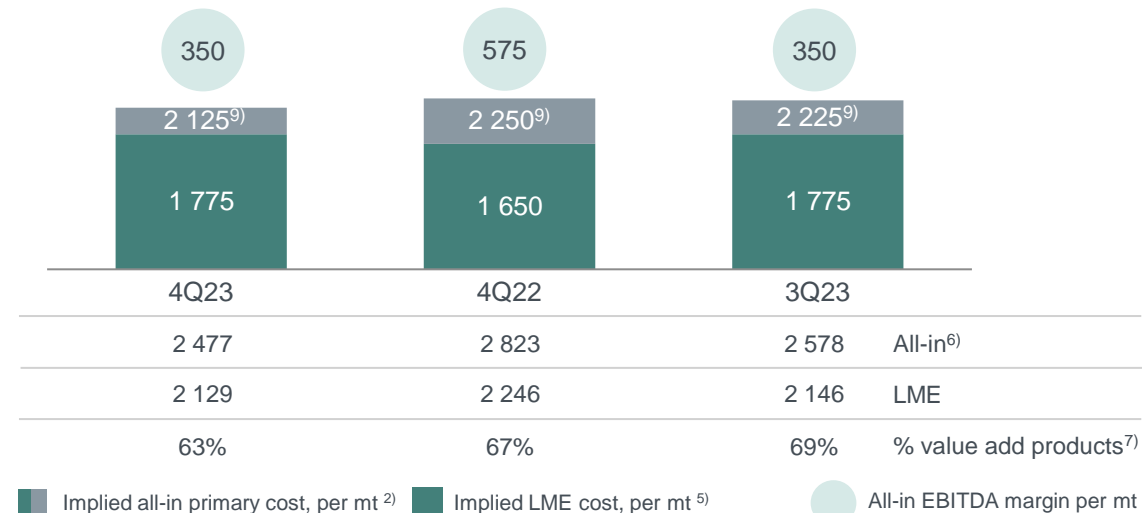
NOK million



- 1) Includes pricing effects from LME strategic hedge program
- 2) Realized all-in aluminium price minus Adjusted EBITDA margin, including Qatalum, per mt aluminium sold
- 3) Adjusted RoaCE calculated as Adjusted EBIT last 4 quarters less 25% tax / Average capital employed last 4 quarters
- 4) Implied primary costs and margin rounded to nearest USD 25
- 5) Realized LME aluminium price less Adjusted EBITDA margin, incl Qatalum, per mt primary aluminium produced

All-in implied primary cost and margin

USD/mt^{1,4)}



Results Q4 23 vs Q4 22

- Lower all-in metal prices
- Adjusted CO2 compensation
- Reduced raw material cost
- Positive currency effects
- Reduced contribution from power sales
- Lower sales volume

Outlook Q1 24 vs Q4 23

- 67% of primary production for Q1 2024 priced at USD 2255 per mt. ⁸⁾
- ~46% of premiums affecting Q1 2024 booked at USD ~373 per mt. Q1 realized premium expected in the range of USD 275 - 325 per mt.
- Lower raw material cost

- 6) Realized LME plus realized premiums, including Qatalum
- 7) % of volumes extrusion ingot, foundry alloy, sheet ingot, wire rod of total sales volumes
- 8) Bookings, also including pricing effects from LME strategic hedging program as per 31.12.2023
- 9) Excluding power sales Slovalco and Norwegian smelters and CO2 catch-up Q3 2022 and Q4 2023

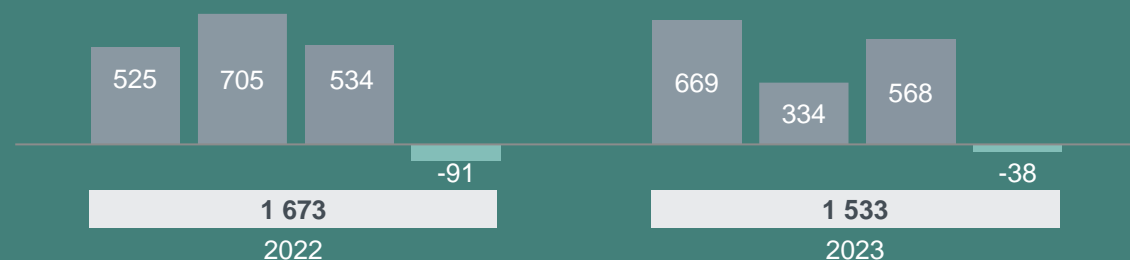
Metal Markets

Increased results from sourcing and trading activities, and positive inventory valuation and currency effects, partly offset by lower results from recyclers

Key figures	Q4 2023	Q4 2022	Q3 2023
Recycling production, kmt	166	115	176
Metal products sales, kmt ¹⁾	645	614	652
Adjusted EBITDA Recycling (NOK million)	58	342	274
Adjusted EBITDA Commercial (NOK million)	-97	-434	294
Adjusted EBITDA Metal Markets (NOK million)	-38	-91	568
Adjusted EBITDA excl. currency and inventory valuation effects	-36	160	566
Adjusted EBIT (NOK million)	-229	-134	482
Adjusted RoaCE, % LTM ²⁾	10.7 %	31.0 %	13.6 %

Adjusted EBITDA

NOK million



1) Includes external and internal sales from primary casthouse operations, remelters and third-party metal sources
 2) Adjusted RoaCE calculated as Adjusted EBIT last 4 quarters less 25% tax / Average capital employed last 4 quarters



Results Q4 23 vs Q4 22

- Increased results from sourcing and trading activities
- Positive inventory valuation and currency effects
- Lower results from recyclers on lower margins and Cassopolis ramp-up

Outlook Q1 24 vs Q4 23

- Increased results from sourcing and trading activities
- Positive currency effects
- Continued margin pressure in the recyclers
- Cassopolis ramp up

Softer extrusion demand in industrial and transport segments



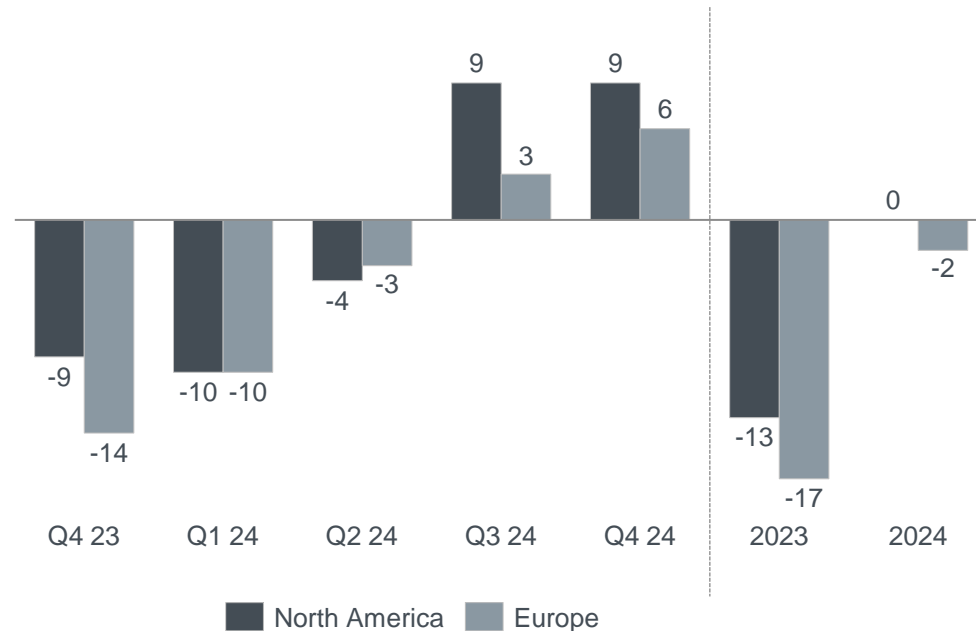
Expected demand improvement in second half of 2024 in both Europe and North America

External market forecasts*

Year over Year

Extrusion market growth per quarter and annually

Growth in %

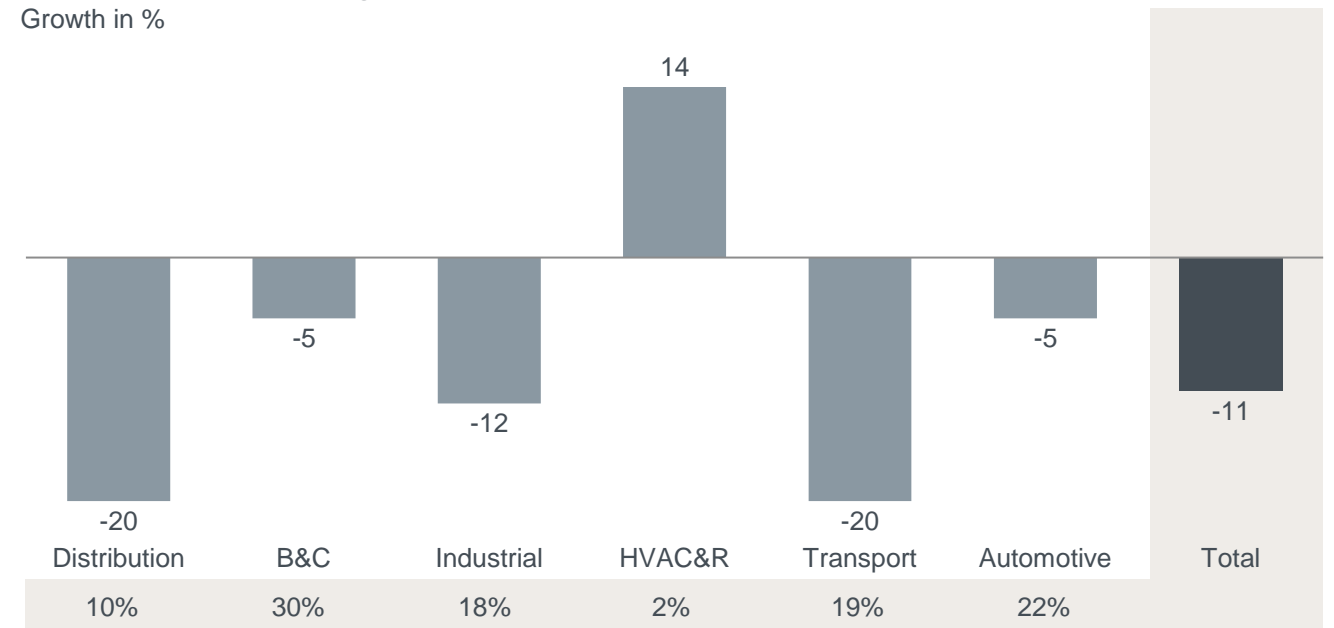


Extrusion sales volumes

Q4 2023 vs Q4 2022

Hydro Extrusions segment sales volume

Growth in %



Share of Q4 2023 Hydro Extrusions sales

*Source: CRU

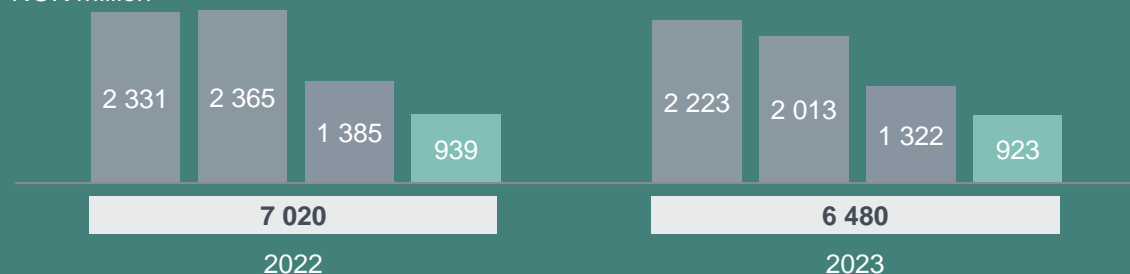
Hydro Extrusions

Stable results, lower sales volume and higher costs, offset by higher sales margins and currency

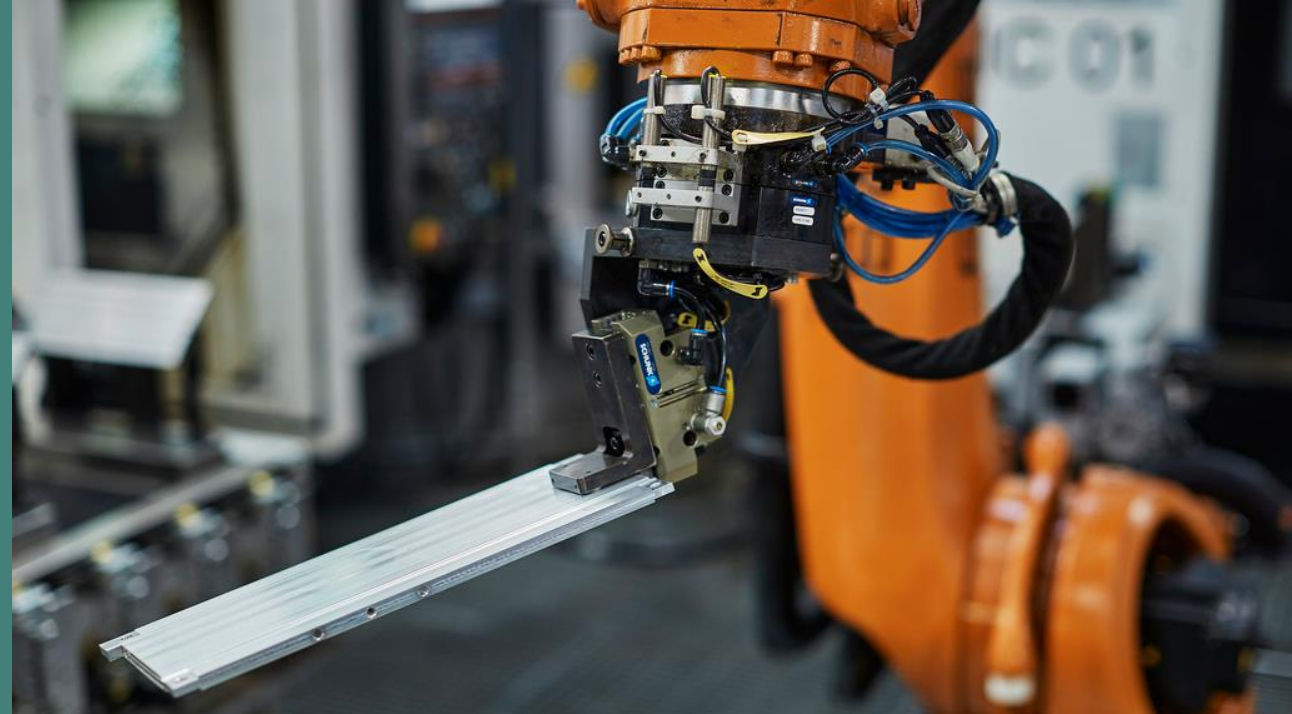
Key figures	Q4 2023	Q4 2022	Q3 2023
External sales volumes, kmt	236	265	260
Adjusted EBITDA, NOK million	923	939	1 322
Adjusted EBIT, NOK million	90	168	548
Adjusted RoaCE, % LTM ¹⁾	8.8%	11.4 %	9.1 %

Adjusted EBITDA

NOK million



1) Adjusted RoaCE calculated as Adjusted EBIT last 4 quarters less 25% tax / Average capital employed last 4 quarters. Previous periods have been restated following a change to the capital employed definition.



Results Q4 23 vs Q4 22

- Lower sales volumes
- Higher sales margins
- Higher variable costs
- Positive currency and metal effects

Outlook Q1 24 vs Q1 23

- Continued strong margins
- Lower sales volumes
- Higher fixed and variable costs
- Market uncertainty remains

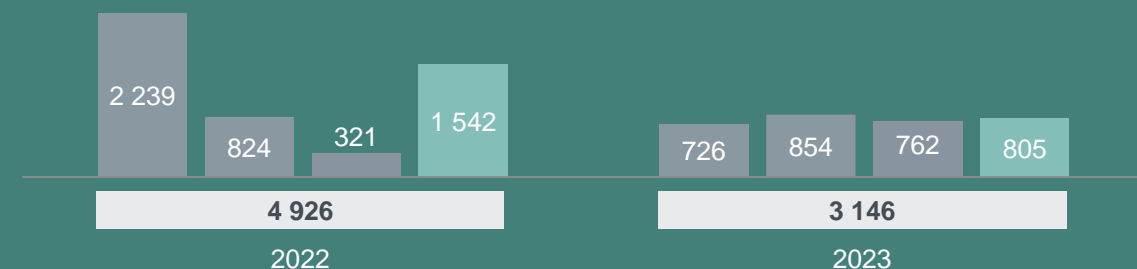
Hydro Energy

Lower results due to lower prices and lower gain on price area differences, partly offset by higher production and no loss from internal contract

Key figures	Q4 2023	Q4 2022	Q3 2023
Power production, GWh	2 440	2 002	2 216
Net spot sales, GWh ³⁾	101	511	24
Southwest Norway spot price (NO2), NOK/MWh	818	1 719	664
Adjusted EBITDA, NOK million	805	1 542	762
Adjusted EBIT, NOK million	755	1 493	712
Adjusted RoaCE, % LTM ^{1),2)}	13.0 %	29.5 %	20.2 %

Adjusted EBITDA

NOK million



- 1) Adjusted RoaCE calculated as Adjusted EBIT last 4 quarters less tax/ Average capital employed last 4 quarters
- 2) 40% tax rate applied for 2022 and 50% for 2023
- 3) Volume affected by disrupted delivery from a long-term power purchase agreement in the northern part of the Nord Pool area. The non-delivered volume were 0.5 TWh in the quarter



Results Q4 23 vs Q4 22

- Higher production
- Lower net spot sales mainly due to no purchase volumes from Aluminium Metal buy-back contract and Markbygden PPA delivery disruption³⁾
- Lower prices and lower gain on area price differences
- Lower trading and hedging results

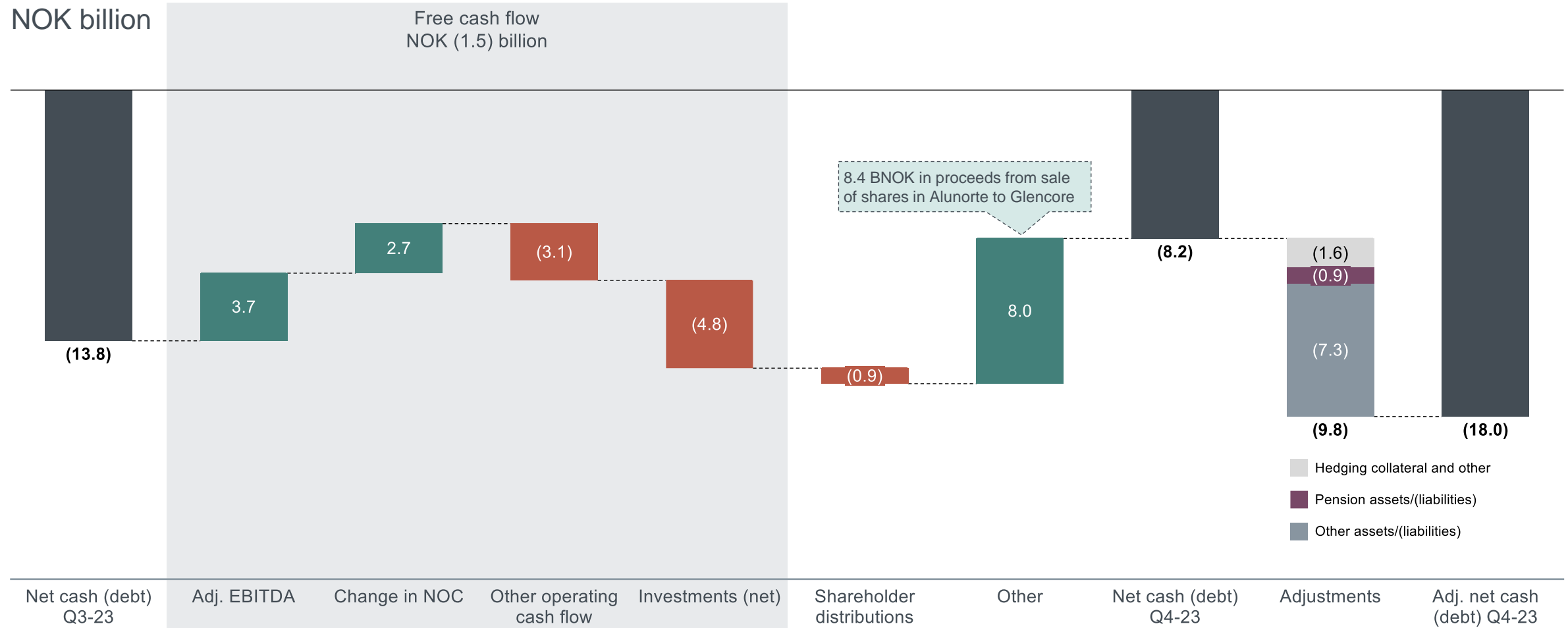
Outlook Q1 24 vs Q4 23

- Lower prices and lower gain on area price differences
- Continued price and volume uncertainty

Net debt decrease driven by sale of shares in Alunorte



Negative FCF due to taxes and investments offsetting EBITDA contribution and NOC release



Free cash flow: Excludes hedging collateral (LT/ST restricted cash) and net purchases of money market funds
Collateral: Includes collateral for short-term and long-term liabilities, mainly related to strategic hedges and the operational hedging activity

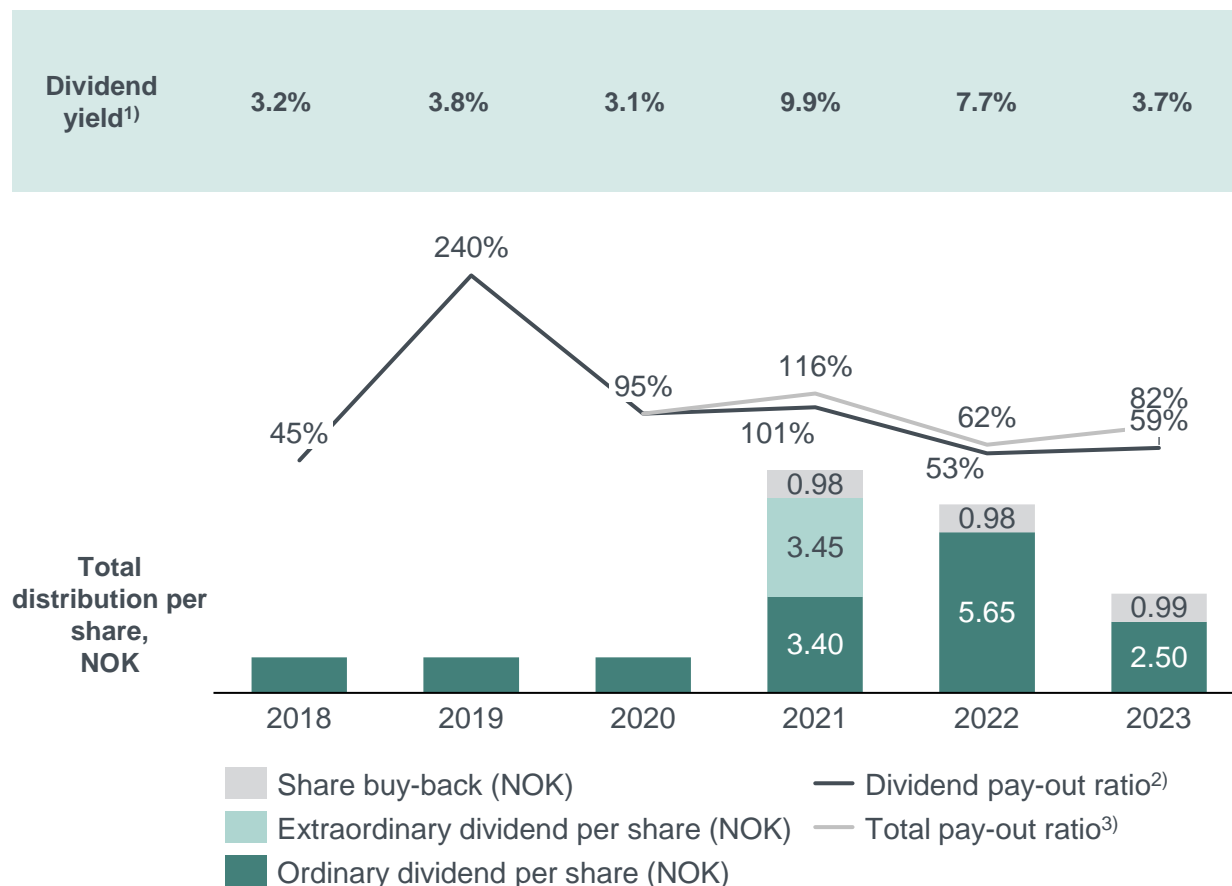
Board of Directors propose higher distribution than guided, on large NOC release in Q4

Healthy working capital release and a robust balance sheet enables another year of solid shareholder distribution

Shareholder distribution proposal

- NOK 2.5 cash dividend per share
 - Representing payout of NOK ~5 billion
 - ~59% of adjusted net income
- NOK 2 billion for new share buyback program
- In total ~81.5% of adjusted net income and NOK ~7 billion
- Average five-year payout ratio⁴⁾ of ~74%
 - ~87% including share buy-backs⁵⁾
- Payment conditional upon AGM approval May 7, 2023

1) Based on share price at year end
 2) Dividend per share divided by adjusted earnings per share from continuing operations.
 3) Distributed share of underlying net income including share buy-backs
 4) Average dividend per share divided by average adjusted earnings per share from continuing operations for last five years.
 5) Average total distribution per share divided by average adjusted earnings per share from continuing operations for last five years.



Our priorities

1

Health and
safety first

2

Maintain
robustness and
mitigate weaker
markets

3

Deliver on
Recycling,
Extrusions, and
Renewable
growth
ambitions

4

Execute on
decarbonization
and technology
road map

5

Seize
opportunities in
greener
aluminium at
premium
pricing

Pioneering the green aluminium transition,
powered by renewable energy

Lifting
profitability



Driving
sustainability





Additional slides

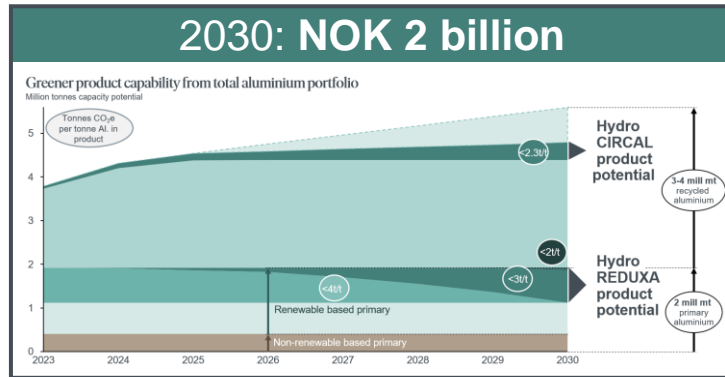


Position, Strategy and Ambitions

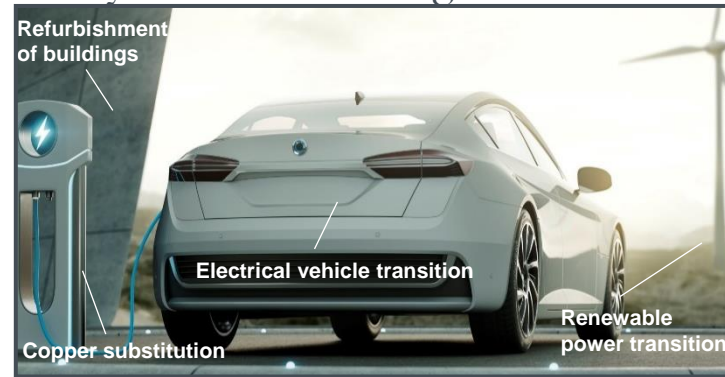
Why invest in Hydro



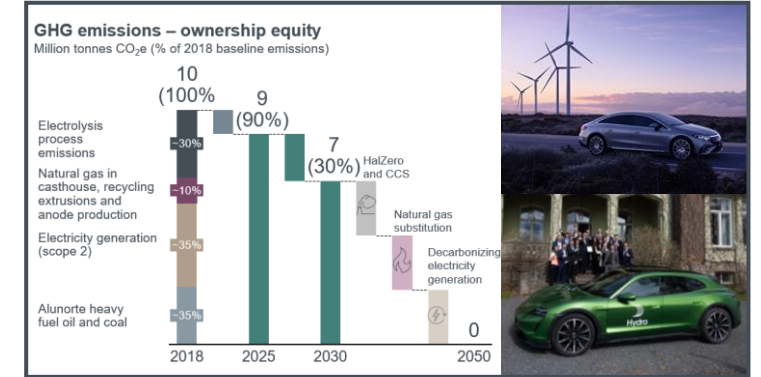
Greener earnings uplift potential 2030



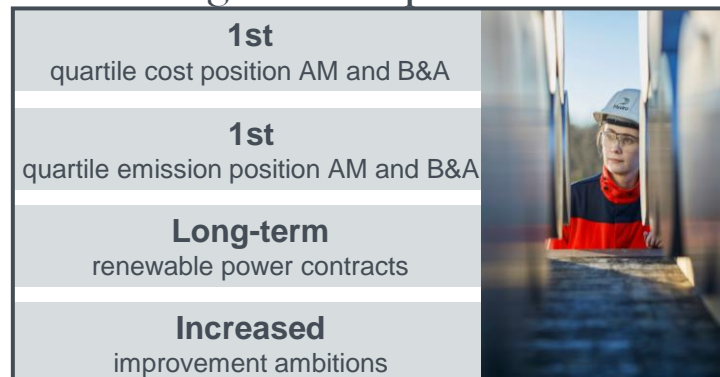
Portfolio of profitable growth projects as key enablers for the green transition



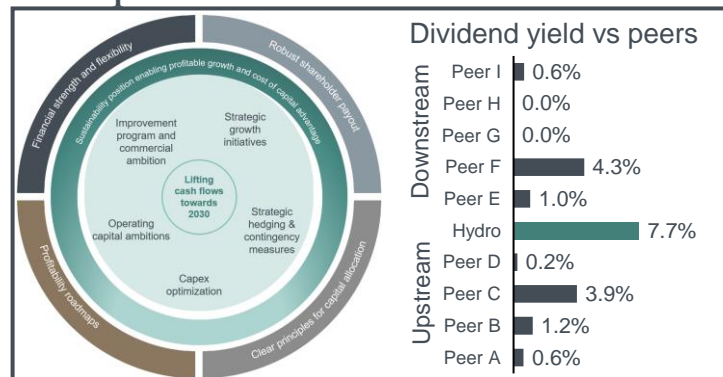
Pathway to net-zero aluminium products supported by partnerships



Robust positioning with ambition to strengthen competitiveness



Resilient financial framework and competitive shareholder distribution



Good track record on relative shareholder value creation





Hydro has a unique position to succeed in the new reality

118 years of industrial experience, solving global challenges through innovation, technological advances and strong commercial mindset

- Market leading position in low-carbon aluminium with a concrete roadmap towards zero
- Unique position with captive renewable energy resources and competence
- Low and robust cost position and strong track record on shareholder value creation
- Preferred supplier and sustainability partner on the way to zero, integrated value chain enables traceability “under one roof”
- Strong positions within the main markets in the EU and North America

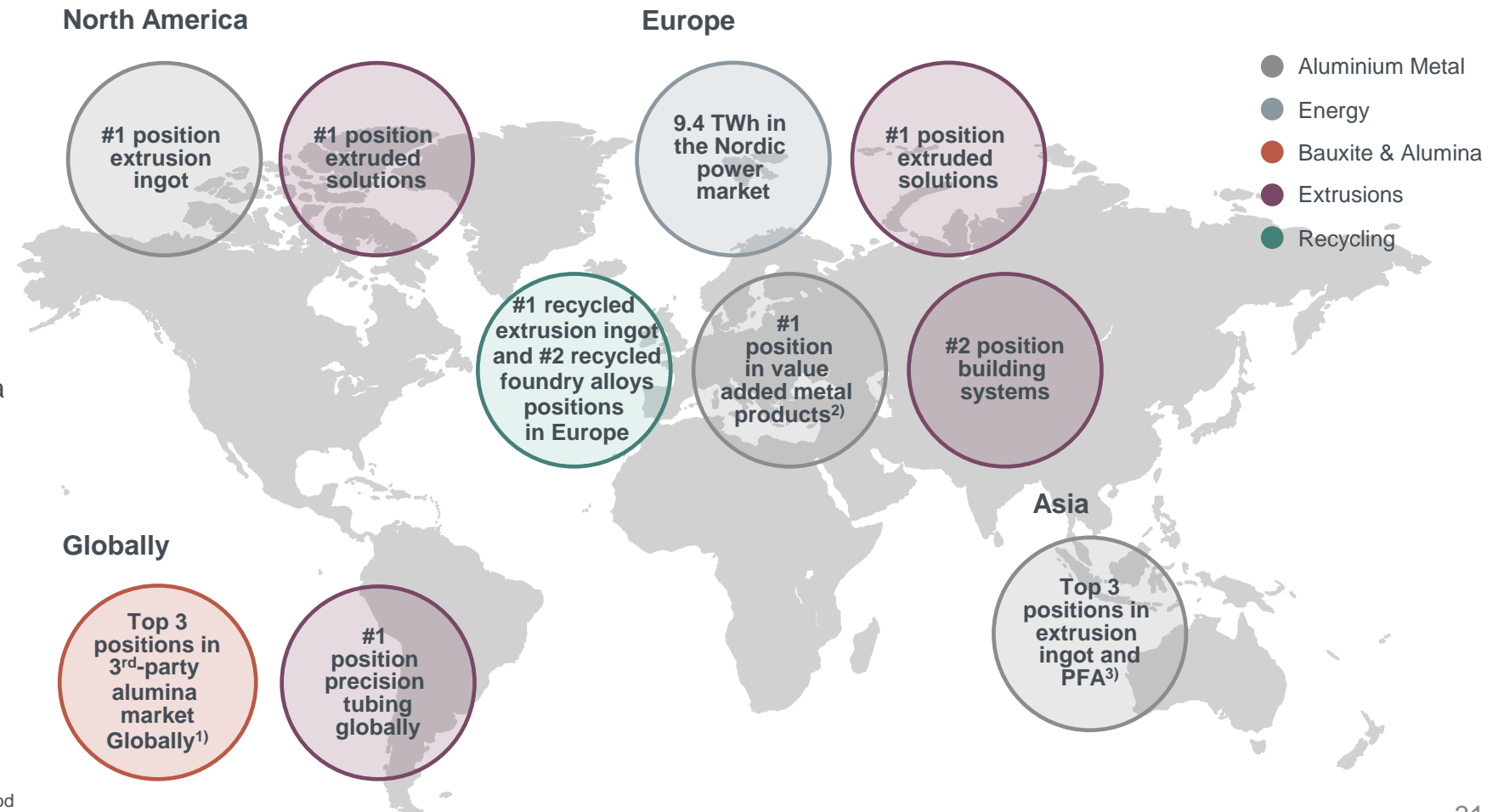


Strong global presence throughout the aluminium value chain

Built on market understanding, customer closeness and competence

The complete aluminium company

- Market leader in low-carbon aluminium with clear roadmap to net-zero
- High-quality bauxite and alumina production in Brazil
- The fourth largest aluminium producer outside China
- Primary production capacity in Norway, Qatar, Slovakia, Brazil, Canada, Australia
- 9.4 TWh captive hydropower production
- World leader in aluminium extruded profiles
- Broad recycling and remelt network in Europe and the U.S., including extrusion ingot and scrap-based foundry alloys
- Unparalleled technology and R&D organization



1) Outside China
 2) Extrusion ingot, sheet ingot, primary foundry alloys and wire rod
 3) Primary Foundry Alloys

Unique value proposition in aluminium

Combined offering of primary and recycled aluminium with a full product spectrum and with tailor-made alloys



Providing products with low emissions

Primary aluminium produced on renewable energy

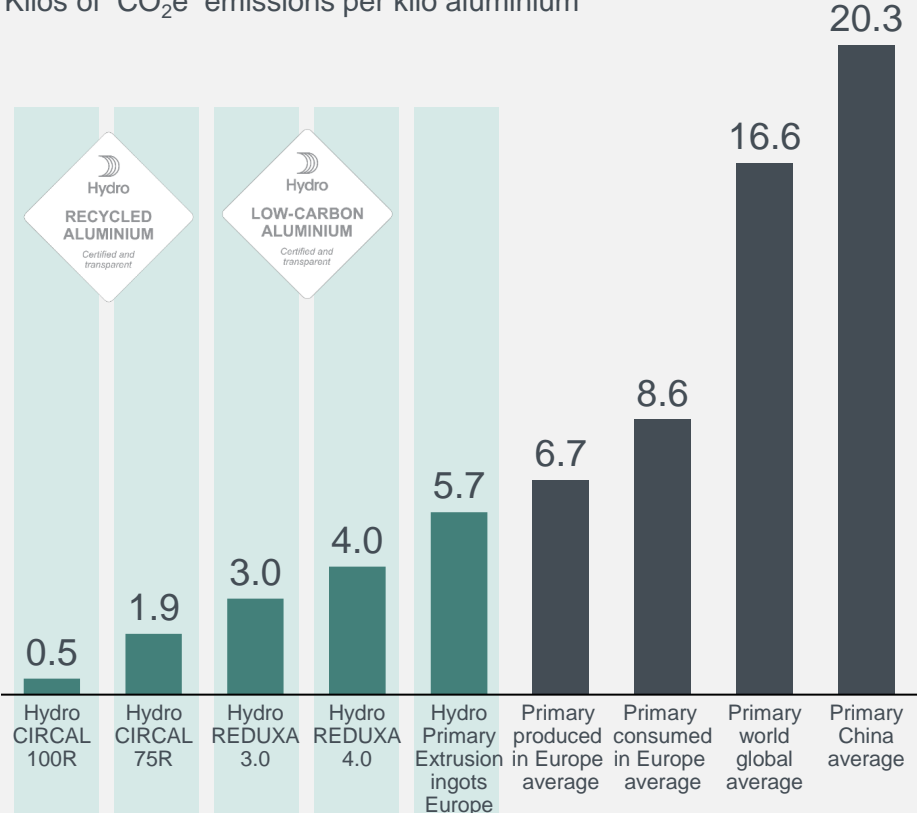


4-6 times lower than the world global primary average



More than **8 times** for 75R, and **33 times** for 100R lower than the world global primary average

Kilos of CO₂e emissions per kilo aluminium



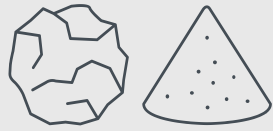



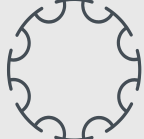
Sources: EAA, IAI, Hydro internal analysis

Uniquely positioned with an integrated value chain



Hydro's control of integrated value chain drives key decarbonization capabilities



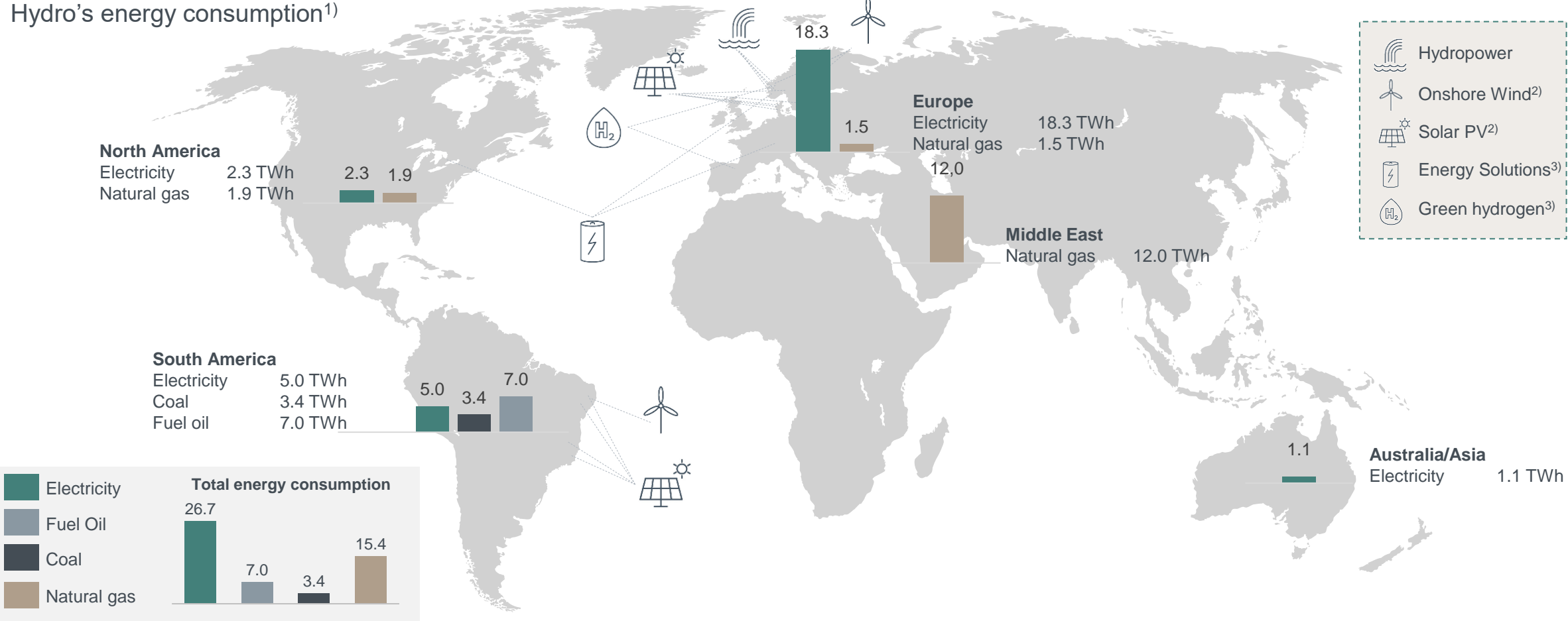
Business	 Bauxite & Alumina	 Aluminium Metal	 Recycling	 Energy	 Extrusions
Strong starting point	1 st quartile CO ₂ e emissions	Primary production with CO ₂ e content 65% lower than global average	Leading in PCS recycling for extrusion ingots Advanced sorting technology	Captive renewable power Leader in industrial PPAs	World's largest extrusion company with integrated recycling capacity EcoDesign driving circularity
Ambitious roadmap	1 st decile by 2025	Advanced HalZero and CCS technology to further reduce smelting emissions	Increasing PCS recycling up to 850-1,200 kt by 2030	Renewables developer, including batteries and hydrogen	Greener local energy sourcing Increased recycling

Certified, traceable, low-carbon aluminium

Pioneering the green aluminium transition, powered by renewable energy



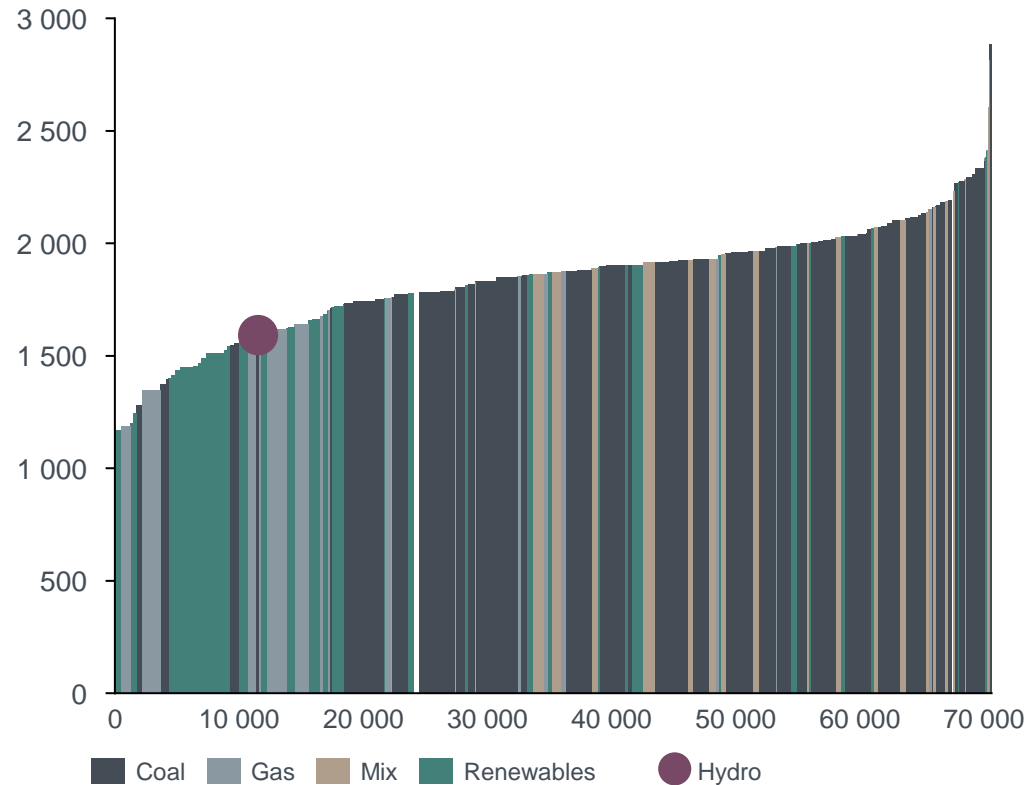
Hydro's energy consumption¹⁾



1) Based on equity-adjusted 2022 values for Norsk Hydro's bauxite mines, alumina refineries, smelters, remelters and extrusion plants.
 2) Only projects in operation and under construction or announced. 3) Only pilot projects

Long term renewable power contracts ensure robustness

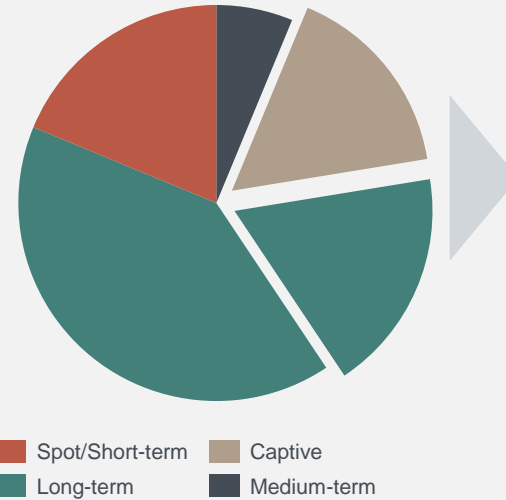
Smelter business operating cost curve 2023
USD/tonne



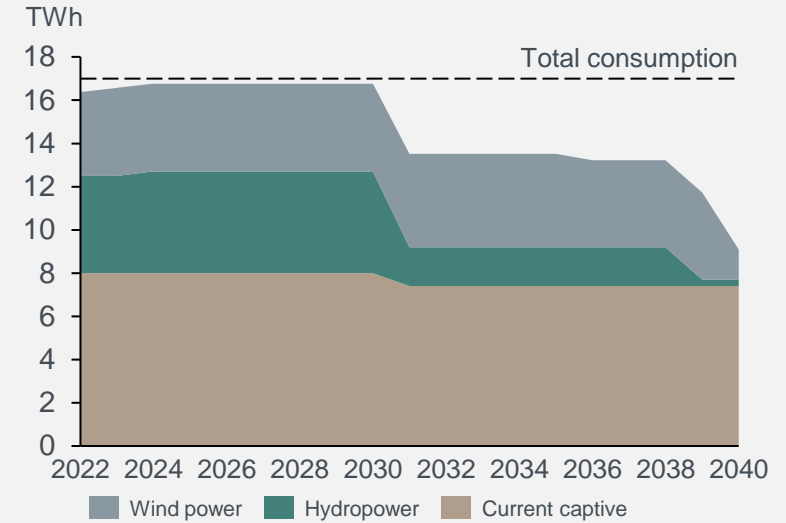
Source: CRU, Hydro analysis

1) Net ~8 TWh captive assumed available for smelters. 2) Hydro Share: Qatalum captive (50%), Alouette (20%), Tomago (12.4%), Albras (51%). 3) Total Alunorte and Paragominas – all consumption sourced through Hydro

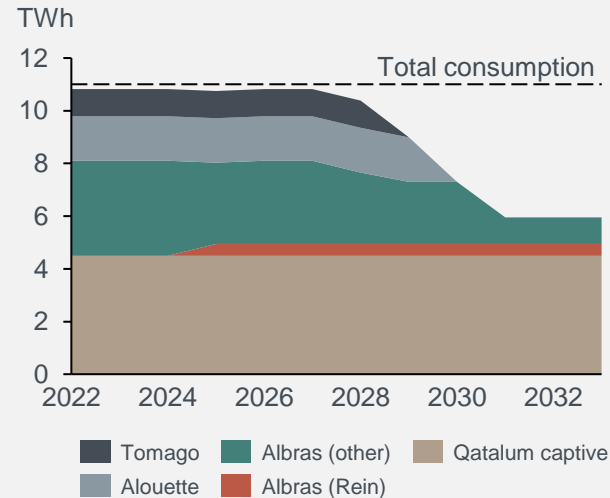
Power sourcing for smelters in Europe



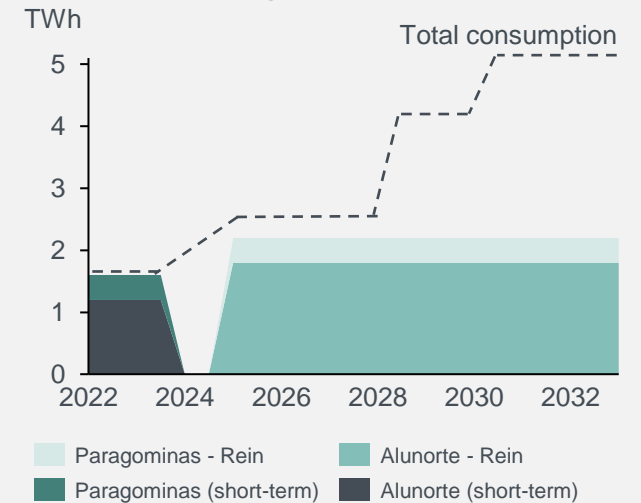
Power sourcing for Hydro smelters in Norway¹⁾



Power sourcing for Hydro JV smelters²⁾



Power sourcing for Hydro B&A³⁾

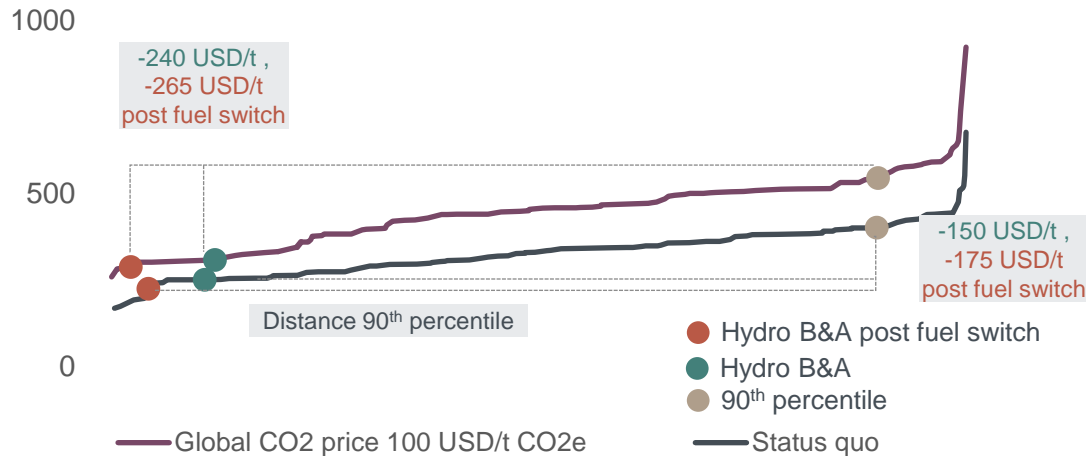


Steeper cost curve, low-carbon demand and robust position drive margin potential



Bauxite & Alumina

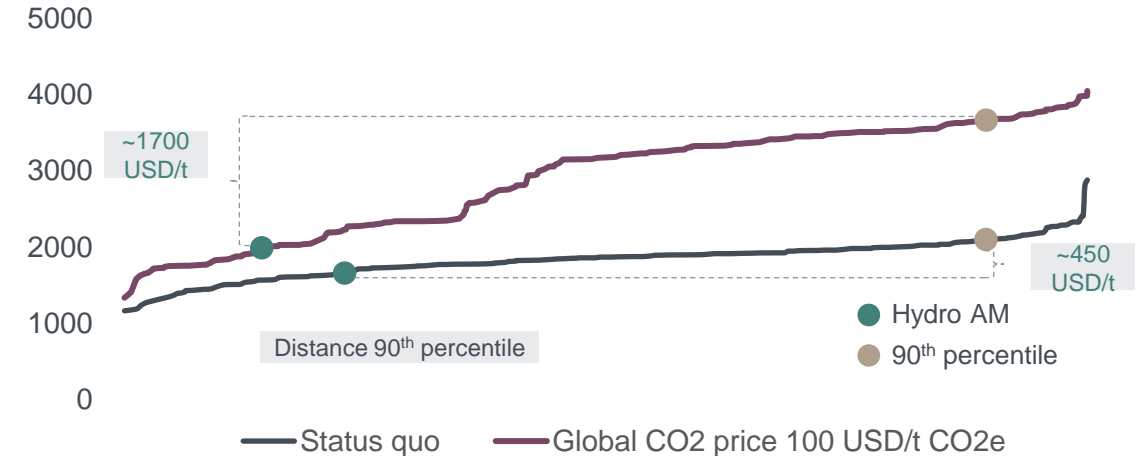
Alumina Business Operating Cost curve (2023)



- Competitively positioned on the global cost curve at the 30th percentile
- Fuel switch & electrical boilers lower costs, and reduce carbon emissions by 30% by 2025
- Global carbon price would improve relative competitive position in Hydro B&A

Aluminium Metal

Smelter Business Operating Cost curve¹⁾ (2023)



- Competitive relative position on the global cost curve at the 20th percentile
- Strong portfolio of low-carbon smelters
- Global carbon price would improve relative competitive position in Aluminium Metal

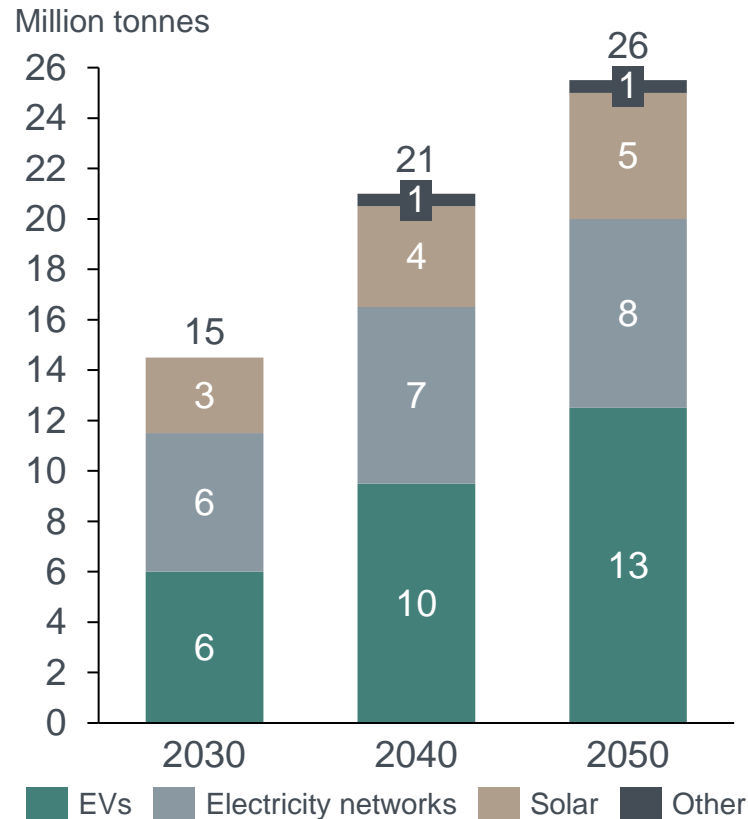
1) Assumptions: LME 3m 2,458 USD/t, Alumina 293 USD/t, SHFE cash 2,909 USD/t, NOK/USD 8.79
Source: CRU cost model

Aluminium is a key enabler for the entire green transition



2030 energy transition will require 15-22 million tonnes aluminium, increasing to 25-42 million tonnes by 2050

Additional aluminium demand from green transition enablers¹⁾



E-mobility transition

Automotive CAGR 2022-30
8 - 10%
Aluminium content per car to grow by
25% in 2030²⁾

Circular building & construction solutions

EU set mandatory energy consumption reduction target of **11.7% by 2030**

Heating & cooling

Market share aluminium from 17% to **25% in 2030³⁾**

Solar panel solutions

CAGR EU 2022-30 for solar segment
10 - 15 %⁴⁾

Copper substitution

Adjusted for conductivity, aluminium is approx **50% lighter** compared to copper ⁵⁾

Electricity grids

Reaching 1.5 degree scenario will require adding or refurbishing **80 million kms of grids by 2040⁶⁾**

1) Additional demand related to green transition technologies in STEPS scenario. Sources: 2) Ducker 3) Hydro analysis 4) BNEF 5) CRU 6) IEA

Shifting gear to capture opportunities in a new reality



Key steps for Hydro to lead the green aluminium transition towards 2030



1

Step up growth investments in Recycling and Extrusions to take lead in the market opportunities emerging from the green transition



2

Step up ambitions within renewable power generation



3

Execute on ambitious decarbonization and technology road map and step up to contribute to nature positive and a just transition



4

Shape the market for greener aluminium in partnership with customers

Step up growth investments in Extrusions



- 1
- 2
- 3
- 4



- Increase market share in high-growth, non-commoditized segments leveraging innovation and solution offerings



- Develop and grow capacity and capabilities through investments in new presses, fabrication, value added services, and recycling



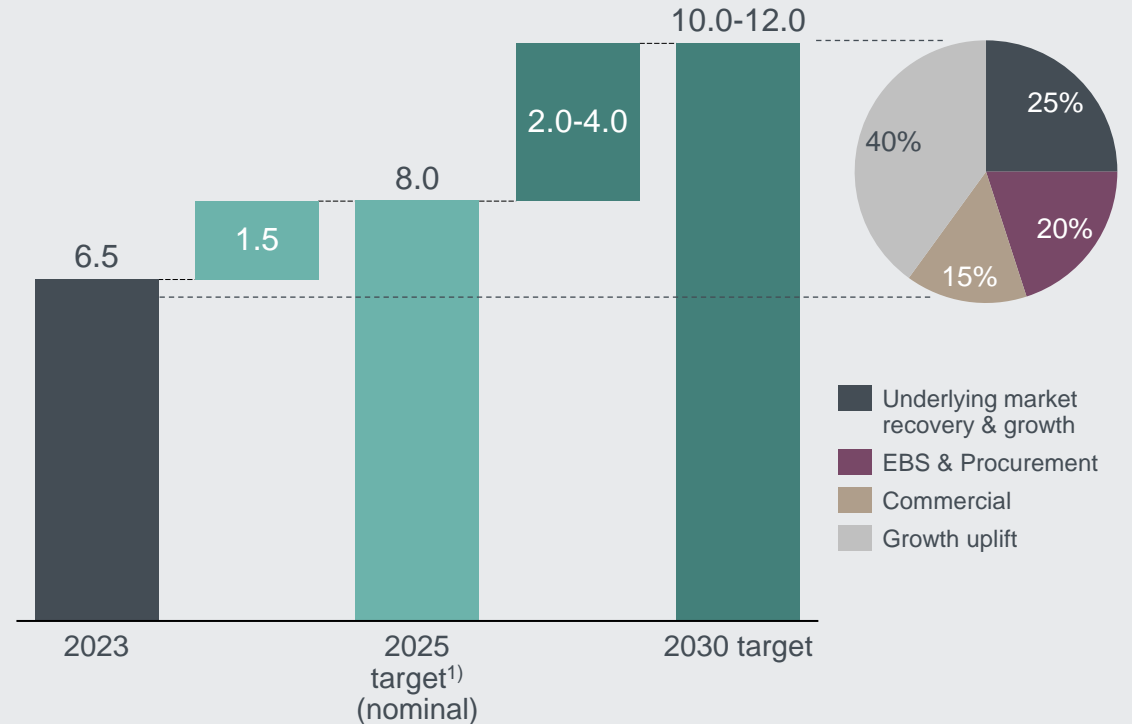
- Commercial opportunities from sustainability, through segmentation and greener offerings



- Increase digitalization and standardization to drive procurement excellence and reduce energy consumption

Extrusions EBITDA

NOK billion (real 2023)



1) Target 2025 in nominal terms as communicated in 2021. Range target for 2030 in real terms

Step up growth investments in Recycling



- 1
- 2
- 3
- 4



Strengthen scrap sorting capabilities, secure feedstock



Expand global asset base across the value chain

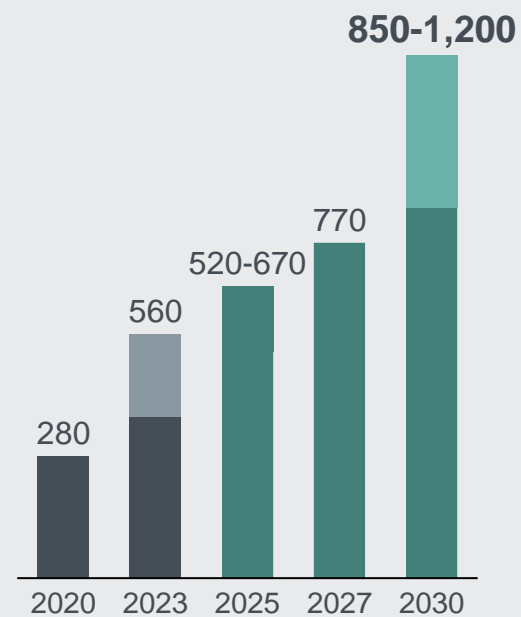


Diversify product portfolio, develop innovative solutions

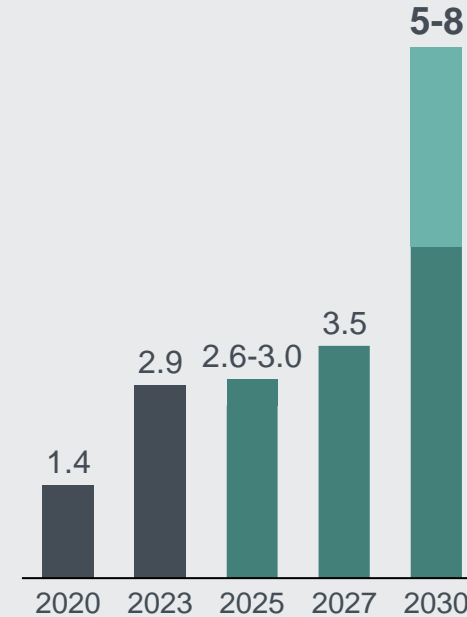


Shape market for recycled products in partnership with customers

PCS usage capacity¹⁾
Tonnes ('000)



Recycling EBITDA¹⁾
NOK billion



■ Realized ■ Target ■ Installed capacity ramping up

1) Range based on capex. High-range include ~70% of further potential capex given market and M&A. Including Alumetal for July 2023

Step up our ambitions and efforts in renewable power generation

- 1
- 2
- 3
- 4

Secure access to renewable power through hydropower system upgrades and expansions



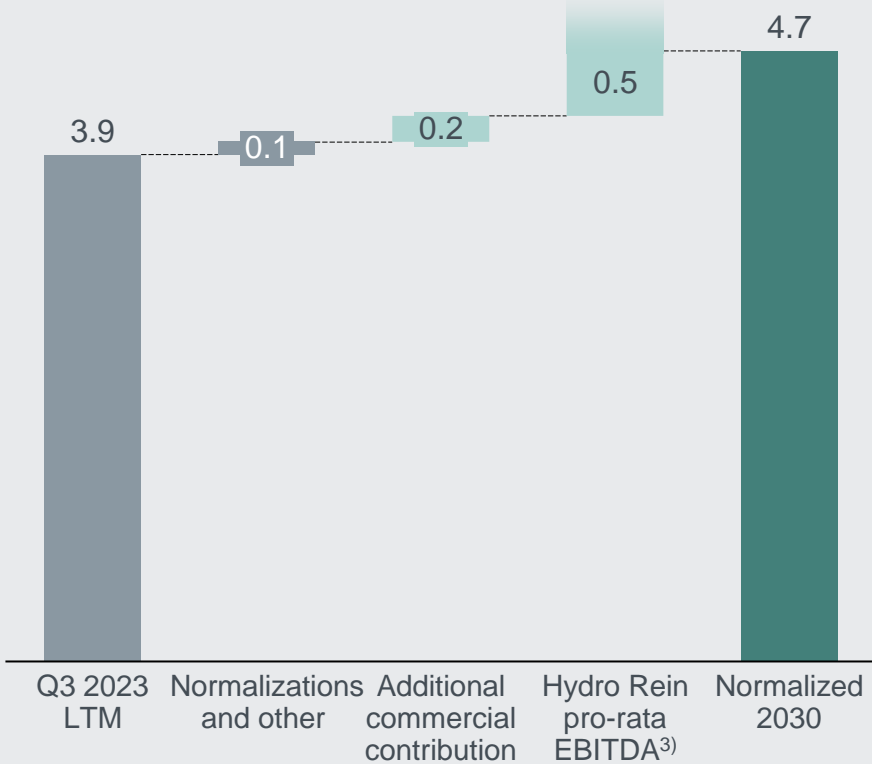
- Grow and upgrade existing hydropower plants to capture peak prices, increasing value of flexibility
- Expand market operations and commercial ambitions based on hydropower reservoir capacity, balancing power from wind and solar, and commercial positions

Hydro Rein to deliver onshore wind and solar projects, main focus in the Nordics and Europe



- Pursue profitable projects through JV owned by Hydro and Macquarie Asset Management
- Current portfolio¹⁾ add 2.4 TWh to Rein's captive power and 5.3 TWh long term PPAs to Hydro
- Sustainable and attractive risk-adjusted returns of eIRR 10-20%

EBITDA 2030 Hydro Energy Classic and Hydro Rein
NOK billion²⁾



1) Projects in construction and secured 2) Commercial contribution in AEBITDA Q3-23 LTM of NOK 0.5 billion included 3) Hydro's share of joint venture EBITDA from assets. Level pending margins, farm downs, growth, debt level/other funding

Execute on ambitious decarbonization and technology road map, step up to contribute to nature positive and a just transition



Climate



Forcefully deliver on net-zero roadmap, decarbonizing value chain from mine-to-components

- Net-zero scope 1 and 2 GHG emissions by 2050 or earlier
- On track to meet 30 percent reduction in scope 1 and 2 CO2e by 2030
- 30% reduction of upstream scope 3 GHG emissions per tonne aluminium by 2030
- 850-1200 kTonnes post-consumer scrap recycling capacity by 2030


Nature



Contribute to a nature positive future through initiatives on biodiversity, emissions reduction and supply chain management

- No Net Loss of biodiversity for Hydro's bauxite mine, from a 2020 baseline
- No Net Loss of biodiversity for new projects
- 1:1 reforestation on track
- 50% reduction in material non-GHG emissions by 2030
- Eliminate landfill of all recoverable waste by 2040

Social



Improve lives and livelihoods wherever Hydro operates by supporting a just transition

- On track to deliver on target of empowering 500,000 people with skills and education by 2030
- Significant social projects completed in Brazil
- Transparency and traceability of key product sustainability data by 2025 or earlier

Shape market for greener aluminium, in partnership with customers

- 1
- 2
- 3
- 4

Utilize Hydro's combined strengths as a fully integrated company from mine to metal

Partner with strategic customers to grow market for greener aluminium

Partner with Original Equipment Manufacturers to champion joint decarbonization targets

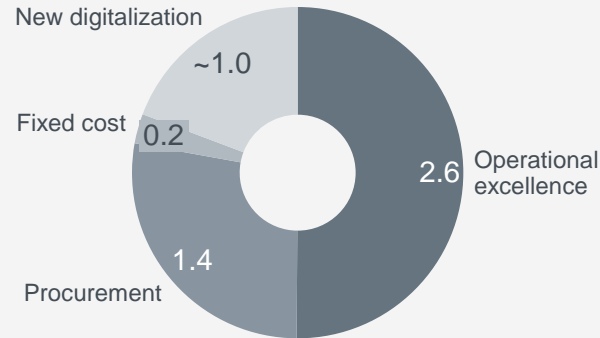
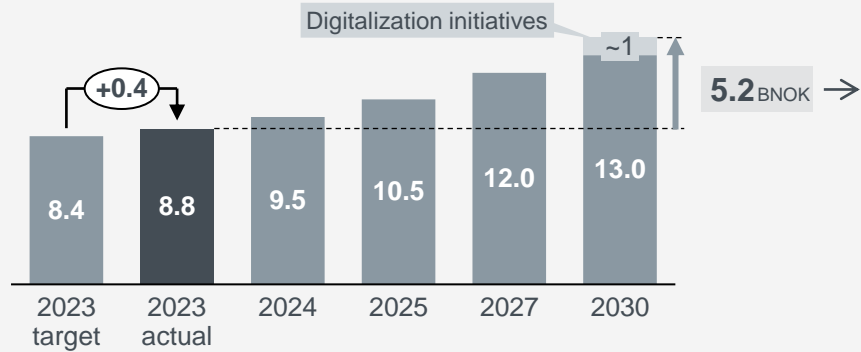


Extended improvement ambitions

Strengthening future competitiveness and positioning with additional potential from digitalization, greener premiums and commercial improvements in Energy

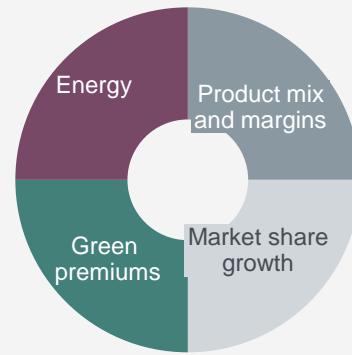
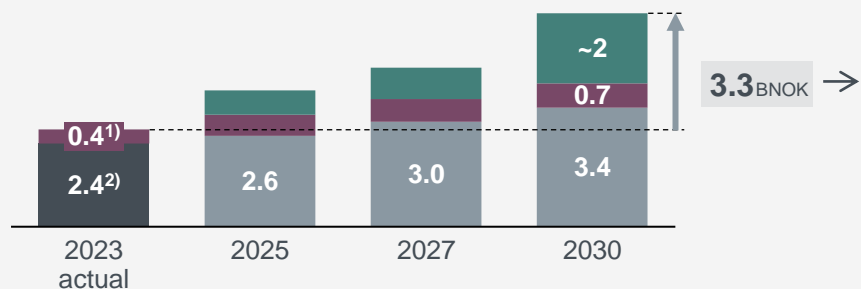
Improvement program

Ambitions extended with additional NOK 1 billion until 2030



Commercial initiatives

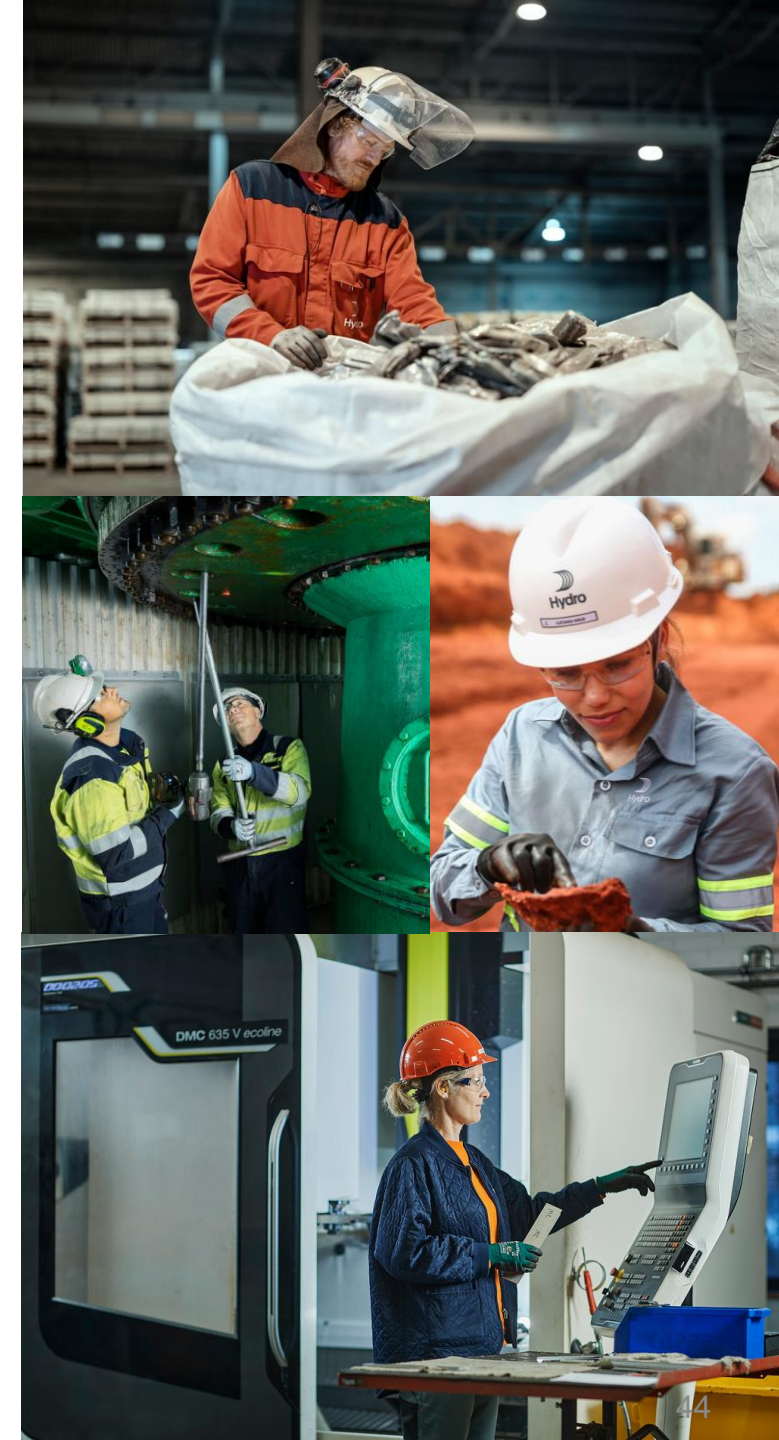
Ambition increased in 2025 and 2027, and extended with additional NOK 0.4 billion until 2030



1) Added scope on top of initial target, Energy commercial improvements

2) Including greener premiums

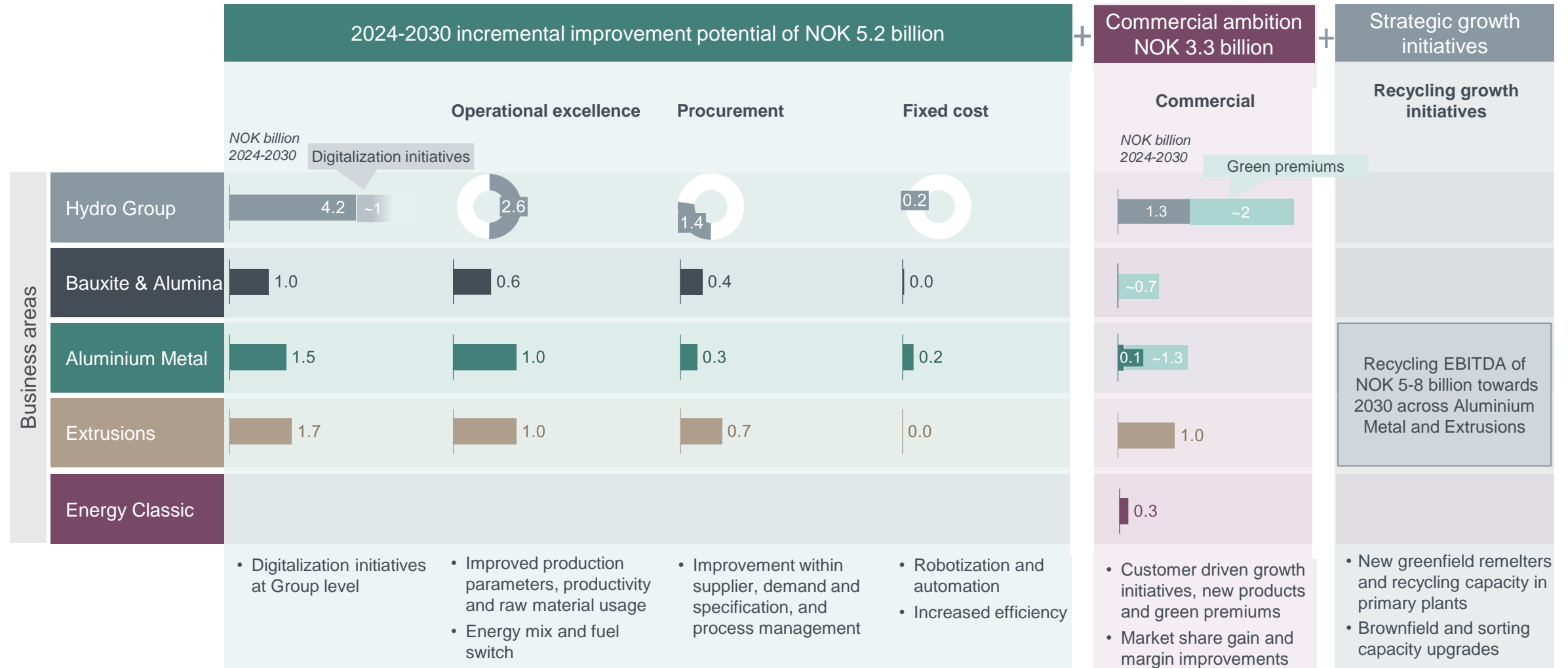
Note: Estimated NOK 1.5 billion in annual average CAPEX to meet remaining improvement and commercial ambitions.



Extending the improvement ambitions to 2030



Targeting NOK 14.0 billion in accumulated improvements and NOK 6.1 billion in commercial ambitions by 2030



Note: ~1.5-2 BNOK in annual average CAPEX to meet remaining improvements and commercial ambitions

Greener earnings uplift potential 2030

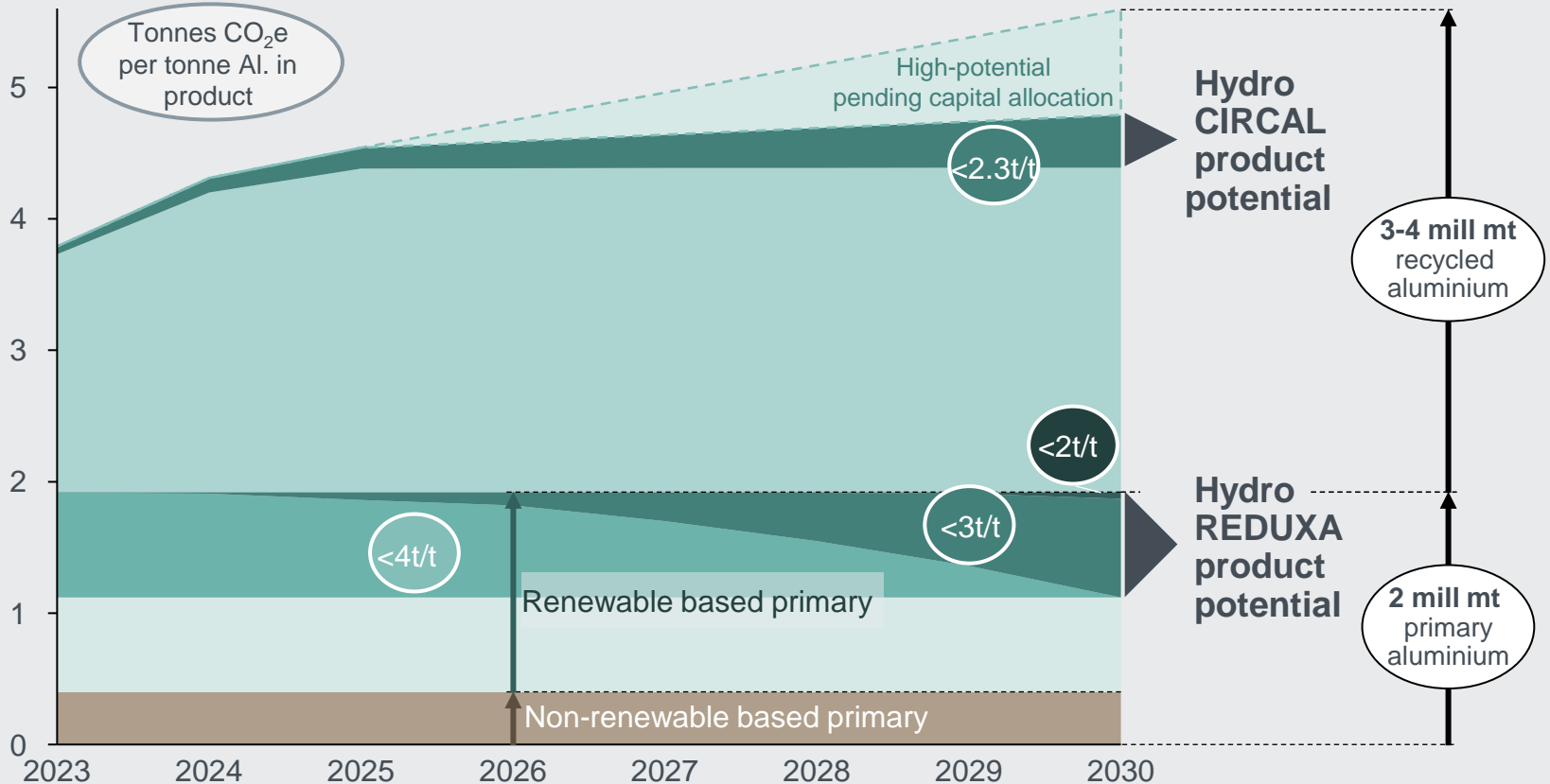


NOK 2 billion¹⁾

Hydro is pioneering the green aluminium transition

Greener product capability from total aluminium portfolio¹⁾

Million tonnes capacity potential



¹⁾ Based on 2030 EU ETS cost and relative CO₂ reduction vs Hydro REDUXA 4.0 at current industry traded upcharge. Hydro REDUXA and CIRCAL potential based on estimated certification capacity. Primary capacity based on equity share renewable power. Hydro CIRCAL products have post-consumer scrap content > 75% ⁴⁶

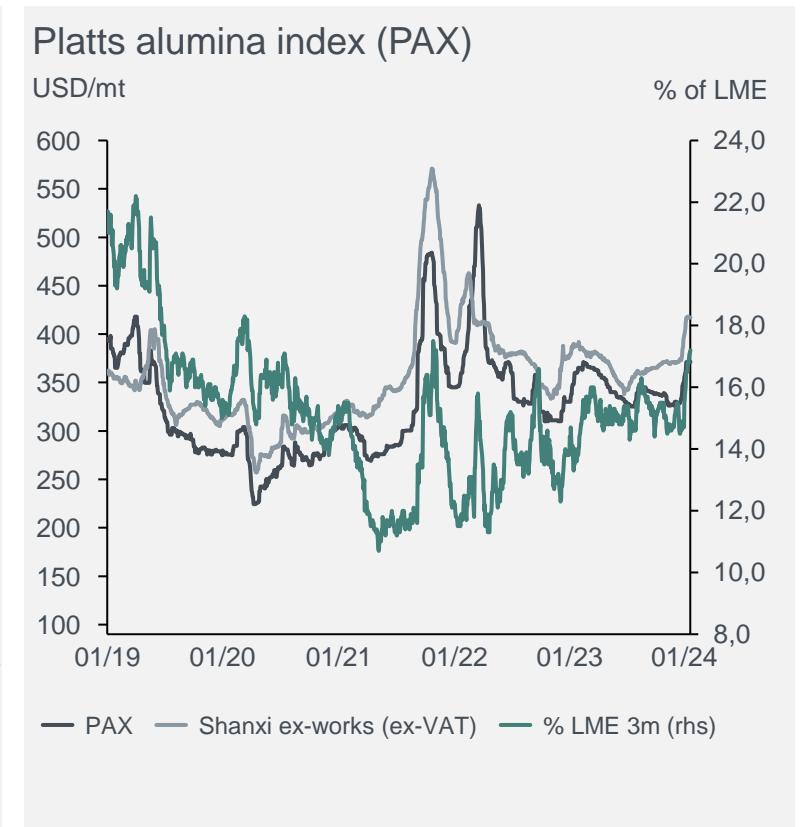
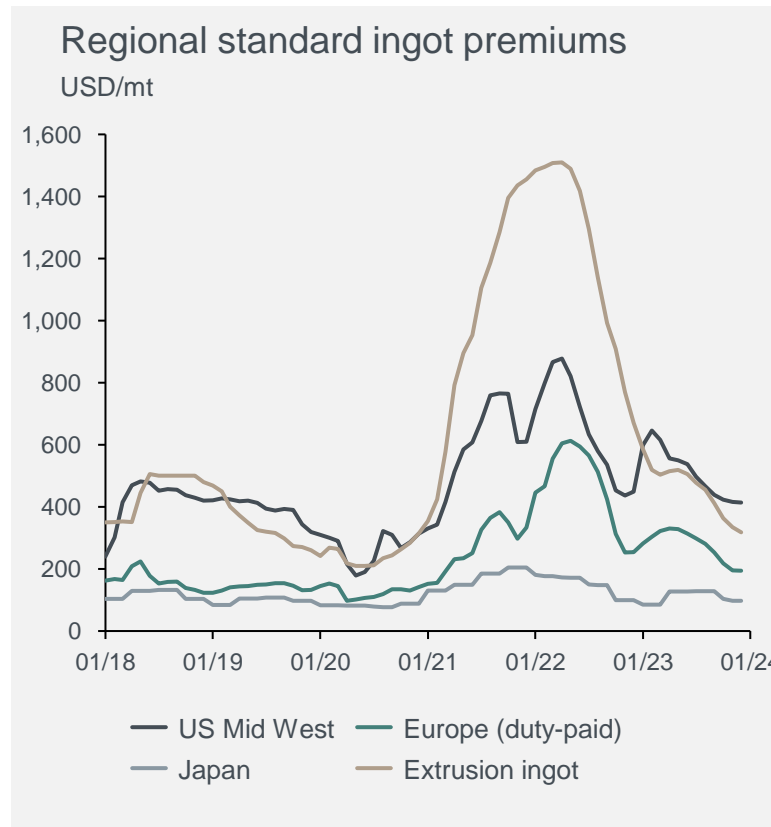


Market and trends

Revenue drivers through Q4 2023



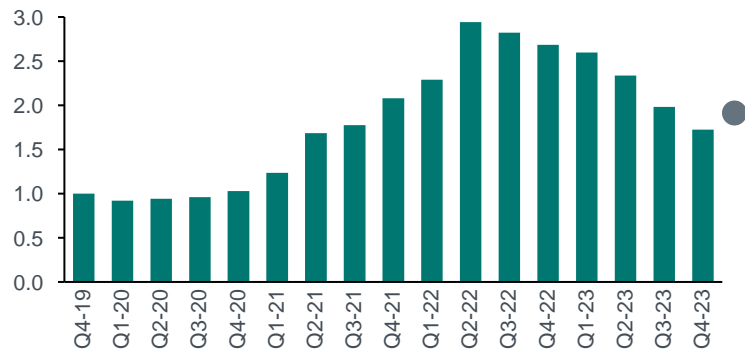
Source: Bloomberg, Norges Bank, LME, Fastmarkets, Platts



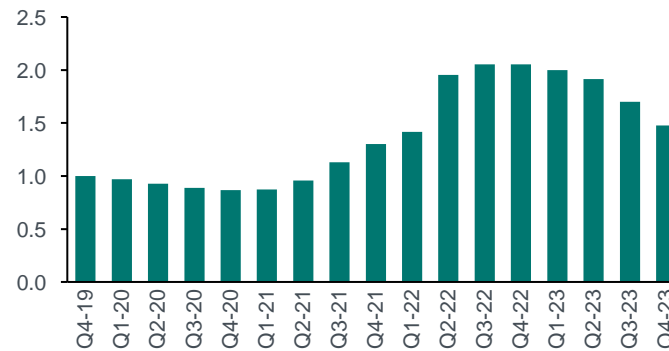
Market raw material costs in Q4 2023



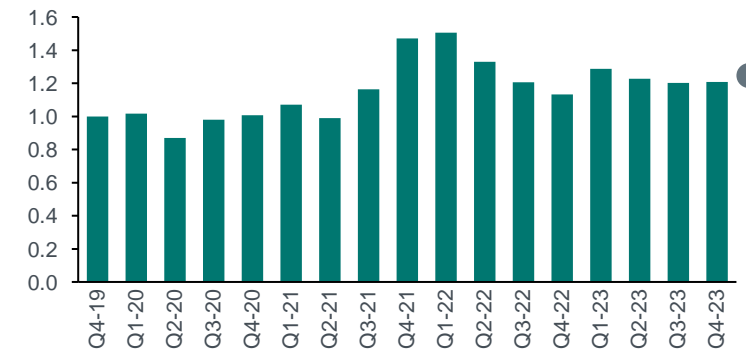
Petroleum coke FOB USG (indexed)



Pitch FOB USG (indexed)



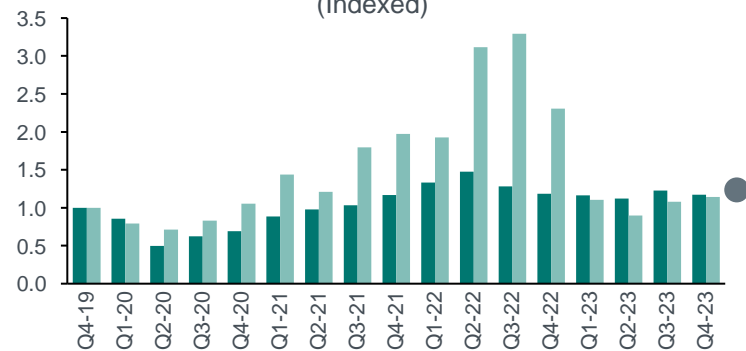
Alumina PAX index (indexed)



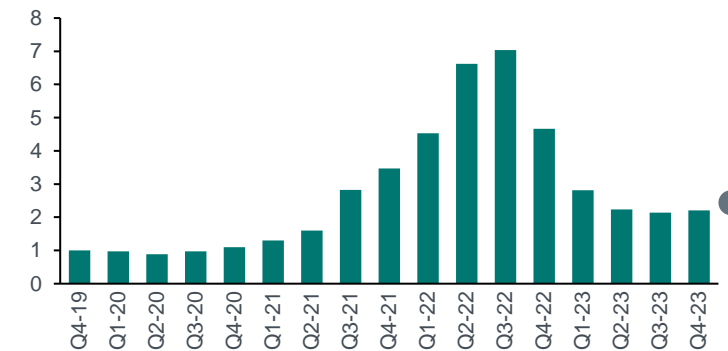
Caustic soda (indexed)



Fuel oil A1 and Henry Hub NG spot price (Indexed)



Steam coal (indexed)

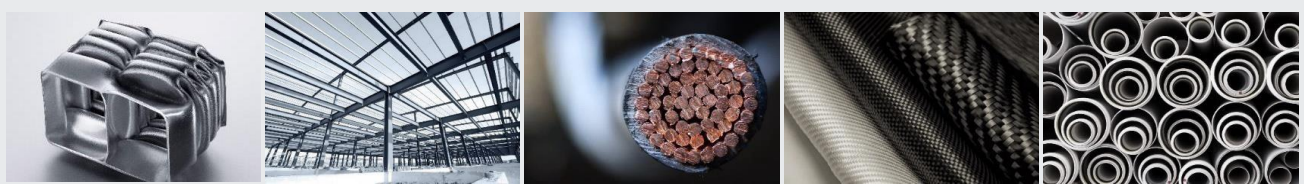


● Indication of current market prices

■ Fuel Oil A1 (indexed)
■ Henry Hub Natural Gas Spot Price (indexed)

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	Steel	Copper	Composites	PVC
✓ Lightness and strength	✓ Strength and durability	✓ Conductivity	✓ Lightness	✓ Lightness and formability
✓ Durability and formability	✓ Recyclability	✓ Corrosion resistance	✓ Strength	✓ Corrosion resistance
✓ Corrosion resistance	✓ Price	✓ Recyclability	✗ Price	✓ Price
✓ Conductivity	✗ Weight	✗ Price	✗ Recyclability	✗ Climate footprint
✓ Recyclability	✗ Corrosion	✗ Weight	✗ Climate footprint	✗ Recyclability
✗ Energy-intensity	✗ Energy-intensity	✗ Energy-intensity	✗ Energy-intensity	✗ Durability

Key **properties** of aluminium match requirements – lightweight, conductive, corrosion resistance

Infinitely recyclable with very low energy need and high resource efficiency

Aluminium based on renewables has **lower footprint** than global average

Aluminium has a **clear roadmap** to zero emissions

Importance of aluminium within key green transition technologies¹

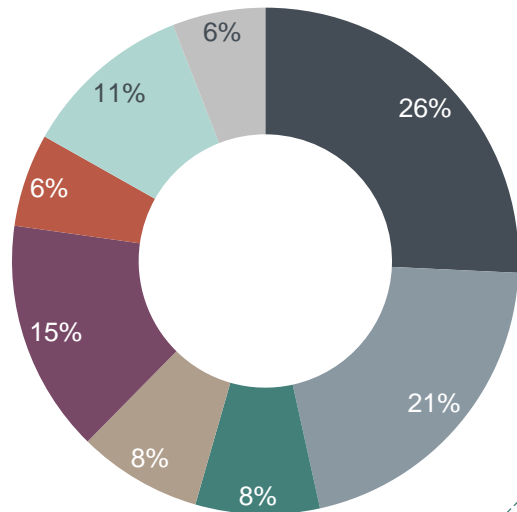
PV		●
Electric vehicles		●
Wind power		◐
Electricity networks		●
Concentrated solar		●
Hydropower		◐
Bio-energy		◐
Hydrogen		◐
Nuclear		◑
Geo-thermal		◑

Transport & construction key semis demand segments

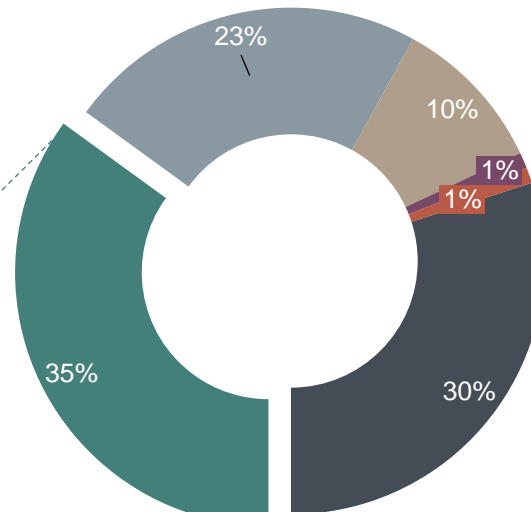
Source: CRU, Hydro Analysis

Global semis demand 2023: ~98 million tonnes

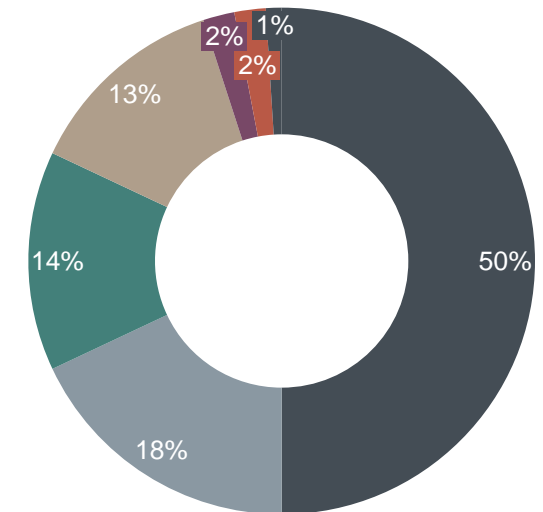
Per segment



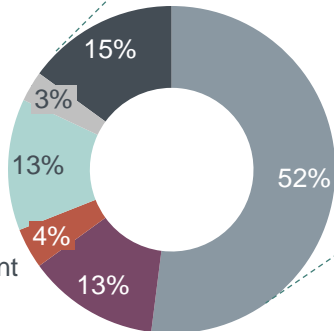
Per product form



Per region



Extrusions per segment



- Transport
- Construction
- Packaging
- Foil stock
- Electrical
- Consumer durables
- Machinery & Equipment
- Other

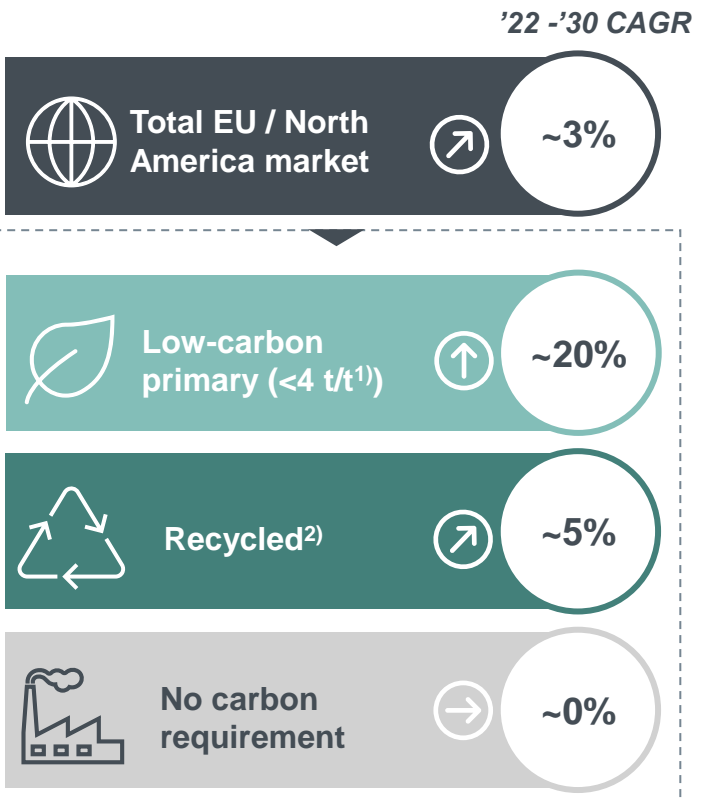
- Rolled products
- Extrusions
- Castings
- Wire & Cable
- Forgings
- Powder & paste, other

- China
- Asia ex. China
- Europe
- North America
- Central & South America
- Africa
- Australasia

Highest growth for low-carbon and recycled material

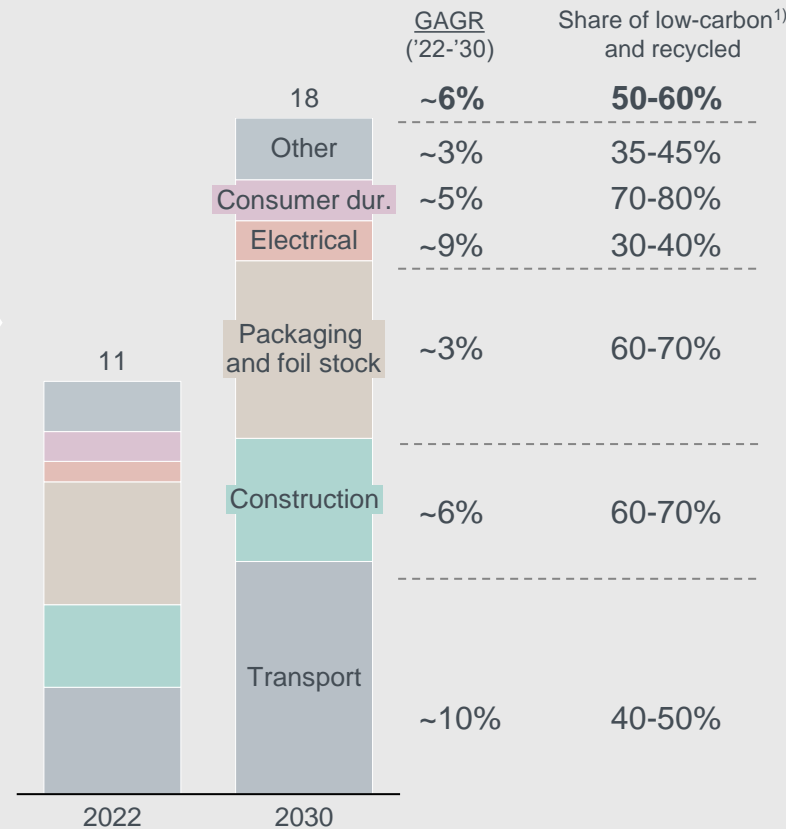
Low-carbon and recycled aluminium to make up majority of EU and North America market by 2030

Greener demand growth is outpacing the rest of the market



Estimated demand based on currently stated ambitions

Europe and North America low-carbon¹⁾ and recycled aluminium demand by sector (million tonnes) - estimate



Examples of front runners with ambitious 2030 targets

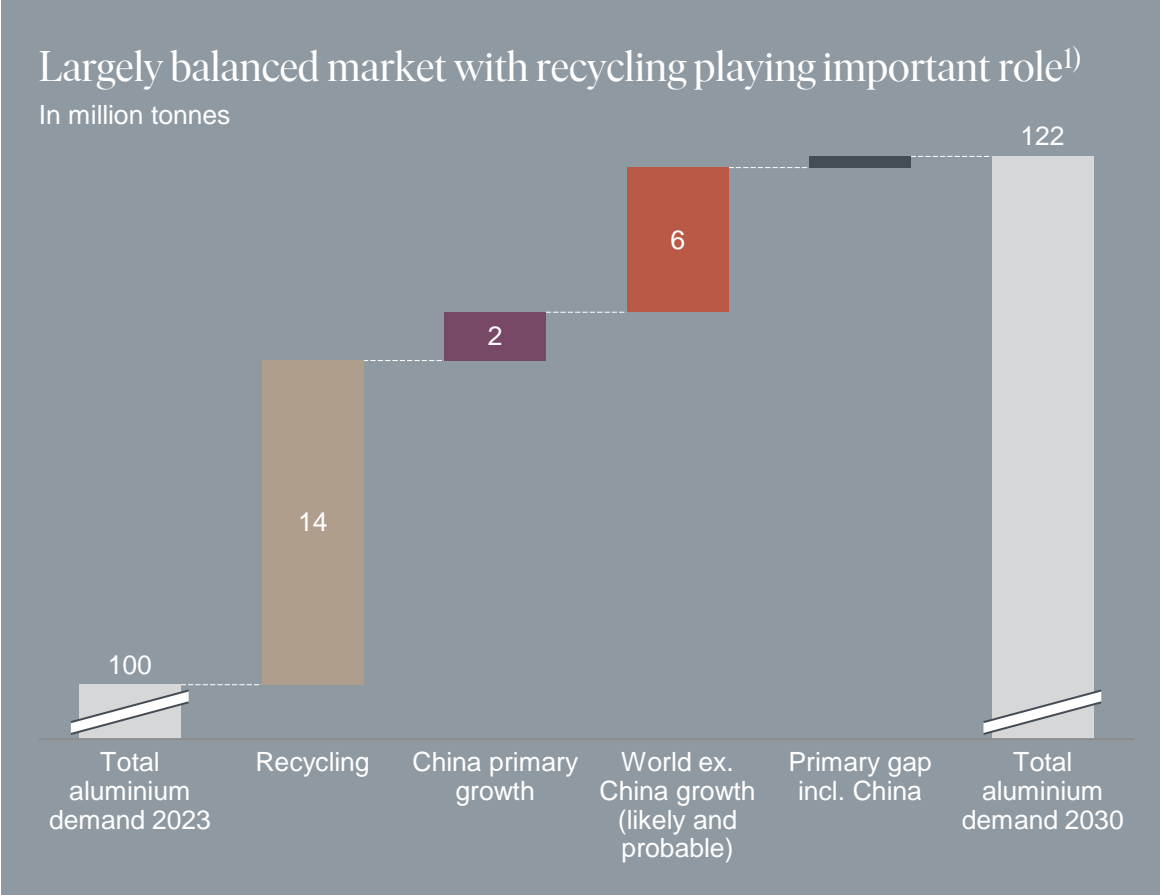
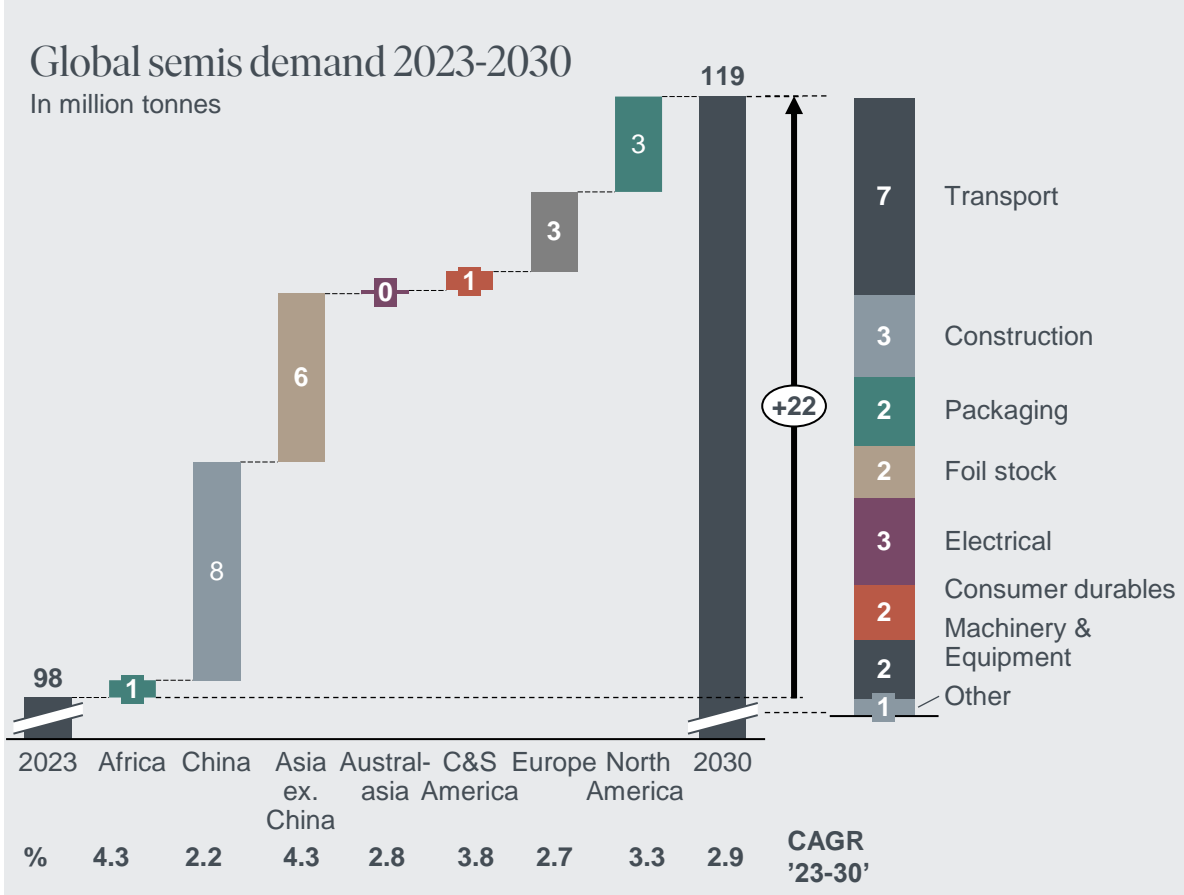
Company	Scope 3 reduction targets	Specific aluminium commitments
	CO ₂ e neutral value chain	10% of primary at <3 t/t
	45% per MWh generated	
	52% per MW constructed	
		10% of primary at <3 t/t
		10% of primary at <3 t/t
	50% for absolute emissions	Max. 2.0 kg carbon emitted / kg
	30% for absolute emissions	
	20% for absolute emissions	
	CO ₂ e neutral balance sheet	
	CO ₂ e neutral (2039)	
	25% per vehicle (2025)	10% of primary at <3 t/t
	22% per vehicle	
	30% per vehicle	

1) Tonnes of CO₂e per ton of primary aluminium produced, including full value chain emissions. 2) Does not distinguish between post-consumer scrap and process scrap

Largely balanced markets towards 2030



Healthy demand outlook driven by transport and electrical



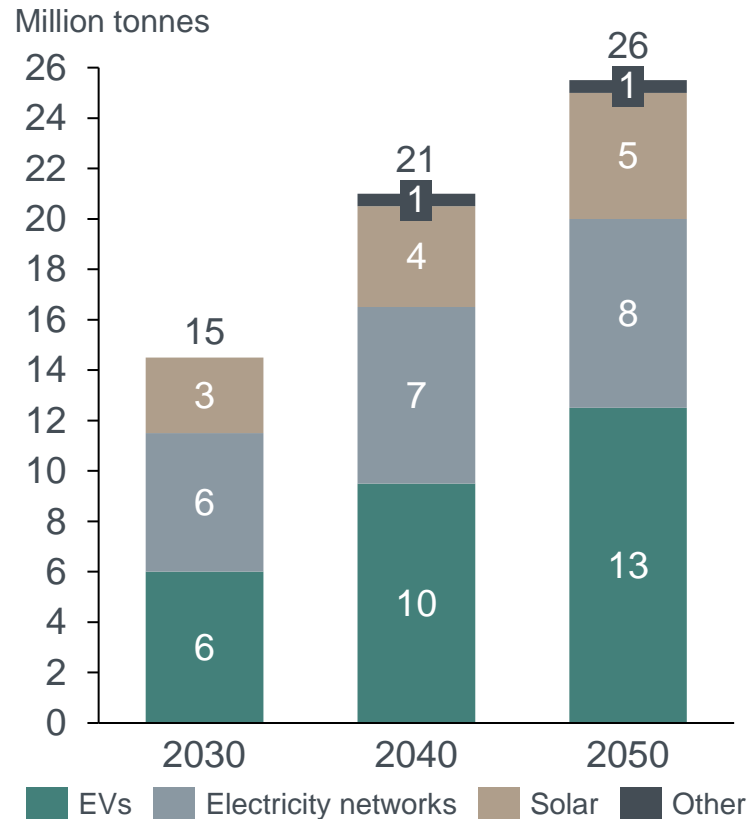
Source: CRU, Hydro Analysis.
 1) Showing total metal requirement (includes 2% melt loss)

Aluminium is a key enabler for the entire green transition



2030 energy transition will require 15-22 million tonnes aluminium, increasing to 25-42 million tonnes by 2050

Additional aluminium demand from green transition enablers¹⁾



E-mobility transition

Automotive CAGR 2022-30
8 - 10%
Aluminium content per car to grow by
25% in 2030²⁾

Circular building & construction solutions

EU set mandatory energy consumption reduction target of **11.7% by 2030**

Heating & cooling

Market share aluminium from 17% to **25% in 2030³⁾**

Solar panel solutions

CAGR EU 2022-30 for solar segment
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Copper substitution

Adjusted for conductivity, aluminium is approx **50% lighter** compared to copper ⁵⁾

Electricity grids

Reaching 1.5 degree scenario will require adding or refurbishing **80 million kms of grids by 2040⁶⁾**

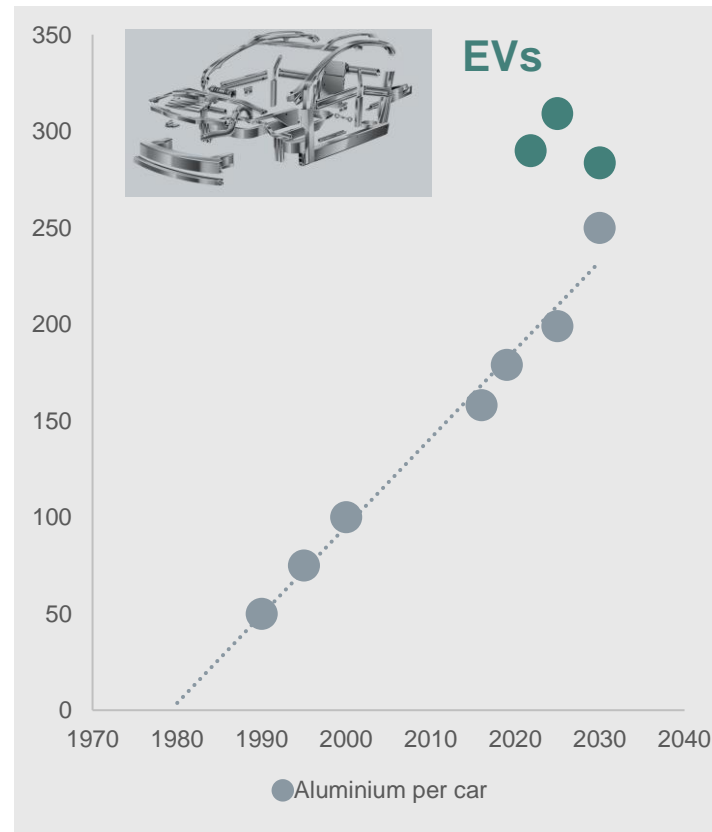
1) Additional demand related to green transition technologies in STEPS scenario. Sources: 2) Ducker 3) Hydro analysis 4) BNEF 5) CRU 6) IEA

EV transition driving strong growth in aluminium demand

Key choices on component design and material selection are being matured now

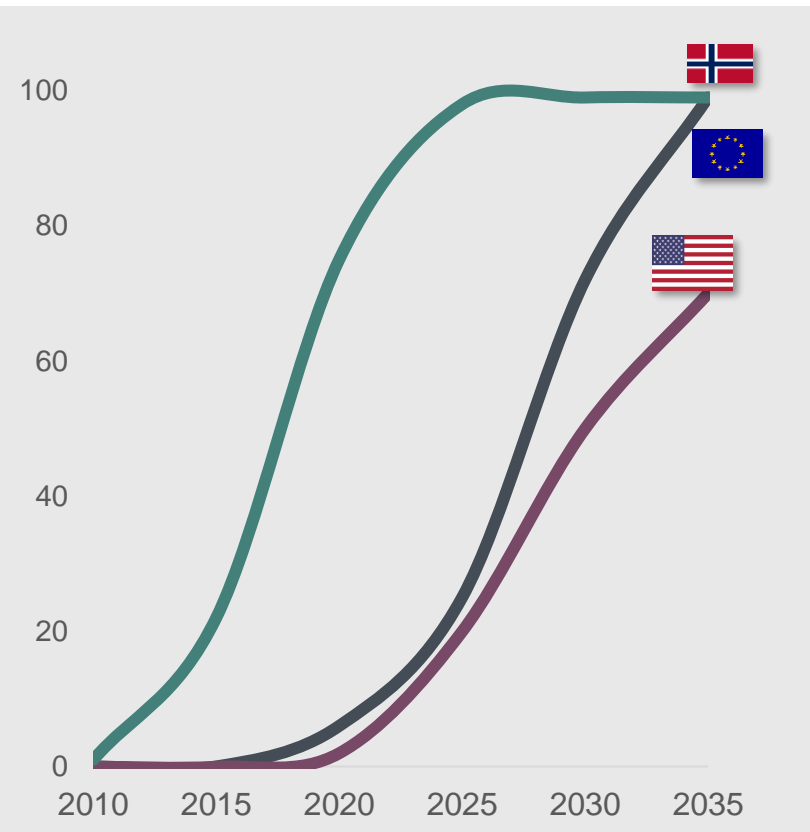
Aluminium content per car growing

Aluminium in car, kg



While EV share of sales is growing exponentially

EV sales penetration, %



Average aluminium content per car will grow from **205 kg/car in 2022** to **256 kg/car in 2030**

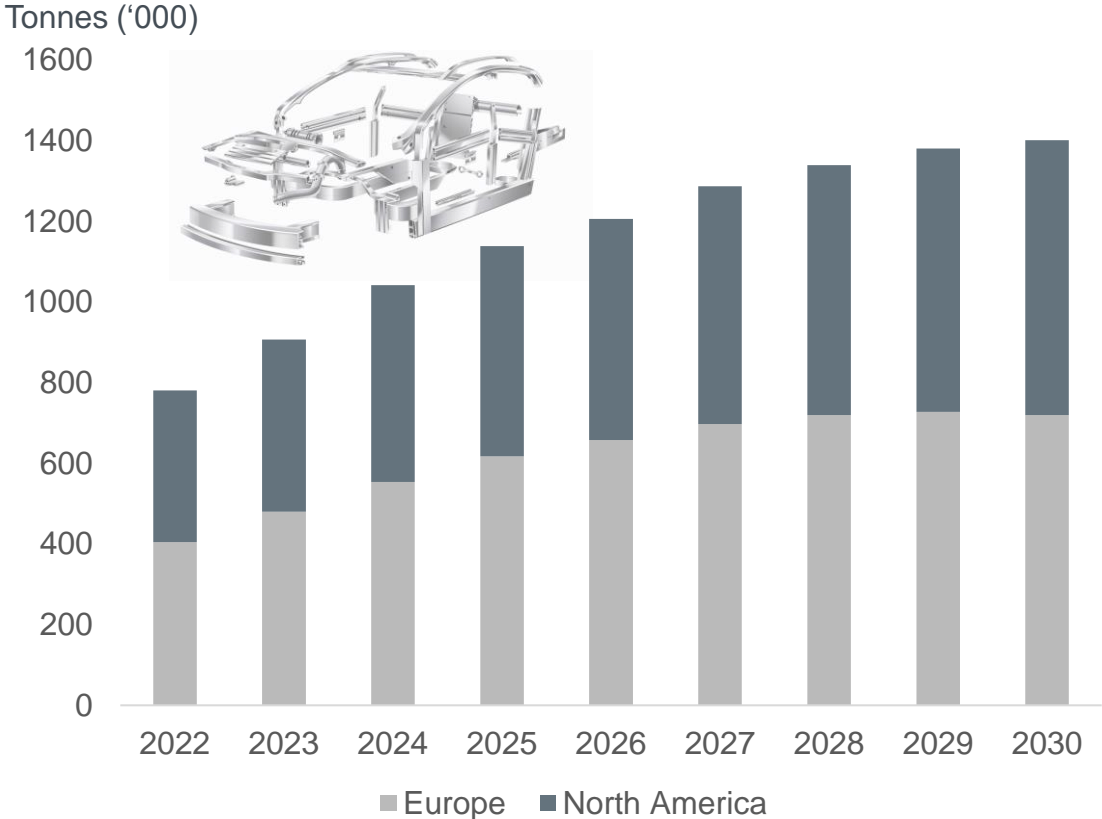
Demand for aluminium from European and American automotive industry to increase by **2.9 million tonnes from 2022-2030**

EVs are not built the same way as internal combustion engines cars

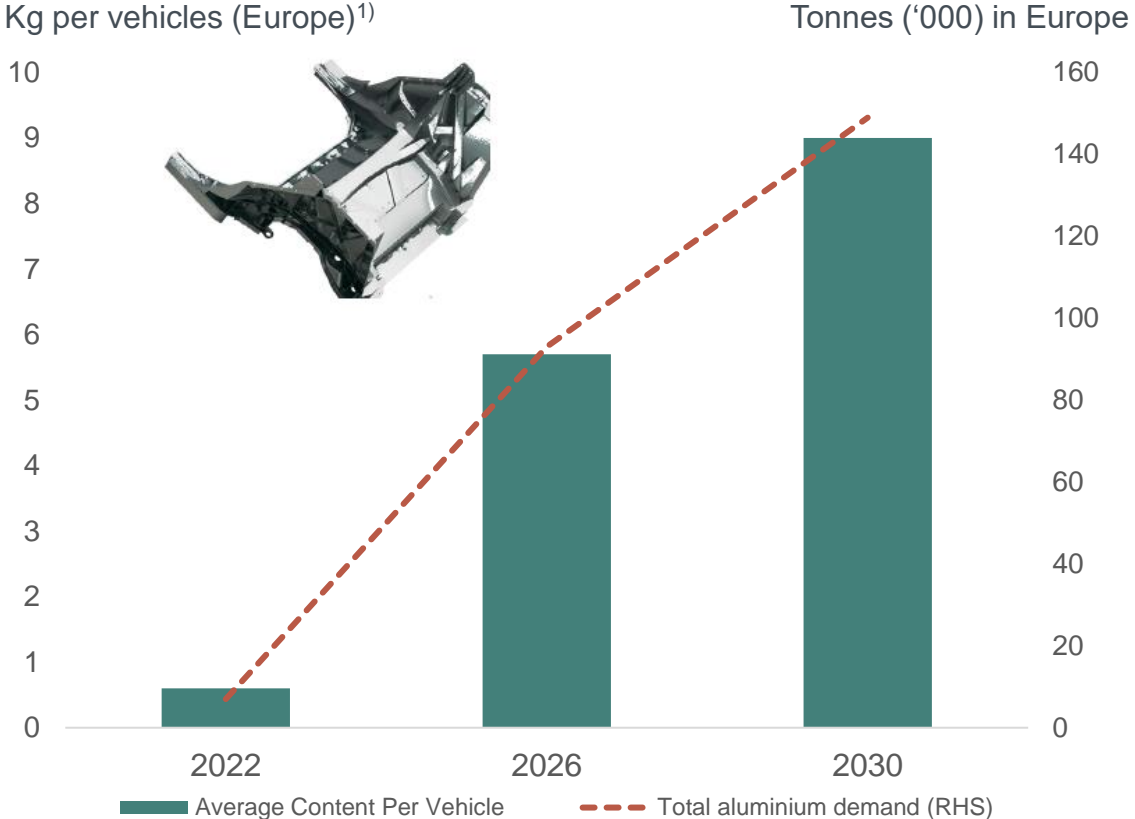


Radical change in design leading to changing dynamics for aluminium usage

Aluminium demand from extrusions driven by switch to EVs



Use of aluminium large and mega castings accelerating



Source: Ducker

Source: Ducker
1) Passenger vehicles in EU27 + UK

From cutting tailpipe emissions to cutting embedded emissions

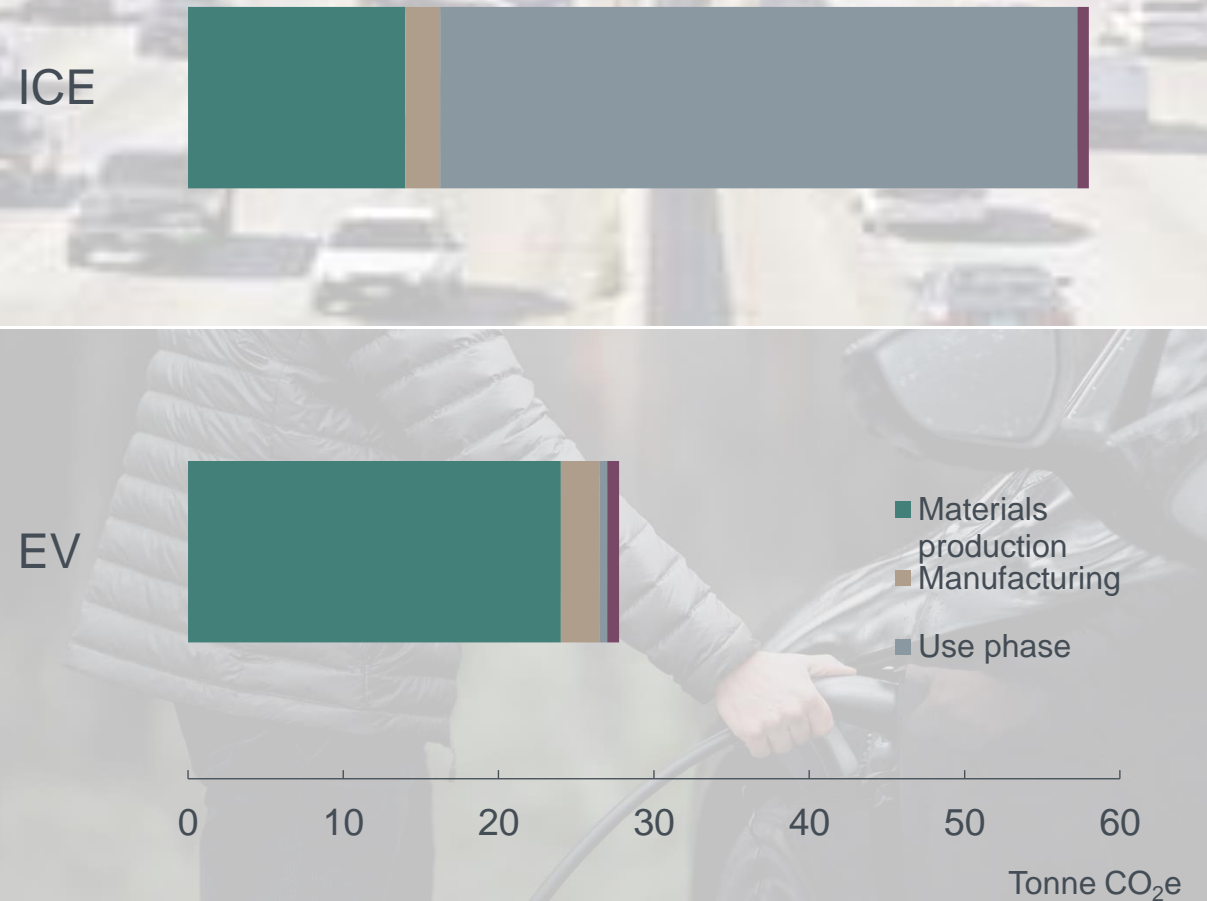
83%

Of the embedded emissions from aluminium, steel and polymer

+40%

Emissions from materials, including batteries, increase 40% from ICE to EV¹⁾

Carbon Footprint ICE vs EV



1) Polestar Life Cycle Assessment report

Transition to EVs enables substitution opportunities

EVs contain considerably more copper than combustion engines



Price, Weight, Emissions

60-80kg

Copper content
in electric
vehicles

4x

Copper content
compared to
typical combustion
engine vehicle

Application A

Replacing complex copper cabling with
approx. 3kg of aluminium solution

Application B

Replacing flexible copper cabling with
approx. 5 kg of aluminium solution

Potential additional global
demand in 2030

100kt

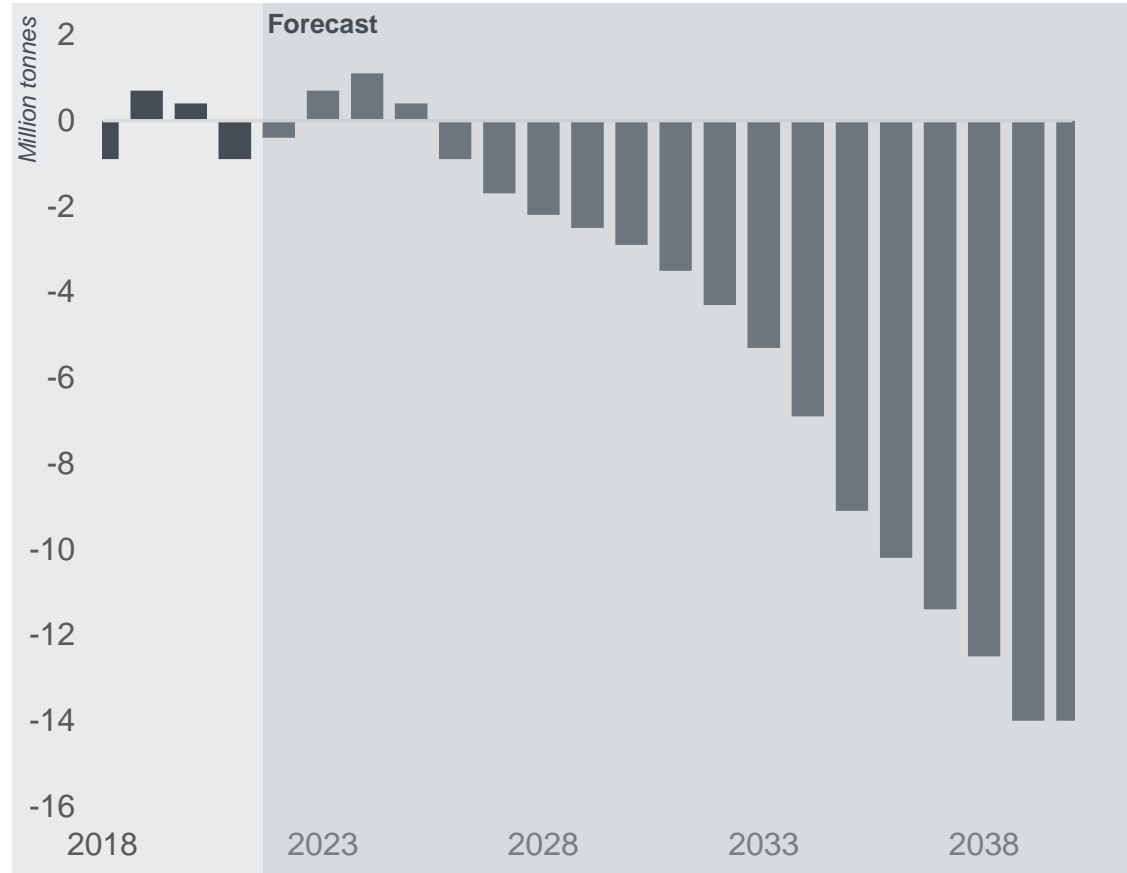
Potential additional global
demand in 2030

180kt


Aluminium is an attractive substitute for copper

Especially in segments with high growth from green transition

Copper demand expected to exceed supply from 2027 onwards



Key substitution facts



Copper: ~ \$8,400/t
Aluminium: ~ \$2,200/t



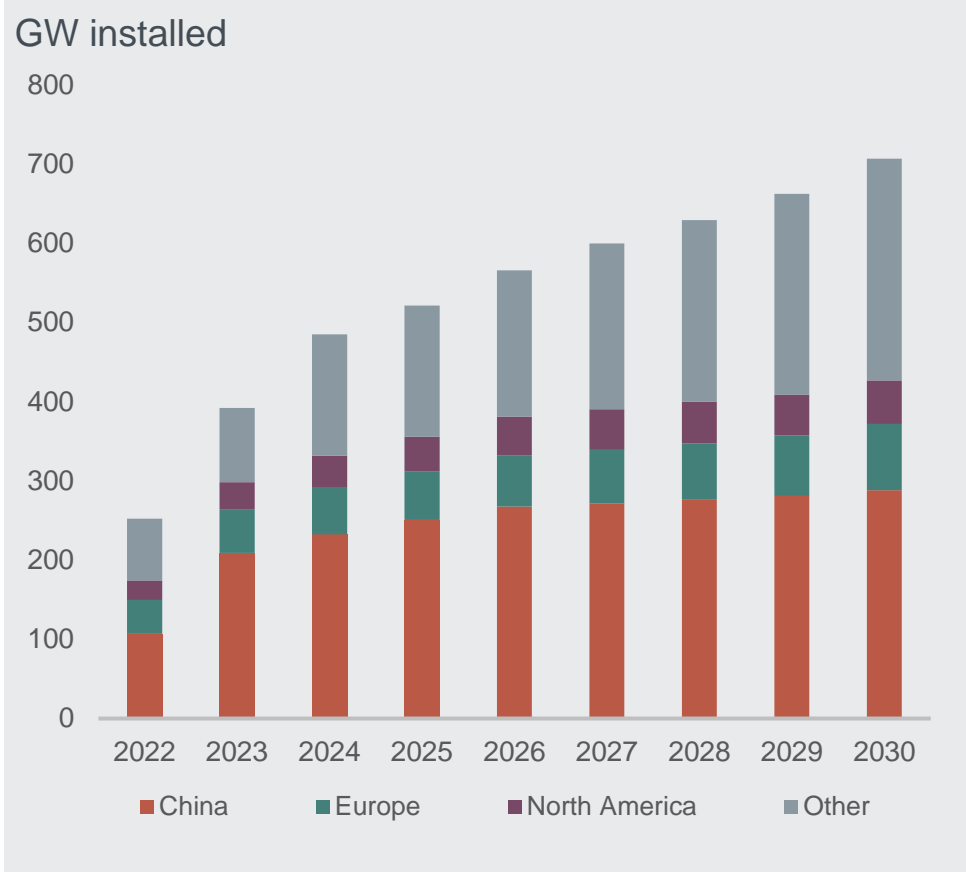
Price ratio of >3.5x
leads to increased substitution away from copper



Aluminium is
50% lighter
compared to copper
adjusted for conductivity

Solar market provides strong growth potential for aluminium

Regional growth potential within aluminium mounting systems



CAGR 2022-30
for global solar
segment
14%

Chinese domestic
alu demand from
solar in 2023
**~2.8 million
tonnes**

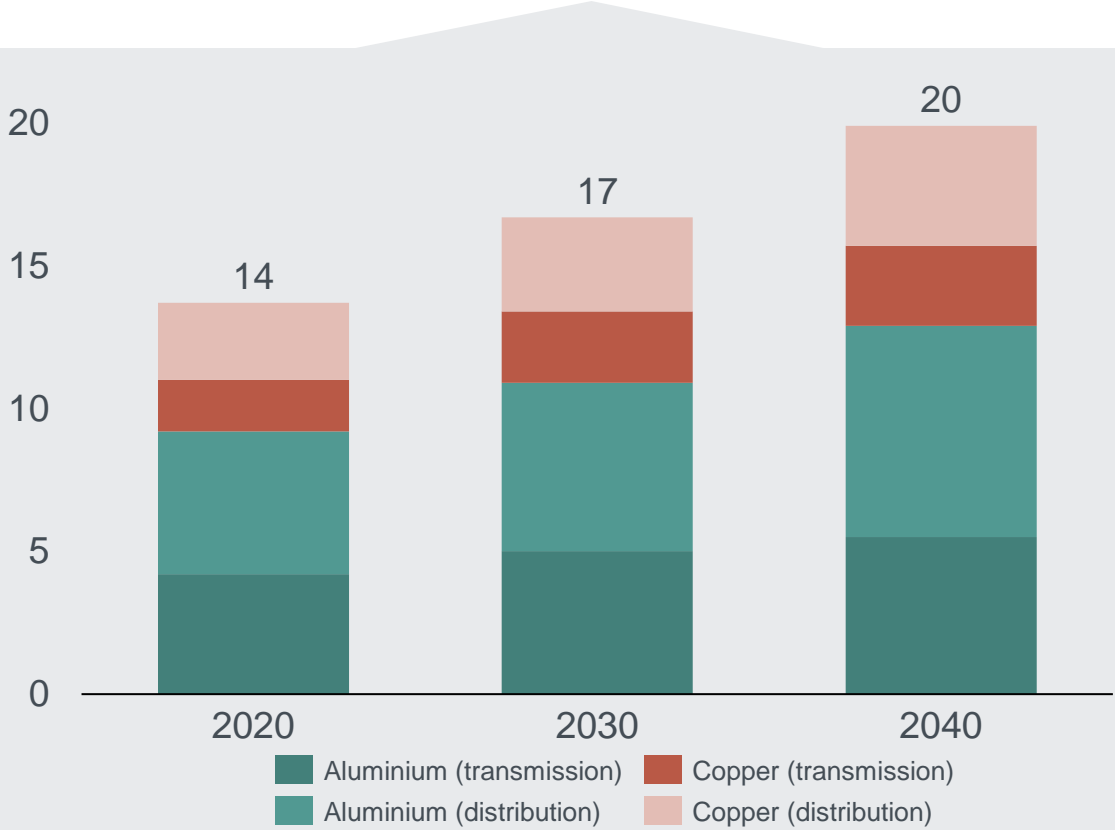
Potential aluminium
demand for mounting
systems in NA and
Europe
600,000 tonnes



Source: BNEF, Shanghai Metals Market

Green transition drives substantial expansion of electricity grids

Average annual demand for aluminium by 2040 in stated policies scenario
Million tonnes



Source: International Energy Agency



Reaching 1.5 degree scenario requires adding or refurbishing 80 million kms of grids by 2040

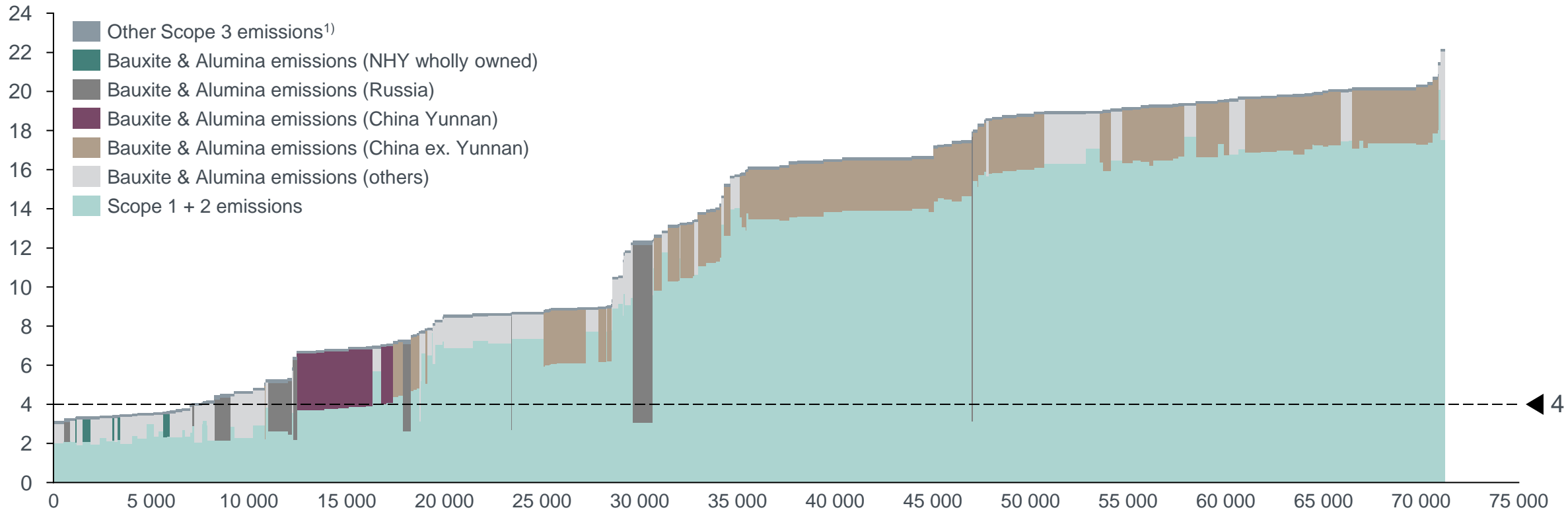
International Energy Agency 2023, Electricity Grids and Secure Energy Transitions

Full value chain perspective: 7 million mt of primary production with embedded emissions below 4.0 kgCO₂/kg aluminium



Cradle-to-gate emissions curve 2023

Tonnes CO₂e per tonne Aluminium



Source: CRU, Hydro Analysis.
 1) Transportation, casting, anode transport

Scrap loophole undermines CBAM and climate goals

- The Carbon Border Adjustment Mechanism (CBAM) extends ETS carbon pricing to import products from 2026, protecting EU industry from carbon leakage.
- As part of the scheme, CBAM will recognize and price emissions from imported aluminium based on re-melted industrial scrap.
- Correct allocation of carbon emissions in products is necessary for CBAM to mirror the EU-ETS and function properly.
- We believe re-melted industrial scrap should be assigned the same emissions as primary aluminium. EU producers pay for these emissions, so should importers.
- Currently, CBAM does not recognize that re-melted industrial scrap has carbon emissions.
- The loophole is substantial, as there are more than enough re-melted industrial scrap available globally to satisfy EU aluminium demand.
- Furthermore, the loophole undermines low-carbon aluminium production in Europe, and deprives Member States of CBAM revenue.
- European recyclers are facing the biggest risk from the loophole.

CBAM- extending carbon pricing to imported products to level out ETS effects

April 2023
CBAM adopted

October 1, 2023
CBAM transitional period starting

Indirect CO₂
compensation
remains

2025
Re-evaluation of indirect CO₂
cost compensation

2026-2034
CBAM to replace free quotas

EU agenda supporting Hydro's strategy



Regulatory framework supporting strategic direction



Critical Raw Material Act

- Aluminium expected to be defined as a Strategic Raw Material upon final adoption
- Important recognition of aluminium's role for EU strategic autonomy and the green transition



Sustainability legislation

- Stricter regulations on Green Claims and Corporate Sustainability Due Diligence favor sustainability frontrunners
- End-of-life vehicles regulation supports Hydro's recycling ambitions



Renewable energy

- High ambitions for renewable energy production in EU
- Supports Hydro's internal decarbonization and strengthens demand for aluminum from renewables market segment

Regulatory changes needed to support green transition



CBAM – Carbon Border Adjustment Mechanism

- Labelling remelted industrial scrap as zero-carbon material on import creates a large loophole in CBAM
- Unless changed it will undermine intention of CBAM on climate and competitiveness

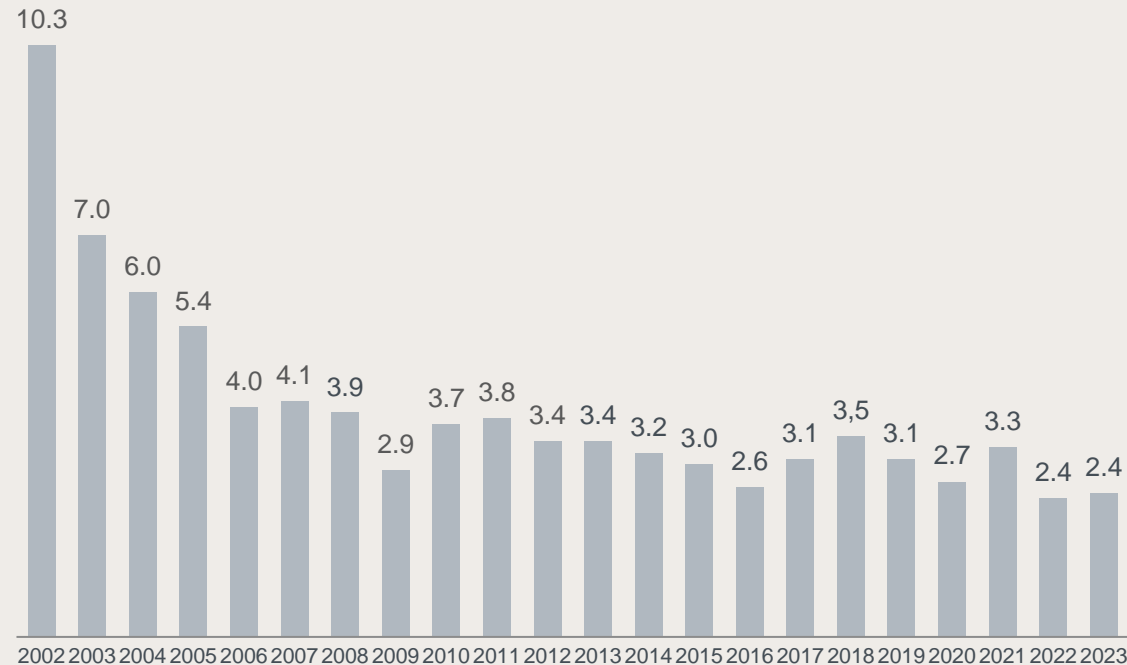


Sustainable Operations

Safe and responsible operations is a top priority

Leadership in health and safety, social responsibility, and compliance as a license to operate

TRI Rate¹⁾



1) Total recordable incidents (TRI) rate defined as cases per 1 million hours worked, for own employees and contractors
 2) ESG performance as of 31.12.2023

Continuing efforts within ESG performance²⁾



- Transparent and consistent reporting approach for more than three decades
- Sustainability is fully integrated in Hydro’s strategy
- Work in progress to prepare for implementation of the EU Corporate Sustainability Reporting Directive (CSRD)



17.8 (Low risk)
 #3 in sector (3/224)



AA rating
 “Leading initiatives to achieve carbon-free aluminium”

Member of
Dow Jones Sustainability Indices

Powered by the S&P Global CSA
69%
 Europe Index inclusion
 DJSI inclusion since 1999



72/100
 95th percentile



73/100



B rating
 Corporate Rating: Prime Status

Many vying to take sustainable aluminium leading positions



Only Hydro with integrated advantage



Share of renewables



Global presence



Primary and recycling capabilities



Decarbonization technology roadmap



Customer co-innovation on end-products



"One roof" mine to component traceability



	Share of renewables	Global presence	Primary and recycling capabilities	Decarbonization technology roadmap	Customer co-innovation on end-products	"One roof" mine to component traceability
Peer 1	Leading	Leading	Mid-range	Leading	Low	Low
Peer 2	Leading	Leading	Mid-range	Leading	Low	Low
Hydro	Significant player in renewable energy	Fully integrated, with global reach	Network of smelters and recyclers , incl. use of PCS at smelters	HalZero and CCS technology development	Close collaboration with customers producing end-products through global presence in Extrusions	Full control from mine to final product
Peer 3	Low	Mid-range	Low	Low	Low	Low
Peer 4	Mid-range	Leading	Low	Mid-range	Leading	Mid-range
Peer 5	Low	Mid-range	Low	Mid-range	Leading	Low

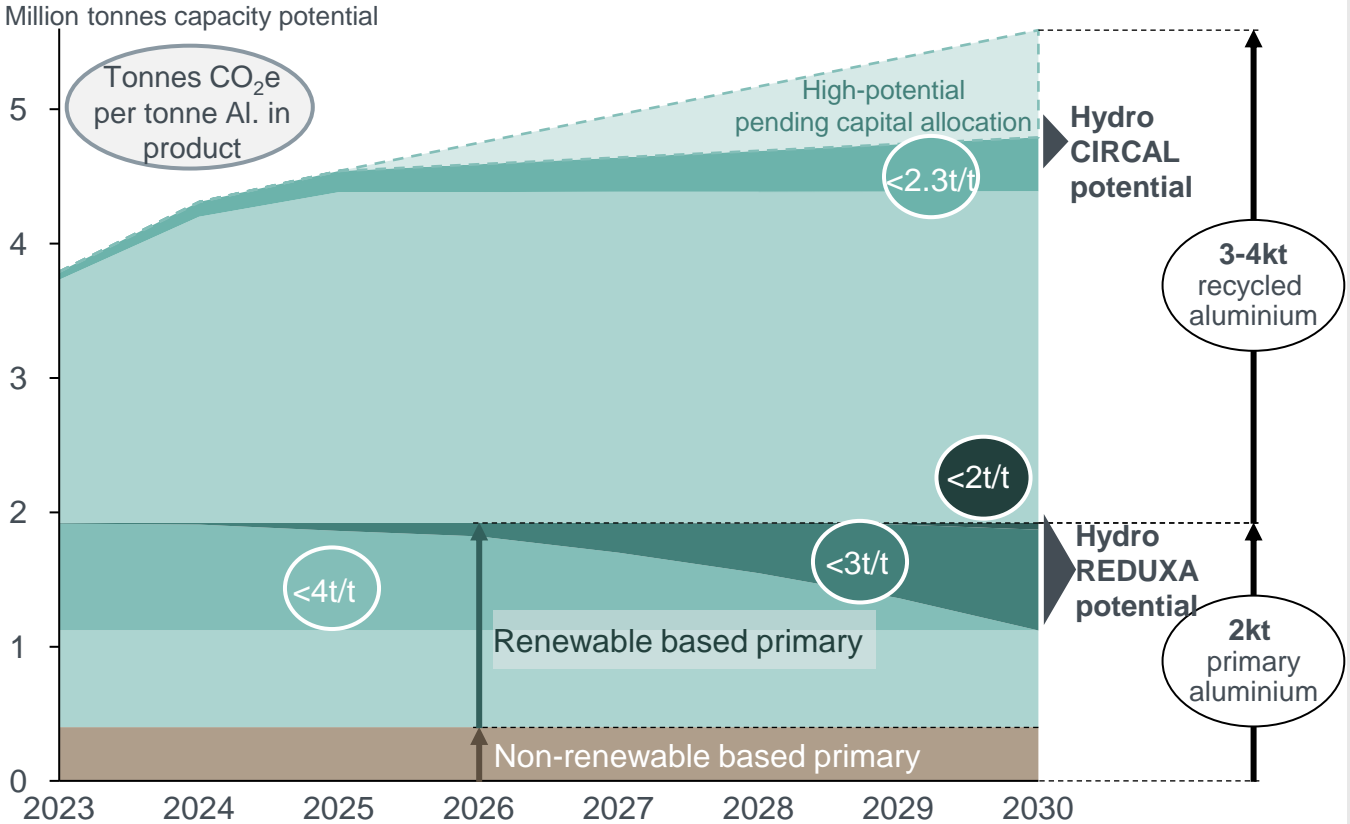
Leading Mid-range Low

Source: company annual and CMD reports

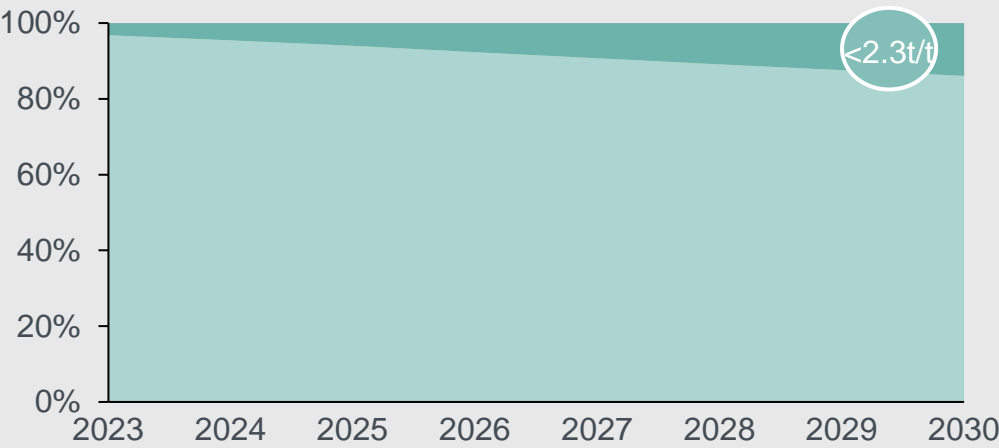
Positioning Hydro to pioneer the green aluminium transition

Earnings uplift potential 2030 of NOK 2 billion¹⁾

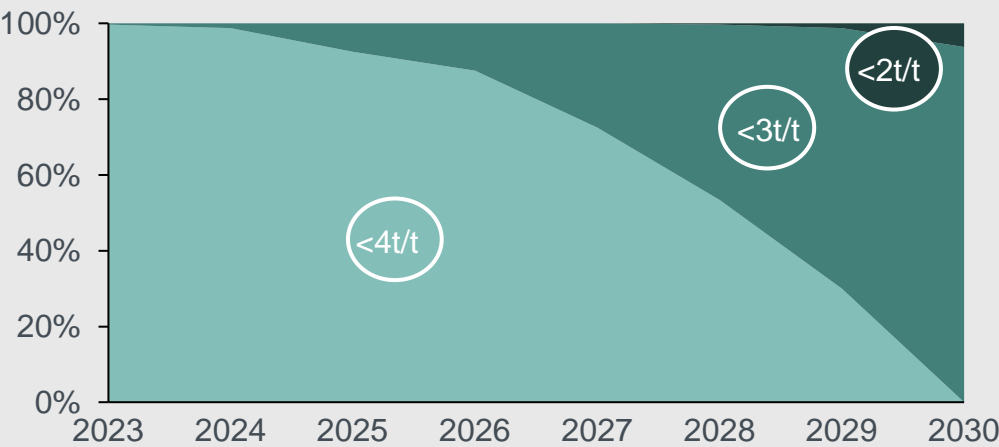
Greener product capability from total aluminium portfolio¹⁾



Growing recycling capabilities



Transforming REDUXA portfolio



¹⁾ Based on 2030 EU ETS cost and relative CO₂ reduction vs Hydro REDUXA 4.0 at current industry traded upcharge. Hydro REDUXA and CIRCAL potential based on estimated certification capacity. Primary capacity based on equity share renewable power. Hydro CIRCAL products have post-consumer scrap content > 75%

Execute on ambitious decarbonization and technology road map, step up to contribute to nature positive and a just transition




Climate



Forcefully deliver on net-zero roadmap, decarbonizing our value chain from mine-to-components

- Net-zero scope 1 and 2 GHG emissions by 2050 or earlier
- On track to meet 30 percent reduction in scope 1 and 2 CO2e by 2030
- 30% reduction of upstream scope 3 GHG emissions per tonne aluminium by 2030
- 850-1200 kTonnes post-consumer scrap recycling capacity by 2030


Nature



Contribute to a nature positive future through initiatives on biodiversity, emissions reduction and supply chain management

- No Net Loss of biodiversity for our bauxite mine, from a 2020 baseline
- No Net Loss of biodiversity for new projects
- 1:1 reforestation on track
- 50% reduction in material non-GHG emissions by 2030
- Eliminate landfill of all recoverable waste by 2040

Social



Improve lives and livelihoods wherever we operate by supporting a just transition

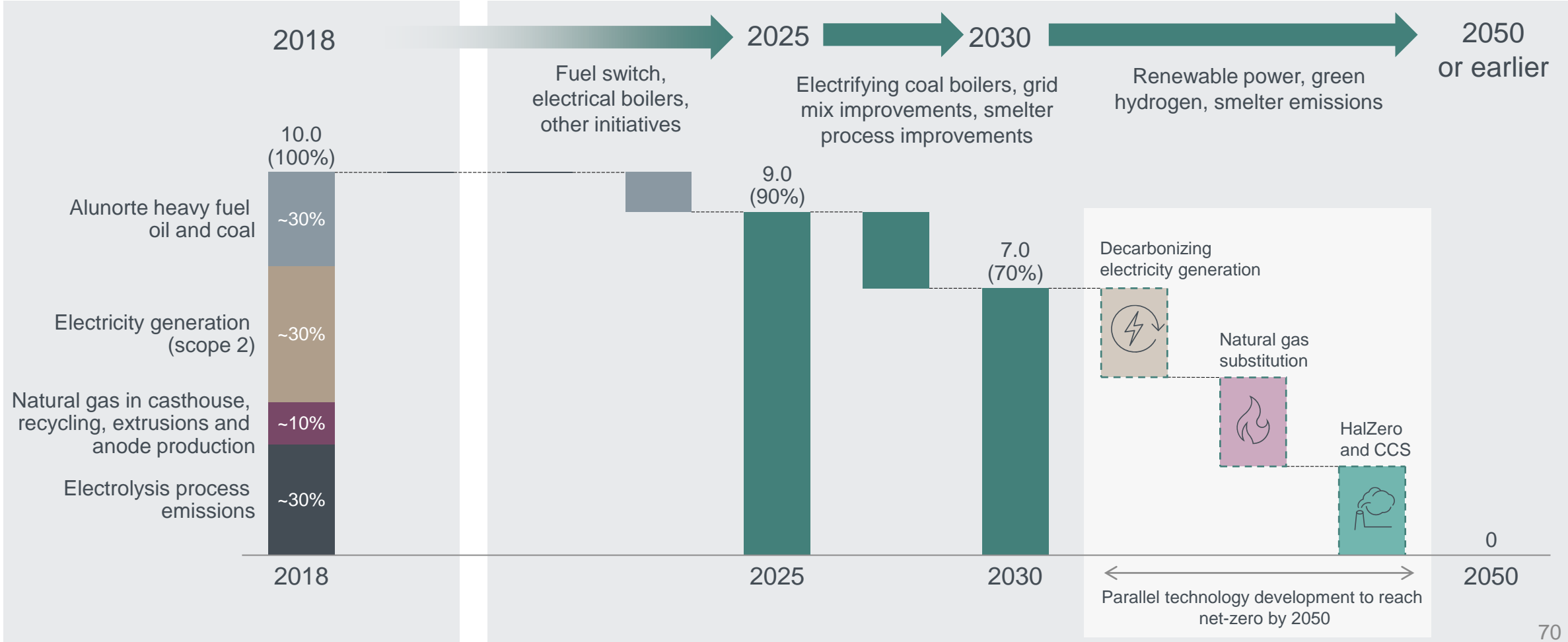
- On track to deliver on target of empowering 500,000 people with skills and education by 2030
- Significant social projects completed in Brazil
- Transparency and traceability of key product sustainability data by 2025 or earlier

Net-zero Hydro: The roadmap



On track to achieve 30% carbon emissions reduction by 2030 and net-zero by 2050 or earlier

GHG emissions – ownership equity¹⁾
 Million tonnes CO₂e (% of 2018 baseline emissions²⁾)



1) Scope 1 and scope 2. 2) 2018 rebased baseline post-Alunorte transaction as of December 1, 2023

Decarbonization ambition: Three paths to net-zero



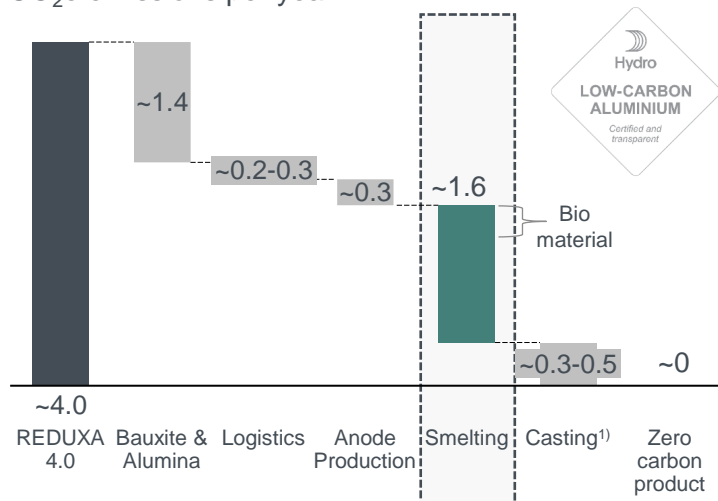
Clear technology roadmap to deliver industrial volumes of zero-carbon aluminium by 2030

HalZero process

New process technology for decarbonizing new capacity

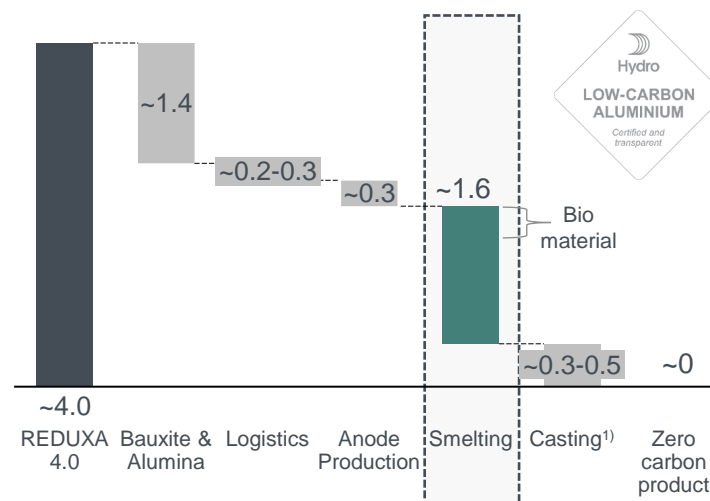


CO₂e emissions per year



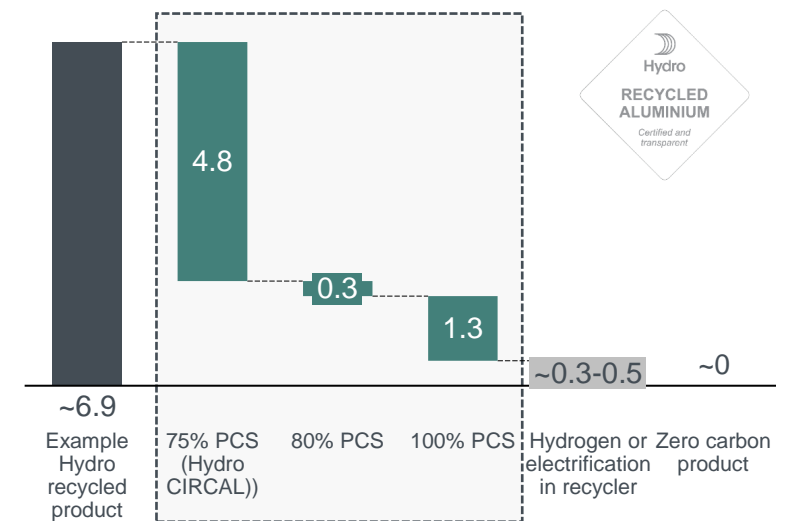
Carbon capture and storage

Technologies for decarbonizing existing smelters



Recycling

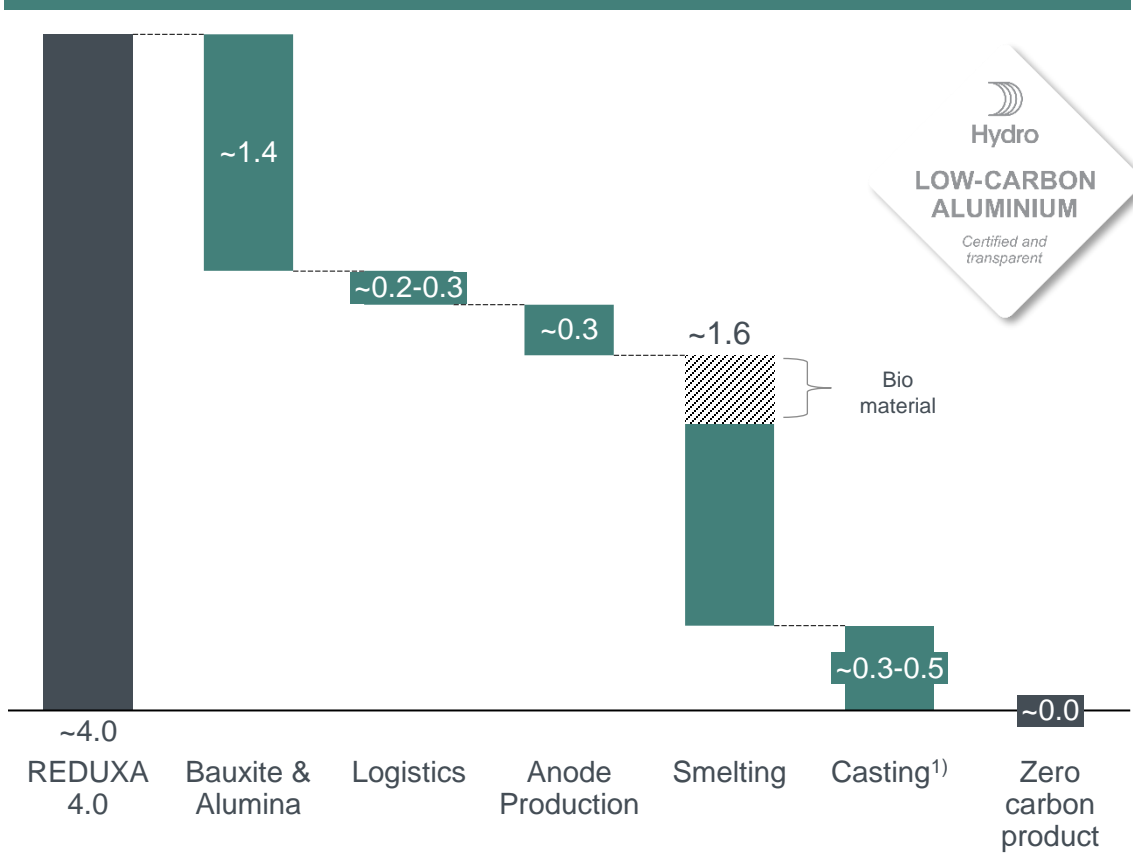
Technologies for more PCS-use



Widening our scope to reach zero CO₂ emissions

Structured approach to reduce emissions throughout primary value chain

CO₂e emissions kgCO₂/kgAl



1) Casting includes cold metal remelting

Renewable power is crucial for our path to net-zero

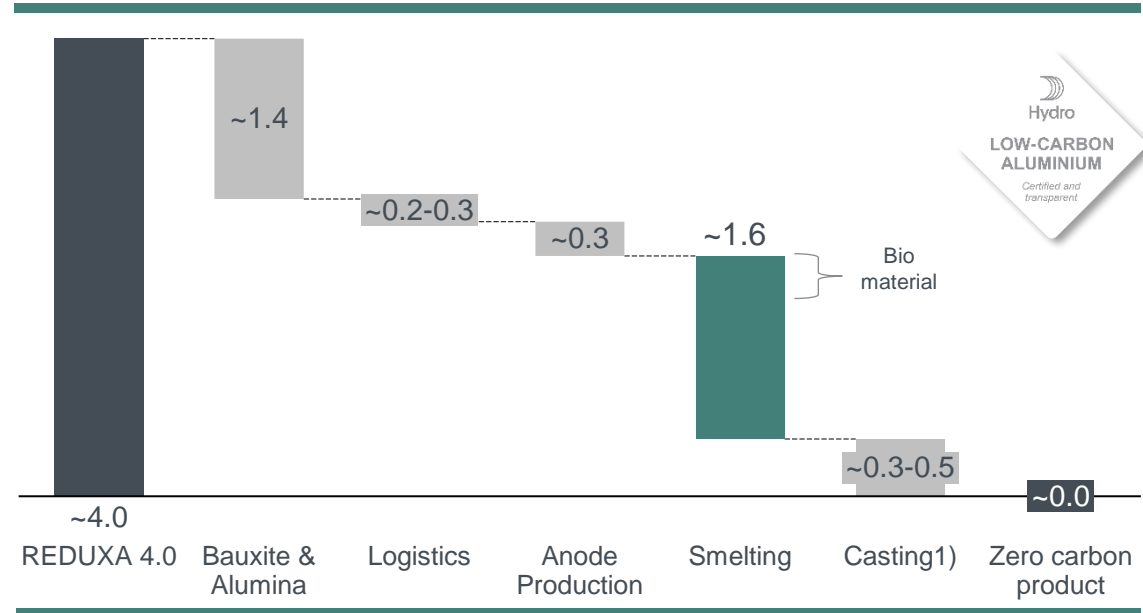
Pursuing optionality across value chain. Initiatives on track

Introducing greener anode program

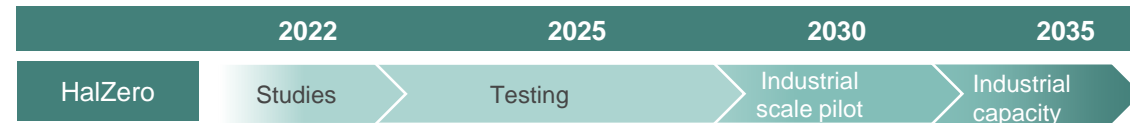
Increased focus on shipping emissions resulting in further reduction potentials

Electrolysis decarbonization on track - HalZero

CO₂e emissions kgCO₂/kgAl



Timeline



1) Casting includes cold metal remelting

Ground-breaking technology to change the game

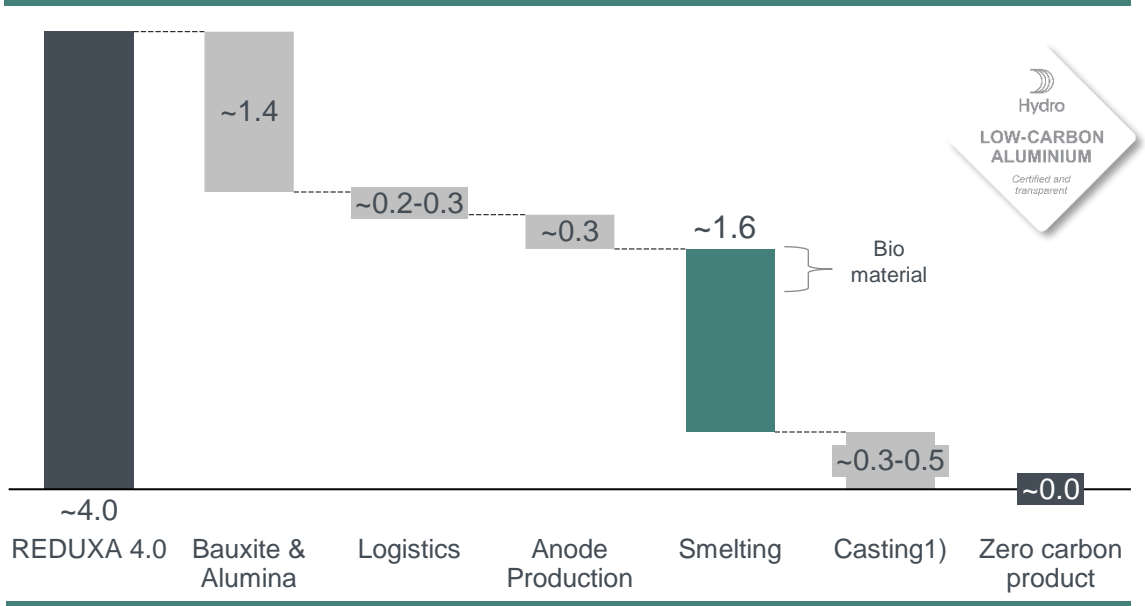


- Approval to start construction of new test facility in Porsgrunn - expected to be operational by 2025
- On track for first metal by end 2025 and industrial pilot volumes by 2030

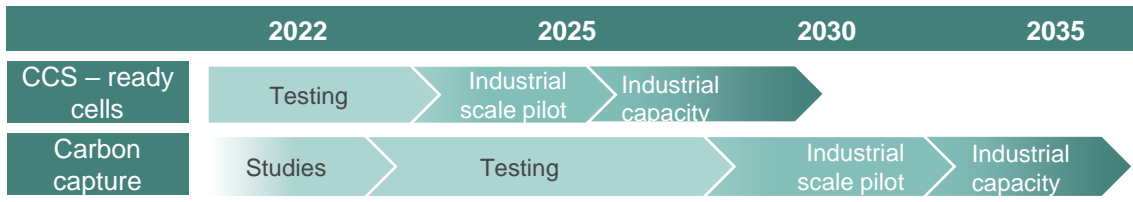


Electrolysis decarbonization on track – carbon capture

CO₂e emissions kgCO₂/kgAl

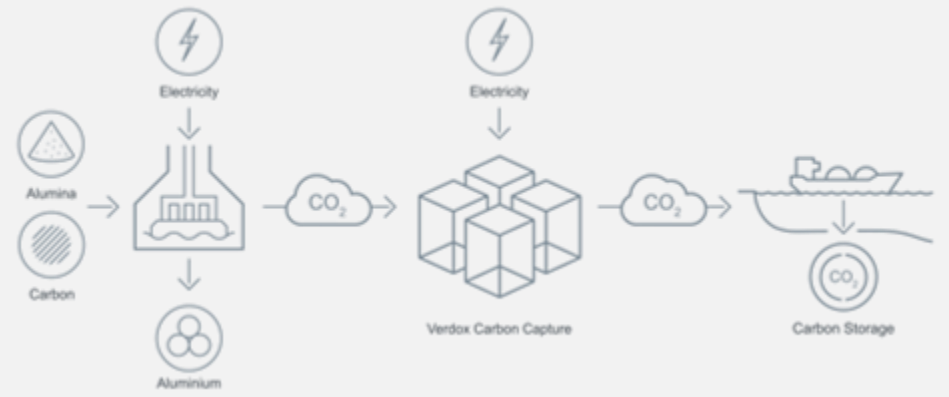


Timeline



1) Casting includes cold metal remelting

Technology shift for existing aluminium smelters



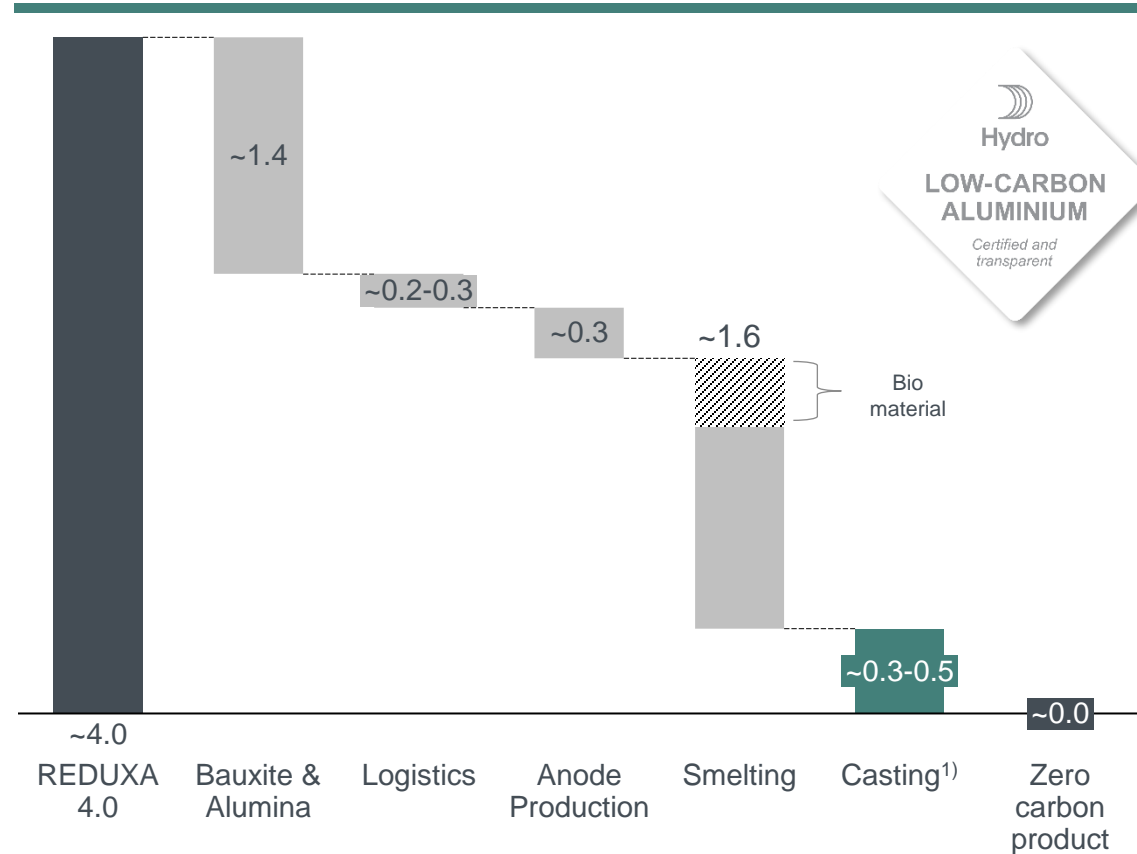
- Testing of Verdox technology ongoing at Sunndal
- Installing capture ready cells as part of ongoing relining process
- On track to deliver first CO₂ capture in 2024 and industrial scale pilot volumes by 2030



Pursuing optionality to decarbonize casthouses

Important milestones for all initiatives: Bio-methane, hydrogen and direct electrification

CO₂e emissions kgCO₂/kgAl



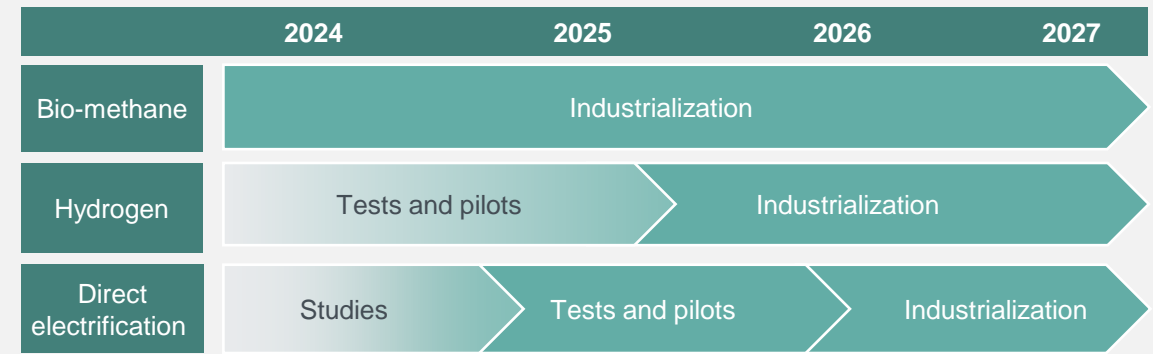
1) Casting includes cold metal remelting



Starting industrialization of bio-methane from 2024, stepping up activities in electrification

Initiative	Key Milestones
Bio-methane	<ul style="list-style-type: none"> Introducing bio-methane at Sunndal plant – Commercial agreement with Havila to deliver from 2024
Hydrogen tests and pilots:	<ul style="list-style-type: none"> Navarra test 2023 – successful Årdal PFA Test Høyanger Recycling hydrogen pilot
Direct electrification pilots:	<ul style="list-style-type: none"> Sunndal Plasma Pilot Høyanger Recycling Electrification Pilot

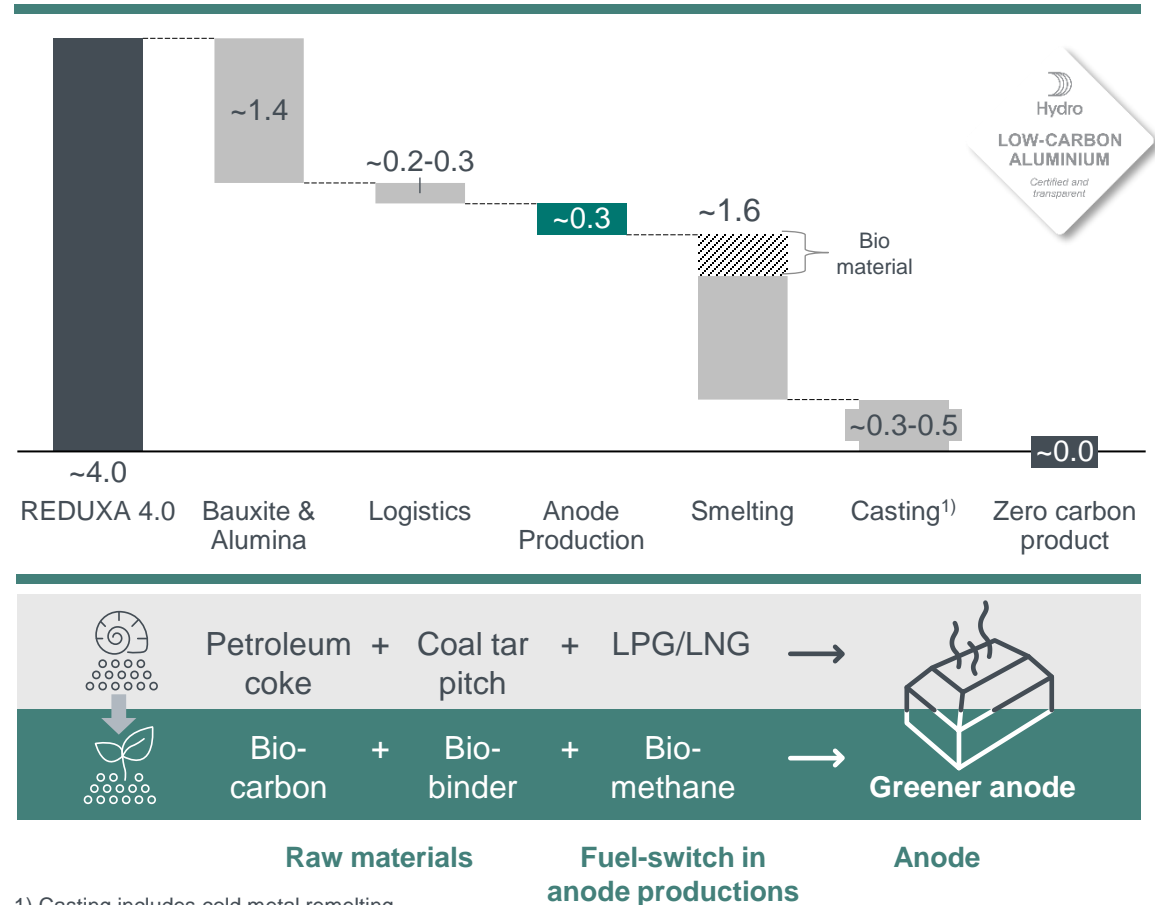
Timeline



Anode decarbonization

Utilizing bio-materials in anode production triggers potentials for below zero emissions

CO₂e emissions kgCO₂/kgAl



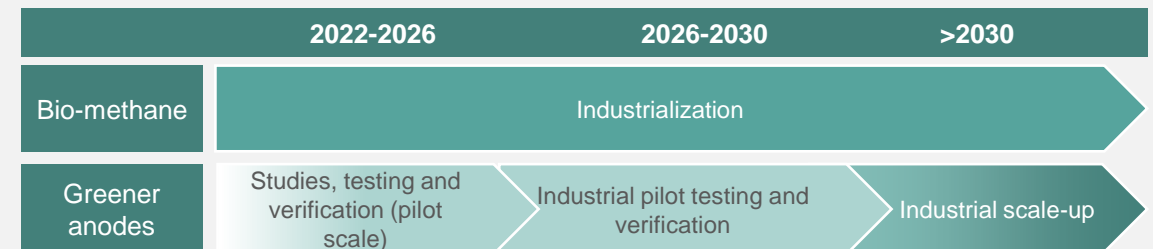
Bio-methane and bio-materials in the process

- Fuel switch to bio-methane in anode baking furnace – Havila contract
- Substitution to bio-based packing materials

Bio-materials in anodes

- Substitute fossil materials to bio-carbon and bio-binder in anode
- Potential to reduce the CO₂, PAH and S emissions
- Collaboration with external suppliers and research institutions
- Potential below zero CO₂ emissions from electrolysis off-gas capture

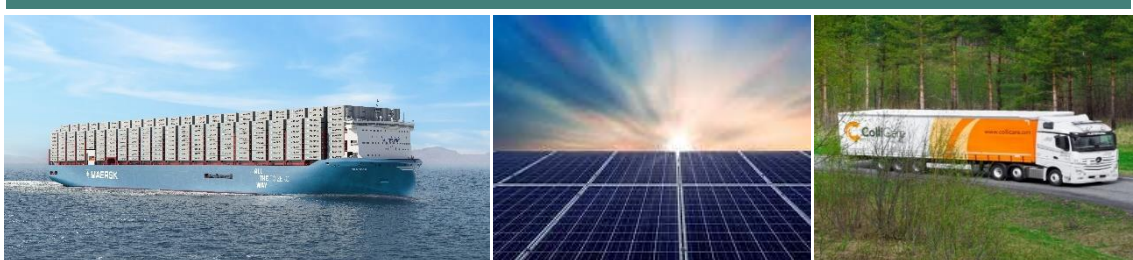
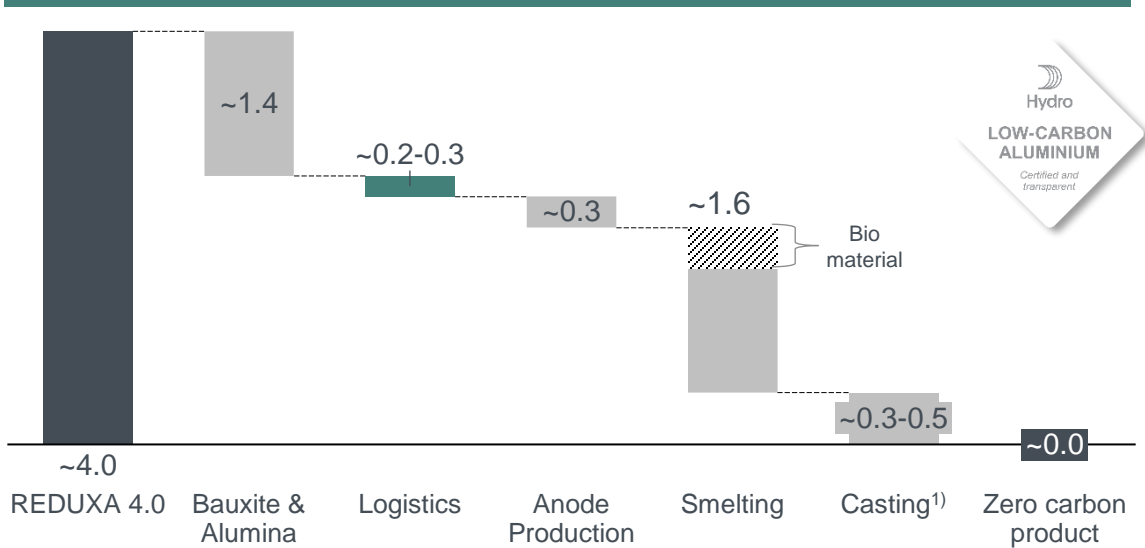
Timeline



Logistics decarbonization

Choosing the right solutions leads to reduced emissions. Ambition: 30% reduction by 2030

CO₂e emissions kgCO₂/kgAl



1) Casting includes cold metal remelting

What we have done

- >95% of AM volumes now have the major transport leg by sea
- 85% emission reduction on container transport from China to Europe
- Moving volumes from truck to barge, rail and sea
- Introducing biofuel on selected trucking routes
- Supply chain improvements

What we will do

- Developing greener routes
- Exploring opportunities for “green shipping corridors”
- Digitalization and measurement to improve incentive structures and transparency

Timeline

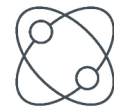


Recycling decarbonization



Full value chain with multiple product outlets

- Large recycling asset base in Europe and North America
- Broad range of products – extrusion ingot, sheet ingot, foundry alloys, HyForge, Master alloys
- Ability to utilize and upcycle mixed scrap



Sorting & production technology

- Technical and metallurgical competence
- Production optimization know-how from scrap to product
- Patented HySort technology, in-house R&D

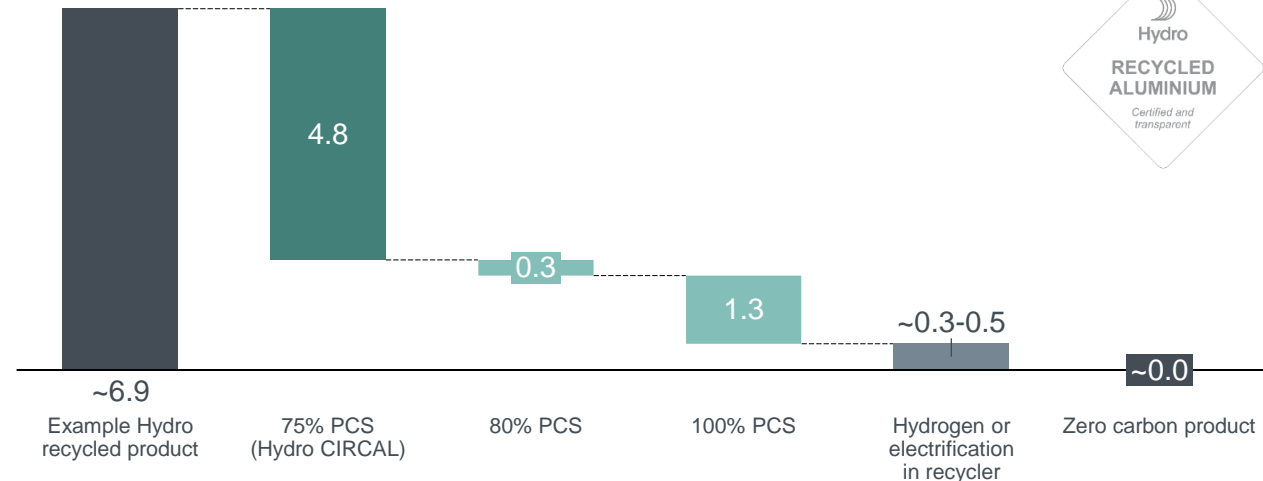


Close customer & supplier relations

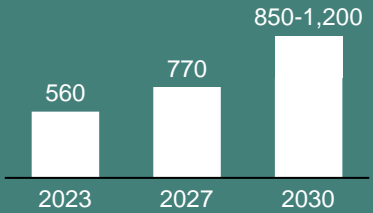
- Local presence and market insight in core locations
- Established relationships with scrap suppliers
- Partnerships and close cooperation with customers
- Commercial intelligence and strong value chain positioning

Recycling path

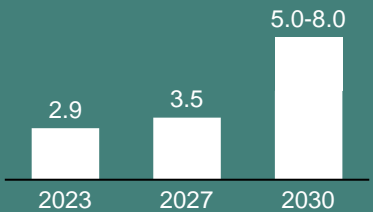
CO₂e emissions kgCO₂/kgAl



Recycling 2030 ambitions:



850-1,200
kmt PCS capacity



NOK 5-8 billion
EBITDA potential



Contribute to a nature positive future through initiatives on biodiversity, waste handling and land-use



No Net Loss Ambition for Paragominas



- No Net Loss of biodiversity for our bauxite mine, from a 2020 baseline
- Strengthening onsite mitigation and rehabilitation
- Investing in conservation and restoration offsets

Partnerships for Nature Positive Outcomes



- Develop opportunities for positive nature impacts beyond delivering NNL outcome for mine
- Partnership with Imazon and IPAM
- Creating value for nature and society where we operate

Supply chain emissions



- Establish inventories and baselines for material pollutants linked to Hydro's supply chain by end of 2024
- World Economic Forum's Alliance for Clean Air

Improving lives and livelihoods wherever we operate by supporting a just transition



Just transition framework



Respect and promote human rights



Support positive local development



Invest in education



Responsible supply chain

Investing in the community is our license to operate



Social Infrastructure

- Construction of **9 Terpaz community centers** (3 already built) targets security, income generation and access to basic services to 1,500 people per day
- Construction of a Technical School with the **capacity to educate 1,200 students per year**



Community Projects

- Investment in community-based projects **benefitted 80 thousand people since 2018**
- **60 thousand people** with access to education
- **1,400 family farmers** with access to technical support



Stakeholder Engagement

- **Transparency, dialogue and volunteer work** are performed by a dedicated team
- 178 community leaders are involved in a dialogue forum called Sustainable Barcarena Initiative
- **500 volunteers** worked to benefit 14 thousand people and 70 local organizations

Sustainable financing initiatives increase access to capital and provide cost of capital advantage

Green and Sustainability Linked Financing Framework

- Framework published to facilitate issuance of green and sustainability linked bonds
- Linked to Hydro's sustainability ambitions
- CICERO Shades of Green provided Second Party Opinion allocating medium green shading and governance assessment at excellent

Updated capital structure policy and EMTN Program

- Revised capital structure targets over the cycle
- EMTN program established to streamline bond issuance in line with capital structure policy

Sustainability linked bonds (SLBs)

- NOK 3 billion SLBs (2022-2028) issued under framework and EMTN programme
- First SLB issue in the Norwegian corporate investment grade market
- SLB feature increased access to capital in challenging market conditions

Linked to Hydro sustainability ambitions

10%
carbon
emission
reduction
by 2025

520-670
kt PCS
by 2025

Revised capital structure in 2022

Adj. net
debt/adj.
EBITDA
< 2x

Adj. net
debt
around
NOK 25
billion

NOK 3
billion
SLBs

1st corp
IG SLB in
Norway

Greener investments drive value creation



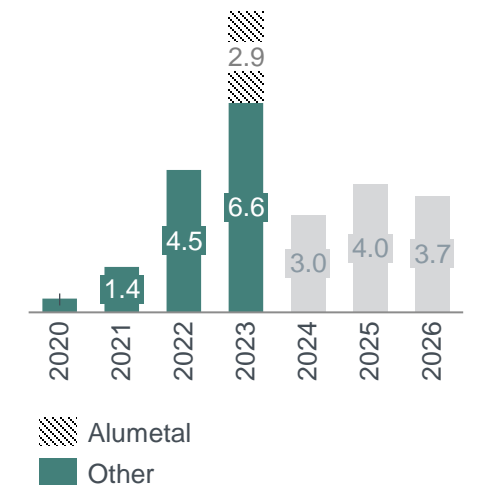
Hydro's largest prioritized investment areas combine sustainability and profitability

Recycling (PCS)	B&A (EI-Boilers)	Electrolysis abatement	Other
<p>Several large recycling projects completed or near execution:</p> <ul style="list-style-type: none"> • Cassopolis ✓ • Alumetal ✓ • Rackwitz ✓ • Hungary ✓ • Cressona ✓ 	<p>Substantial decarbonization investments in B&A with positive business cases:</p> <ul style="list-style-type: none"> • Elboiler pilot ✓ • Elboiler expansion: In execution • Alunorte Fuel Switch: Near completion 	<p>Technology roadmaps in Aluminium Metal to produce zero carbon primary metal</p> <p>HalZero: Investment decision taken on Stage 2 facility ✓</p> <p>Verdorex: Progressing towards first carbon capture</p>	<ul style="list-style-type: none"> • Energy savings initiatives with short payback time • Fully electric presses in Extrusion Europe: • Nenzing • Tønder • Trzcianka Green Press
IRR 15-30%	IRR: ~20% ¹⁾	R&D	IRR 20-35%
Targeting 850 -1200 ktons PCS consumption uplift by 2030	Bauxite and Alumina CO2 reductions under execution: 1 million tons	Creating a pathway to zero-carbon primary aluminium	Combining profitability with sustainability improvement

Greener investments / Total Investments

~47%

LTM Q3 2023



1) Before any green alumina premium is assumed



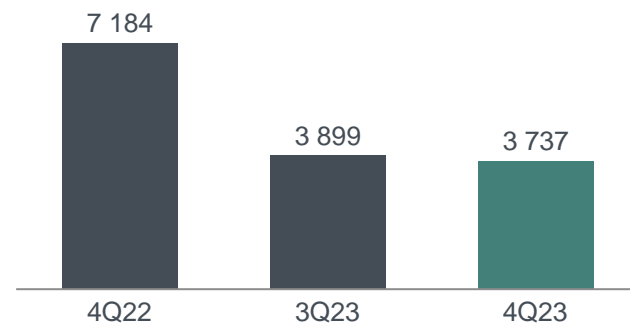
Financial Framework

Key performance metrics | Q4 2023



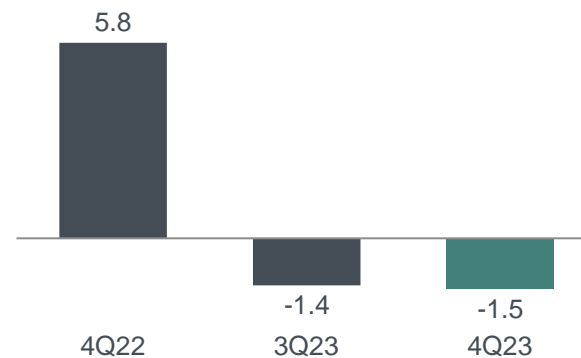
Adjusted EBITDA

NOK million



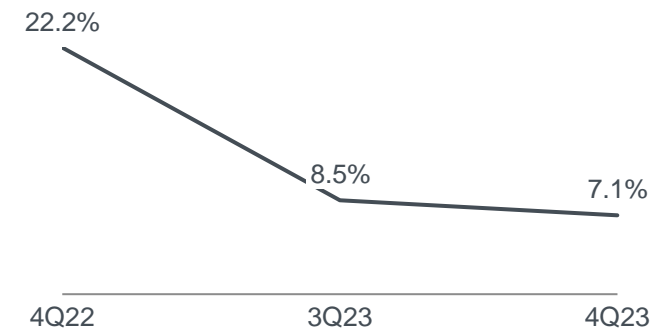
Free cash flow¹⁾

NOK billion



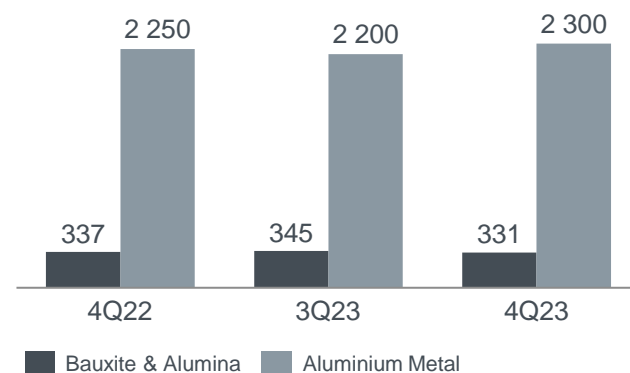
Adjusted RoaCE²⁾

12-month rolling %



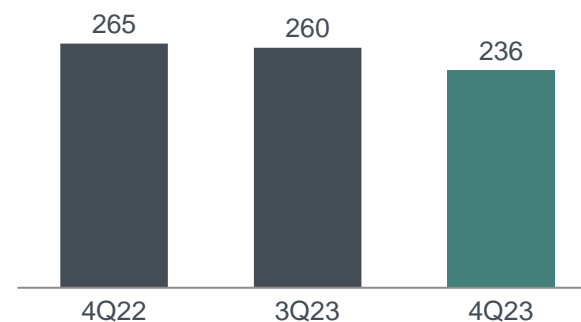
Upstream costs^{3,4)}

USD per tonne



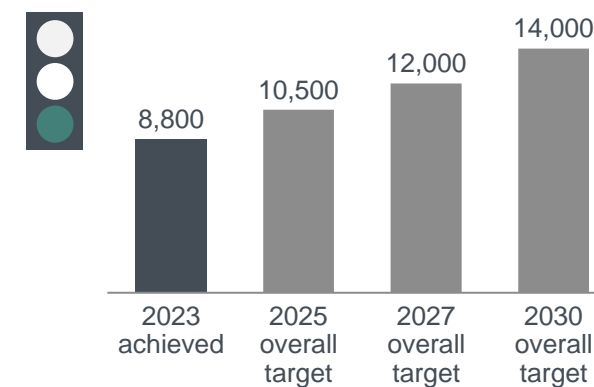
Extrusion volumes

Thousand tonnes



Improvement program status

NOK millions



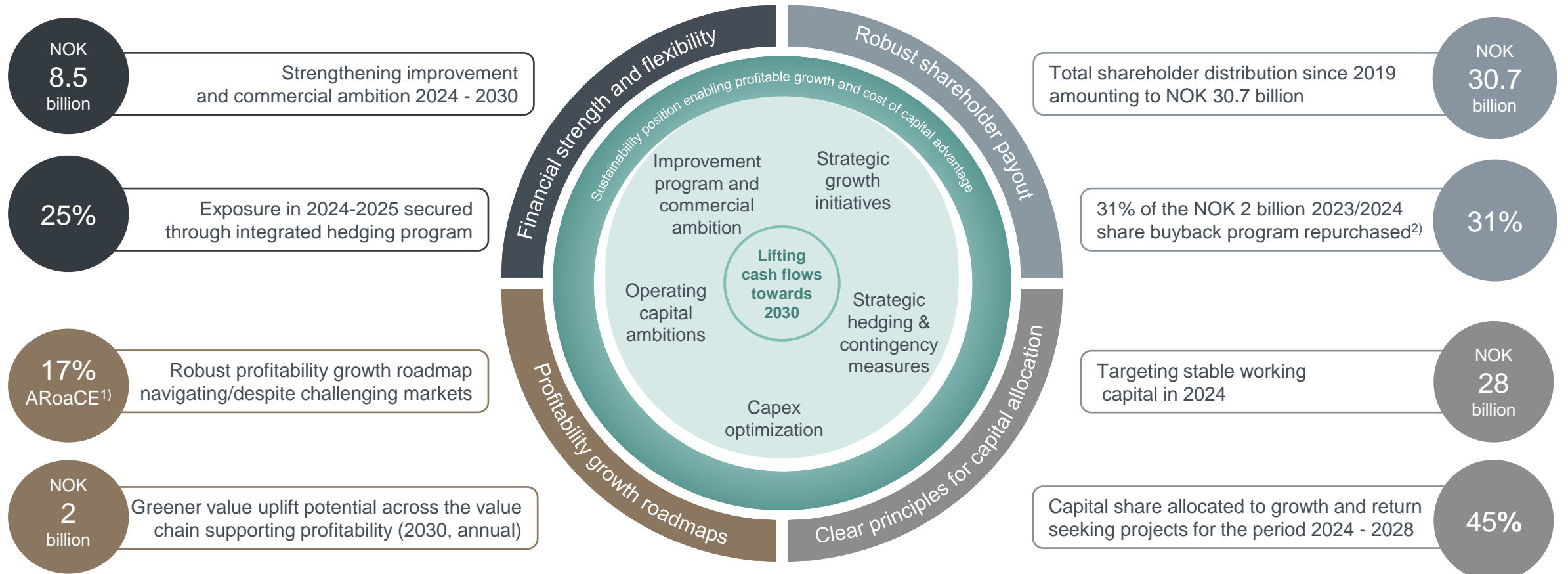
- Free cash flow is defined as net cash provided by (used in) operating activities of continuing operations, adjusted for changes in collateral and net purchases of money market funds, plus net cash provided by (used in) investing activities of continuing operations, adjusted for purchases of / proceeds from sales of short-term investments
- Adj. RoaCE calculated as adjusted EBIT last 4 quarters less underlying tax expense adjusted for 30% tax on financial items / average capital employed last 4 quarters

- Realized alumina price minus adjusted EBITDA for B&A, excluding insurance proceeds relating to decommissioned crane (NOK ~500 million), per mt alumina sales
- Realized all-in aluminium price (incl. strategic hedge program) less adjusted EBITDA margin excluding indirect CO₂ compensation catch-up effect (NOK ~1.4 billion) and power sales Slovalco, Albras and Norwegian smelters, incl Qatalum, per mt aluminium sold. Implied primary cost and margin rounded to nearest USD 25

Our financial framework guides the short and long-term



Solid framework for lifting returns and cash flow and managing uncertainty



1) Hydro group external scenario 2030 ARoaCE based on CRU price and premium assumptions and S&P Global FX assumptions, with adjustments as specified in the footnotes

2) 31% repurchased as of 24th of November

Capital allocated according to strategic modes



Strategic modes reflect global megatrends and high-return opportunities

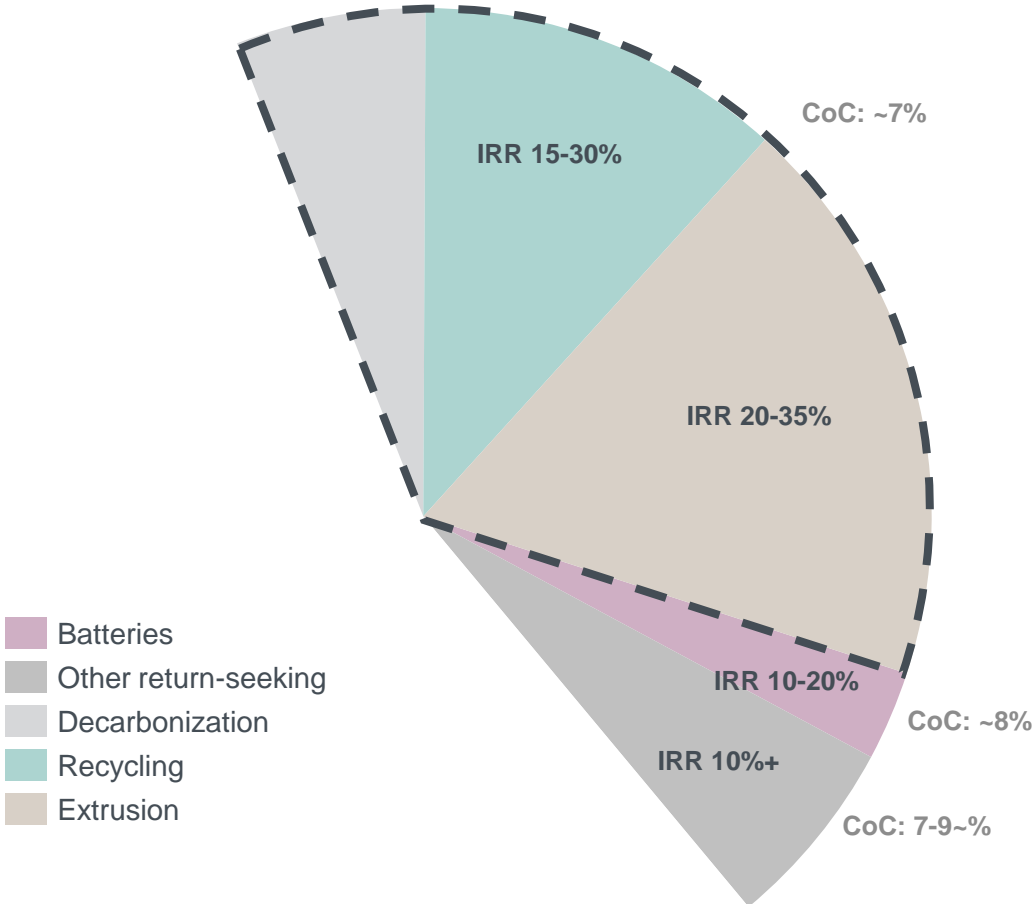
Safe, compliant and efficient operations
The Hydro Way



<p>Businesses</p>	 <p>Bauxite & Alumina</p>	 <p>Aluminium Metal</p>	 <p>Recycling</p>	 <p>Energy</p>	 <p>Extrusions</p>
<p>Strategic mode</p>	<p>Sustain and improve</p>	<p>Sustain and improve</p>	<p>Growth</p>	<p>Selective growth</p>	<p>Growth</p>
<p>Towards 2030</p>	<p>Reduce risk, improve sustainability footprint, improve cost position</p>	<p>Robustness and greener, increase product flexibility, improve cost position</p>	<p>Substantial shift in conversion of post-consumer scrap</p>	<p>Growth in renewables and batteries</p>	<p>Growth with new capacity and capabilities</p>

Strong profitability in strategic growth areas

Indicative profitability in current return-seeking and growth portfolio



2024-2028 capex

Recycling

- Increase proportion of post consumer scrap (PCS), lowering metal cost
- Improved economies of scale in brownfield expansions
- Sorting technology and equipment standardization

Extrusions

- New presses with improved capabilities and commercial value, capturing market share
- Press replacements with significant cost reductions and increased productivity
- Focus on high growth segments including automotive, systems business and commercial transportation

Decarbonization

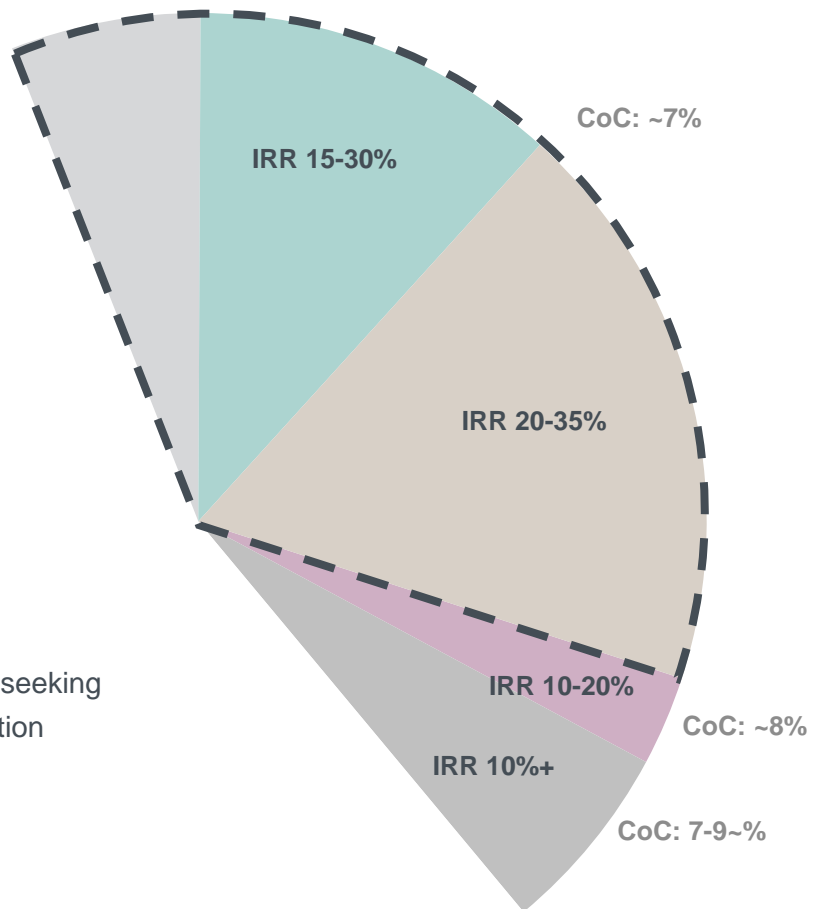
- Alunorte Fuel switch project (IRR 20+%) and electrical boilers
- Carbon capture technology pilots in mid-term, industrial scale pilot volumes by 2030
- HalZero as technology pilots in mid-term, industrial scale pilot volumes by 2030

Batteries

- Focused strategy within sustainable battery materials, leveraging Hydro capabilities
- Establish positions in attractive growth segments in core markets
- Core investments: Hydrovolt (recycling) and Vianode (anode material)

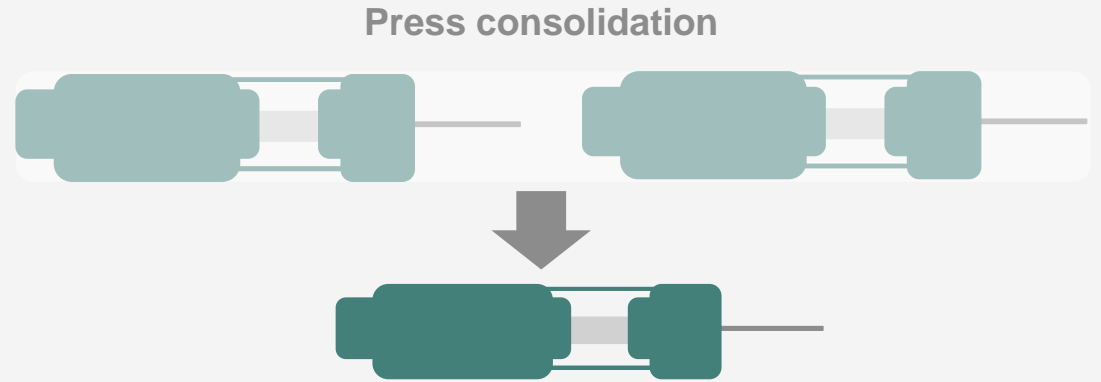
Press replacements giving new capabilities and cost savings

Indicative profitability in current return-seeking and growth portfolio



2024-2028 capex

- Batteries
- Other return-seeking
- Decarbonization
- Recycling
- Extrusion



	Two old presses	One new press
Manning	2 x 8 FTEs per shift	4-5 FTEs per shift
Maintenance cost p.a.	EUR 1,500K	EUR 350-450K
Downtime	15-20%	5-10%
Scrap rate	33-35%	25-28%
Annual production	2x9K tonnes	16K tonnes

Based on cost savings alone **IRR: 30%+**

Benefits

- Higher levels of automation and better ergonomics, state-of-the-art technology .
- New and improved technical capabilities to serve new segments at higher prices
- High energy efficiency, lower cost per kilo & higher EBITDA per ton

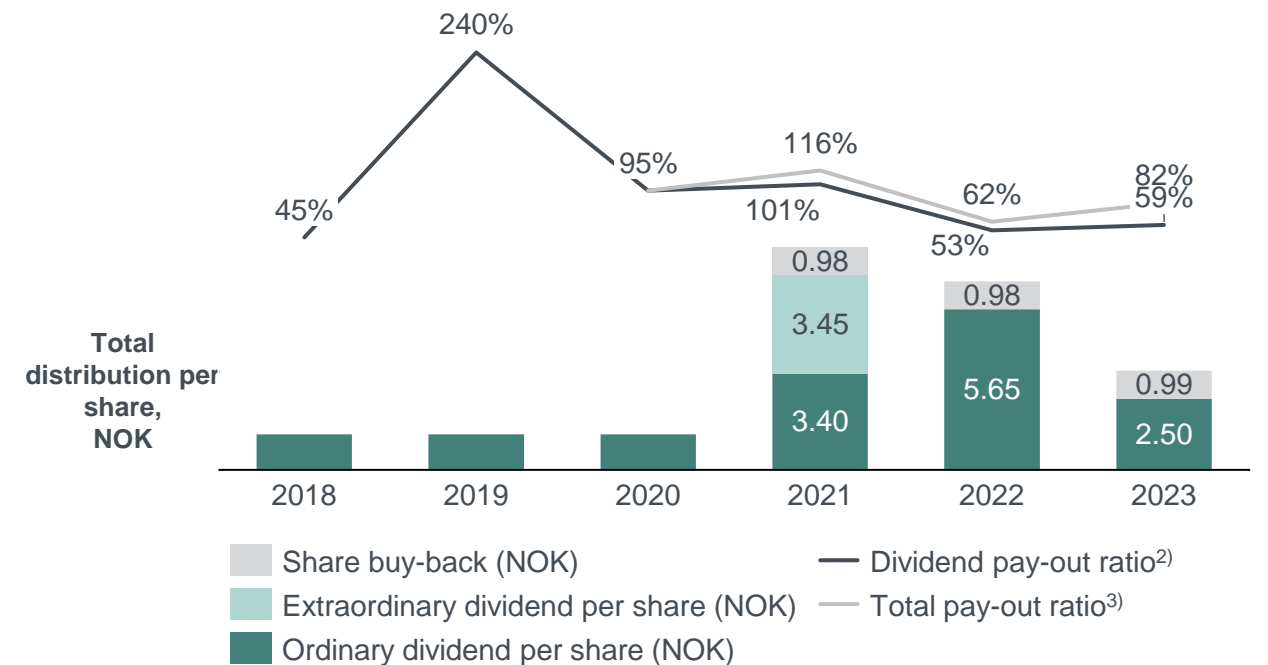
Shareholder and financial policy

- Aiming for competitive shareholder returns and dividend yield compared to alternative investments in peers
- Dividend policy
 - Average ordinary payout ratio: 50% of adjusted net income over the cycle
 - 1.25 NOK/share to be considered as a floor
 - Share buybacks and extraordinary dividends as supplement in periods with strong financials and outlook
 - Five-year average ordinary pay-out ratio 2018-2022 of ~74%
- Maintain investment-grade credit rating
 - Currently: BBB stable (S&P) & Baa3 with positive outlook (Moody's)
 - Competitive access to capital is important for Hydro's business model (counterparty risk and partnerships)
- Financial ratio target over the business cycle
 - Adjusted net debt to adjusted EBITDA < 2x



Historical shareholder distribution

Year	2018	2019	2020	2021	2022	2023
Dividend yield ¹⁾	3.2%	3.8%	3.1%	9.9%	7.7%	3.7%



Hedging policy

- **Overall risk policy**
 - Remain exposed to the inherent cash flow volatility related to Hydro's business
 - Fluctuating with the market - volatility mitigated by strong balance sheet
- **Diversified business**
 - Vertical integrated value chain reducing risk and volatility
 - Strengthening relative position to ensure competitiveness
- **Upstream margin risk**
 - Currency exposure, mainly USD and BRL
 - Exposed to LME and Platts alumina index prices
 - Strategic and operational hedging with perspective of mitigating downside risk and securing margins (not opportunistic)
 - Operational LME hedging – one-month forward sale
- **Downstream margin risk**
 - Spread between customer prices and the underlying production cost
 - As such exposed to commodity prices, exchange rates, other costs, market conditions and negotiating power
 - Risk is managed through operational hedging programs



2025 hedge position increased by 20 kt during the quarter



Aluminium hedges of 320-460 kt/yr 2024-25 in place

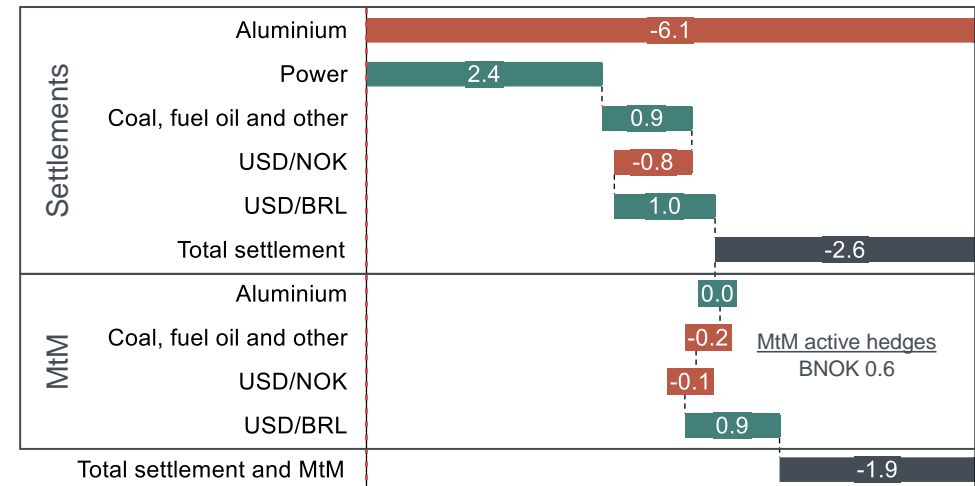
- 2024: 440 kt hedged at a price of ~2500 USD/t
- 2025: 320 kt hedged at a price of ~2500 USD/t
- Pricing mainly in NOK, with USD hedges converted to NOK via USD/NOK derivatives
- Corresponding raw material exposure partially secured using financial derivatives or physical contracts

B&A and AM BRL/USD Hedge

- USD 772 million sold forward for 2024-2026
 - USD 335 million 2024 at rate 6.19
 - USD 267 million 2025 at rate 5.33
 - USD 170 million 2026 at rate 5.48
- Aim to reduce volatility and uncertainty in Alunorte and Albras cash flows, as well as support robust cost curve positions

Strategic hedging status

NOK Billions



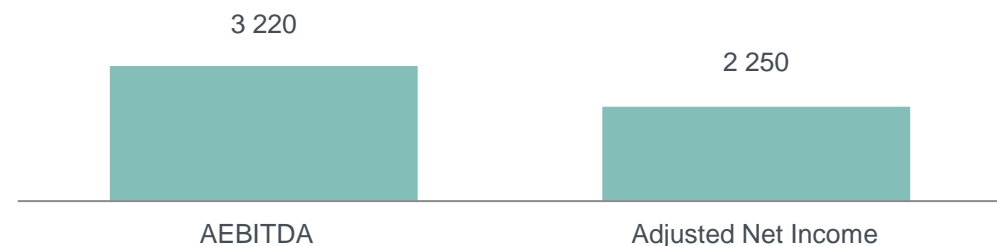
Utilizing Hydro's hedging policy to deliver on strategic ambitions

- Flexibility to hedge in certain cases
 - Support strong cost position
 - Strong margins in historical perspective, e.g., supporting ARoaCE target
 - Larger investments

Significant exposure to commodity and currency fluctuations

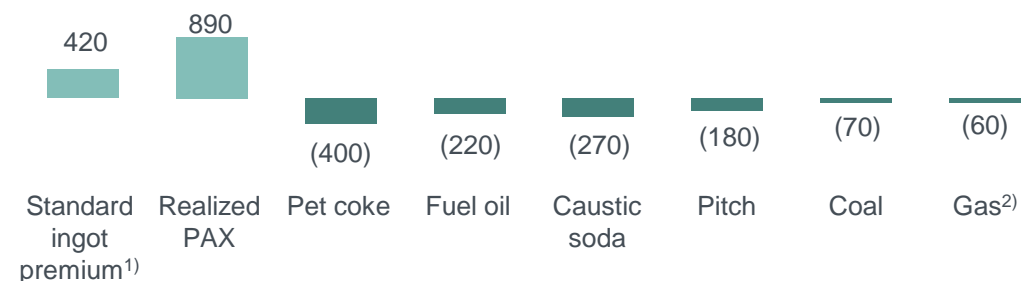
Aluminium price sensitivity +10%

NOK million



Other commodity prices, sensitivity +10%

NOK million



1) Europe duty paid. 2) Henry Hub

Currency sensitivities +10%

Sustainable effect:

NOK million	USD	BRL	EUR
AEBITDA	4,250	(1,020)	(100)

One-off reevaluation effect:

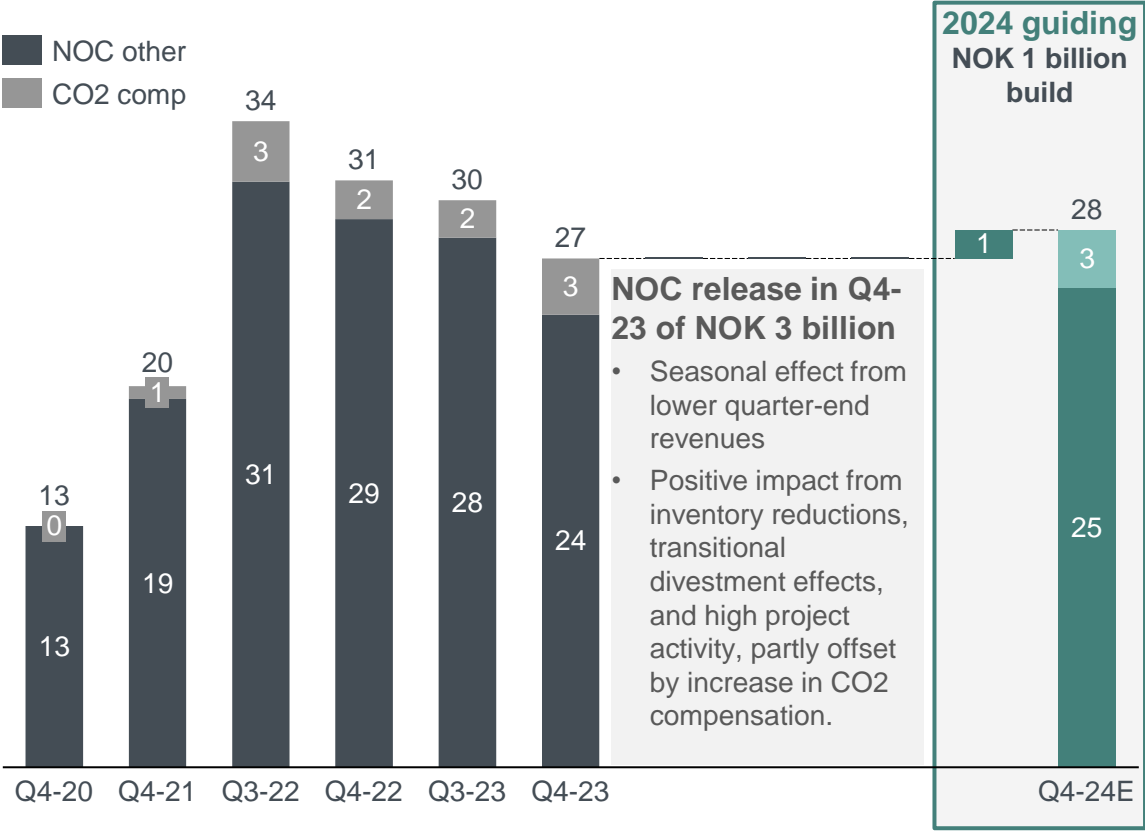
Financial items	(590)	1,390	(4,370)
-----------------	-------	-------	---------

- Annual adjusted sensitivities based on normal annual business volumes. LME 2,120 USD/mt, standard ingot premium (Europe duty paid) 190 USD/mt, PAX 355 USD/mt, fuel oil 820 USD/mt, petroleum coke 440 USD/mt, pitch 965 EUR/mt, caustic soda 360 USD/mt, coal 105 USD/mt, gas (Henry Hub) 2.74 USD/MMBtu, USDNOK 10.91, BRLNOK 2.19, EURNOK 11.66
- 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
- 2023 Platts alumina index (PAX) exposure used
- Adjusted Net Income sensitivity calculated as AEBITDA sensitivity after 30% tax
- Sensitivities include strategic hedges for 2024 (remaining volumes for 2024, annualized)

Targeting stable Net Operating Capital in 2024

Net Operating Capital¹⁾

NOK billion

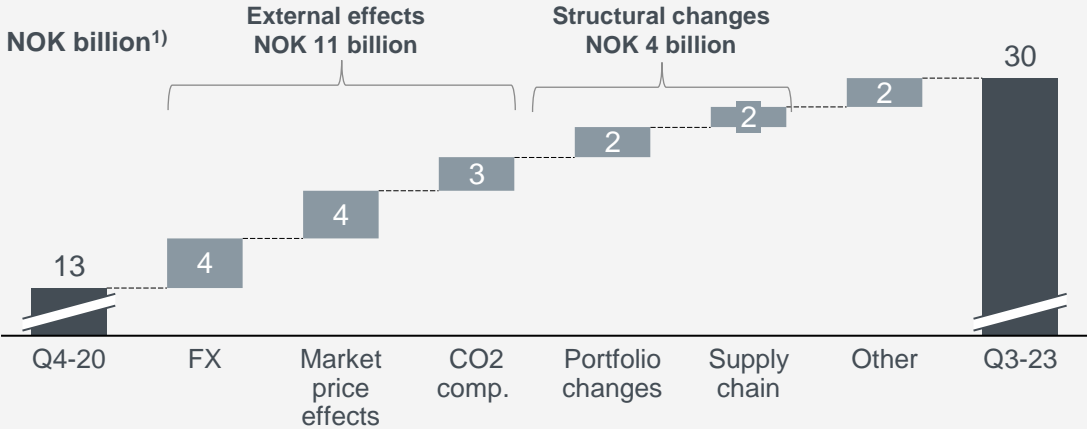


1) Net Operating Capital end of period.

Structural changes and market effects driving Net Operating Capital increase historically

NOK 17 billion NOC increase since Q4-20 (until Q3-23)

- Weakening reporting currency (NOK) (all BAs)
- Higher sales- and raw material prices (all BAs)
- Introduction of CO2 compensation scheme (AM)
- Portfolio changes (AM, HE)
- Strategic supply chain changes (AM)
- M&A and growth
- Transitional inefficiencies due to restructuring and market volatility (AM, HE)

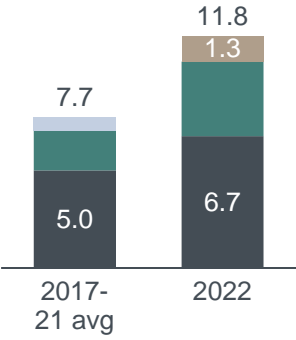


Underlying 2024 capex in line with last year's guidance

Added flexibility depending market development

Historical capex
NOK Billion

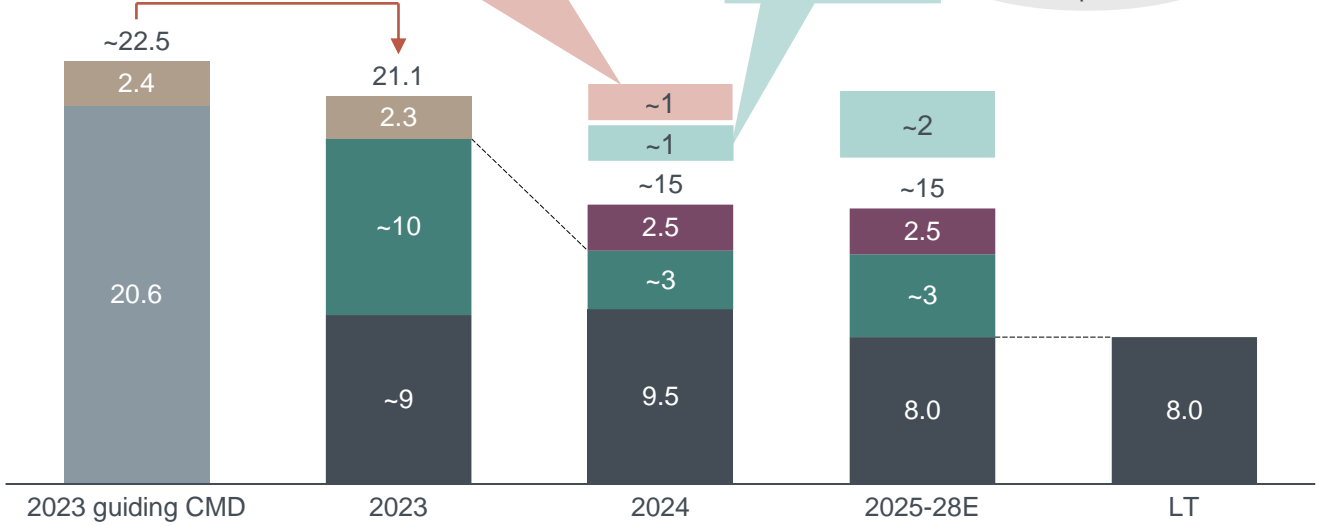
67% sustaining capex



Potential NOK ~1 billion cash effective capex from 2023, pending payables by YE 2024

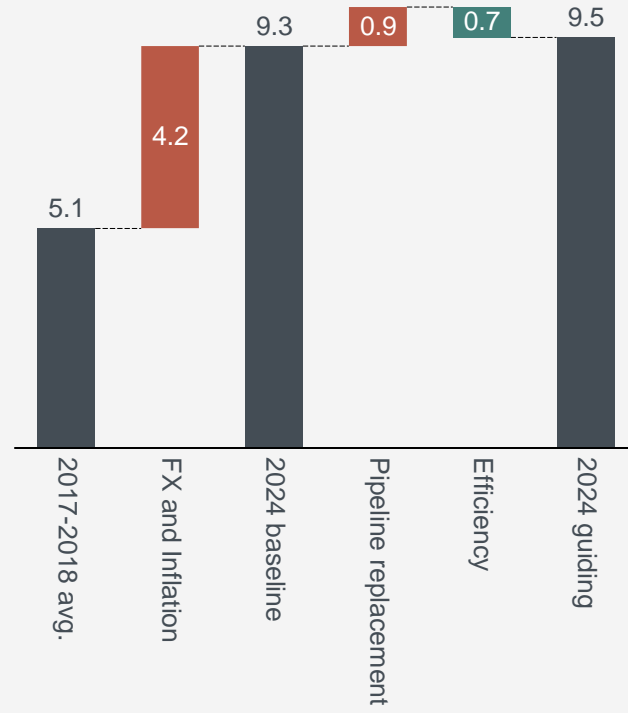
Potential for accelerated organic growth depending on market development

55% sustaining capex



- REIN (Macquarie share)
- M&A
- Recycling
- Sustaining
- Rolling
- Growth and return-seeking capex

Sustaining capex development
NOK Billion



1) 24-26 average guiding

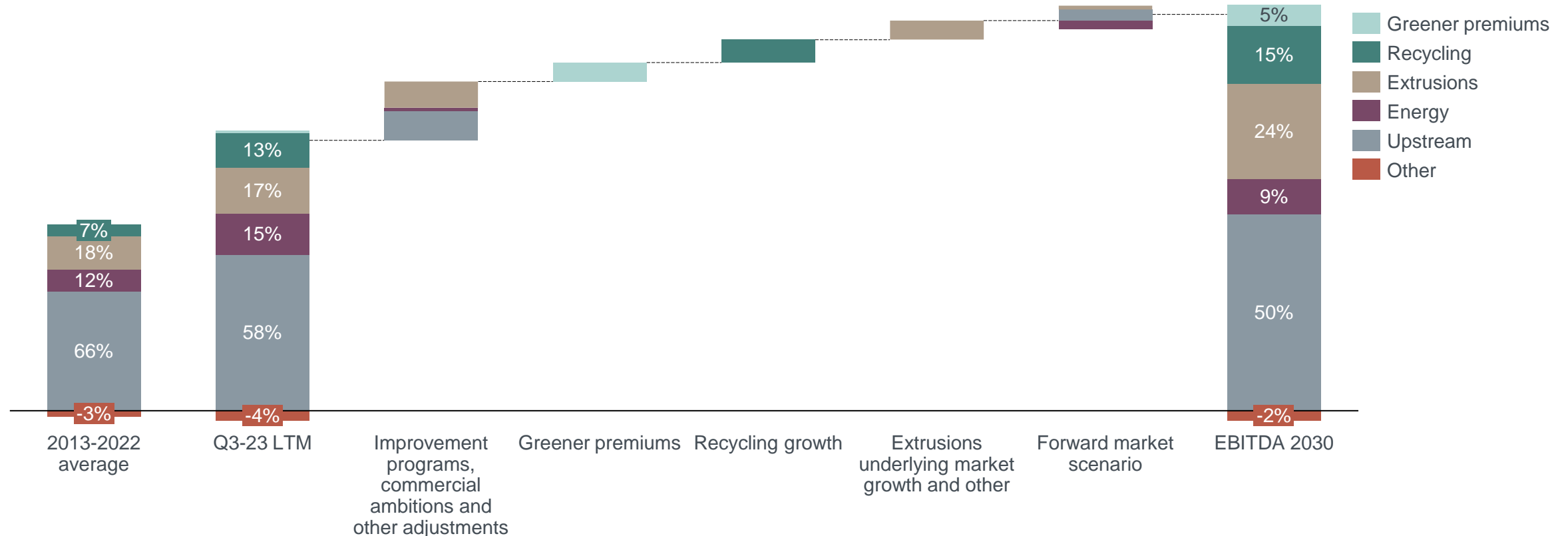
Capital allocation increases earnings resilience



Extrusion and recycling margins, greener premiums growing as share of total earnings

EBITDA

NOK billion



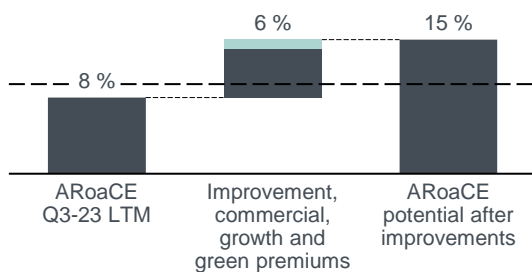
Note: 2013-2022 average and Q3-23 LTM EBITDA as reported

Hydro profitability growth roadmap

Main drivers – improvement efforts, growth and market development

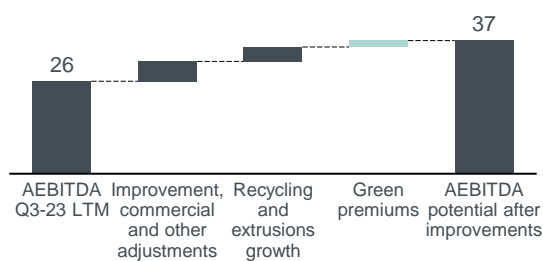
ARoaCE potential 2030

Profitability target of >10%



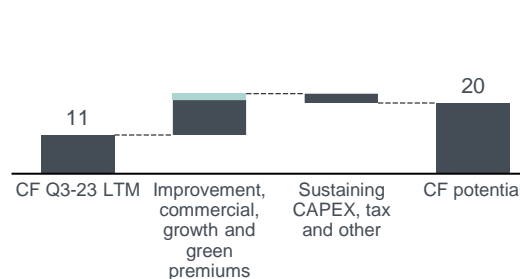
AEBITDA potential 2030

NOK billion

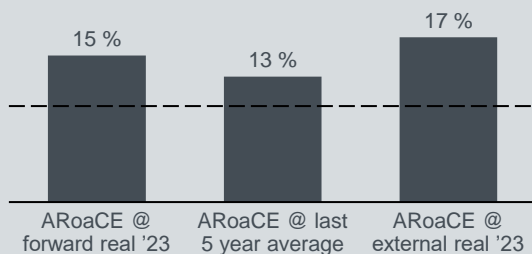


Cash flow potential after sustaining CAPEX¹⁾ 2030

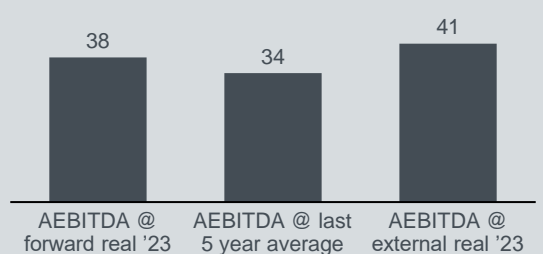
NOK billion



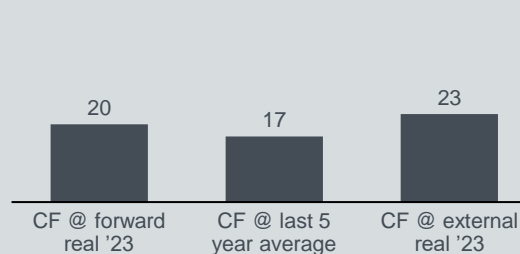
Market scenarios 2030



Market scenarios 2030



Market scenarios 2030



Main further upside drivers

- Sustainability differentiation and ability to produce net-zero aluminium
- Positive market and macro developments
- High-return growth projects
- Technology and digitization
- Portfolio optimization

Main downside risks

- Negative market and macro developments, incl. trade restrictions
- Operational disruptions
- Inflation pressure
- Project execution and performance
- Deteriorating relative positions
- Regulatory frameworks, CSR and compliance

¹⁾ Cash flow calculated as EBITDA + tax + long-term sustaining CAPEX + other (lease payments, interest expenses)

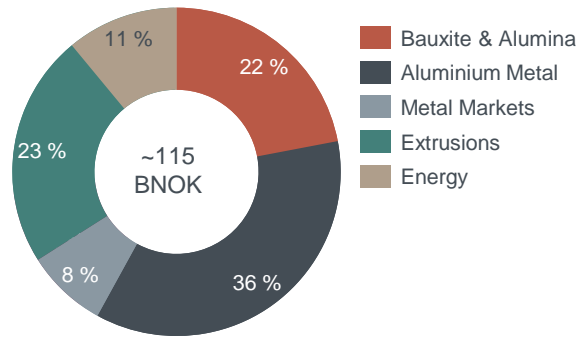
Assumptions and sources behind the scenarios can be found in Additional information

Sources: External scenario is based on CRU price and premium assumptions and S&P Global FX assumptions, with adjustments as specified in the footnotes

Capital return dashboard 2023



Capital employed¹⁾



Capital returns
adj. RoaCE

7.1%²⁾

11% last 5 years vs
10% target over the cycle

Balance sheet
adj. ND/EBITDA

0.7³⁾

adj. ND/EBITDA < 2x
target over the cycle

Free cash flow
2023

(0.2) BNOK⁴⁾

excludes BNOK 8.4 proceeds from
Alunorte shares sale

Improvements

NOK 11.6 billion
realized by end-2023

Improvement Program NOK 8.8 billion
Commercial ambitions NOK 2.8 billion⁵⁾

Net operating capital

NOK 6.9 billion cash
effective release 2023

NOK ~1 billion build
by end of 2024

Capex

NOK 21.1 billion
spent 2023

2024 guiding NOK 15 billion⁶⁾

Proposed distribution:

For 2023
NOK 7 billion⁷⁾

2.50 NOK/share ordinary dividend
NOK 2 billion share buyback

1) Graph excludes (2.7) BNOK in capital employed in Other & Eliminations

2) Adj. RoaCE calculated as adjusted EBIT last 4 quarters less underlying tax expense adjusted for 30% tax on financial items / average capital employed last 4 quarters

3) Average adjusted net debt last 4 quarters / total adjusted EBITDA last 4 quarters

4) Free cash flow – operating cash flow excl. collateral and net purchases of money market funds, less investing cash flow excl. sales/purchases of short-term investments

5) Including Energy commercial in scope, NOK 0.4 billion 2023

6) Excluding Hydro Rein. Potential for additional NOK ~1 billion accelerated organic growth depending on market development. Potential NOK ~1 billion cash effective capex payables from 2023 on top, pending payables by YE 2024

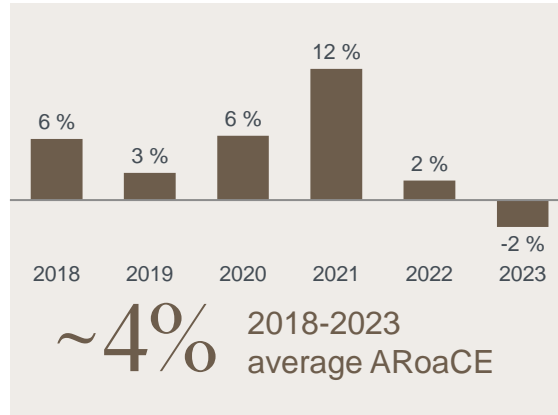
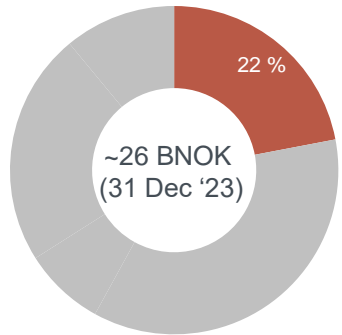
7) Pending approval from the AGM on May 7th, 2024

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

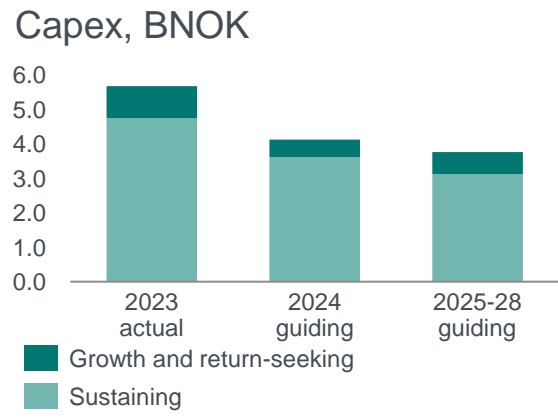


1.8 BNOK
Adjusted EBITDA FY 2023

10-11%
Return requirement

1.0 BNOK
2024-2030 incremental EBITDA from improvement potential and commercial ambitions.
Reduce 25% of CO₂e by 2025. 1:1 reforestation target.

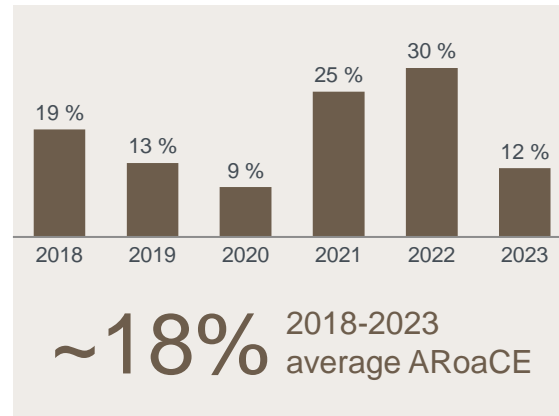
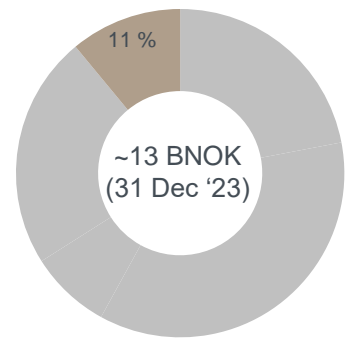
Fuel switch project improving Alunorte's competitiveness and sustainability



Capital return dashboard for Energy

Returns above the cost of capital reflecting the depreciated asset base

Capital employed in Energy



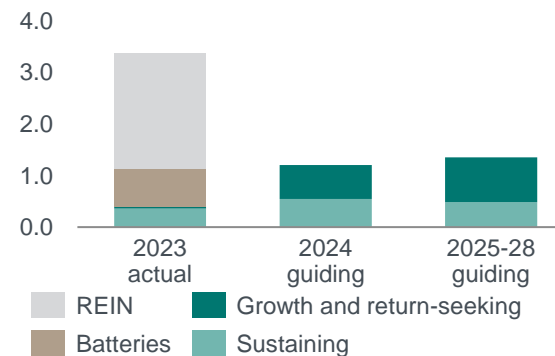
3.1 BNOK
Adjusted EBITDA FY 2023

6-7%
Return requirement

Increase Energy commercial impact from NOK 0.4 billion to NOK 0.7 billion

Hydro Rein partnership with Macquarie Asset Management secures USD 300 million capital raise to accelerate and finance project pipeline

Capex, BNOK

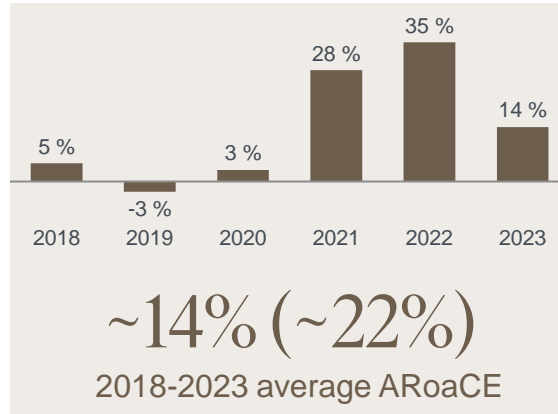
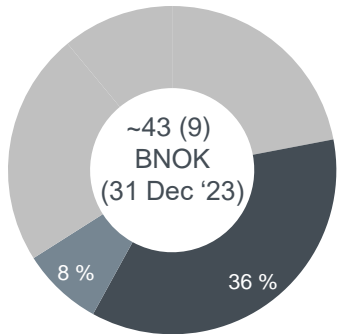


Capital return dashboard for Aluminium Metal & Metal Markets



Investments in recycling capacity to support growth

Capital employed in AM (MM)



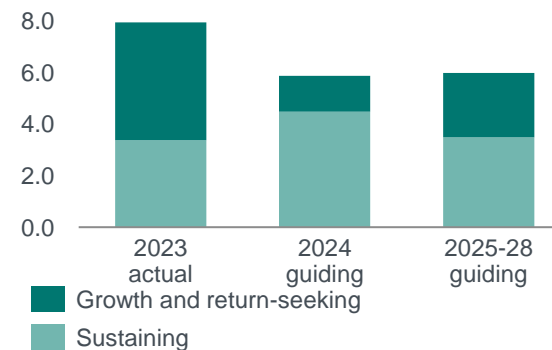
10.5 (1.5) BNOK
Adjusted EBITDA FY 2023

10%-11%
(7-8%)
Return requirement

1.5 + 0.2
BNOK
2024-2030 incremental EBITDA from improvement potential and commercial ambitions

Investments in recycling capacity to support growth

Capex, BNOK

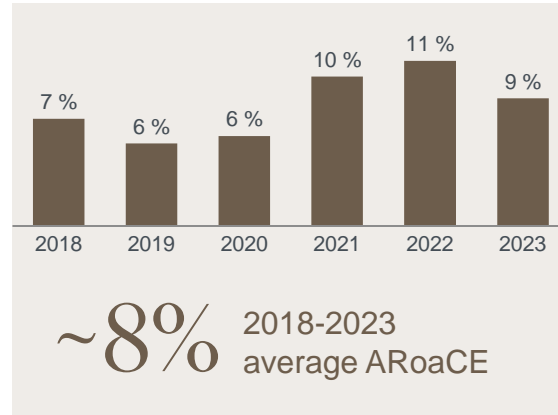
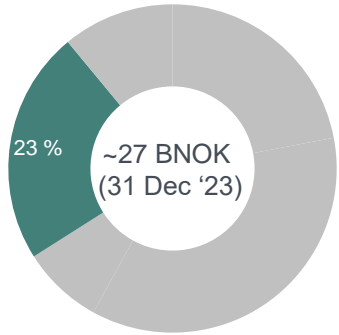


1) Strategic theme for Recycling is growth

Capital return dashboard for Extrusions

Returns in line with the cost of capital reflecting leading market positions in high value segments and portfolio optimization

Capital employed in Extrusions



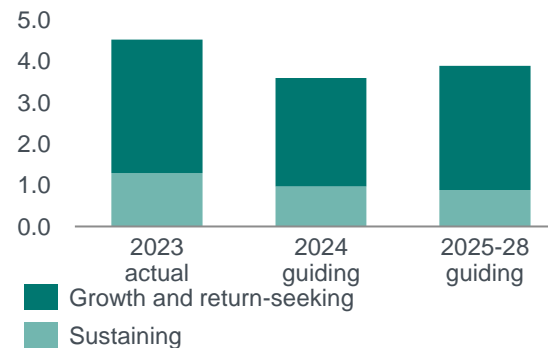
6.5 BNOK
Adjusted EBITDA FY 2023

7-8%
Return requirement

**1.7 + 1.0
BNOK**
2024-2030 incremental EBITDA from improvement potential and commercial ambitions

Investments in new presses and recycling projects to support growth

Capex, BNOK



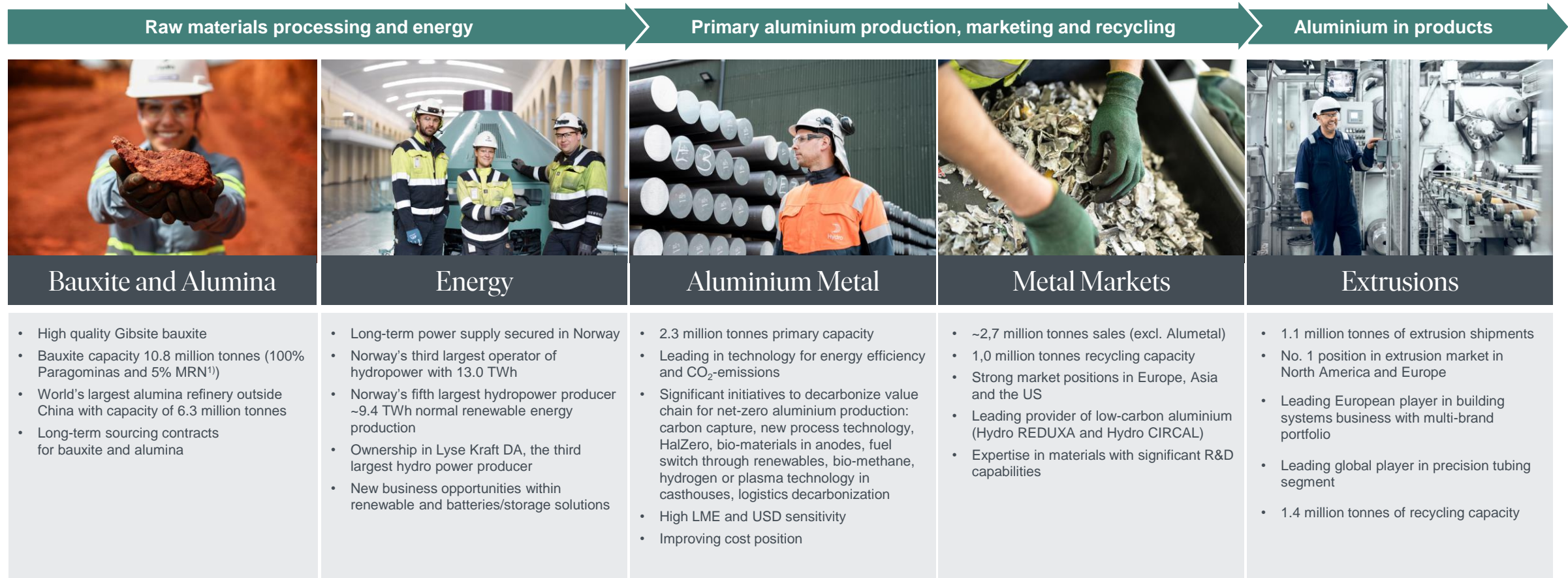


Appendix: Business Areas

The aluminium value chain



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



100% of volumes for assets that are fully consolidated and pro rata volumes for other assets.

1) Until December 1st, 2023 (Glencore transaction)

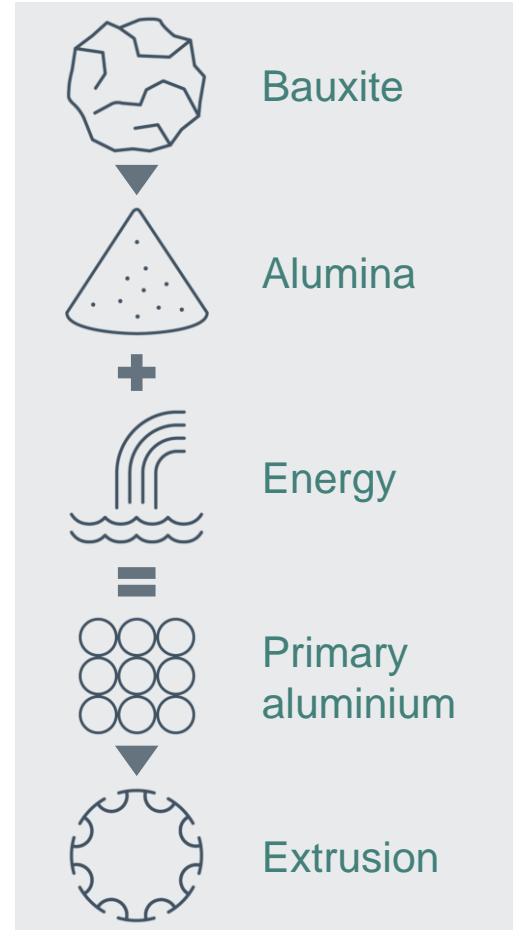


Bauxite & Alumina

B&A is an important enabler for low-carbon aluminium



Controlling the top of the value chain



We can produce among the lowest carbon aluminum in the world

4-6 times
lower than the world global primary average

Guaranteeing an integrated supply chain that follows world class ESG practices

Enabling greener premiums for our primary aluminium and extrusion products

WE ARE FOCUSED ON NET CARBON-NEUTRALITY BY 2039
throughout our entire value chain

Hydro has the highest quality, lowest carbon and most sustainable Alumina in the world allowing us to demand a greener premium from our top customers

By 2025 B&A will deliver:

- + 1st Decile Energy usage
 - + 1st Decile Emissions
 - + Best Practice Tailings Management
 - + Best Practice Residue Management
 - + Best Practice Reforestation
 - + Best Practice Social Investment
 - + Best Practice Community Engagement
-
- = **Global EPD + greener premium**

Industry frontrunner with robust operations



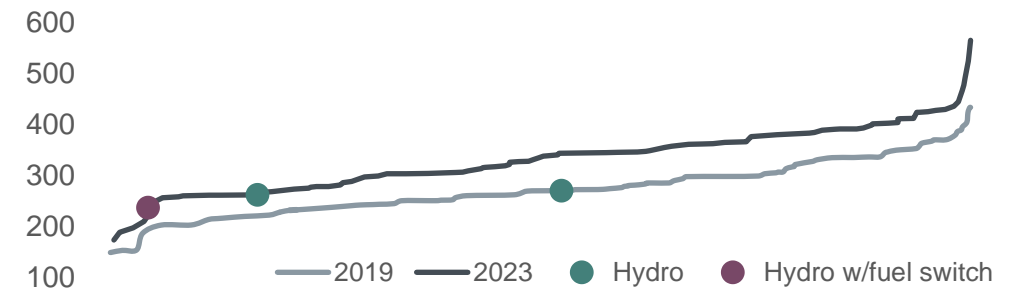
B&A have developed a more robust operation, but current market environment is challenging

Improved operations

- Nameplate production at Alunorte/Paragominas for the last 3 years
- Greatly improved asset integrity leading to the first award of ISO55001 to a refinery and to a bauxite mine
- Complete rebuild of the water management systems to reflect the changing climate/rainfall levels
- Successful deployment of the press filters
- Development and deployment of tailings dry backfill
- Strengthened key relationships both in the government and local communities
- Rebalancing alumina portfolio (Glencore deal) to reflect internal Alumina needs, returning cash to Hydro
- All while delivering some of the highest quality alumina in the world

Competitive cost position

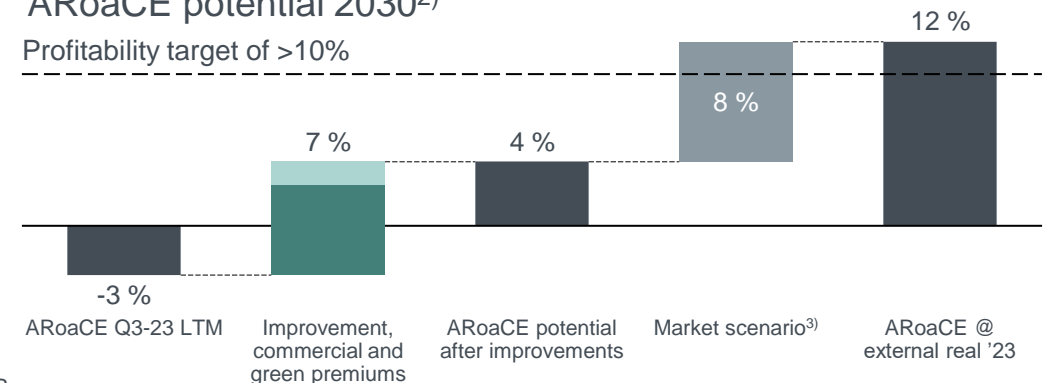
CRU (2023), USD per tonne Alumina¹⁾



Roadmap to profitability in market scenario

ARoaCE potential 2030²⁾

Profitability target of >10%



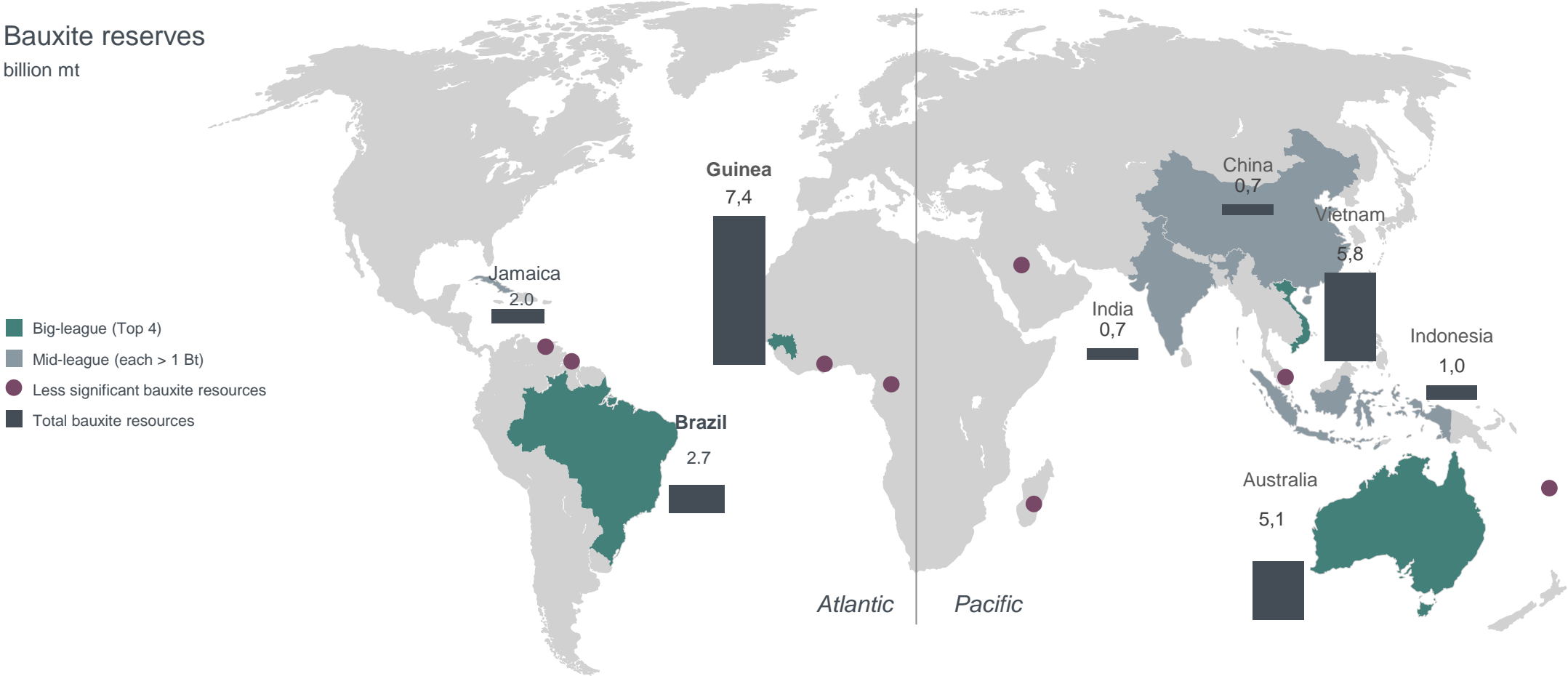
1) CRU 2023 cost curve. 2) Cash flow calculated as EBITDA + tax + long-term sustaining CAPEX. Assumptions and sources behind the scenarios can be found in Additional information. 3) Sources: External scenario is based on CRU price and premium assumptions and S&P Global FX assumptions, with adjustments as specified in the footnotes

Large and concentrated bauxite reserves



Guinea stands out as a long-term source

Bauxite reserves
billion mt



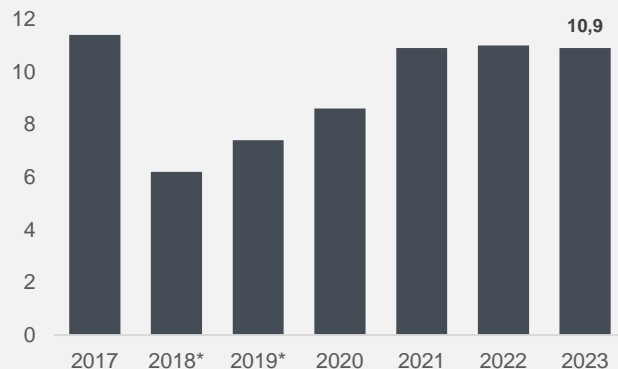
Source: USGS

Bauxite and alumina cluster in Para, Brazil

Paragominas bauxite mine



Bauxite production, mt
(100% ownership, nameplate capacity 9.9mt)

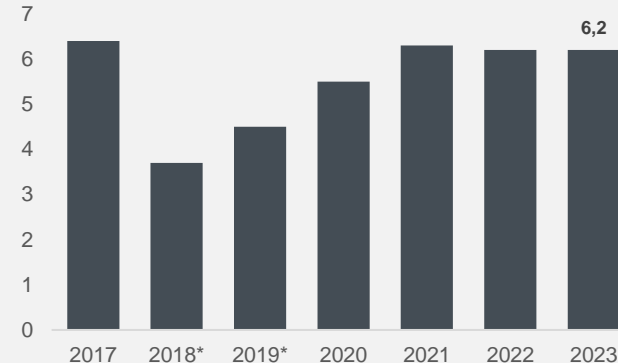


- Long-life resource
- Bauxite transported by pipeline
- Pioneering “tailing dry backfill” method for waste management

Alunorte alumina refinery



Alumina production, mt
(62% ownership, nameplate capacity 6.3mt)



- World’s largest alumina refinery outside China
- Bauxite supplied from Paragominas and MRN
- World-class conversion cost position
- State-of-the-art press filter tech 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.

Hydro and Glencore partnering up to further develop Alunorte

Hydro balances its alumina portfolio after agreement with Glencore¹⁾

- Hydro has sold 30% of Alunorte and 5% ownership in MRN to Glencore
- Glencore acquired an additional 40% of MRN, currently owned by Vale. This stake will be acquired by Hydro from Vale and immediately sold to Glencore on a back-to-back basis.
- The transaction has an *enterprise value of USD 1.15 billion* (including ARO).
- Net debt at Alunorte as of 31 March 2023 was USD 375 million

The sale is an important step to deliver on Hydro's 2025 strategy

- Proceeds used for strategic growth investments in line with Hydro's 2025 strategy and shareholder distribution
- Alunorte is a core strategic asset, however equity alumina production will be more balanced
- Continue to reduce emissions from Alunorte through fuel switch project and electrification of coal boilers, targeting first decile position on global carbon curve by 2025
- Strong commitment to continue development of social projects to improve the lives and livelihoods in nearby communities

Alunorte



- Location: **Barcarena, state of Pará, Brazil**
- Annual capacity: **6.3 mt/year**
- Employees: **7 900¹⁾**
- Pre transaction ownership: **92%**
- Post transaction ownership: **62%**



- Location: **Oriximiná-PA, Brazil**
- Annual capacity: **12.5mt /year**
- Employees: **5 200¹⁾**
- Pre transaction ownership: **5%**
- Post transaction ownership: **0%**

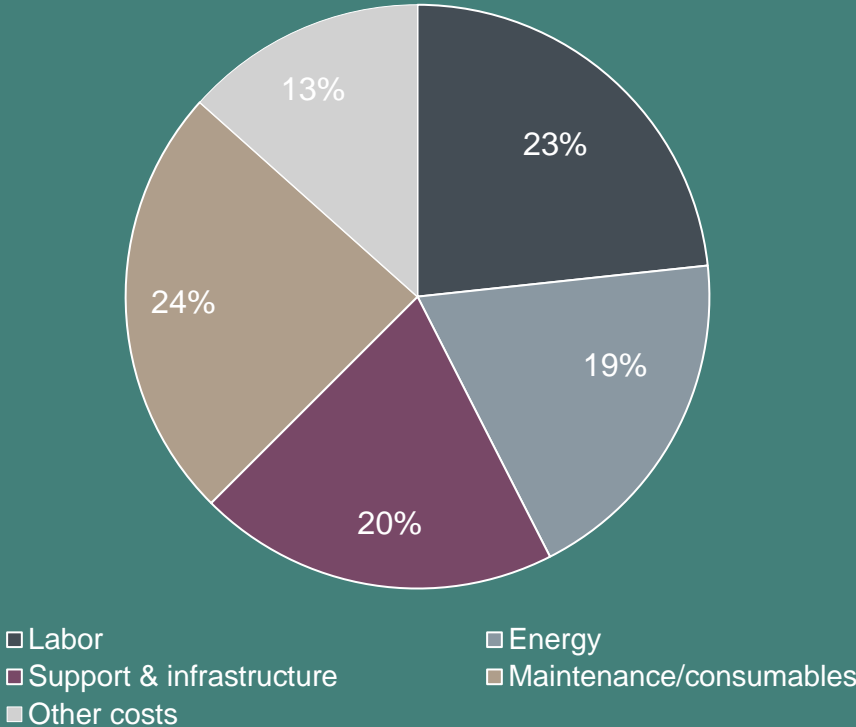
1) Valid from December 1st, 2023

1) Includes contractors

Bauxite operational mining costs in Paragominas

- Labor cost
 - Influenced by Brazilian wage level
- Energy cost
 - Refers to Power and fuel cost
- Maintenance and consumables
 - Mainly influenced by Brazilian inflation
- *Large fixed cost base (labor and maintenance) participation.*

Indicative Paragominas bauxite mining costs



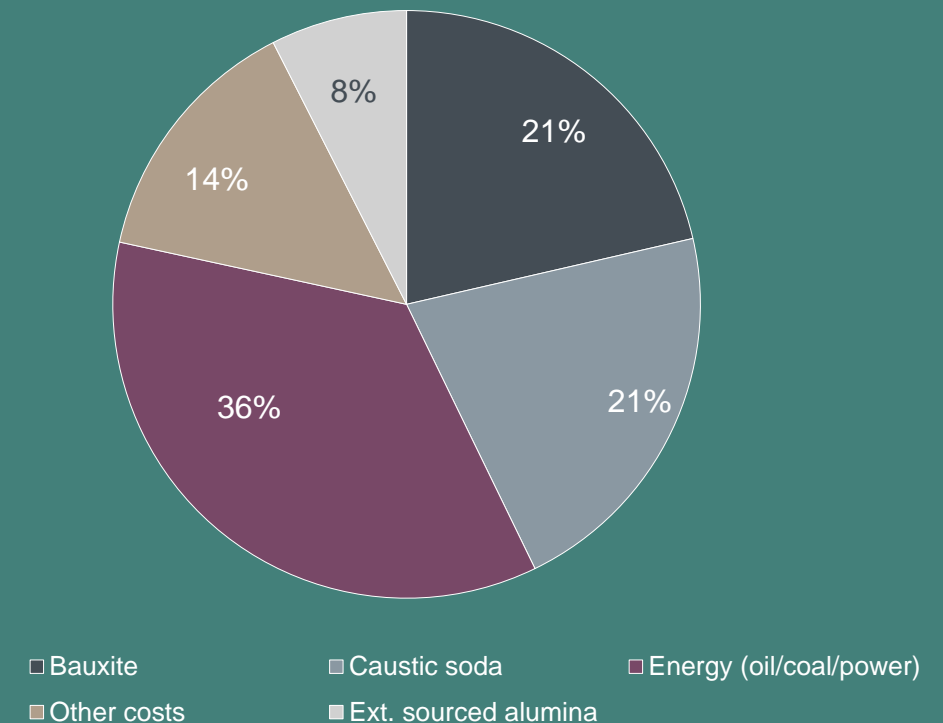
Favorable integrated alumina cost position

- Implied alumina cost 2023 - USD 340 per mt¹⁾
 - Alunorte, Paragominas and external alumina sourcing for resale
- Bauxite
 - Internal bauxite from Paragominas at cost, sourced bauxite from MRN
 - External bauxite sales ²⁾
- Energy
 - 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

1) Realized alumina price minus Adjusted EBITDA for B&A, per mt alumina sales

2) Until December 1st, 2023 (Glencore transaction)

Indicative implied alumina cost composition



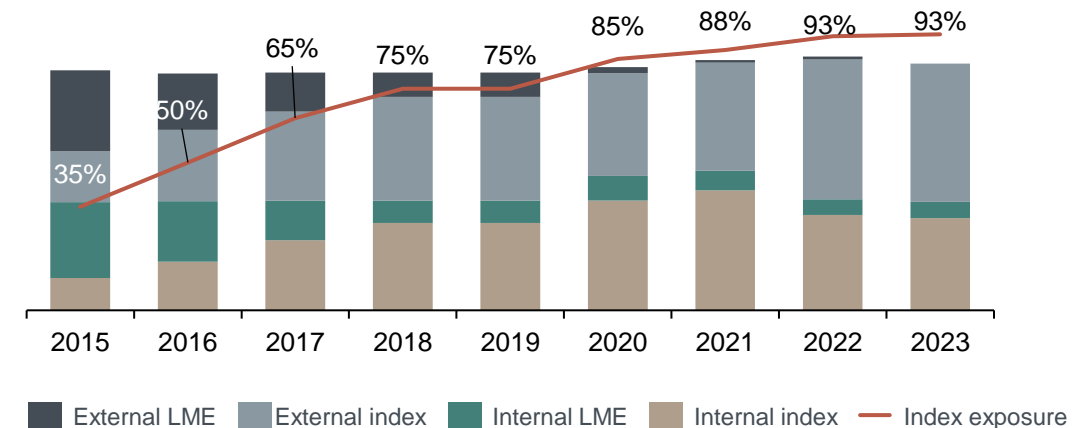
Strong commercial organization maximizing the value of B&A assets

External alumina sourcing

- 4.0-4.5²⁾ million mt of external alumina sourced annually
- 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 alumina

- Pricing should reflect alumina market fundamentals
- Selling 3-4 million mt per year of alumina externally
 - Index pricing¹⁾ (the new norm) and short to medium-term contracts
 - New contracts: 100% sold on index, except hydrate and short-term contracts, normal terms 1-3 years
 - Legacy LME-linked contracts: priced at ~14% of LME 3M



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.

2) Including volumes repurchased from Glencore under the term of the sale of 30% equity in Alunorte

Focus on driving profitability in a sustainable way



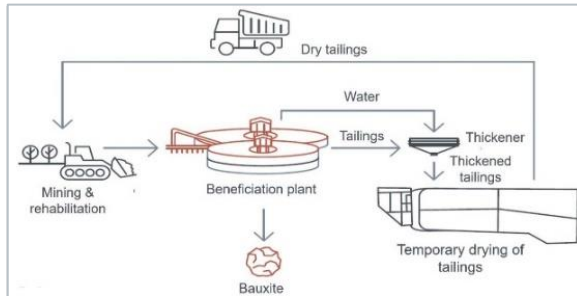
CAPEX: 5.7 BNOK

Improvement program

Tailings dry backfill

Fuel switch

El-boilers



60% IRR

↓1,000HA
land usage

26% IRR

- 700 000 tons
CO₂

>50% IRR

- 400 000
tons CO₂

Improvements
NOK 3.2 Billion

Commercial
NOK 620 million

- Tailings dry backfill **removes the need for tailings dams.**
- **New standard in Brazil** and no new tailings storage areas will be licensed
- Moving away from tailings storage dams **increases safety and saves billions of NOK in CAPEX**

- FSRU arriving at Alunorte by year end
- Upon full conversion, **700,000 tonnes reduced in CO₂ emissions per year and ~USD 25 per tonne improved cash cost** (USD 160-190 million annually¹⁾)
- Moving from Brent index (Oil) to Henry Hub (Gas) reduces the price volatility

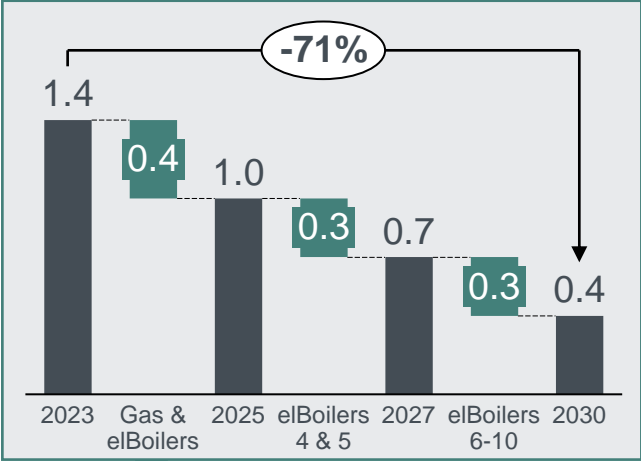
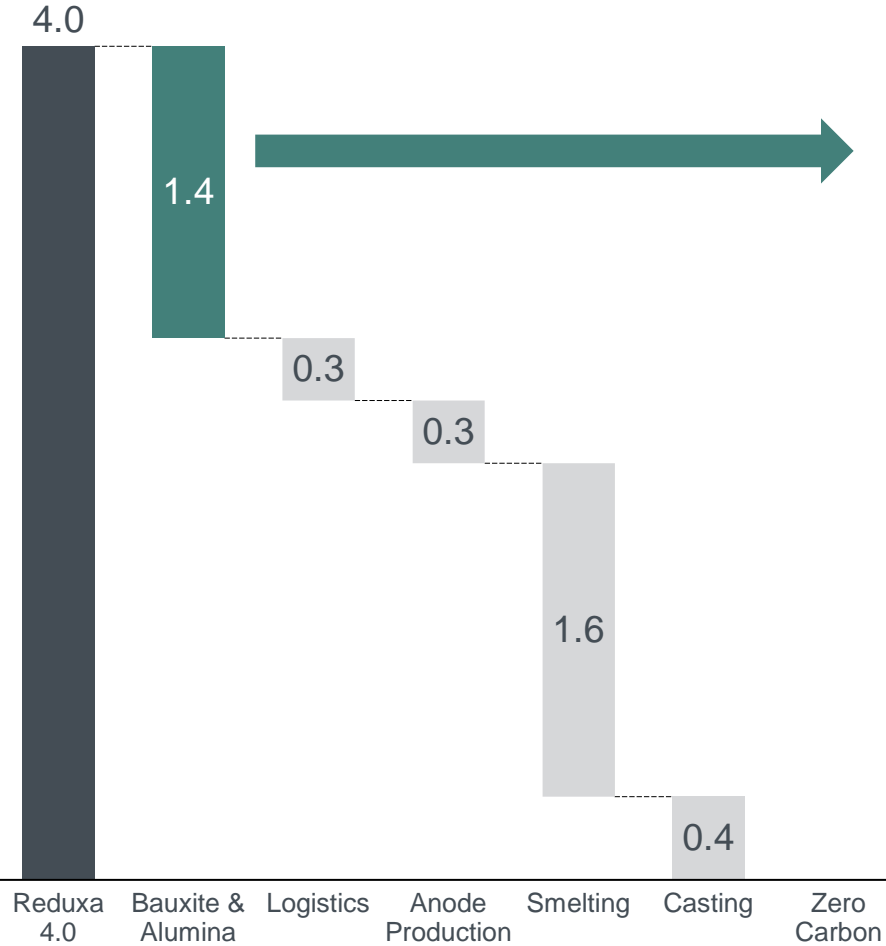
- With the success of 1st electrical boiler (IRR>200%), **two more electrical boilers** are currently being installed
- Powered by **20-year renewable PPA's with Hydro Rein projects**, provide a stable power price for the next 20 years at an average of USD 6 per MWh cheaper than gas

- The Improvement Program brings significant gains through high-energy engagement from the whole organization
- The Commercial program highlights the trading book efficiency for alumina and hydrate sales

1) USD 160 million on forward prices 2025 (first year of full effect), USD 190 million on spot as of Q3 2023

Alunorte to reduce carbon 70% by 2030

CO₂e emissions kgCO₂/kgAl



- Already 1st Quartile emissions in 2023
- Fuel Switch and three el-boilers will move Alunorte to one of the lowest smelter grade Alumina available (project being executed)
- Further two el-boilers will remove the need to use coal by 2027
- An additional five el-boilers will give us the ability to produce steam without emissions

1) CRU 2023 emission curve



Contributing to nature positive



Reforestation

- **Best practice reforestation program** in Paragominas, exceeding 1-to-1 replanting on a strict a three-year cycle:
 - Year 1 = Deforestation
 - Year 2 = Mining
 - Year 3 = Reforestation
- Working together with multiple universities and researches
- Expanding the program and **start rehabilitation outside of our mine**, contributing towards Nature Positive



Residue management

- Hydro is **current best practice in Residue management** averaging 0.7T of Residue per T of alumina
- **Entered into an agreement with Wave Aluminium** – creating the potential to extract up to 1 million tons of carbon free pig iron from residue each year
- The first phase of the treatment plant will go live in 2024 and will be **capable of processing 50,000T of Residue**

Investing in the community is our license to operate



Social Infrastructure

- Construction of **9 Terpaz community centers** (3 already built) targets security, income generation and access to basic services to 1,500 people per day
- Construction of a Technical School with the **capacity to educate 1,200 students per year**



Community Projects

- Investment in community-based projects **benefitted 80 thousand people since 2018**
- **60 thousand people** with access to education
- **1,400 family farmers** with access to technical support



Stakeholder Engagement

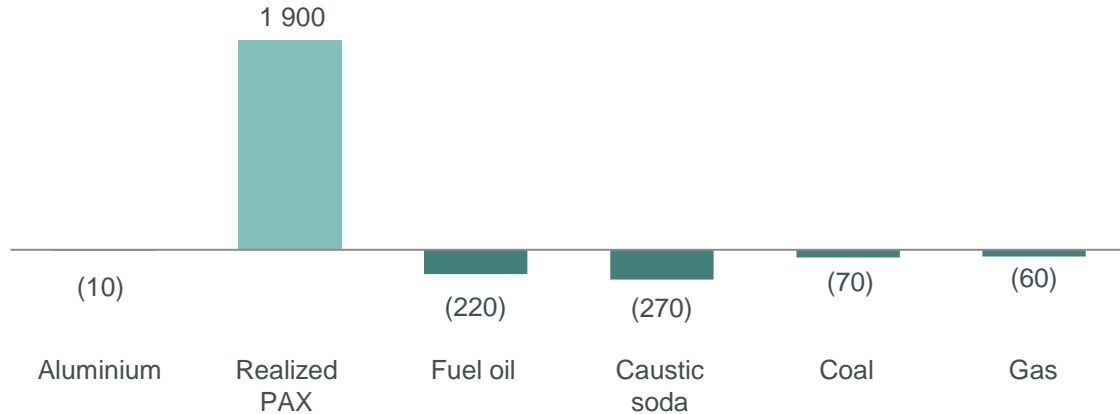
- **Transparency, dialogue and volunteer work** are performed by a dedicated team
- 178 community leaders are involved in a dialogue forum called Sustainable Barcarena Initiative
- **500 volunteers** worked to benefit 14 thousand people and 70 local organizations

Bauxite & Alumina sensitivities



Annual sensitivities on adjusted EBITDA if +10% in price

NOK million



Currency sensitivities +10%

NOK million	USD	BRL	EUR
AEBITDA	1,150	(750)	-

Revenue impact

- 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)

Annual adjusted sensitivities based on normal annual business volumes. LME 2,120 USD/mt, standard ingot premium (Europe duty paid) 190 USD/mt, PAX 355 USD/mt, fuel oil 820 USD/mt, petroleum coke 440 USD/mt, pitch 965 EUR/mt, caustic soda 360 USD/mt, coal 105 USD/mt, gas (Henry Hub) 2.74 USD/MMBtu, USDNOK 10.91, BRLNOK 2.19, EURNOK 11.66
BRL sensitivity calculated on a long-term basis with fuel oil assumed in USD. In the short-term, fuel oil is BRL-denominated. 2023 Platts alumina index (PAX) exposure used

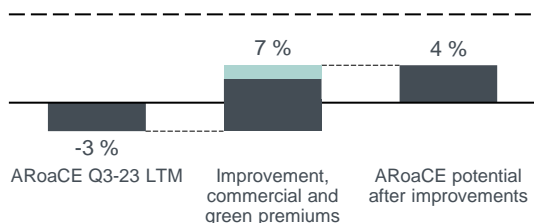
Bauxite & Alumina profitability growth roadmap



Main drivers – fuel switch, commercial differentiation and market development

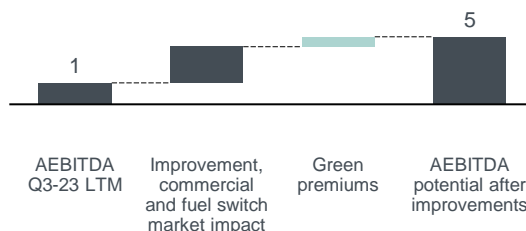
ARoaCE potential 2030

Profitability target of >10%



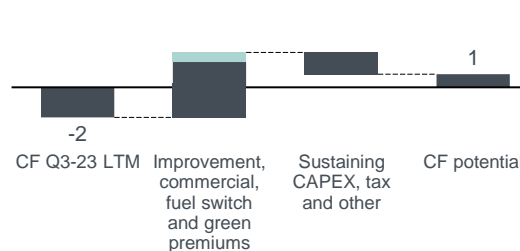
AEBITDA potential 2030

NOK billion



Cash flow potential after sustaining CAPEX¹⁾ 2030

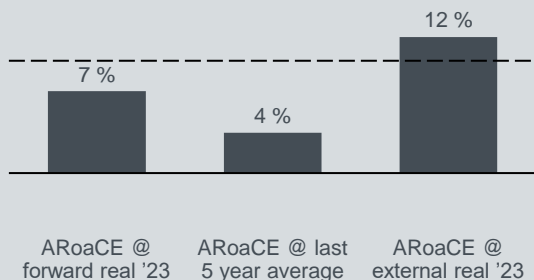
NOK billion



Main further upside drivers

- Positive market and macro developments
- Further commercial differentiation, incl. greener alumina
- Fleet optimization at the mine
- Sustaining CAPEX optimization

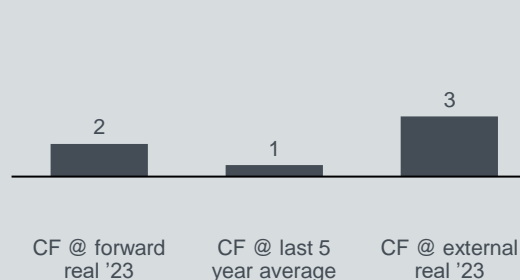
Market scenarios 2030



Market scenarios 2030



Market scenarios 2030



Main downside risks

- Operational disruptions
- Negative market and macro developments
- Regulatory, CSR and country risk
- Supply chain disruptions
- Value chain concentration in Brazil

1) Cash flow calculated as EBITDA + tax + long-term sustaining CAPEX

Assumptions and sources behind the scenarios can be found in Additional information

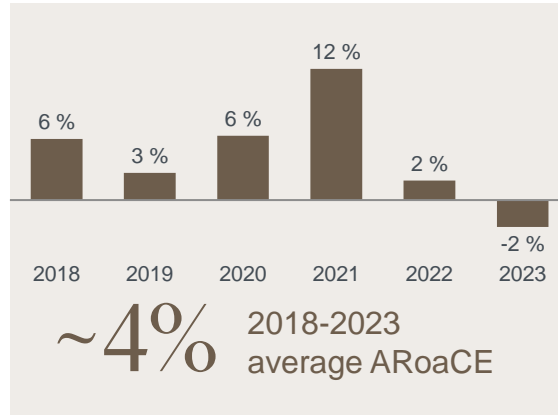
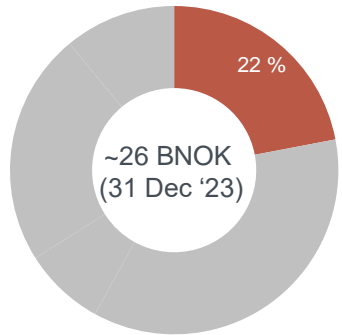
Sources: External scenario is based on CRU price and premium assumptions and S&P Global FX assumptions, with adjustments as specified in the footnotes

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



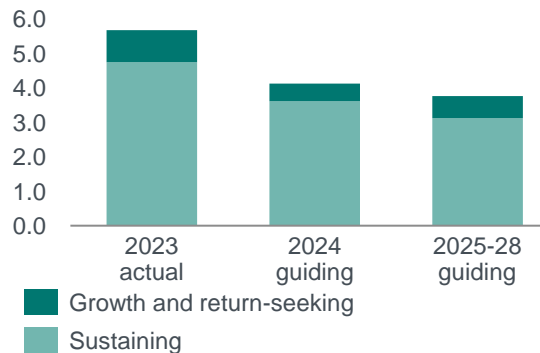
1.8 BNOK
Adjusted EBITDA FY 2023

10-11%
Return requirement

1.0 BNOK
2024-2030 incremental EBITDA from improvement potential and commercial ambitions.
Reduce 25% of CO₂e by 2025. 1:1 reforestation target.

Fuel switch project improving Alunorte's competitiveness and sustainability

Capex, BNOK



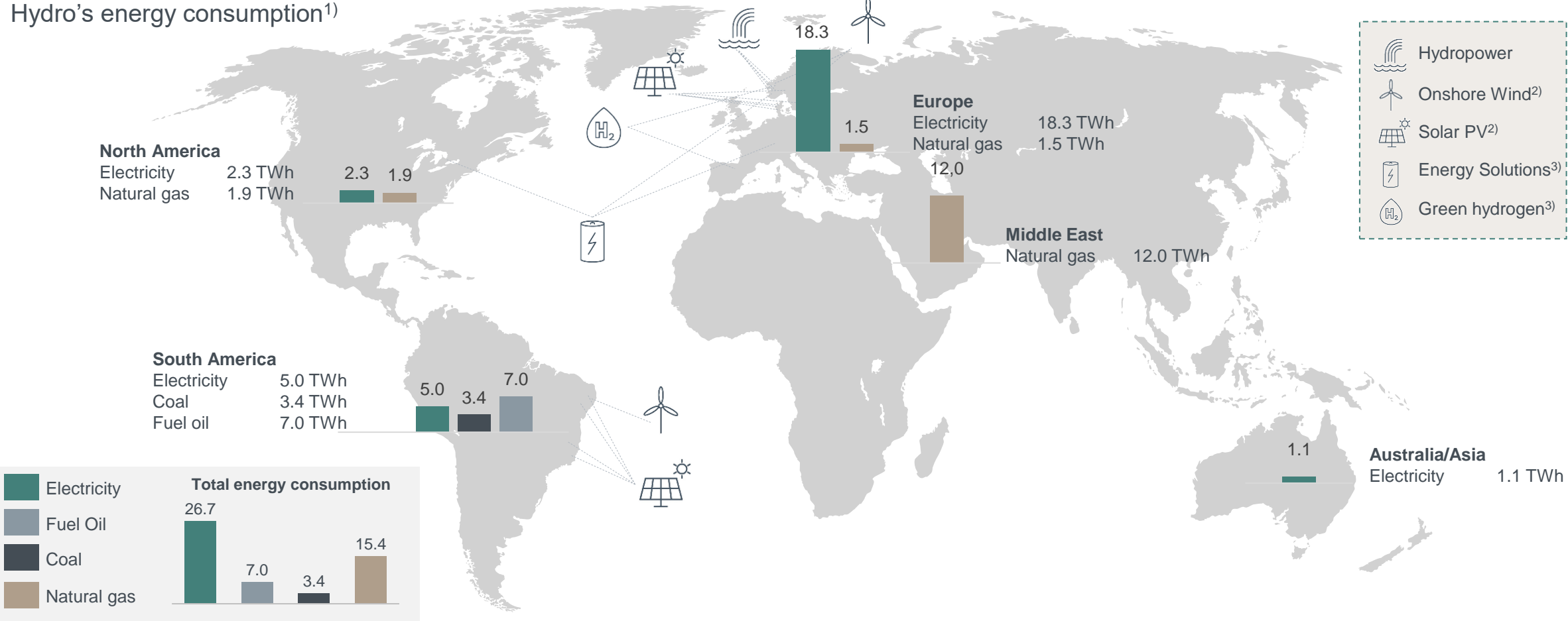


Energy

Pioneering the green aluminium transition, powered by renewable energy



Hydro's energy consumption¹⁾

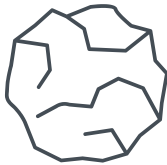


1) Based on equity-adjusted 2022 values for Norsk Hydro's bauxite mines, alumina refineries, smelters, remelters and extrusion plants.
 2) Only projects in operation and under construction or announced. 3) Only pilot projects

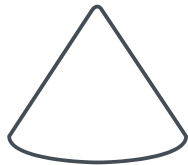
Energy is a key differentiator in the aluminium industry



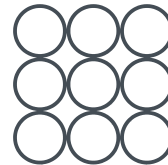
Center of energy excellence in Hydro



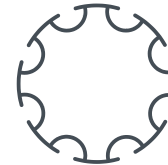
Bauxite



Alumina



Primary



Extrusion

Energy cost ¹⁾



Energy business area's contribution to Hydro

- | | | | |
|--|--|---|--|
| <ul style="list-style-type: none"> • Power sourcing | <ul style="list-style-type: none"> • Power sourcing • Fuel switch project (LNG) • Energy mix long term, renewables, storage | <ul style="list-style-type: none"> • Power sourcing and production • Gas sourcing | <ul style="list-style-type: none"> • Power sourcing • Gas sourcing |
|--|--|---|--|

Market understanding. Framework advocacy. «Greener» support & energy efficiency support. Security of supply

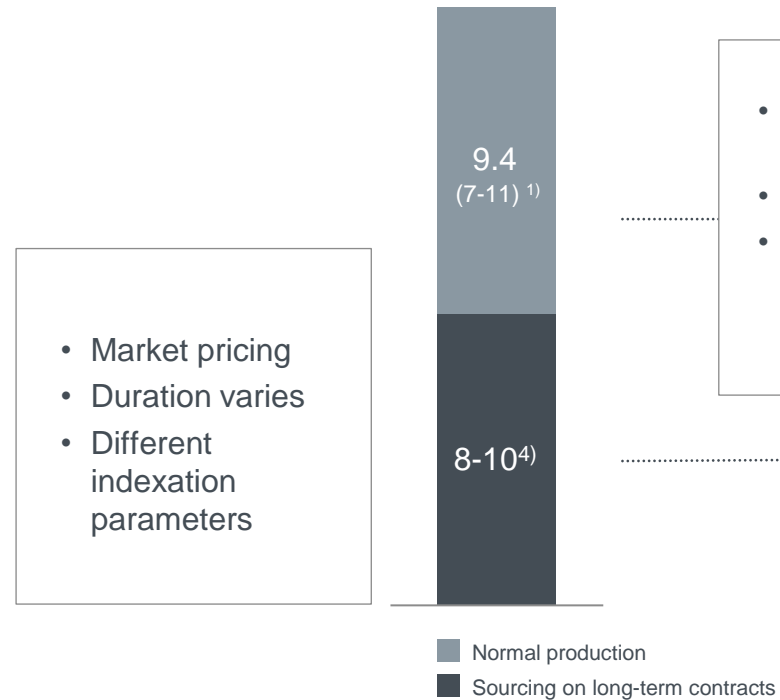
1) Share of Business Operating Cash Cost over the cycle

Market pricing principle applied to internal contracts

Based on external price references

Sourcing side

TWh



Revenue side

TWh

- Long-term contract
- Market pricing
- Fixed annual pricing adjustments

Mainly Back-to-back



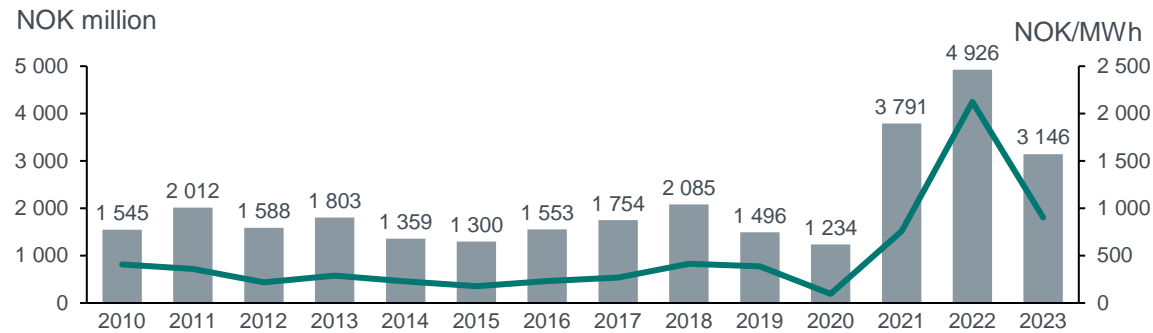
Norway post 2020

1) Depending on the precipitation level, hydropower production may vary from 7 TWh in a dry year to 11 TWh in a wet year
 2) Consumption in AM at current production levels and at full installed capacity
 3) Net spot sales vary depending on the power production level and internal consumption in AM
 4) Depending on status of sourcing

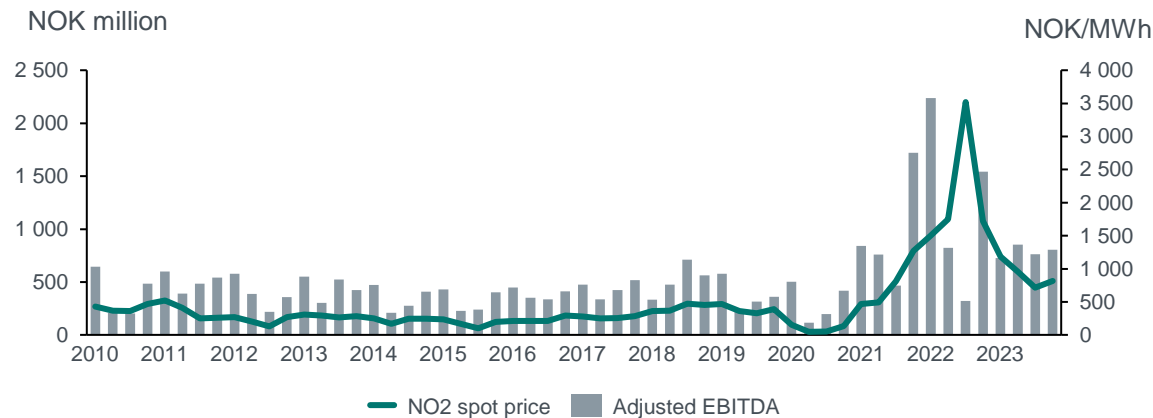
Energy EBITDA development



Adjusted EBITDA and NO2 spot price



Adjusted EBITDA and NO2 spot price



- Production and market prices strongly linked to hydrological conditions
- Seasonal market variations in demand and supply. Gains or losses may occur from delink between area prices arising due to transmission capacity limitations in the Nordic area
- Power portfolio optimized versus market
- Lift in annual EBITDA contribution from 2021
 - Positive impact from expiry of legacy supply contract from 2021
 - 8 TWh internal contract for power sales to Aluminium Metal in Norway effective from 2021-30
- Stable and competitive production cost base:
 - Mainly fixed costs
 - Volume-related transmission costs
- Maturing portfolio growth options; emphasis on flexible production & selected geographies

Norwegian power market surplus in question



Public opposition to onshore wind parks limiting the effect of attractive renewable resources

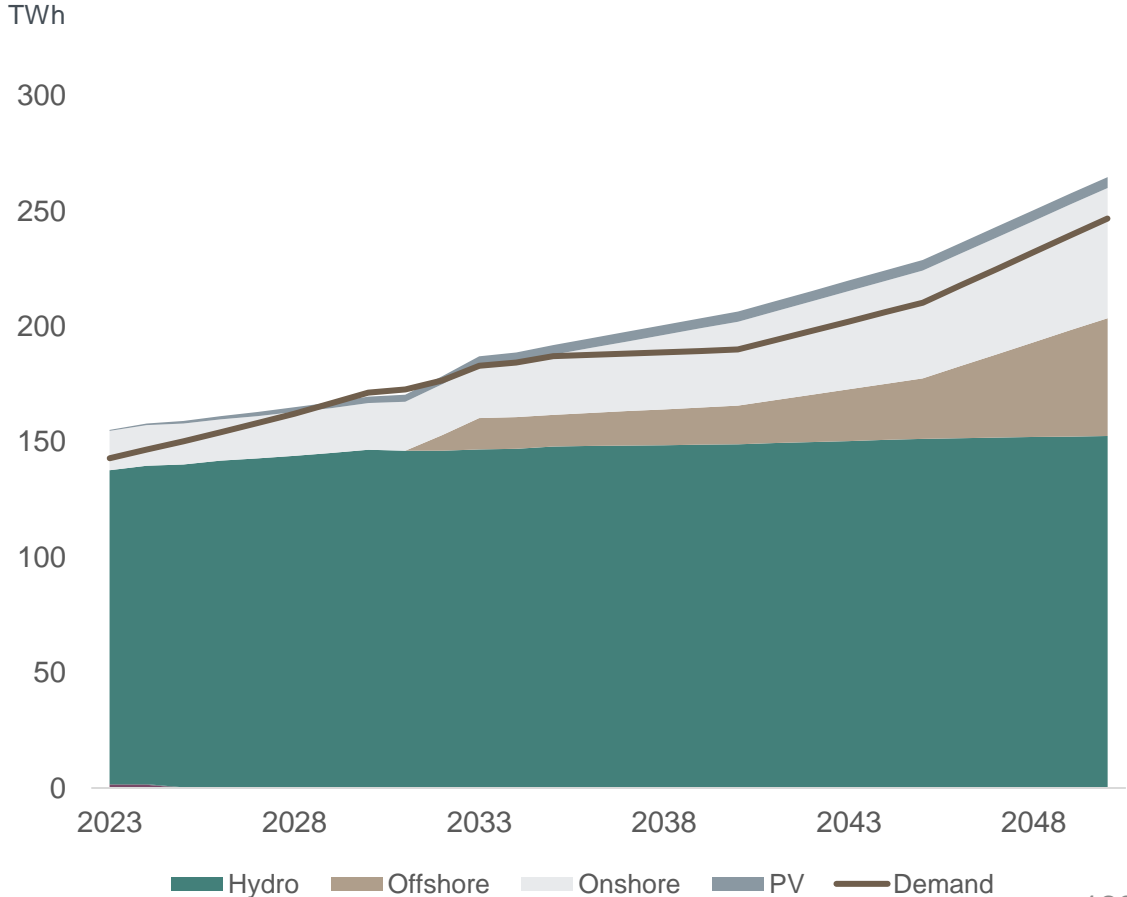
Market uncertainty prevails

Power market balance weakening (short-medium term)

Demand from electrification and new industries outpaces supply in the short end

Lack of certainty regarding timing of new offshore wind areas

Norwegian Power Balance



Source: Hydro

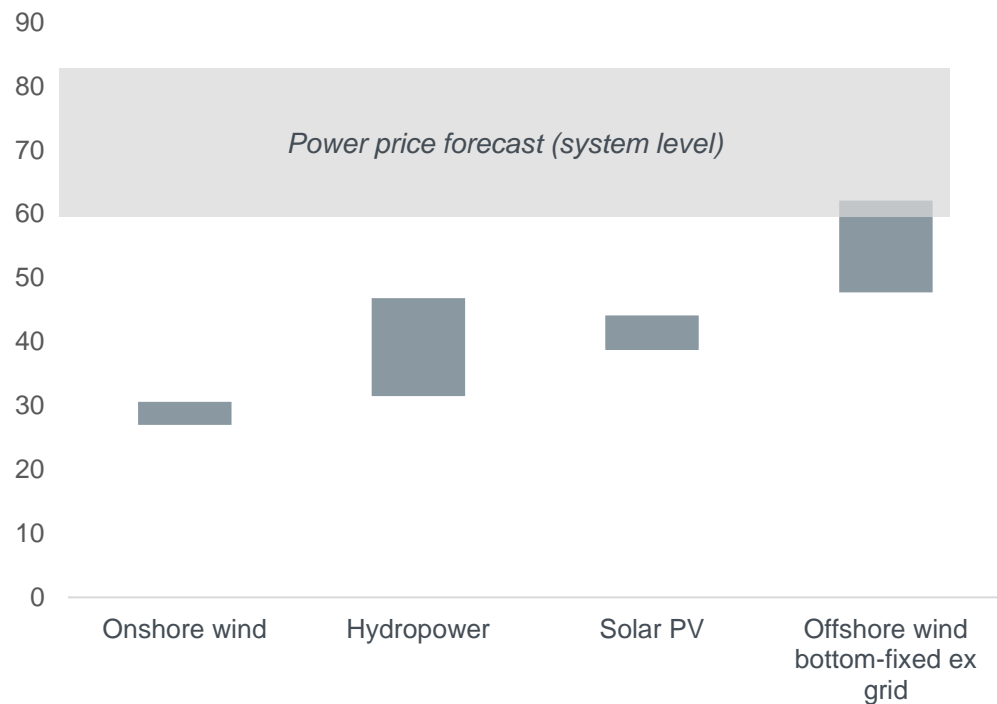
Norwegian power projects remain attractive



Attractive resource base and cost level, and onshore wind is enabler for renewables at low shaping cost

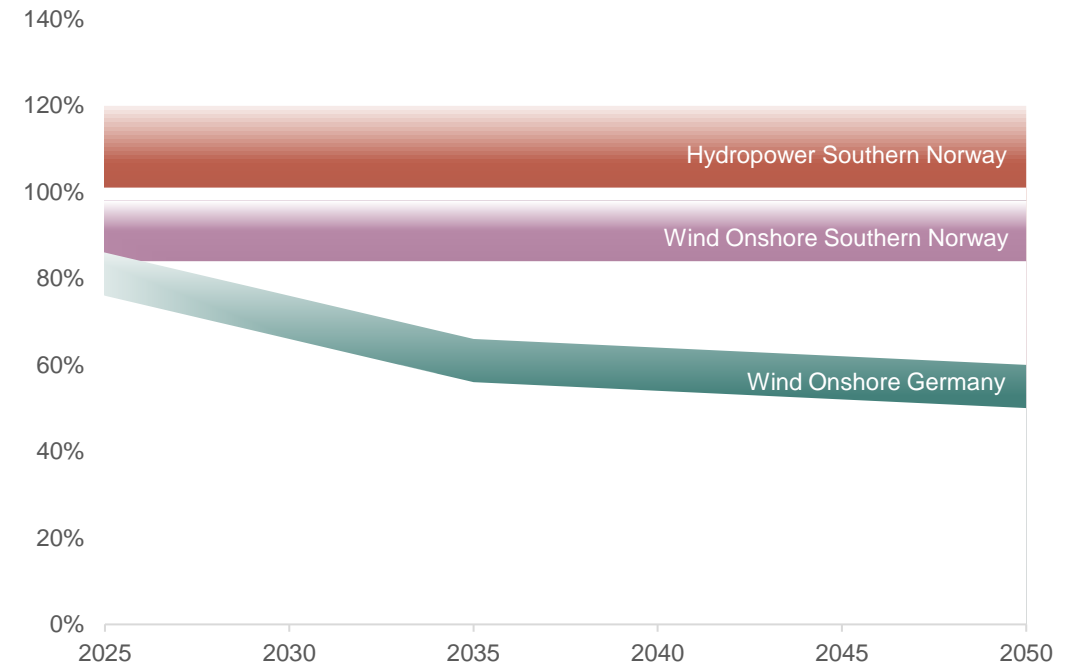
Range of LCOE and Nordic System price to 2030¹⁾

2023 EUR per MWh



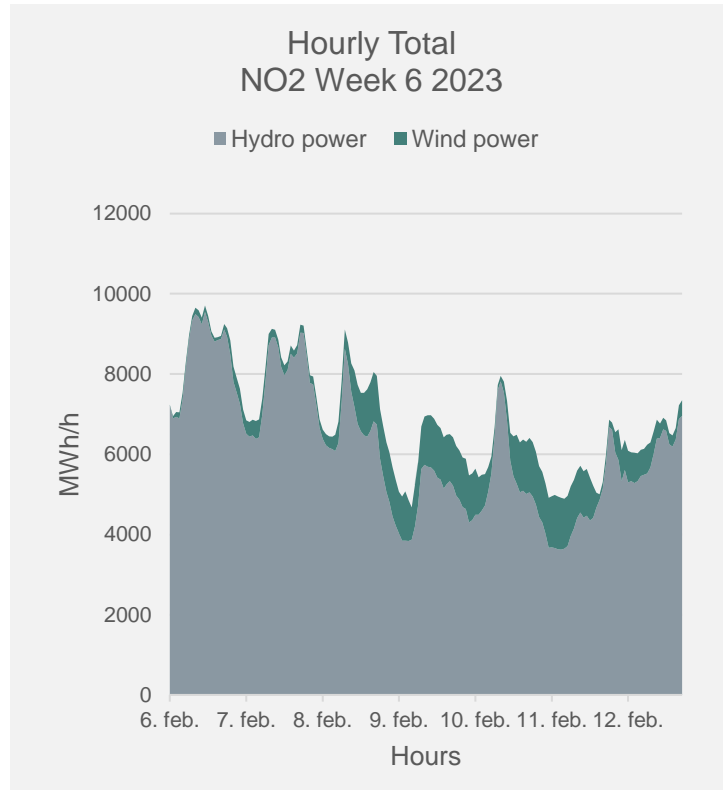
Illustrative Capture rates Southern Norway and Germany

Percentage

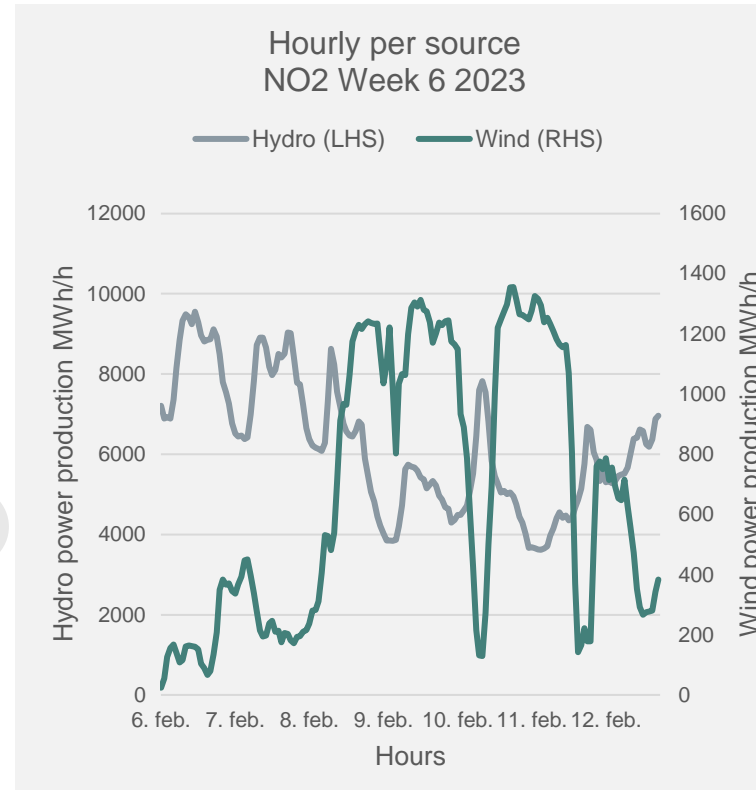


1) LCOE = Income necessary from power as produced to reach profitability for the technology. Estimates from four different consulting companies. Offshore wind not relevant in Norway until post 2030.

Wind and hydropower interplay is key for future system



Share of wind production in NO2 is currently 10-12 %*



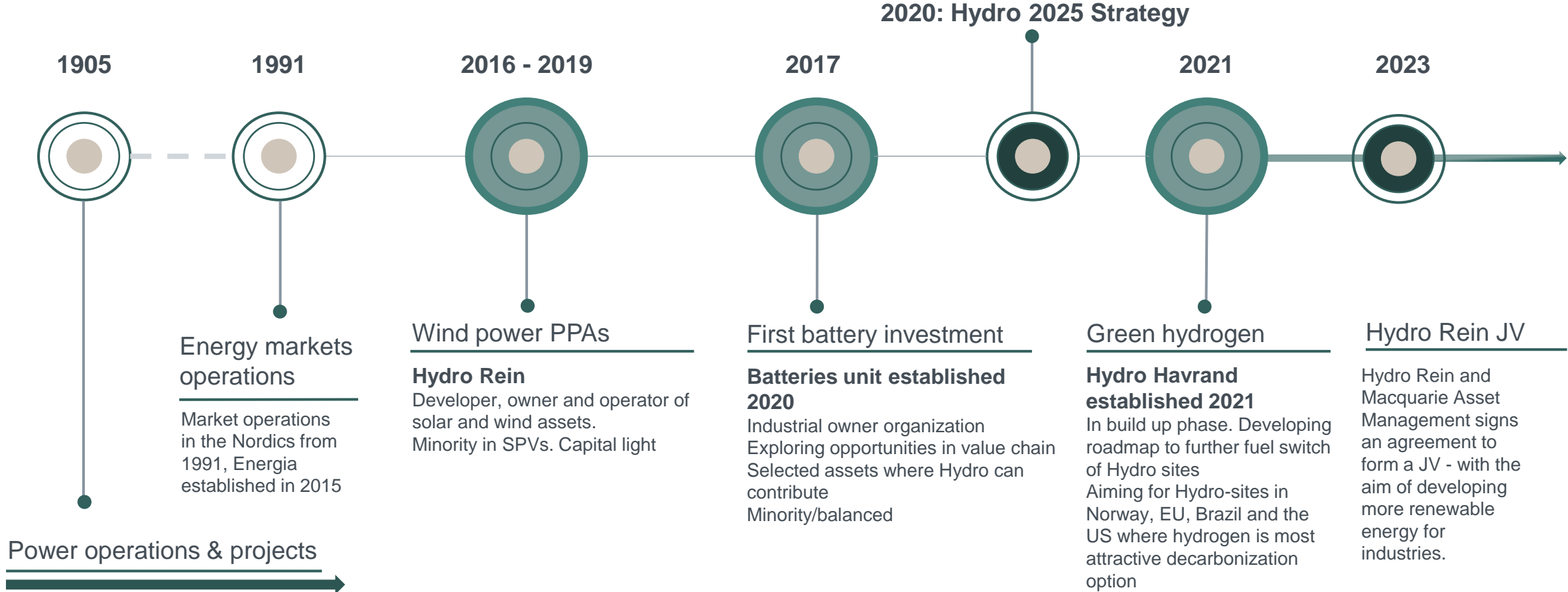
Flexible hydropower production adjusts according to intermittent wind production



Pursuing growth opportunities at different stages



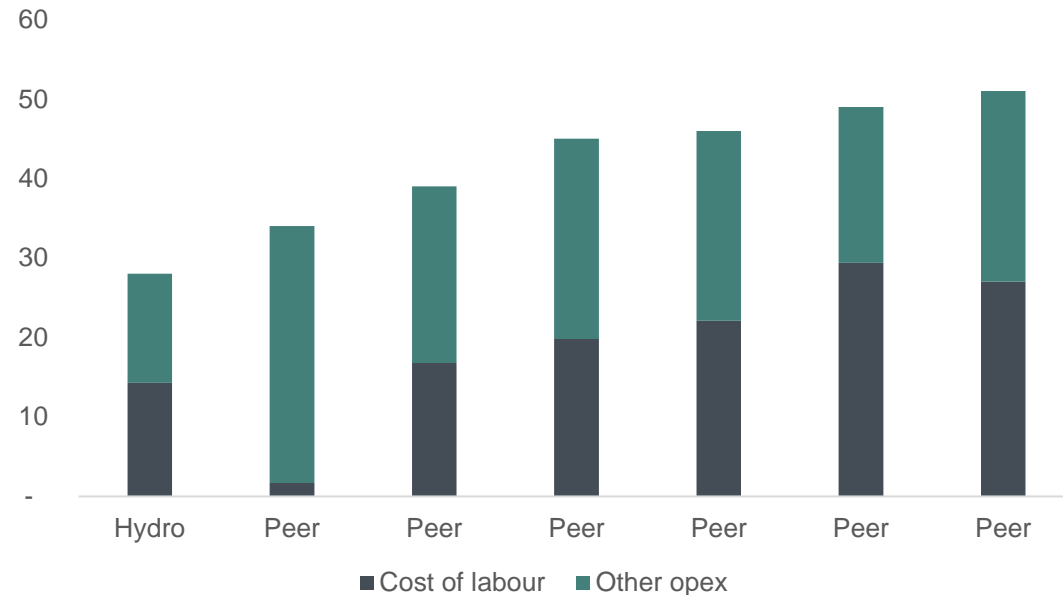
Realizing value potential



Energy: Strong production platform, market performance and growth opportunities

Resource spend Norwegian hydropower players 2022

NOK per MWh



Industry leader on cost and operational performance

Strong platform for value creation

- EBITDA “platform” from operations
 - **8 TWh** on long term contracts (predictable prices)
+ **2 TWh** (average) net long spot volume in merchant market
 - App. **NOK 3.5 billion** LTM adjusted with normal production and no area price gain¹⁾
- Commercial contribution of app. **NOK 400 million** (average last years) comes in addition
- Maturing portfolio growth options; emphasis on flexible production and selected geographies

1) Based on a normal production of 9.4 TWh with a 2021 seasonal profile at last 12 months prices of NOK 1.1 / kWh (NO2)

Energy assets and unique competence drive value creation across Hydro



Strong platform for production, sourcing and advisory



Operations and projects: HSE excellence, operating 40 power plants across Norway (hydropower and wind). Large scale project execution across new units and Hydro



Commercialize positions: PPA originator, from “as produced” to PPA profile, highly competitive sourcing and optimal energy solutions



Market, grid & regulatory insight: Strong market presence and insight, monitoring regulatory initiatives across Norway, the EU and Brazil. Grid and infrastructure development

Decarbonizing Hydro and external industries

Decarbonizing Hydro

- Power sourcing, managing and matching profiles and consumptions
- Hydro Rein offering renewable power and energy solutions
- Hydro Havrand replacing fossil fuels with green hydrogen
- Hydrovolt delivering post consumer aluminium scrap from used EV batteries

Decarbonizing industries

- Investing in renewables in the Nordics, Europe and Brazil and PPAs to external customers
- Battery materials investments focused on reduced CO₂-footprint from LCA¹⁾ perspective
- Green hydrogen to fuel switch industries and transport

Position and capabilities across entire value chain

Major renewable energy producer, market player and offtaker

In Operation

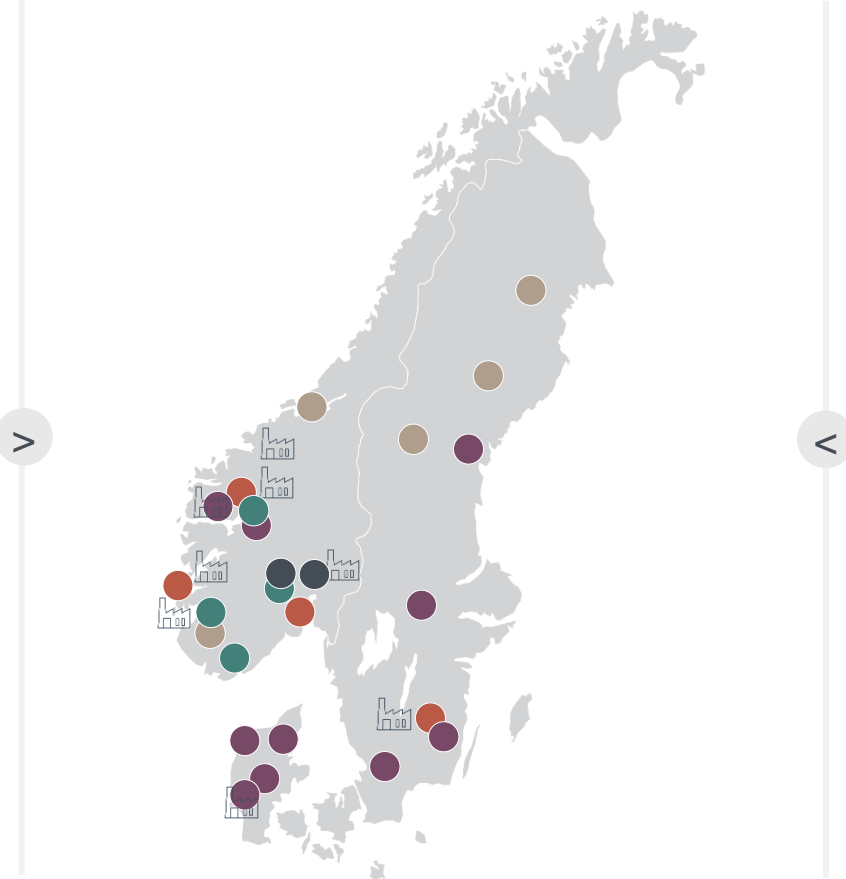
- Hydropower in Norway (equity): 9.4 TWh
- Hydropower in Norway (operator): 13 TWh
- Wind power in Norway (operator): 0.7 TWh

Sourcing

- Hydropower in the Nordics: 6 TWh
- Wind power in the Nordics: 4.2 TWh*

Hydro Rein projects under development

- Wind power in the Nordics: 4.4 TWh
- Solar power in the Nordics: 1.1 TWh



Offtake Aluminium Metal

Norwegian smelters: 17 TWh

Offtake Extrusions

Selected Extrusion plants: 0.1 TWh

Potential offtake Batteries

Potential sites portfolio companies: 1 TWh

Potential offtake green Hydrogen

Hydrogen hubs at selected strategic sites



* Sourcing volumes in 2023/2024 affected by disrupted delivery of volume from a long-term power purchase agreement in the northern part of the Nord Pool area.

Status for Hydro's wind projects in Western Norway



Pursuing opportunities to develop and source power to industry

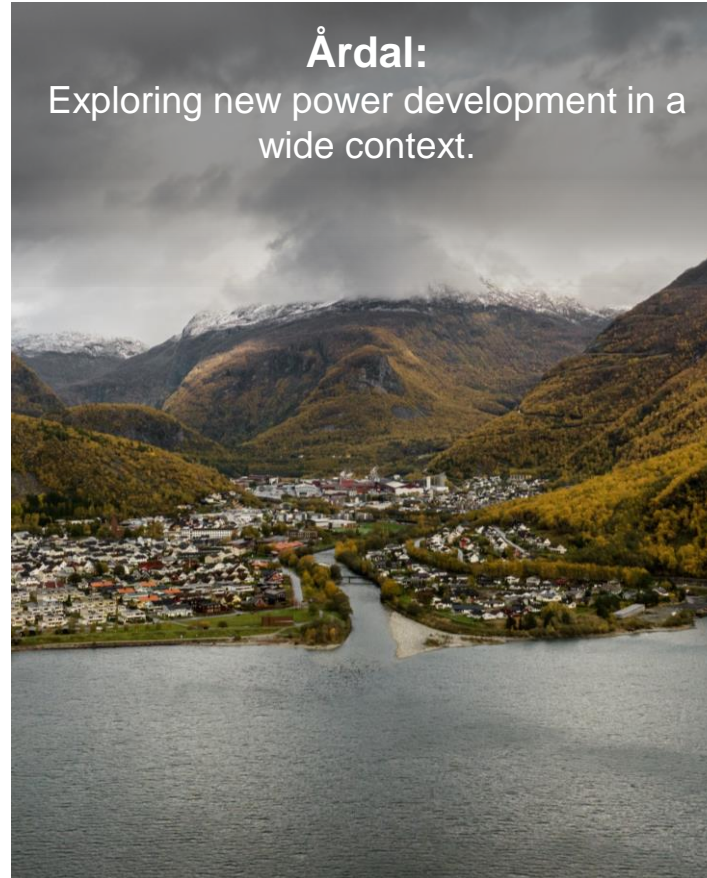
Snøheia:

Project development ongoing.
Proceeding when project is mature.



Årdal:

Exploring new power development in a
wide context.



Other locations:

Actively exploring opportunities for new
power development close to Hydro's
aluminium smelters.



Value creation across the energy space going forward

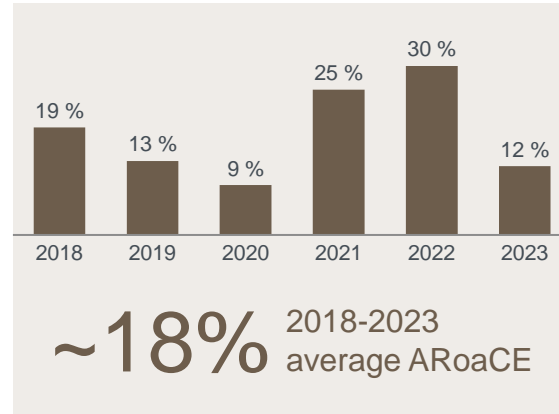
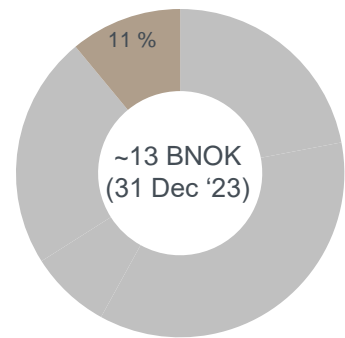
- 1** | High performance and profitability ambitions:
Energy Classic ROACE > 15%
Hydro Rein JV platform annual eIRR 10 – 20 %
Batteries 3x invested capital, 20% TSR average annually
- 2** | Grow value of our Norwegian portfolio through upgrading of existing hydropower plants. Increase commercial ambitions in market operations
- 3** | Develop Hydro Rein to become the preferred supplier of renewable energy solutions to industrial customers in core markets - and a key enabler for decarbonization of Hydro
- 4** | Support Hydro across business areas and geographies with fuel switch solutions including green hydrogen
- 5** | Develop our portfolio of assets delivering more sustainable battery materials, empowering the future of green mobility



Capital return dashboard for Energy

Returns above the cost of capital reflecting the depreciated asset base

Capital employed in Energy

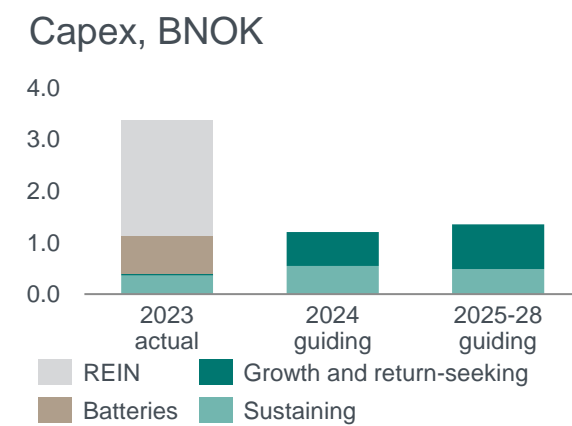


3.1 BNOK
Adjusted EBITDA FY 2023

6-7%
Return requirement

Increase Energy commercial impact from NOK 0.4 billion to NOK 0.7 billion

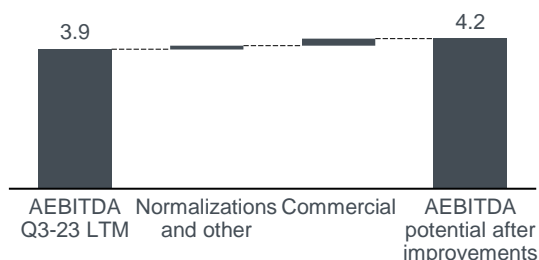
Hydro Rein partnership with Macquarie Asset Management secures USD 300 million capital raise to accelerate and finance project pipeline



Energy profitability growth roadmap

Main drivers – Net spot sales volume and market development

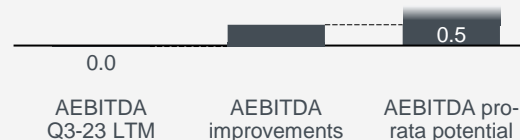
Classic - AEBITDA potential 2030
NOK billion



Classic - Cash flow potential after sustaining CAPEX¹⁾ 2030
NOK billion



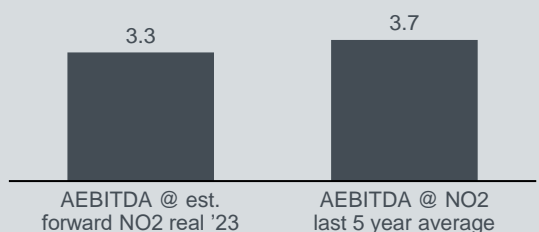
REIN JV – pro-rata AEBITDA potential (Hydro's share)²⁾ 2030
NOK billion



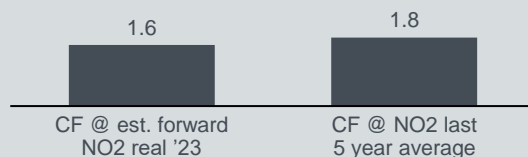
Main further upside drivers

- Additional growth opportunities
- Further commercial and operational improvements
- Positive market and macro developments
- Batteries not included – return target of 3x invested capital

Classic - Market scenarios 2030



Classic - Market scenarios 2030



REIN JV – Accounting treatment

- REIN JV will be booked as an equity accounted investment after transaction
- This means the Hydro share of net income will be included as part of the Energy AEBITDA

Main downside risks

- Negative market and macro developments
- Regulatory and framework conditions, incl. tax
- New project execution

Note: Classic excluding growth from new energy areas

1) Cash flow calculated as EBITDA + tax + long-term sustaining CAPEX

2) EBITDA from assets. S&GA at JV-level not included

Assumptions and sources behind the scenarios can be found in Additional information

Hydro Rein's journey: Fast-tracking portfolio development



CUSTOMERS

5.3 TWh p.a.¹⁾
signed under long-term
EUR & USD PPAs

4.4bn¹⁾
USD contracted
revenues



PORTFOLIO

2.6 GW¹⁾ gross capacity
in construction & secured

41²⁾ total # of renewable projects
in portfolio

7.5 GW²⁾ gross capacity
in portfolio

30 total # of sites in scope for
Energy Solutions pipeline



PEOPLE

~90³⁾
Hydro Rein FTEs

2
Main hubs: Oslo and Rio de
Janeiro



CAPITALIZATION

JV with Macquarie
Asset Management
signed in October

Valuation: USD 333
million

Status as of January 2024

- 1) Including Vista Alegre.
- 2) Total portfolio incl. wind projects in Western Norway
- 3) Including new contracted employees not yet started

Portfolio overview: Renewable energy projects in the Nordics and Brazil



	Project	Country	Price area	Technology	# Projects	Ownership (%)	Partner(s)	Gross capacity (MW)	Production (GWh)	FID	COD
UNDER CONSTRUCTION	Stor-Skälsjön		SE2		1	25%		260	807	2021	2024
	Ventos de São Zacarias		Northeast		1	49.9%		456	1,957	2022	2024
	Mendubim		Northeast		1	33.3%		531	1,227	2022	2024
	Boa Sorte		Southeast		1	30%		438	964	2022	2024
SECURED	Vista Alegre ²		Southeast		1	30%		902	2,102	2024	2025
PIPELINE ¹	Geisli Energi		NO1/NO2		Up to 16	49.9%		Up to 655	730	2027+	2028+
	Snøheia		NO3		1	35% ³		300	1,000	TBD	TBD
	Årdal		NO5	TBD	1	TBD		TBD	TBD	TBD	TBD
	SE3/SE4 portfolio		SE3/SE4		9	50%		672	2,000	2028-29	2030-31
	S140 & S148 (Kalmar & Skåne län)		SE4		2	100%	N/A	118	143	2027	2028
	M36 & M108 (Jylland)		DK1		2	50%		362	412	2025-27	2027-28
	M93A (Tønder)		DK1		1	100%	N/A	114	145	2025	2027
	M98 (Randers)		DK1		1	100%	N/A	296	374	2026	2027
Fótons de Santa Conceição		Northeast		1	49.9%		133	290	2024	2026	

Notes: (1) Excludes Irupé project, an early stage floating solar PV project in Brazil with up to 2 GW potential (2) Rein has secured an option to enter the project (3) Owned 100% through Hydro Energi, development services by Hydro Rein



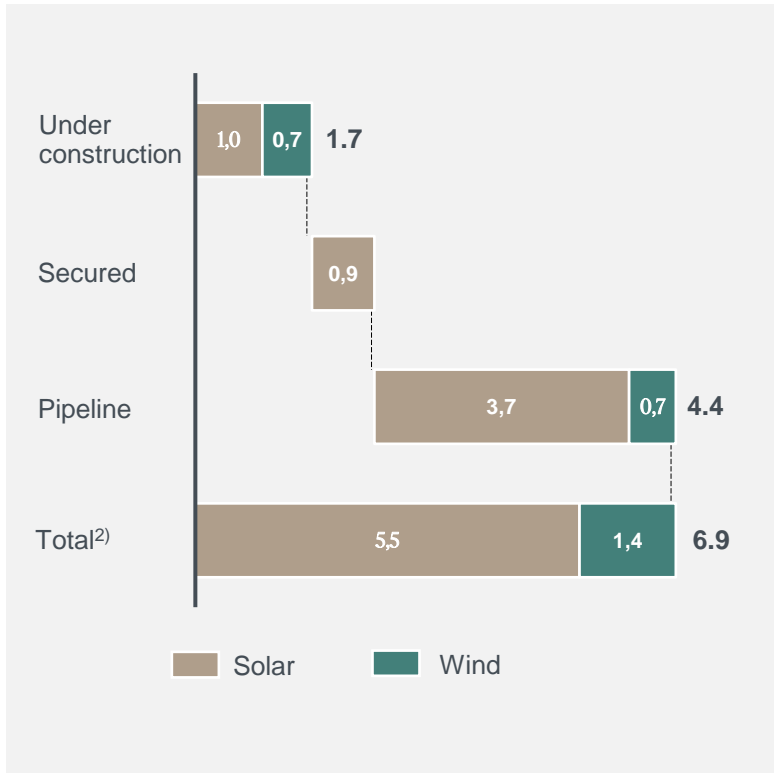
Current portfolio adds 2.4 TWh to REIN's captive power¹⁾



1.7 GW gross, approximately USD 1.8 billion gross

Renewable energy

Gross GW



Status as of January 2024

1) Projects in construction and secured.
 2) Total portfolio within JV scope, including Irupé.
 3) Hydro Rein's ownership before farmdown to offtakers

Projects under construction

Project Name	Ownership Share	Turbines	Capacity (MW)	Energy (GWh)	COD
Stor-Skälsjön	25%	42	260	802	Q1 2024
Ventos de São Zacarias	49.9% ³⁾	80	456	1900	Q4 2024
Mendubim	33.3% ³⁾	~1 million modules	530	1200	Q2 2024
Boa Sorte	33.3% ³⁾	775,220 modules	438	996	Q2 2024

Hydro Rein on track to becoming preferred supplier of renewable energy solutions to industrials



2026 Targets communicated at Hydro’s Capital Markets Day 2022

<p>3 GW Gross portfolio in operation and construction</p>	<p>>500 MW added gross capacity to pipeline on average annually</p>	<p>400-450 MNOK¹⁾ Estimated EBITDA contribution from projects in construction</p>
--	---	---

Key numbers¹⁾: portfolio under construction – as of Q3 2023

<p>1.7 GW Gross portfolio in operation and construction</p>	<p>~3 BNOK Estimated pro-rata Equity Capex (net of agreed farm-downs)</p>	<p>~410 MNOK Estimated pro-rata EBITDA²⁾ from projects in construction</p>
<p>1.5 GW Gross capacity added to the pipeline in 2023YTD</p>		

2030 vision of continued profitable growth

- Sustainable & attractive risk-adjusted returns**
10-20% platform eIRR
- Balanced portfolio**
Between geographies and technologies
- Services and capabilities**
Covering the full value chain, capturing developer margin
- Regional leadership**
REIN being one of the leading players in core geographies

1) All financial figures in MNOK has been converted by using fixed FX of 9.7 in EUR/NOK and USD/NOK
2) 10-year run rate EBITDA (nominal average 2026-35)



Multiple value levers to create attractive returns



Value levers at project and platform level

Key value levers

Comments and selected examples

Key value levers	Comments and selected examples
Project equity IRR 	Base stand alone project equity IRR
Structuring	Optimize capital structure (including refinancing), extend PPA
Operational excellence	Optimize cost base (capex/opex), improve productivity, extend asset lifetime
Hydro Rein Services	Cross-sale of services such as construction project management, asset and energy management
Farm downs	Crystalize value through partial sell-down
Platform value	Pipeline growth, economies of scale, industrialization & best practice sharing
Platform equity IRR 	Total IRR potential at platform level

Hydro Rein with access to several **value creation levers** at **asset level** to boost project returns

Further, material return potential at **Platform Level** that is not captured at individual asset level

Total return potential REIN JV platform level: **10 - 20% IRR**

Empowering the future of green mobility



Progress in the sustainable battery materials portfolio throughout 2023

STRATEGIC TARGETS

3x

Value uplift in 2030 on equity invested by 2027

GROWTH ASSETS

hydrovolt

Circular solutions 50% ownership

- Fully operational and reached nameplate capacity during Q3.
- Commenced building industrial pilot for battery pack dismantling and discharge.

Part of Hydro MoU with Porsche on EV-recycling



Vianode

Anode materials 30% ownership

- First plant under construction at Herøya, which will support customer qualification.
- Signed lease agreement for large-scale plant at Frier Vest, Norway.

Awarded 90 MEUR grant from EU Innovation Fund.



E-MAGY

Anode materials

- Ramping up pilot production
- Strengthening organization on strategic positions

Maturing the customer qualification process in the consumer electronics and automotive



Lithium de France
GEOTHERMAL

Lithium 12% ownership

- Secured 2 exploration permits in Alsace region and target to start drilling operations in 2024.

Signed a 5-year off take agreement with Renault.

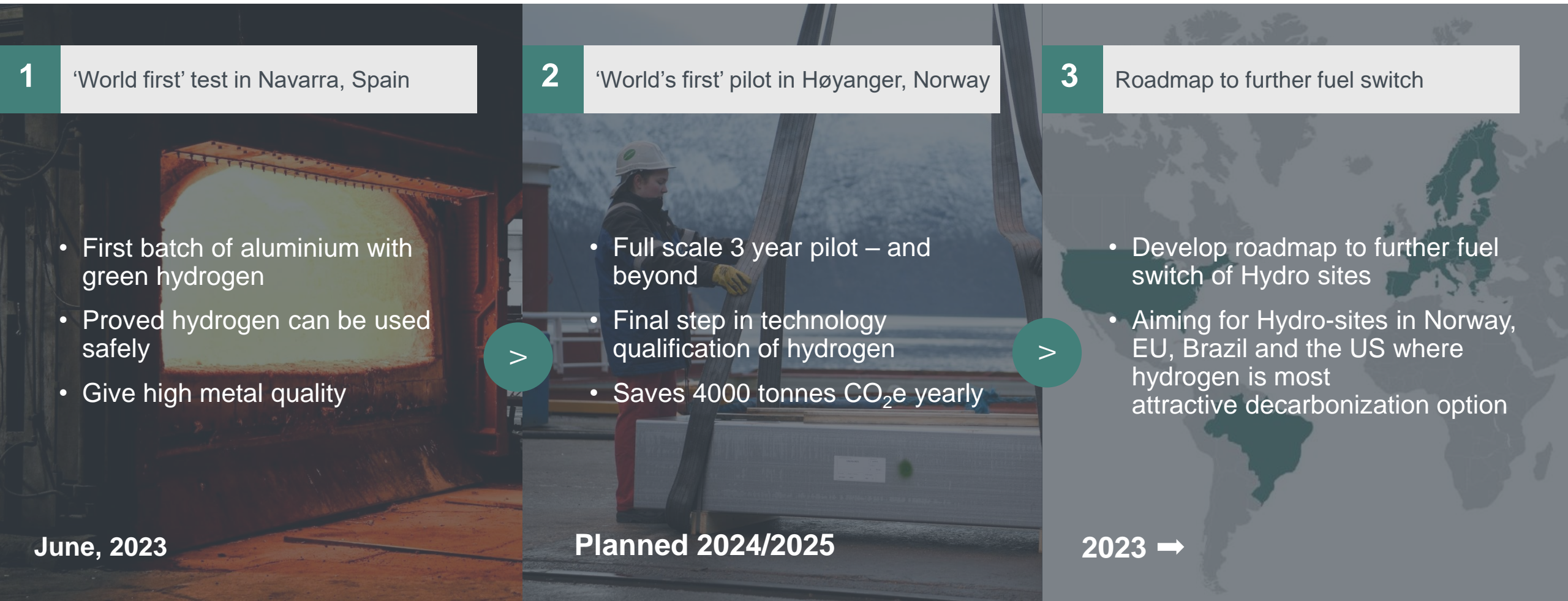


PORTFOLIO HOLDINGS

Corvus 
24 % owner share

northvolt
0.6% owner share

Hydro Havrand: World's first aluminium made with green hydrogen



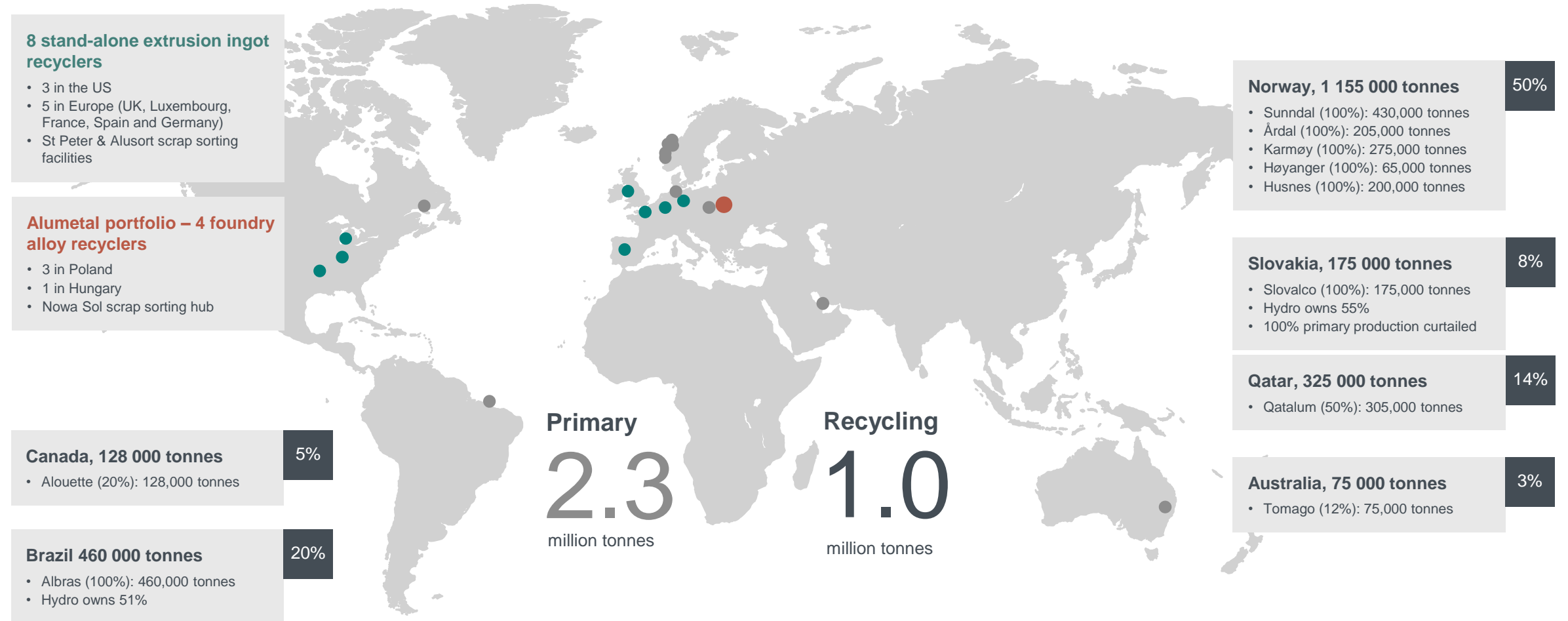


Aluminium Metal

Global production network



Primary production and recycling

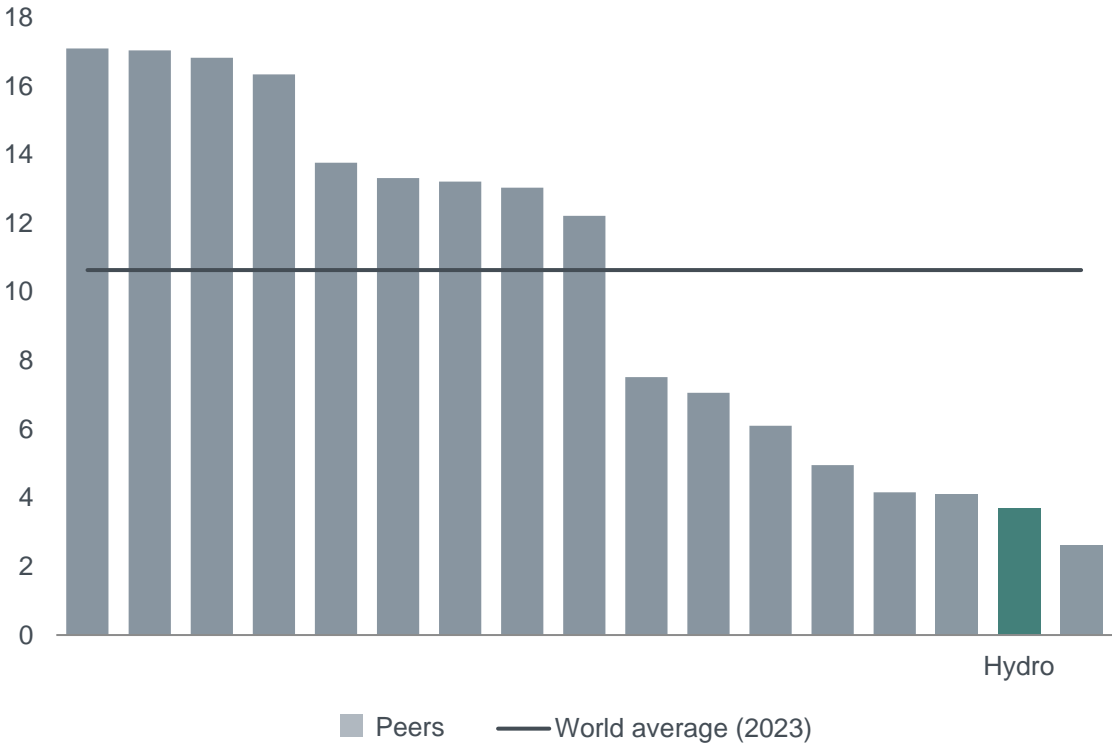


2.3 million mt is consolidated electrolysis capacity, Slovalco and Albras are fully consolidated, Tomago and Alouette are proportionally consolidated and Qatalum is equity accounted. Slovalco based on primary capacity, not production (currently 100% primary production curtailed and lower remelt). 1.0 million mt includes 0.7 mill mt in stand-alone extrusion ingot recyclers and 0.3 mill mt in Alumetal, excluding additional remelt capacity in Primary casthouses.

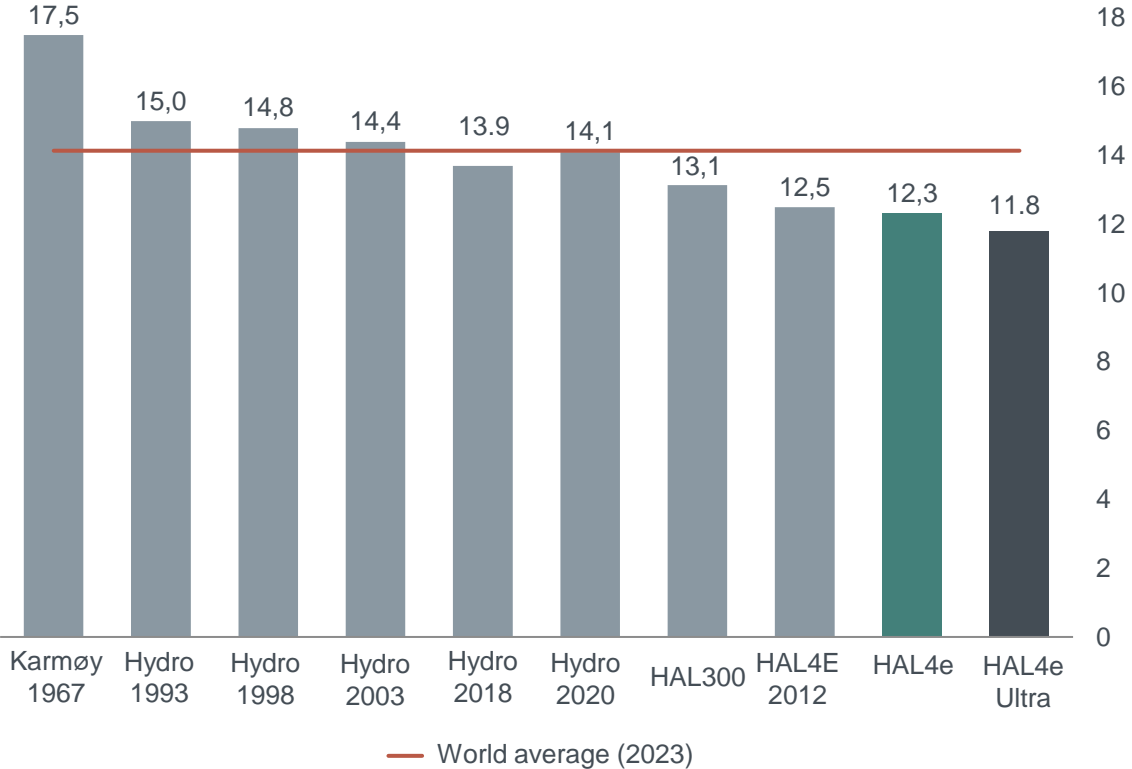
Low-carbon footprint due to renewable energy base and industry lowest energy consumption



Total emissions, in tonne CO₂/t al



Energy consumption in Hydro smelters¹⁾, kwh/kg al

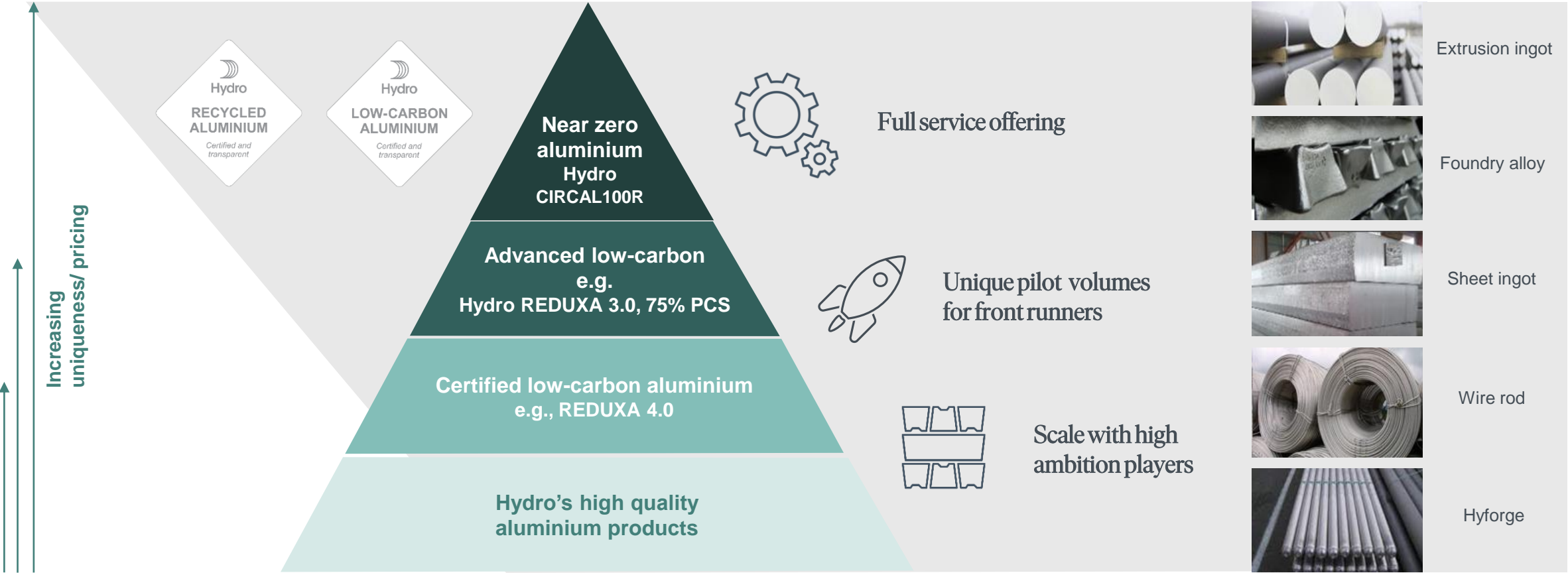


Source: CRU and Hydro analysis
 1) Hydro's consolidated share

Hydro has a unique value proposition in aluminium



Going to market with a combined offering of primary and recycled aluminium with a full product spectrum and with tailor-made alloys is unique to AM



Competitive primary aluminium cash cost

- Primary aluminium cash cost 2023
 - All-in implied primary aluminium cash cost^{1,2)} USD 2 225 per mt
 - LME implied primary aluminium cash cost^{1,3)} USD 1 750 per mt
- Alumina
 - Purchases based on alumina index ~93%
 - Purchased based on LME link ~7% (only for Qatalum)
- Power
 - Long-term contracts
 - 3/4 of power need from renewable power
 - Contracts with a mix of indexations; inflation, LME, coal, fixed
- Carbon
 - Majority of contracts are based on 1-2 years, quarterly pricing
- Fixed costs
 - Maintenance, labor, services and other
- Other
 - Other direct costs and relining

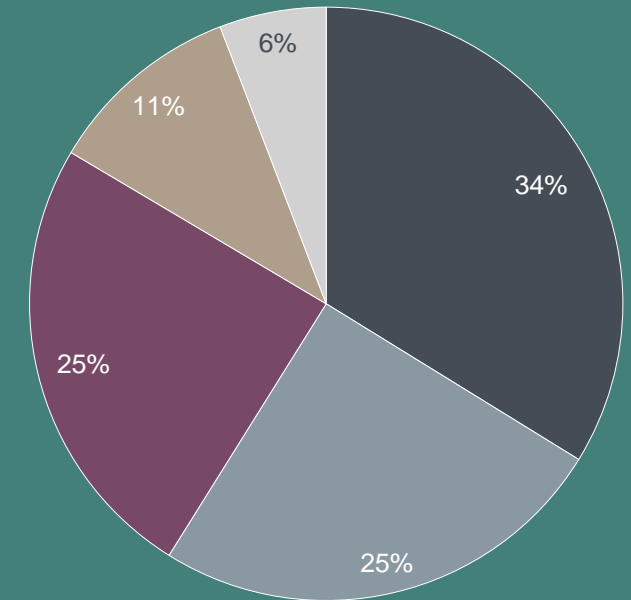
1) Adjusted EBITDA margin excluding power sales Slovalco, Albras and Norwegian smelter

2) Realized LME aluminium price (incl.strategic hedges) plus premiums minus adjusted EBITDA margin, including Qatalum, per mt primary aluminium sold

3) Realized LME aluminium price (incl.strategic hedges) minus adjusted EBITDA margin, including Qatalum, per mt primary aluminium produced

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

Liquid aluminium cash cost 2023³⁾



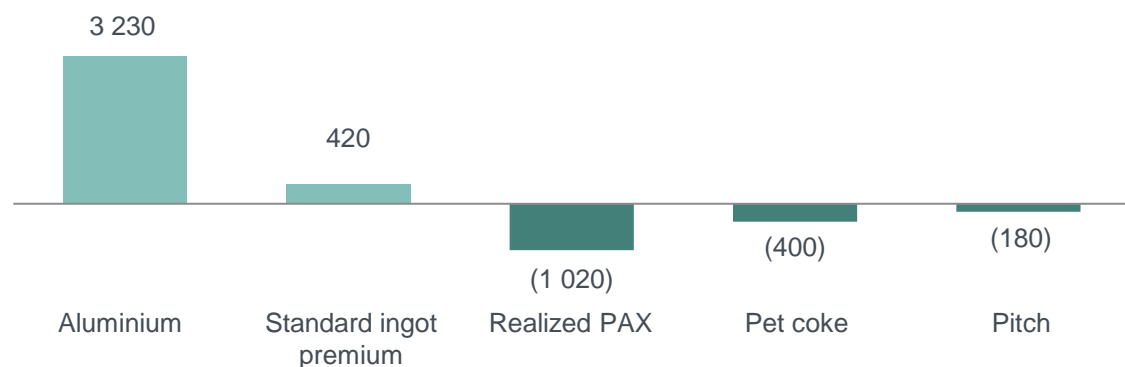
■ Alumina ■ Power ■ Carbon ■ Fixed cost ■ Other

Aluminium Metal sensitivities



Annual sensitivities on adjusted EBITDA if +10% in price

NOK million



Currency sensitivities +10%

NOK million	USD	BRL	EUR
AEBITDA	2,990	(290)	(640)

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
- ~ 2-3 months lag
- Mainly priced on Platts index

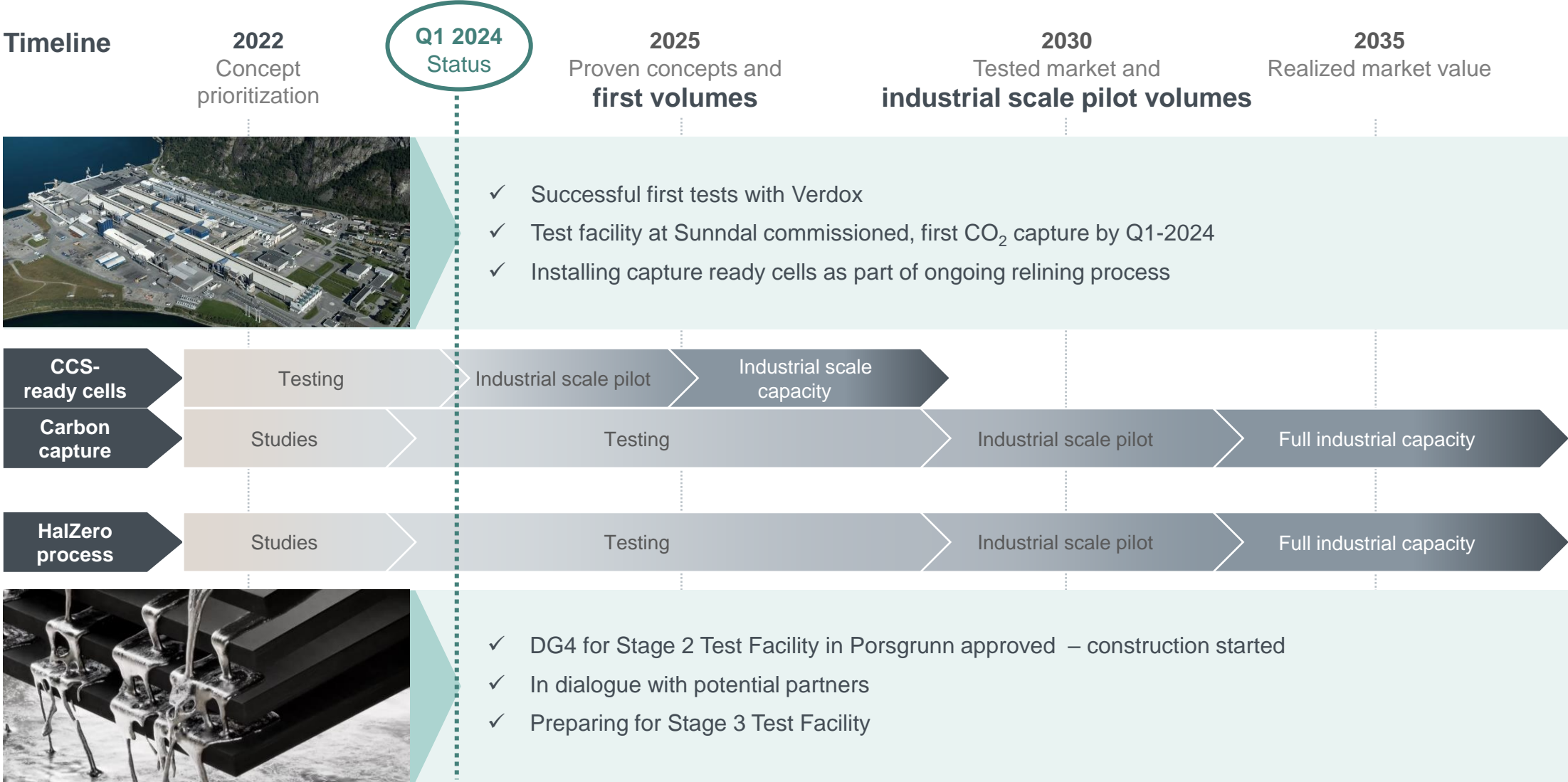
Carbon

- ~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

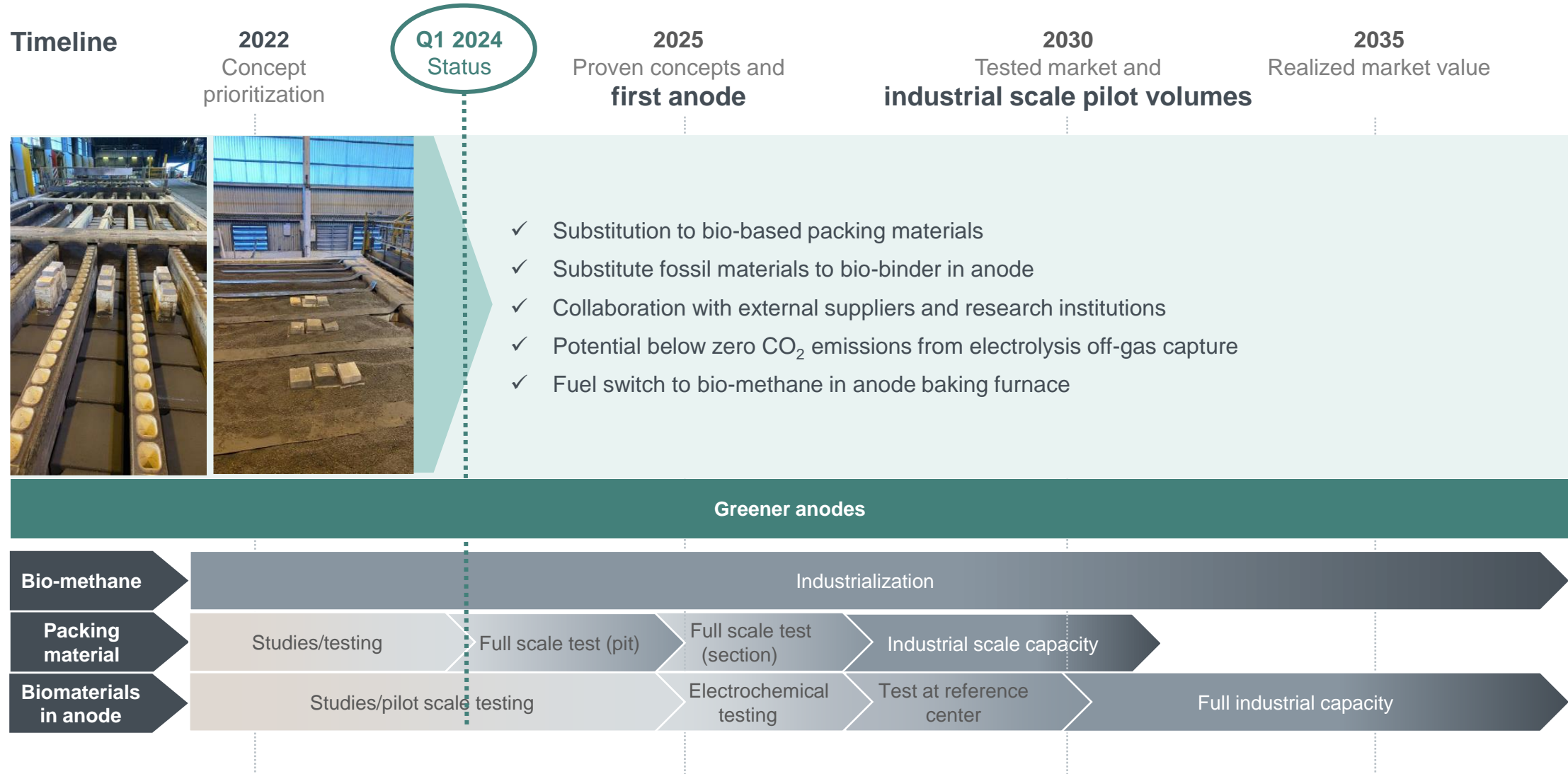
Power

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

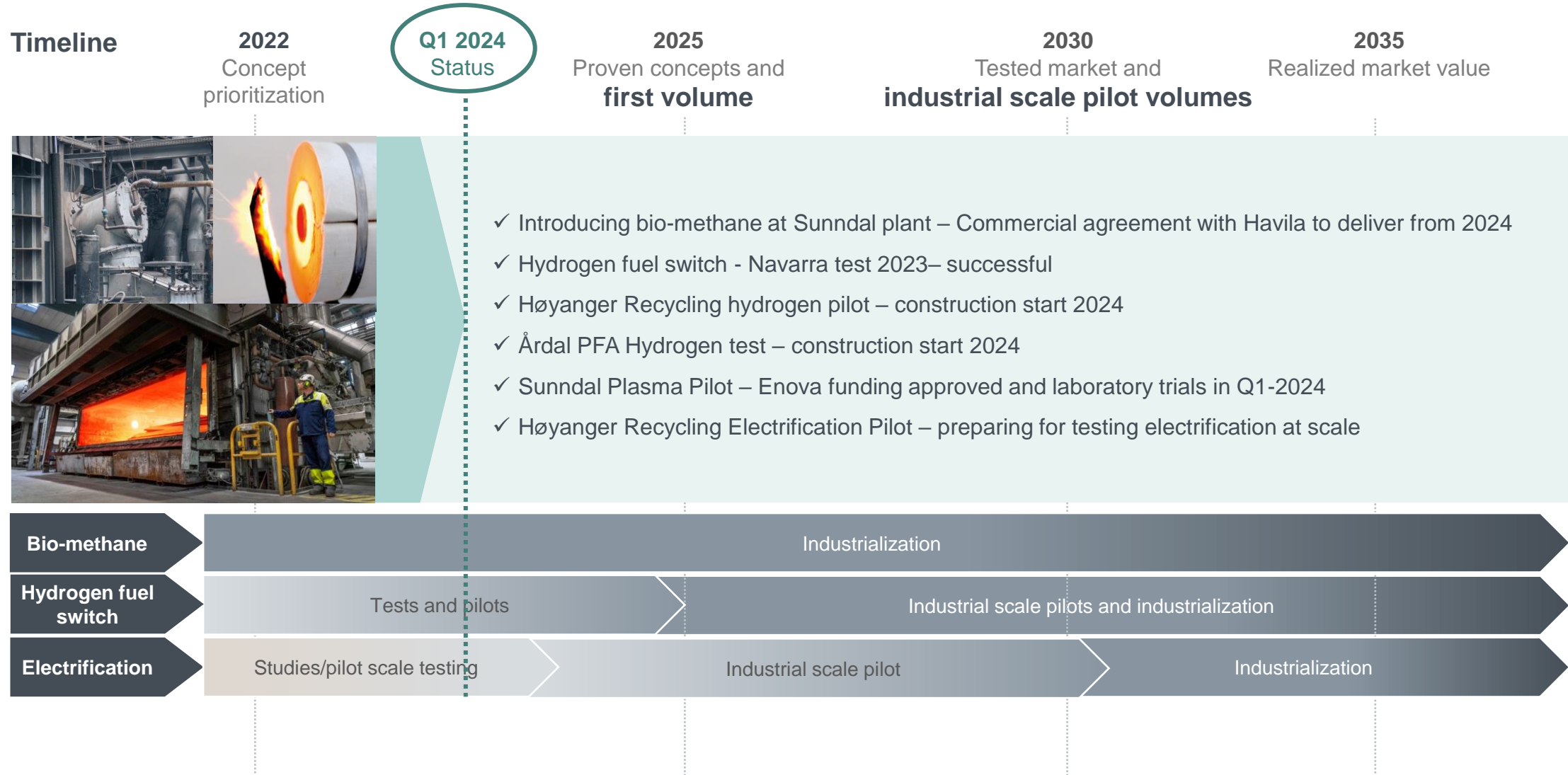
Preparing for first CO₂ capture and HalZero testing at scale



Biomaterials to reach zero and below



Bio-methane, hydrogen and direct electrification

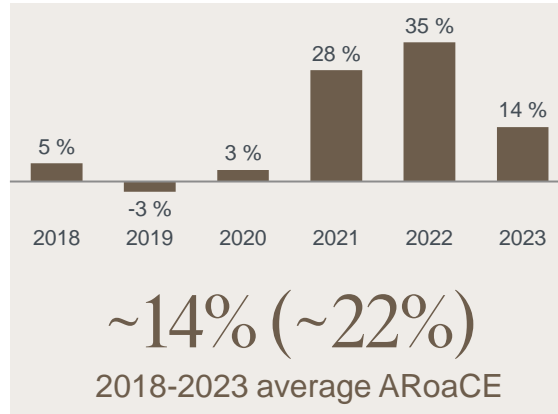
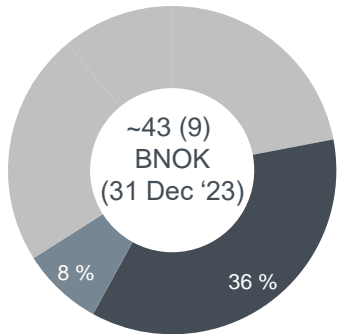


Capital return dashboard for Aluminium Metal & Metal Markets



Investments in recycling capacity to support growth

Capital employed in AM (MM)



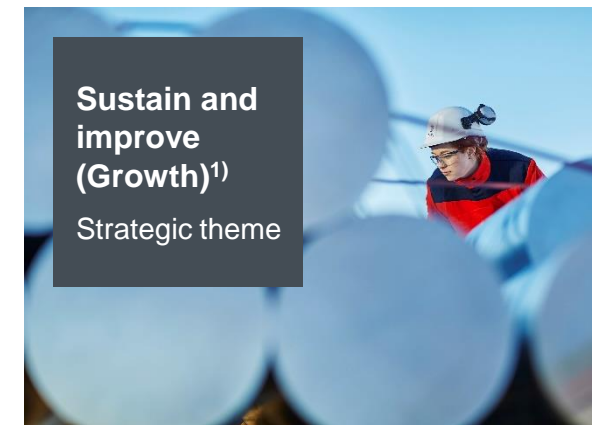
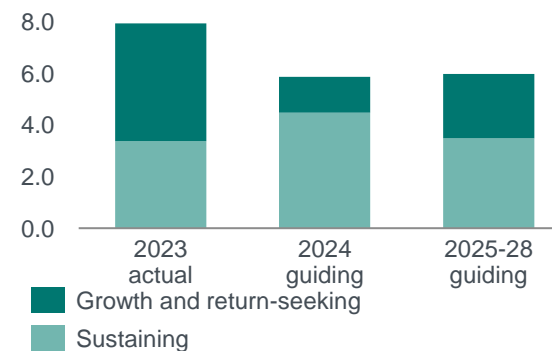
10.5 (1.5) BNOK
Adjusted EBITDA FY 2023

10%-11%
(7-8%)
Return requirement

1.5 + 0.2
BNOK
2024-2030 incremental EBITDA from improvement potential and commercial ambitions

Investments in recycling capacity to support growth

Capex, BNOK



1) Strategic theme for Recycling is growth

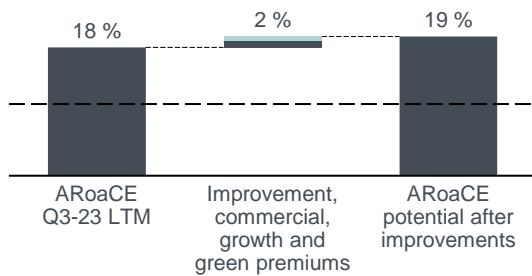
Aluminium Metal and Metal Markets profitability growth roadmap



Main drivers – improvement efforts, commercial differentiation and market development

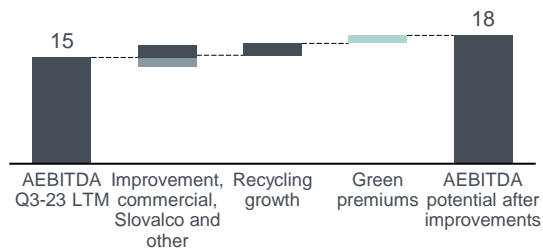
ARoaCE potential 2030

Profitability target of >10% (>8%)



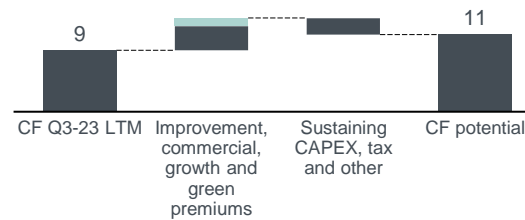
AEBITDA potential 2030

NOK billion

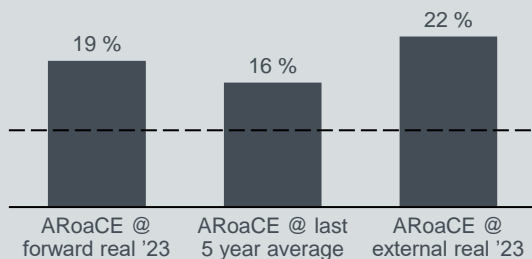


Cash flow potential after sustaining CAPEX¹⁾ 2030

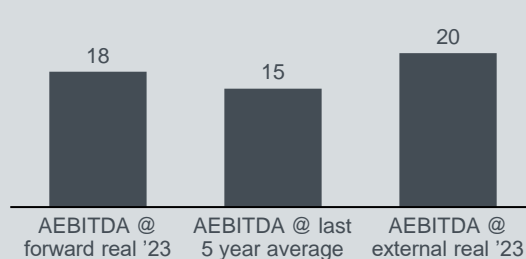
NOK billion



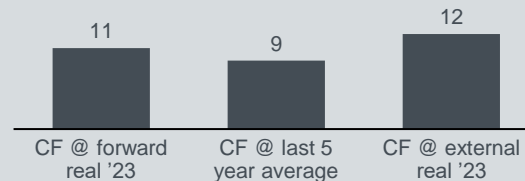
Market scenarios 2030



Market scenarios 2030



Market scenarios 2030



Main further upside drivers

- Positive market and macro developments
- Commercial differentiation, incl. greener brands
- Further recycling growth opportunities
- Portfolio optimization
- Further potential in automation, process control and efficiency, operational excellence

Main downside risks

- Negative market and macro developments, incl. trade restrictions
- Deteriorating relative cost and market positions
- Operational disruptions
- Supply chain disruptions
- Regulatory and country risks, incl. tax

1) Cash flow calculated as EBITDA + tax + long-term sustaining CAPEX

Assumptions and sources behind the scenarios can be found in Additional information

Sources: External scenario is based on CRU price and premium assumptions and S&P Global FX assumptions, with adjustments as specified in the footnotes

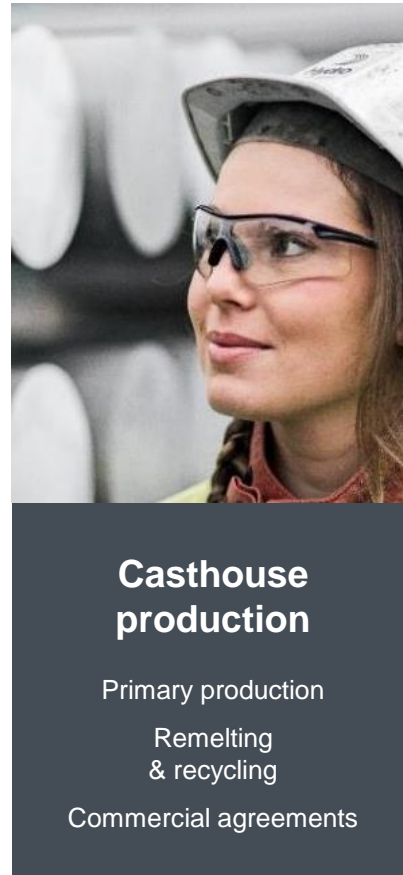


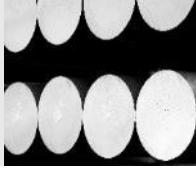



Metal Markets

Strong position in value-added casthouse products

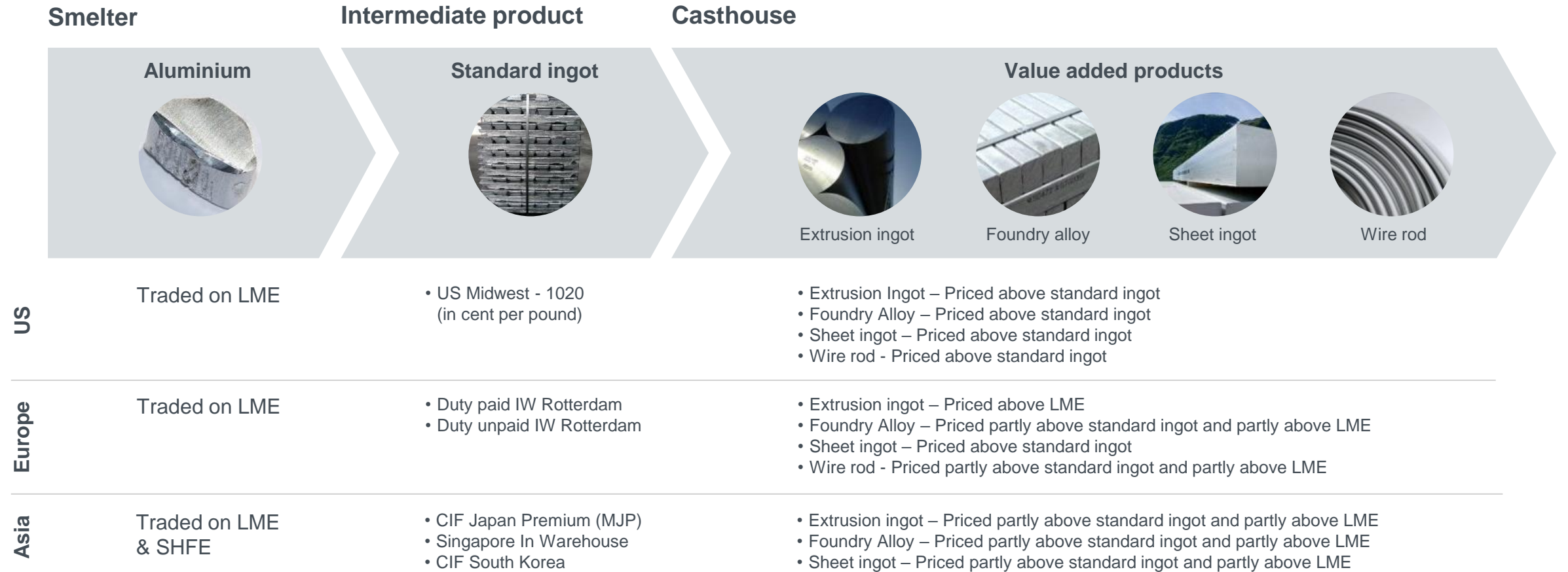


- Capitalizing on value-added casthouse products portfolio
- Extensive multi-sourcing system including fully- and part-owned primary casthouses and stand-alone remelters
- Flexible sourcing system enabling rapid and cost effective volume adjustments
- Value creation from margin management based on commercial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



<p>Extrusion ingot</p> <p>1.6 million mt</p>		<p>Leading global position</p> <p>Unique primary and recycling capacity network</p>
<p>Foundry alloys</p> <p>0.6 million mt</p>		<p>Leading global position</p> <p>Strong capabilities in all automotive segments</p>
<p>Sheet ingot</p> <p>0.3 million mt</p>		<p>Leading European position</p> <p>Well positioned to capture automotive growth</p>
<p>Wire rod</p> <p>0.1 million mt</p>		<p>Leading European position</p> <p>Market attractively supported by copper substitution</p>
<p>Standard ingot</p> <p>0.3 million mt</p>		<p>Leading global position</p> <p>Global flow optimization through key positions</p>

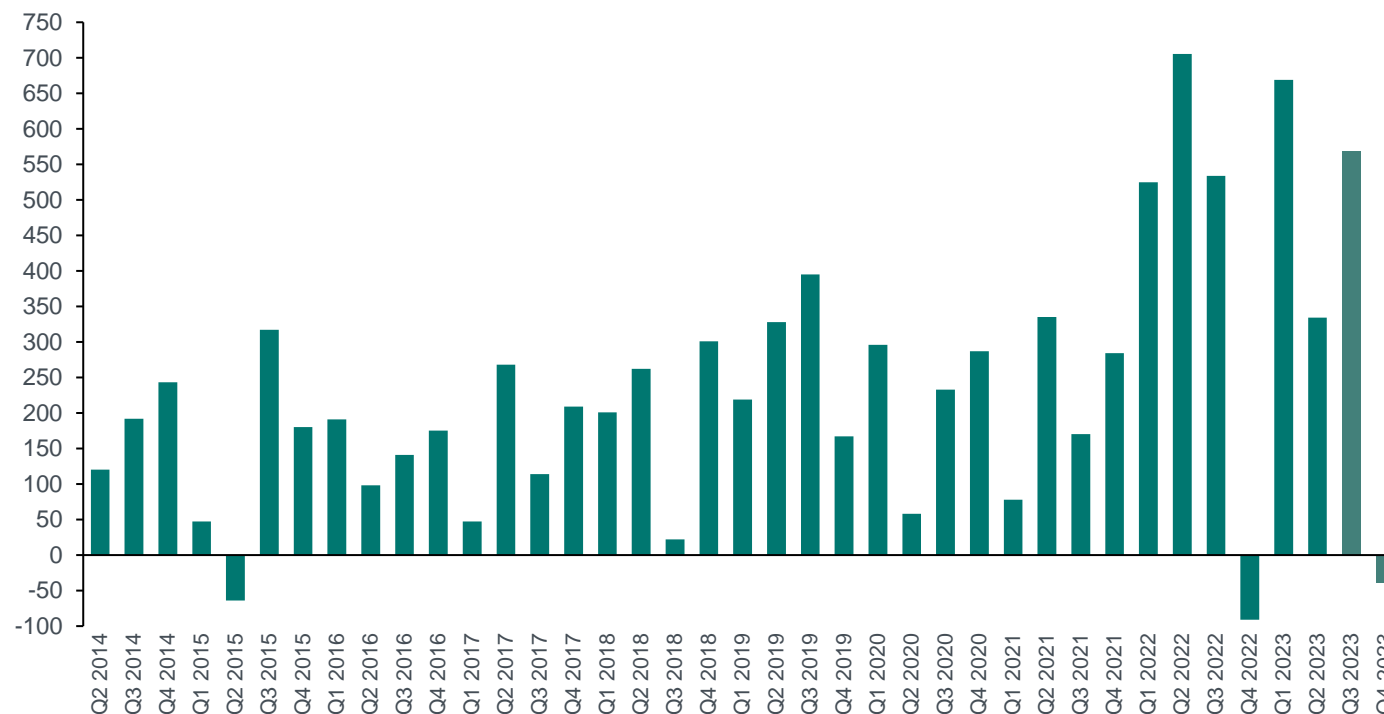
Pricing of value-added products



Metal Markets earnings drivers

- Recyclers
 - Revenue impact – volume, LME and product premiums
 - 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 ingot and LME trading
 - Third-party casthouse products
- Results influenced by currency fluctuations and inventory valuation effects
- Adjusted EBITDA for Commercial excl. currency and inventory valuation effects for 2024 expected in the range of 250MNOK to 400MNOK

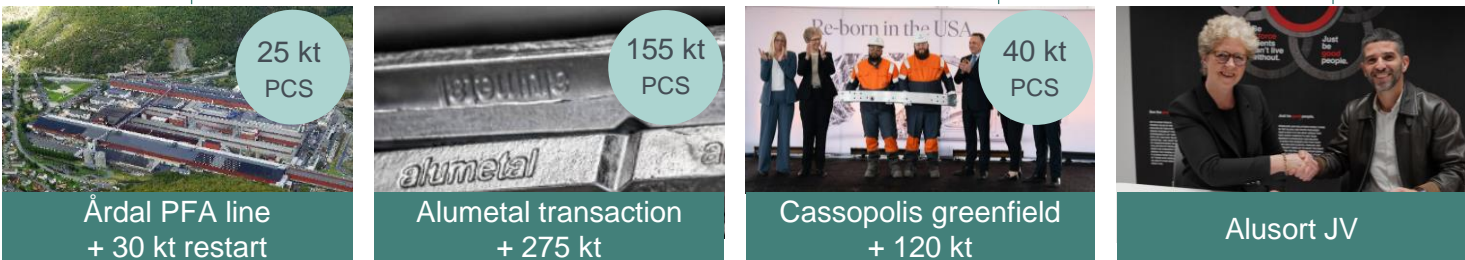
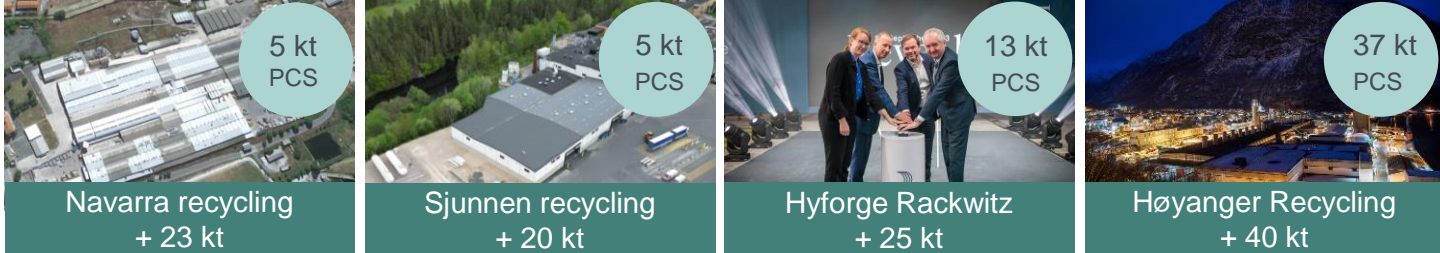
Adjusted EBITDA excluding currency effects and inventory valuation effect, NOK million¹⁾



1) Amounts are as disclosed for the individual years reflecting the accounting policies applied for those years and Hydro's definition of APMs applied for the relevant years.

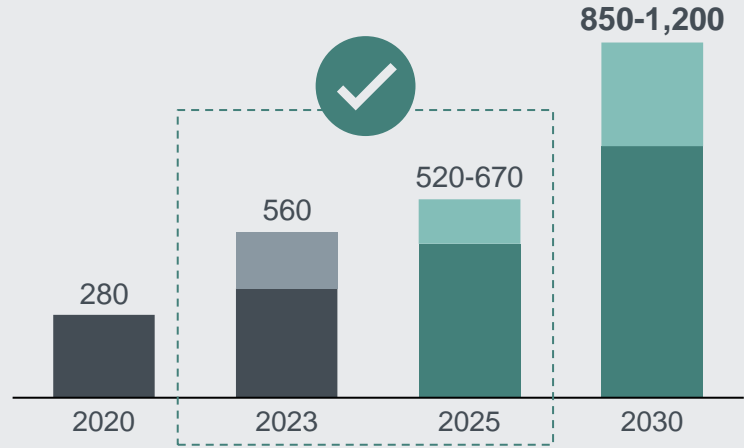
2025 recycling targets achieved with 2023 year-end installed capacity

Recent recycling projects with production and post-consumer scrap capacity
Tonnes ('000)

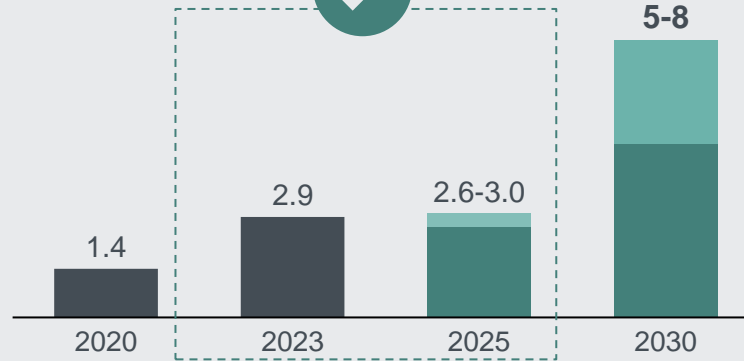


Recycling targets 2030¹⁾

Post Consumer Scrap
Consumption and targeted capacity usage, tonnes ('000)



EBITDA
NOK million



1) Range based on capex. High-range include ~70% of further potential capex given market and M&A.

Post-consumer scrap generation is increasing

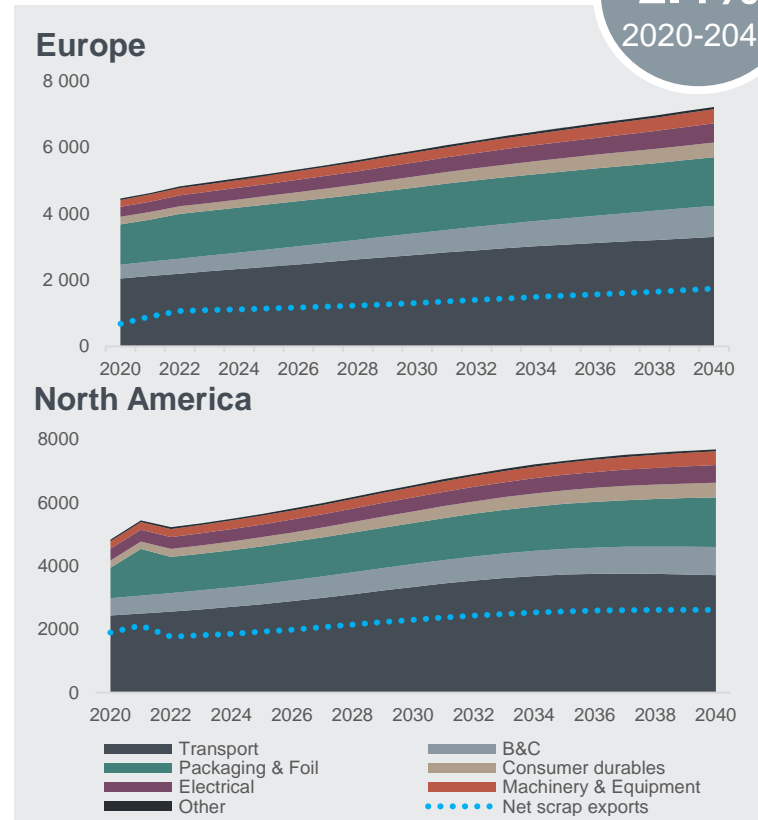


But multiple hurdles exist for its utilization

Post-consumer scrap recovery

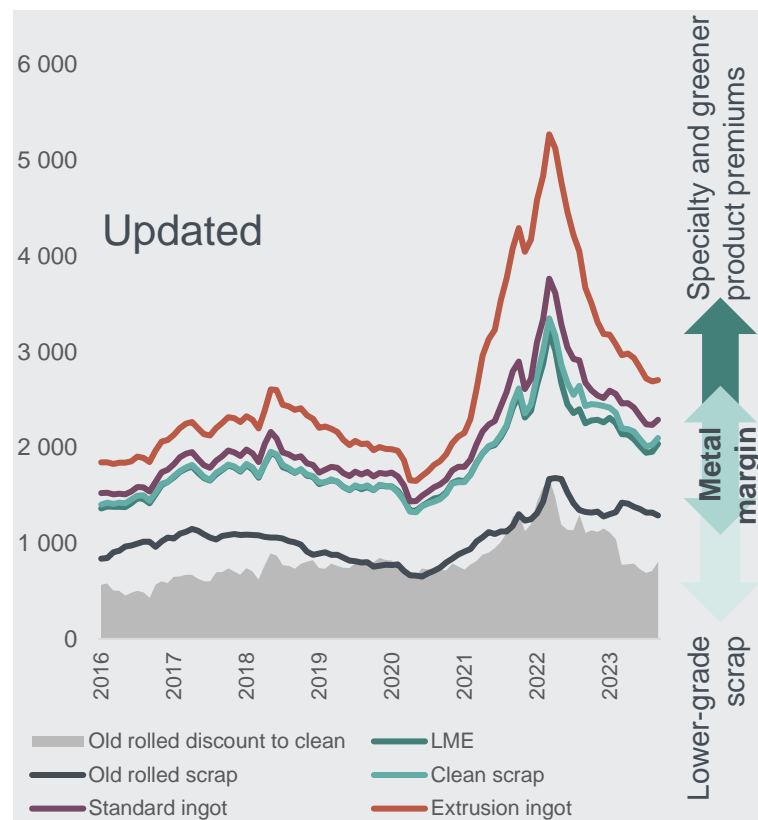
Tonnes ('000)

CAGR
2.4%
2020-2040



Price spread scrap

Clean vs. complex post-consumer scrap, EUR/tonne

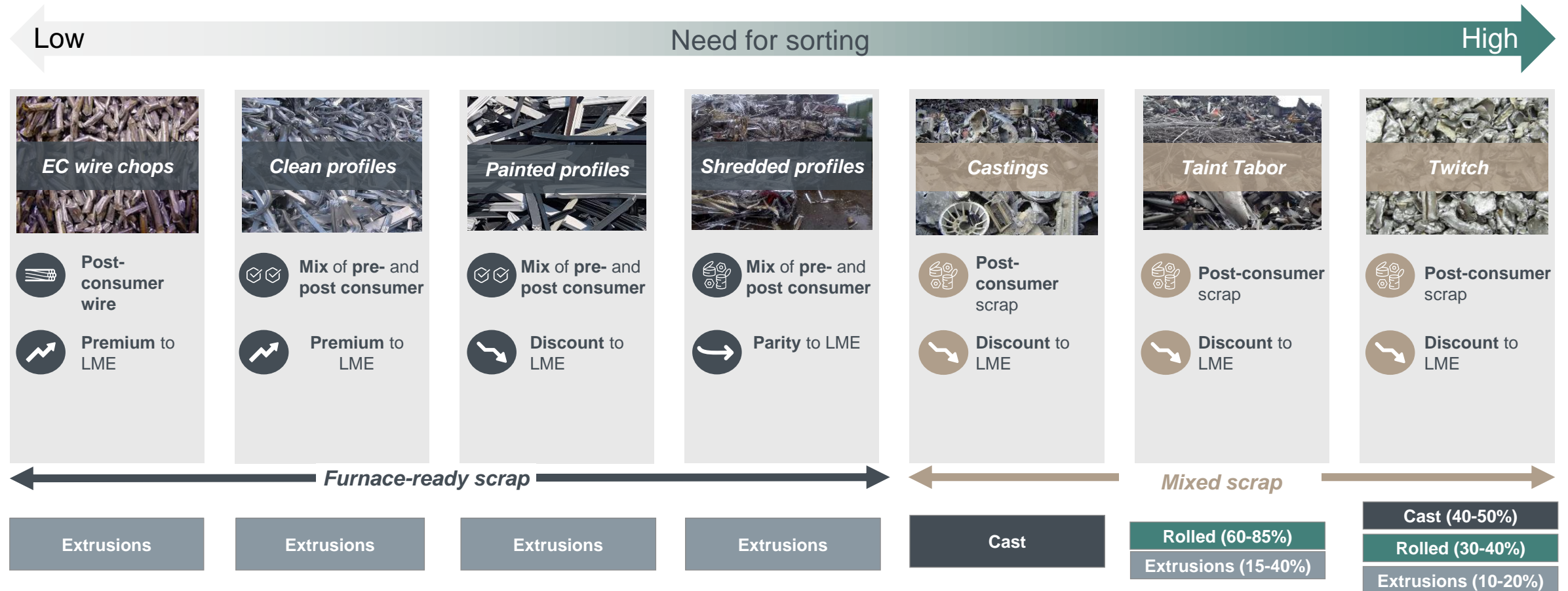


Key trends in aluminium recycling

- Growth in recycling and billet capacity pressuring margins on “clean” scrap feedstock
- Large export volumes from Europe and North America to Asia
- Regulatory changes and protectionism measures affecting future scrap market
- Increasing generation and more interest in lower-grade scrap, but multiple challenges:
 - Supply chain complexity
 - Contamination
 - Collection
 - Sorting limitations
 - Logistics

Mixed scrap types require sorting capabilities and ability to convert to various products

Securing access to the right scrap – key success factor



Megatrends support recycling agenda

Increasing focus on circular economy from both consumers and regulators


∞ Innovate for circularity

From projects to recycling



- Process design – closed loops
- Product design – lower material use
- Reuse and refurbish (second life)

♻️ Waste to value



- Reduce waste generation
- Reuse and upcycle waste streams to products

🌿 Technology

Global semis demand (Mt)

	2022 demand	Incremental demand 2030 vs 2022
PCS	17%	36%
Process scrap ¹	13%	14%
Primary	70%	51%
Total	98	Δ 29

← 100%

- Capture and recycle products at end-of-life
- Improve scrap sorting
- Increase recycling efficiency
- Technology advancement

🌐 Regulatory frameworks



- End-of-life Directive
- EU waste shipment regulation
- Critical raw materials act
- CO₂-regulations

Diversifying and high-grading recycling product portfolio across markets and geographies



Successfully completed organic and inorganic projects in 2023 include:



Cassopolis greenfield recycler, MI USA

Introducing Hydro CIRCAL, increasing EI market share in the US

- 40kt of PCS per year enabling delivery of similar volumes of Hydro CIRCAL® to the North American market
- Lowest carbon extrusion ingot offering in North America



State-of-the art HyForge line in Rackwitz, Germany

Diversifying portfolio and growing high-margin HyForge capacity

- Ramping-up the HyForge line in Rackwitz Germany
- Forging stock geared towards the automotive industry



Alumental acquisition

Entering the recycled FA market with Alumental acquisition

- Advanced sorting capabilities and capacity
- Opportunity to utilize more scrap grades
- Identified synergies of 10-15 MEUR by 2027



AluSort – JV Hydro & Padnos, USA

Securing access to scrap, industrializing HySort technology in the US

- Invested 4MUSD in a 50:50 JV with scrap-yard operator Padnos in MI, US
- Installing HySort equipment; total capacity ~36 kt p.a.
- Supplying Cassopolis with suitable fractions; marketing the rest externally

Hydro has a proven track record developing recycling capabilities

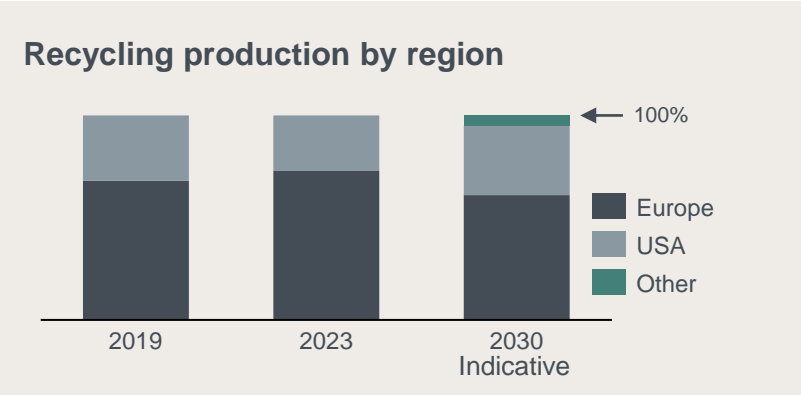
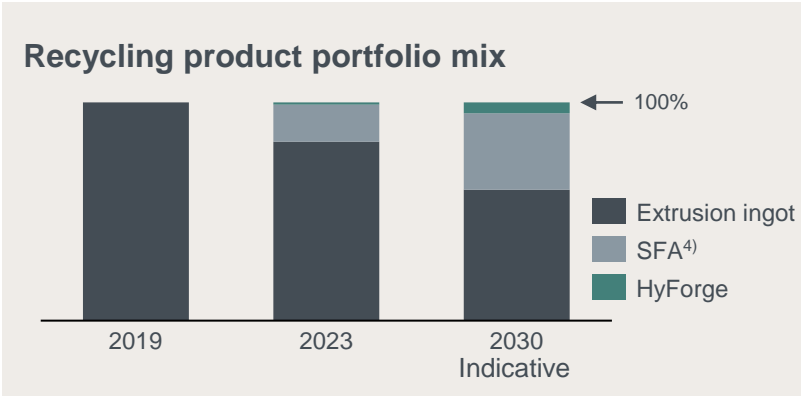


Increasing use of PCS and sorting capacity¹⁾

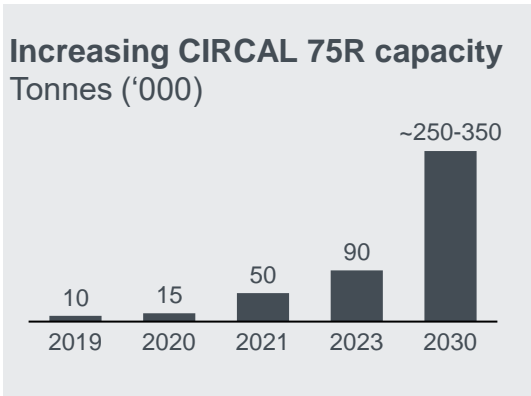
+40%
PCS use
2019 to 2023

+100 kt
Sorting capacity
2019 to 2023

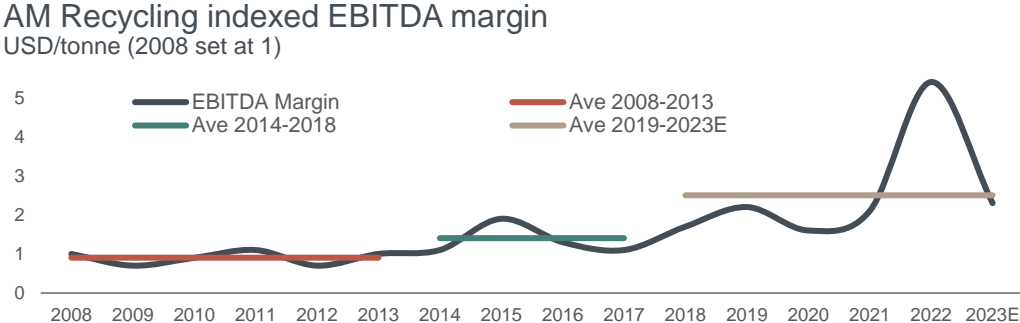
Diversifying asset and product portfolio²⁾



Expanding specialty and greener product offerings³⁾



Lifting profitability through the cycle

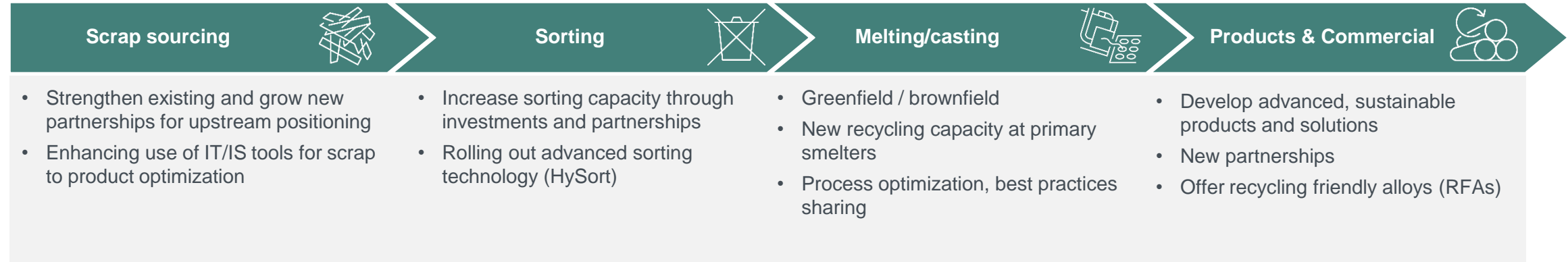


1) Average PCS consumption in the AM extrusion ingot recycling plants. 2) AM global recycling portfolio; 2023 based on Alumetal production since July 1, 2023. 3) Extrusion ingot Hydro CIRCAL recycling in AM and HE recycling plants and remelters, Europe and US. 4) SFA = scrap-based foundry alloy

Stepping up activities across the recycling value chain



Continuing to transform scrap into sustainable solutions for our customers



Selected projects in the pipeline addressing key market trends



**Kety upgrade,
Alumetal, Poland**

SFA products for **automotive** e.g. gigacastings, electrical engine housing



**Torija greenfield recycler,
Spain**

Specialty casthouse equipped to produce advanced products also for automotive; large CIRCAL capacity



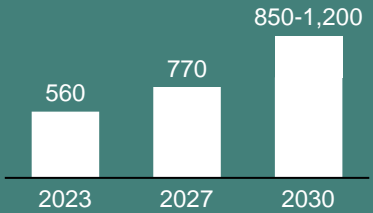
**New HyForge line,
Henderson, USA**

Introducing HyForge for **automotive applications** in the US

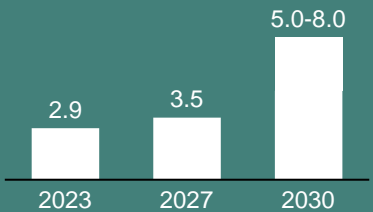
Hydro with competitive advantages in recycling



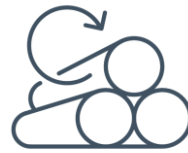
Recycling 2030 ambitions:



850-1,200
kmt PCS capacity

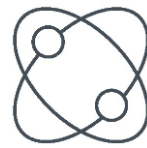


NOK 5-8 billion
EBITDA potential



Full value chain with multiple product outlets

- Large recycling asset base in Europe and North America
- Broad range of products – extrusion ingot, sheet ingot, foundry alloys, HyForge, Master alloys
- Ability to utilize and upcycle mixed scrap



Sorting & production technology

- Technical and metallurgical competence
- Production optimization know-how from scrap to product
- Patented HySort technology, in-house R&D



Close customer & supplier relations

- Local presence and market insight in core locations
- Established relationships with scrap suppliers
- Partnerships and close cooperation with customers
- Commercial intelligence and strong value chain positioning



Extrusions

Extrusions – #1 in the global aluminium extrusion industry

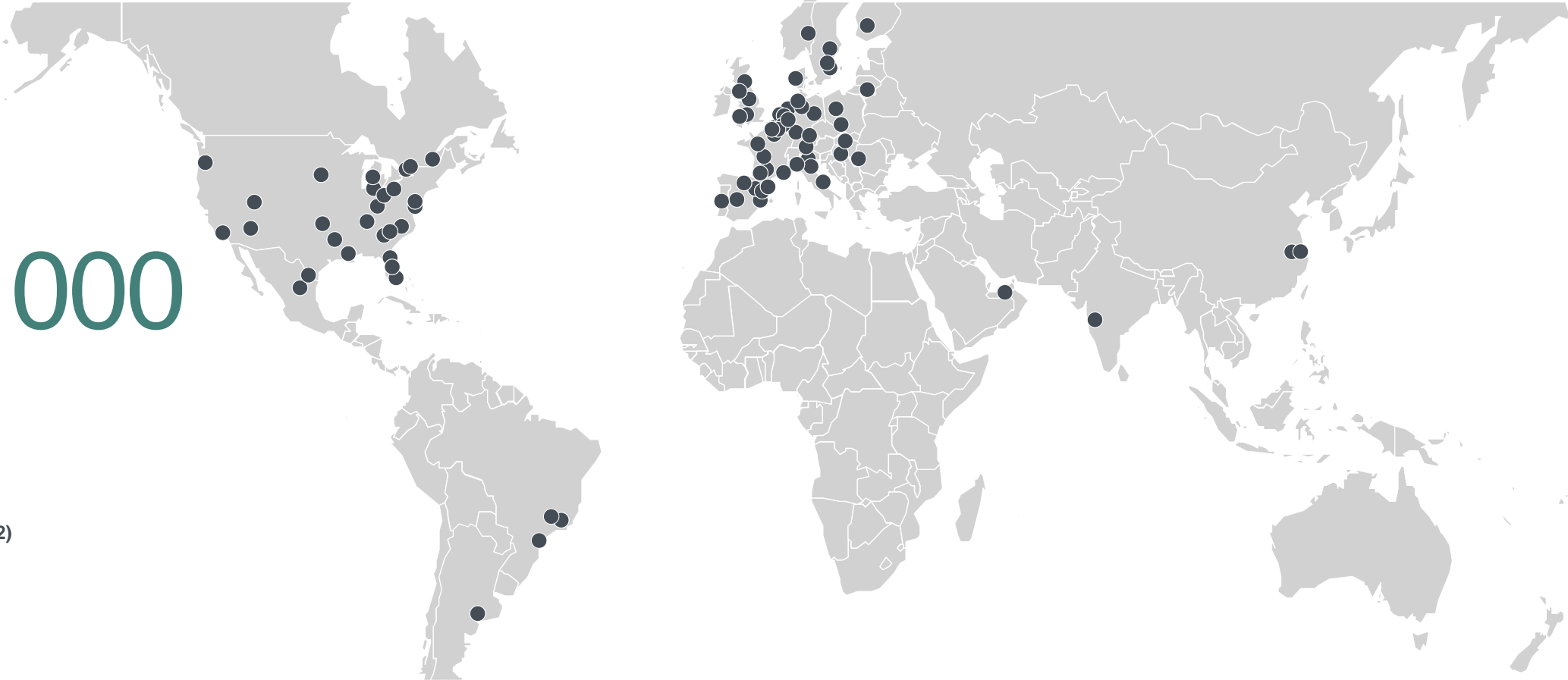


Present in

~40
countries

~ 21 000
people ¹⁾

1.1
Million mt sales²⁾



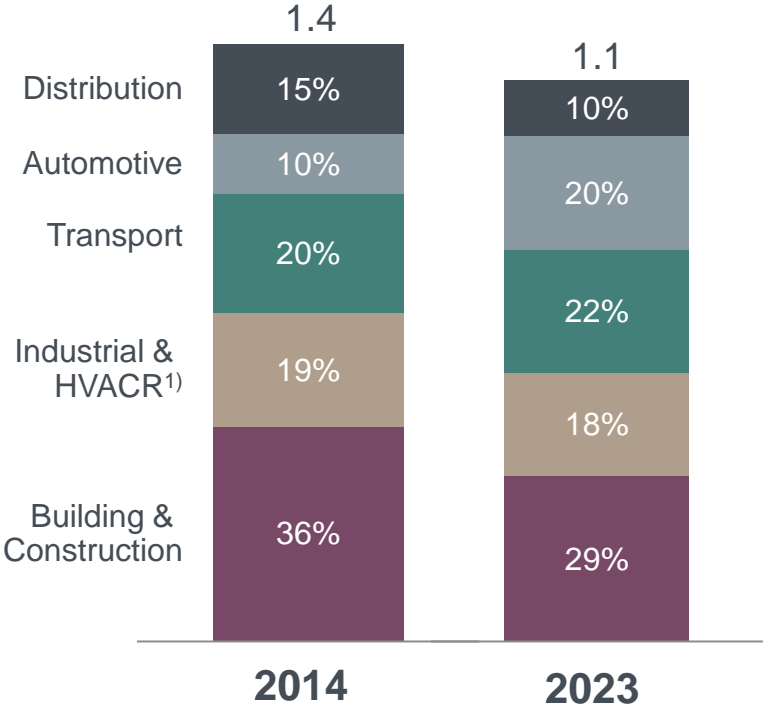
1) Permanent employees as of end-2023
2) Total sales in 2023

Hydro Extrusions delivering strong EBITDA uplift through targeting high-growth, advanced segments



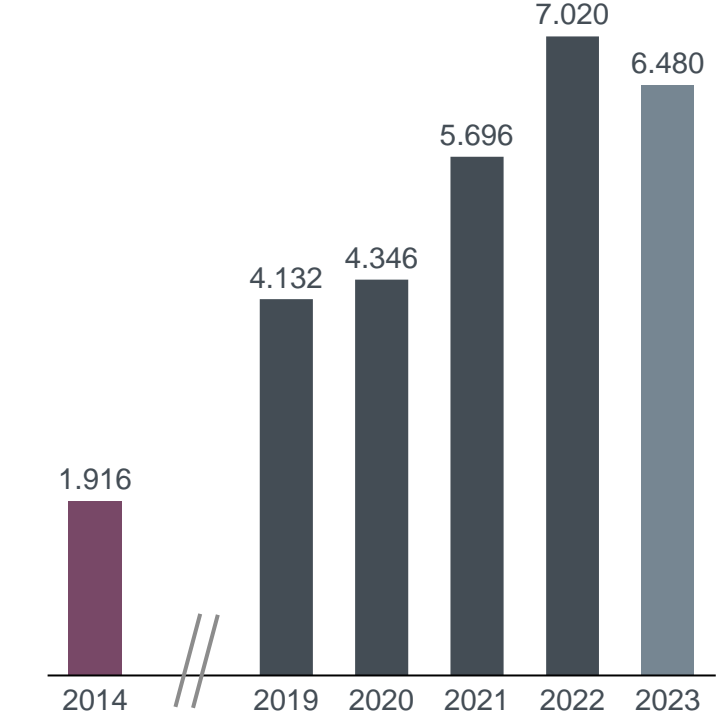
HE sales volumes split per segment

Million tonnes



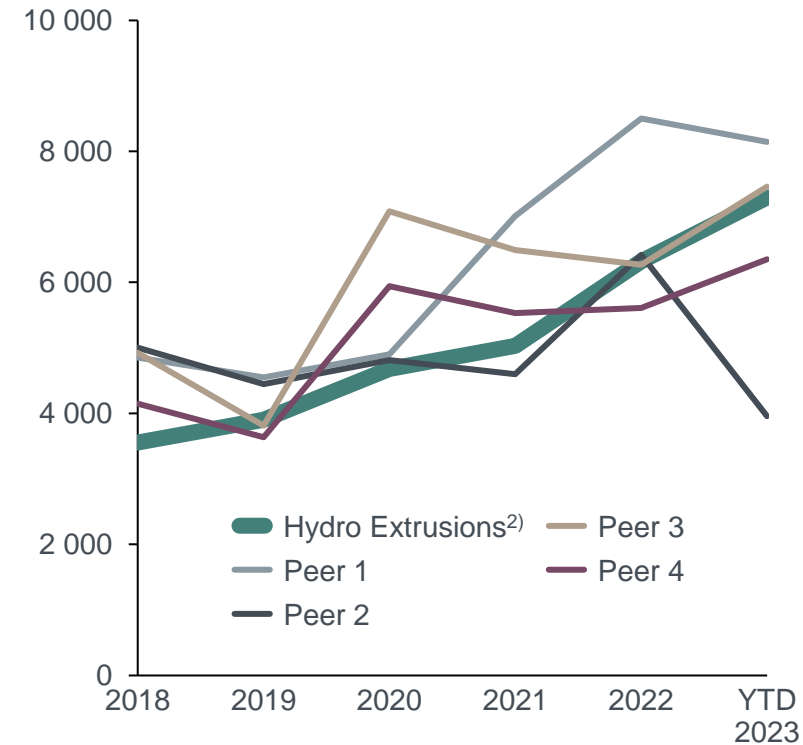
HE EBITDA

NOK million



EBITDA per tonne vs peers

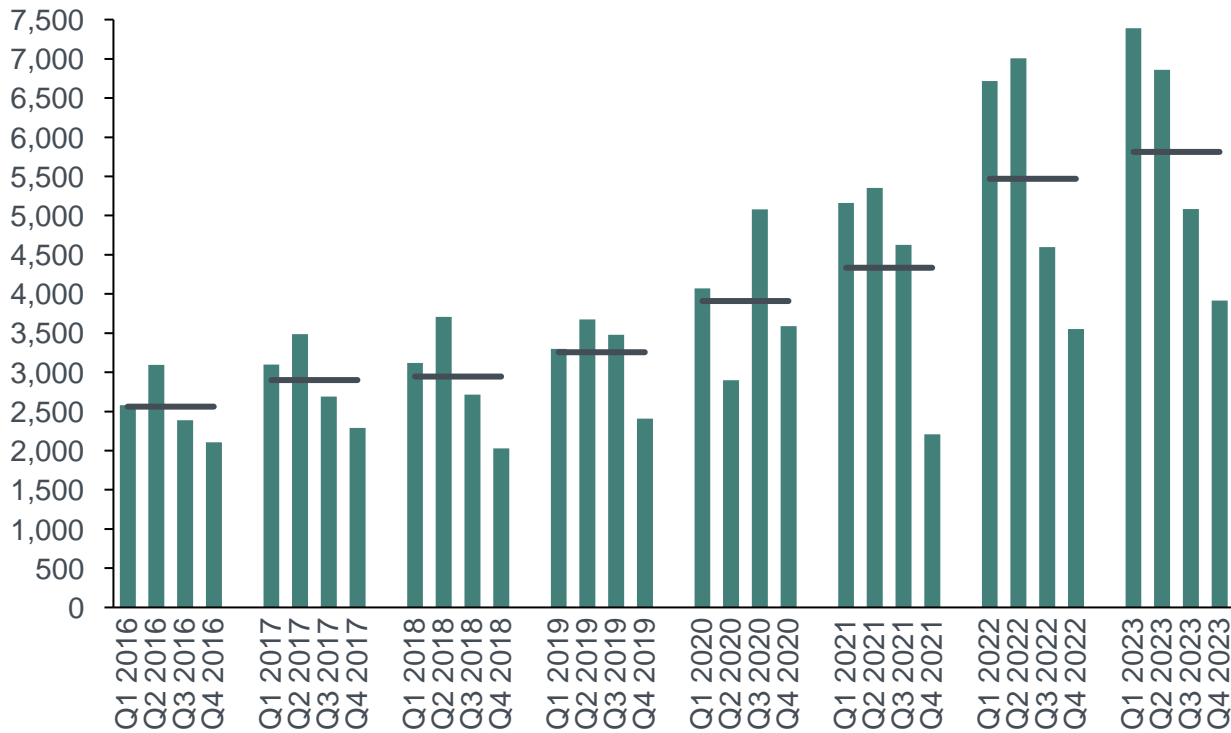
NOK per tonne



1) Heat, ventilation, air conditioners & refrigerators
 2) HE EBITDA adjusted for capitalization of dies to make comparable to peers

Extrusions earnings drivers

Adjusted EBITDA per tonne¹⁾, NOK



- 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

1) Pro-forma figures

Industry trends towards 2030 are favorable for Hydro Extrusions, driven by customer needs and segment growth

Opportunity to leverage Hydro Extrusions' strengths increases as target segments develop

Customer needs



- As industries and applications mature, customers demand more developed solutions
- Value added offerings
- New, R&D driven solutions
- Customers will partner with suppliers providing new and advanced solutions, e.g., low-carbon, high R/C content, sustainably produced solutions

Segment growth



- More growth expected in value added product and solutions area rather than “commodities”
- Attractive segments with 5-10% annual growth
- Key growth segments include Automotive / E-mobility and solar / Renewables / Big & Wide Rail

HE capabilities



- Strong innovative capacity to provide high-quality advanced solutions
- Developed R&D position that can be further enhanced
- Head start vs competition in sustainability area
- Size, geographical coverage and advanced capabilities to be relevant in differentiated segments

Hydro Extrusions will leverage opportunities from greener transition to strengthen market positions

Secular growth drivers in key segments



Automotive CAGR
2022-30:

8 - 10%



Solar in EU CAGR
2022-30:

10 - 15%



Copper substitution
potential, HVAC&R by
2030, million tonnes:

0.6

HE positioning and growth ambitions

- Strong global positions, long term relationships with major automotive OEMs
- Proven capabilities, innovation and sustainability as key competitive levers
- Increase share of direct OEM supply and long-term contracts
- Investment projects under execution globally

- HE with strong value offering, including surface treatment and low-carbon aluminium solutions
- Solar mounting systems fit well on existing 7-9 inch presses
- Projects in pipeline to increase capacity

- HVAC&R customers with production in North America and China
- Customer projects with proven solutions for replacing copper with aluminium
- Grow capacity and increase customer solutions

Critical growth projects under execution, maturing projects to enable profitable growth

Further strengthening flagship plants in the portfolio, leveraging key trends

Key trends



- Sustainable products with low-carbon footprint
- Recyclability and keeping materials “in the loop”
- Greener energy sourcing



- E-mobility
- Light-weighting of vehicles

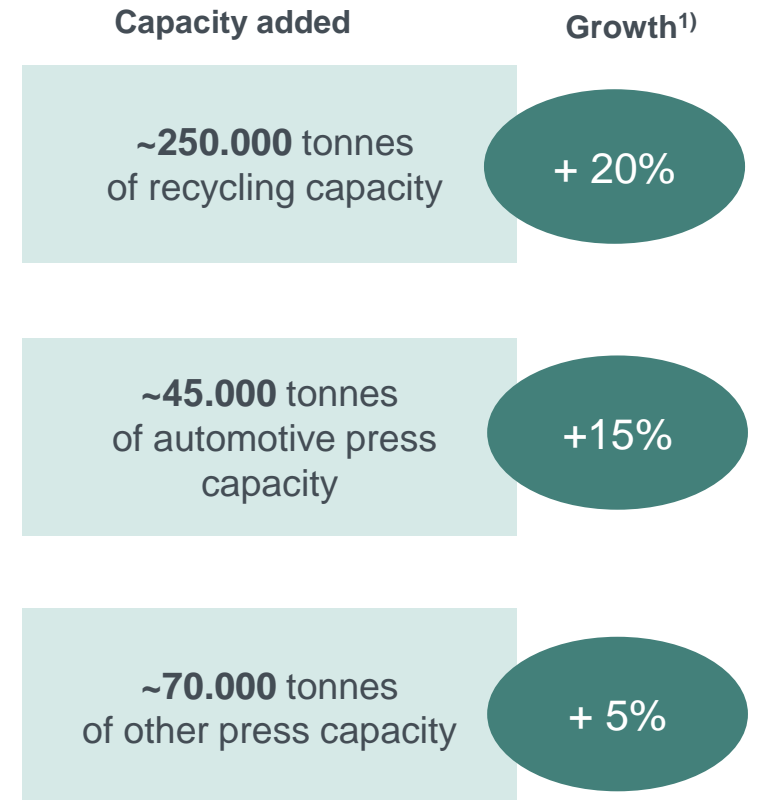


- Customer collaboration: high level of service, tailored solutions, short lead times
- Proximity as clear competitive advantage

Project under execution

Hungary recycling	
Navarra recycling	
Sjunnen recycling	
US: TDC upgrade and Cressona	
PT China press	
PE coating line	
Phoenix press and fabrication ramp-up	
Hungary and Tønder automotive presses	
Nenzing press	
Rackwitz press	
Cressona press	
COI press (US)	

Project capacity growth since 2021



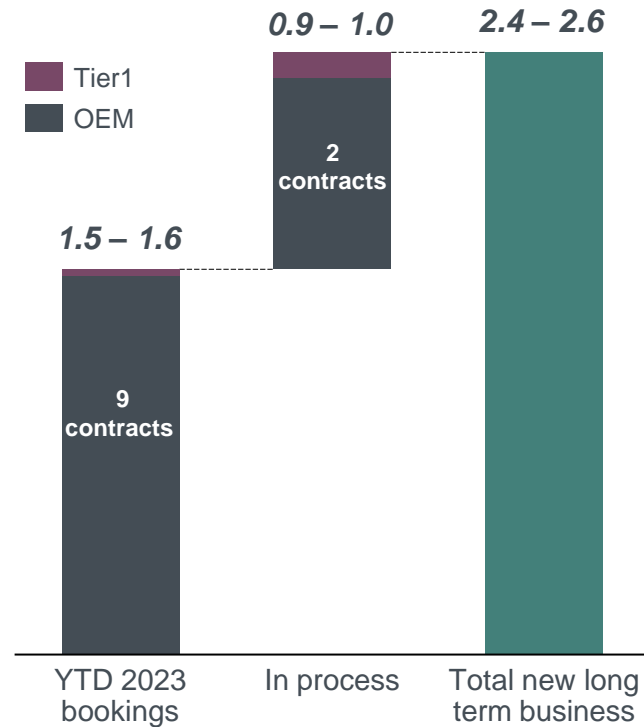
1) Compared to base capacity 2021

Significant automotive growth business last quarters



Record levels of OEM sole supply contracts

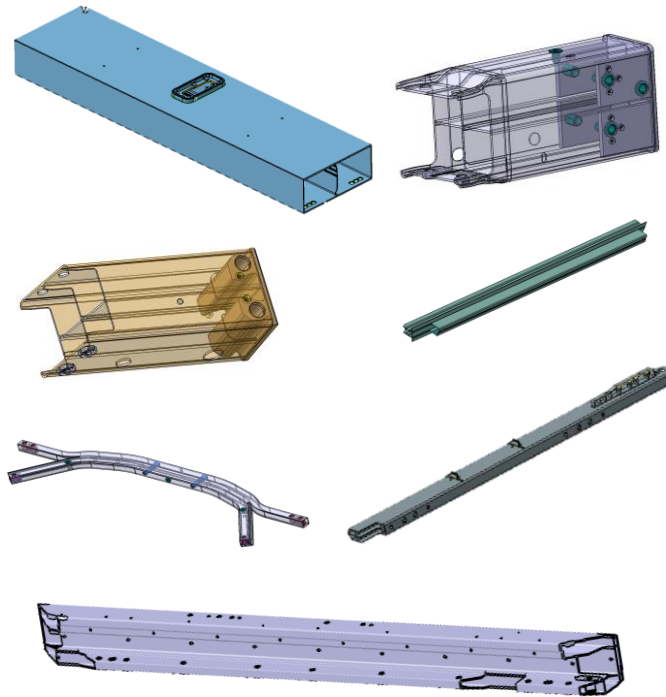
(Revenue in BEUR)



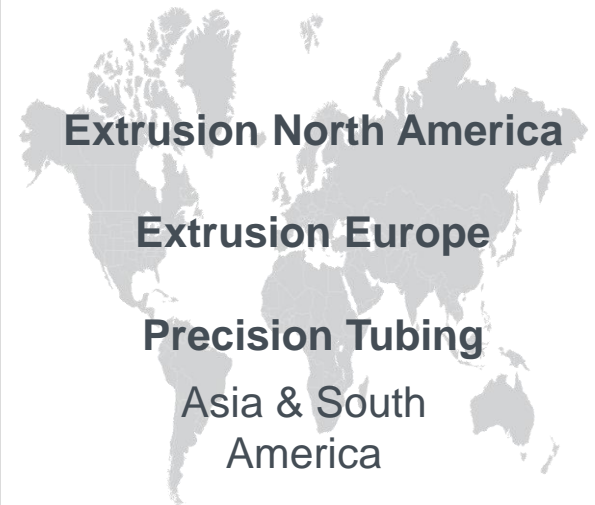
Partnerships with large OEMs



Advanced offering of added value activities and fabrication services



Across geographies and units



Reducing own emissions and helping customers improve their products' sustainability towards 2030



Greener sourcing

-27%¹⁾ CO₂ emissions on extrusion billets

Reduce own emissions

Greener production

-24%¹⁾ CO₂ direct/indirect emissions

Reduce water usage by 30%²⁾ and waste generation by 20%²⁾

Zero hazardous landfill by 2025

Reduce own emissions

Greener products

EPD

LCA

Hydro LOW-CARBON ALUMINIUM
Certified and transparent

Hydro RECYCLED ALUMINIUM
Certified and transparent

Help customers improve their products sustainability

Confirm and improve with labels and certifications

1) Baseline 2018. 2) Baseline 2019

Reducing own emissions and helping customers improve their products' sustainability towards 2030



Greener sourcing

Greener Sweden

Pilot project towards net-zero



Renewables in the U.S.

Spanish Fork plant fully solar powered



Greener production

PV-powered press

Solar-powered press in Poland



Hydrogen-fueled recycling

World's first batch produced in Spain



Greener products

Shaping the market

First project with Hydro CIRCAL 100R



Greener partnerships

Partnering with customers and others



Customers from all industries partnering with Hydro Extrusions to make greener products



VELUX®

Partnering to cut carbon emissions from its value chain in half by 2030



cake

Cleanest Dirt Bike Ever project to remove emissions from production by 2025



Schweizer

Solar panel systems made from low-carbon aluminium extrusions



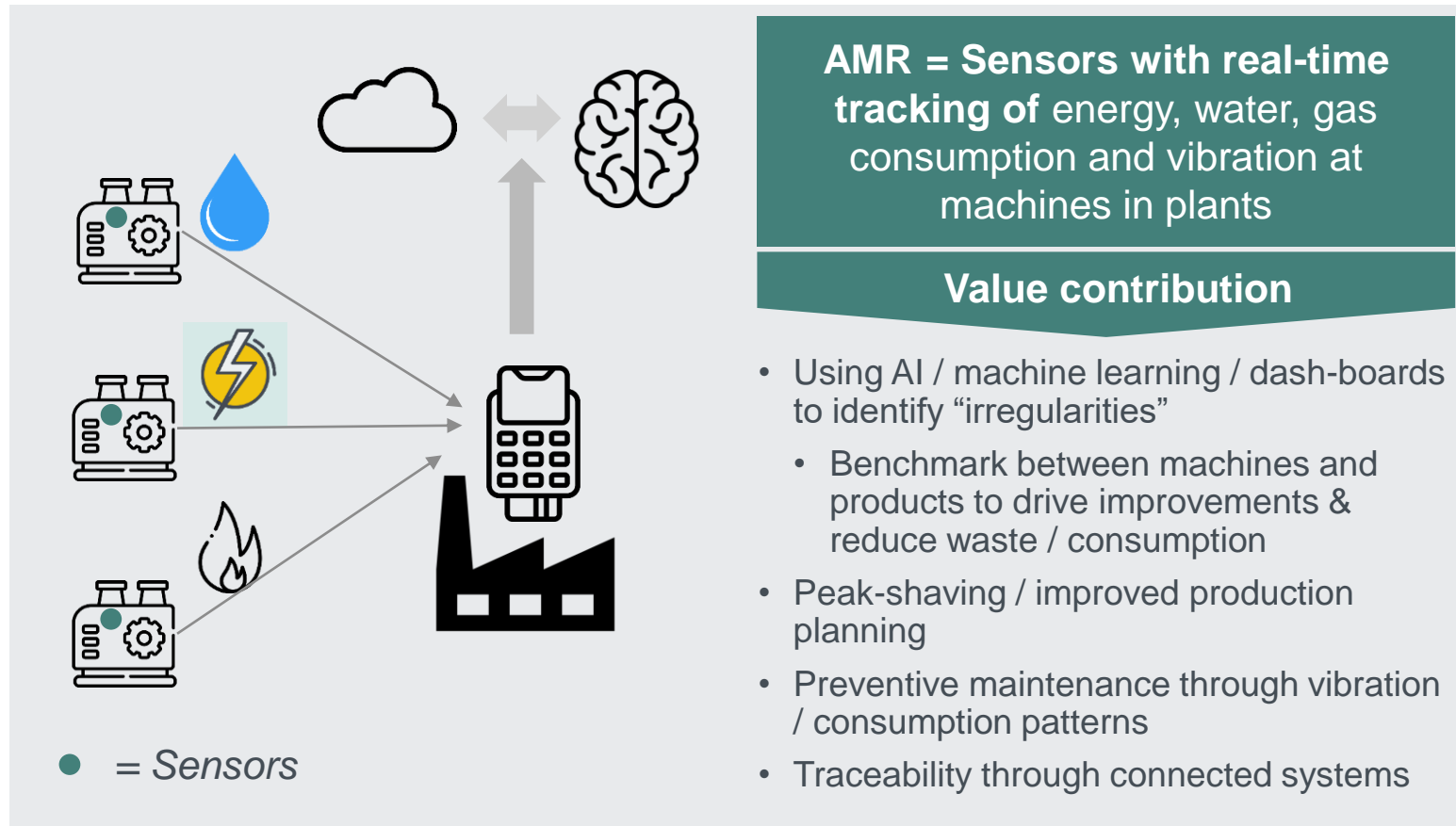
HAY

Light and flat-packed BOA conference tables made with Hydro CIRCAL

Digitalization, AI and automation

Key levers to improve performance and profitability

AMR = Automatic Meter Reading



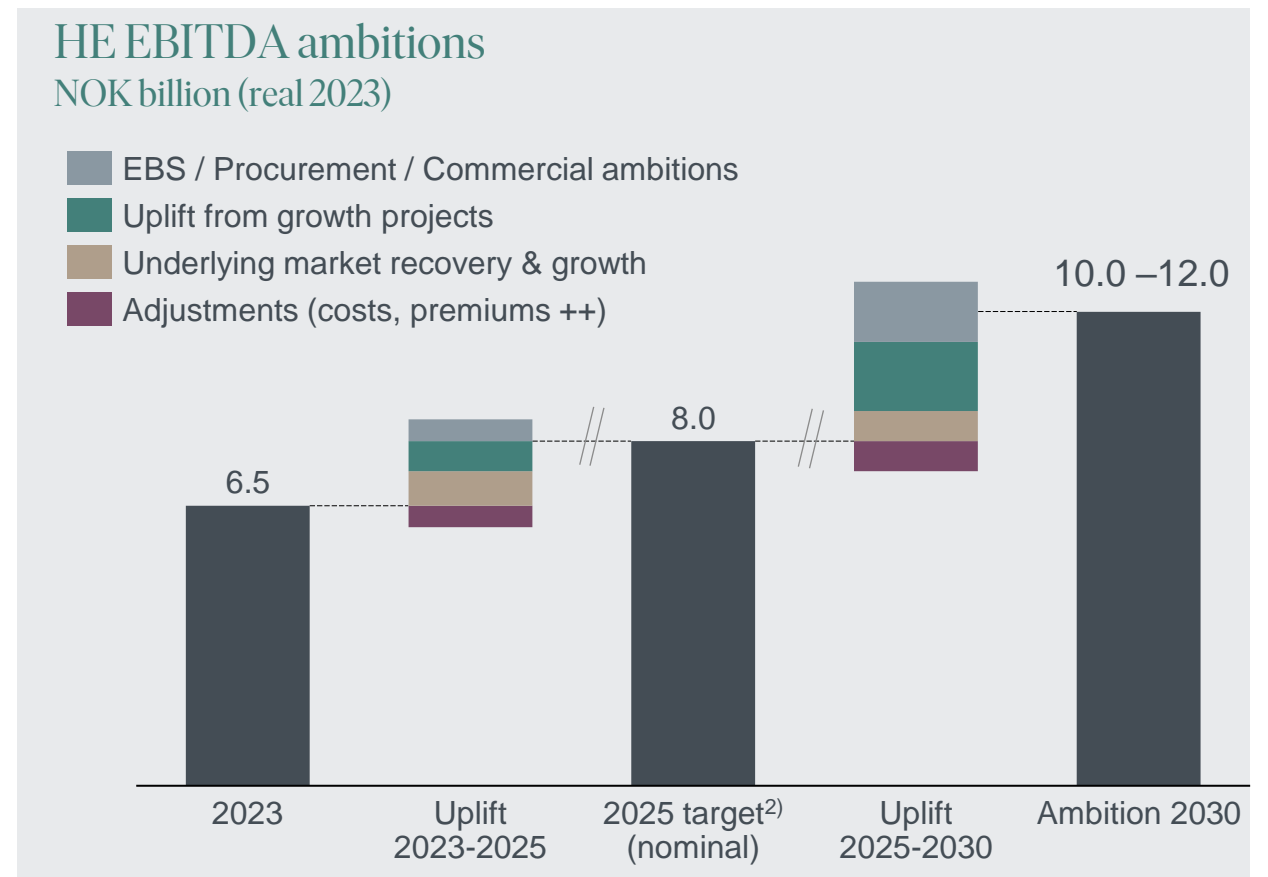
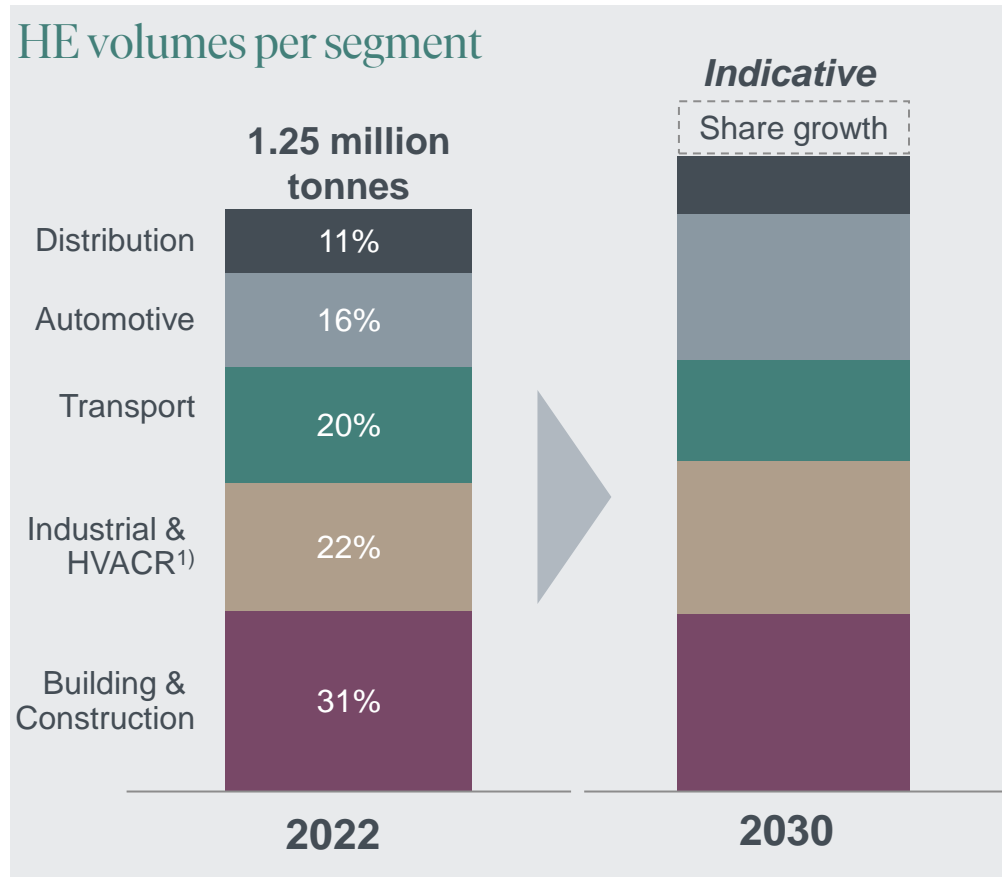
Automation

- PT Taicang Fabrication – reducing 95 FTEs through Automation & EBS¹⁾ (>20% of work-force)
 - Ergonomic, quality, safety and finance
- Automatic quality controls enable delivering millions of parts without quality issues



HE increasing profitability towards 2030 through uplift from growth projects and underlying improvements

Growing market share in dedicated segments, further operational and commercial improvements



1) Heat, ventilation, air conditioners & refrigerators

2) Target of 8 BNOK in 2025 in nominal terms as communicated in 2021. Range target 2030 in real terms



Hydro Extrusions 2030 strategic direction



- Growing with the **underlying markets**
- Growing in non-commoditized segments fitting with HE's capabilities
- Continue to compete based on capabilities and service
- + **Market share growth** ambition in high-growth, profitable segments



- Investments to support capabilities and **ability to compete through high service levels**
- **Press and fabrication capacity, value added services and recycling**



- **Sustainability** giving **commercial** opportunities
- **Segmentation** and improved **greener offerings** as key levers

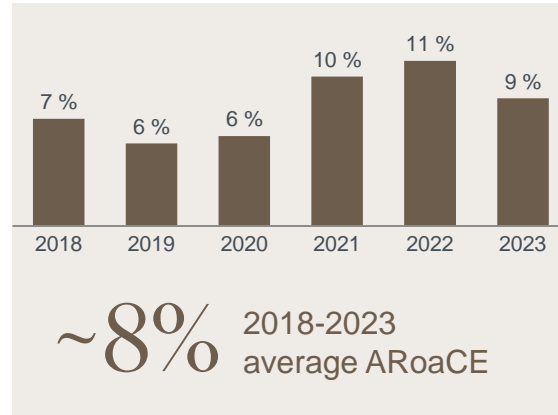
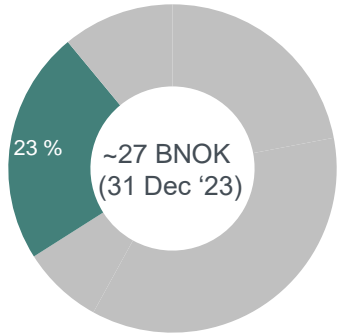


- Increased **digitalization** throughout value-chain
- **Standardization** will generate value through the value-chain – from understanding profit to driving procurement and reducing energy consumption

Capital return dashboard for Extrusions

Returns in line with the cost of capital reflecting leading market positions in high value segments and portfolio optimization

Capital employed in Extrusions



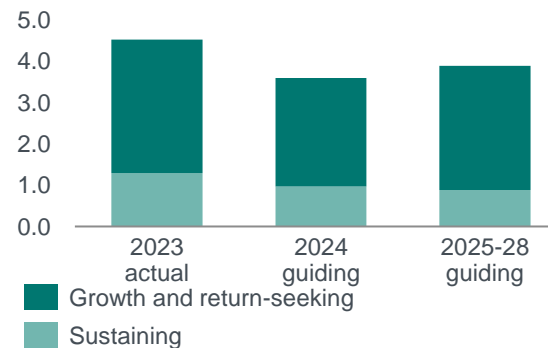
6.5 BNOK
Adjusted EBITDA FY 2023

7-8%
Return requirement

**1.7 + 1.0
BNOK**
2024-2030 incremental EBITDA from improvement potential and commercial ambitions

Investments in new presses and recycling projects to support growth

Capex, BNOK

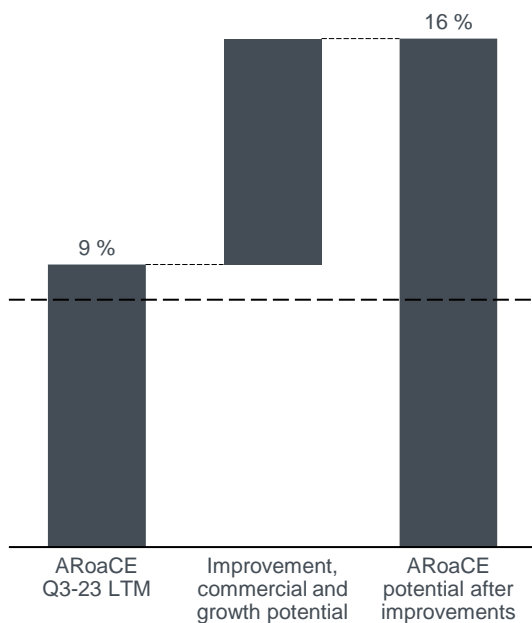


Extrusions profitability growth roadmap

Main drivers – improvement program and commercial ambition

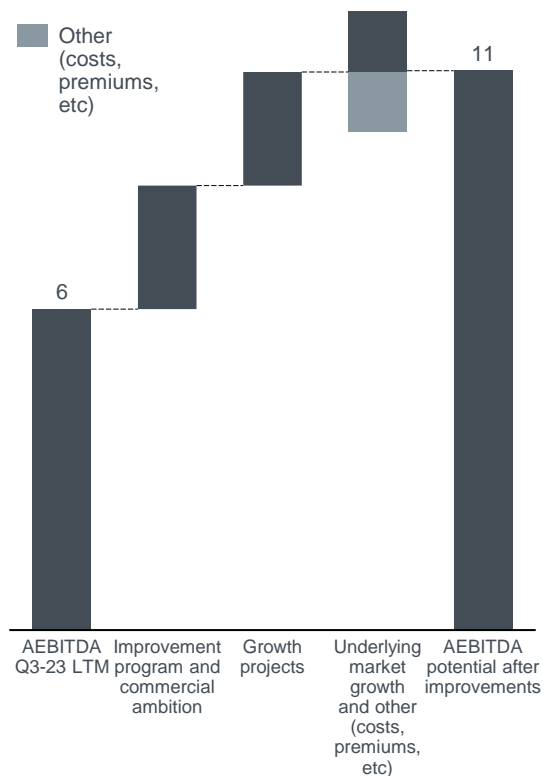
ARoaCE potential 2030

Profitability target of >8%



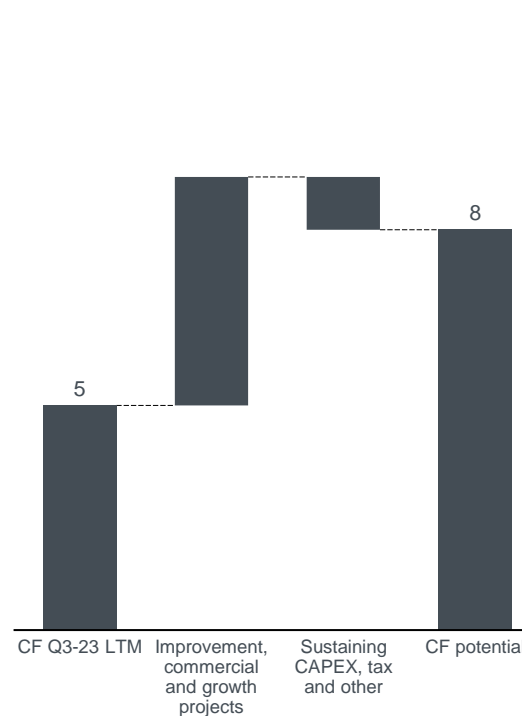
AEBITDA potential 2030

NOK billion



Cash flow potential after sustaining CAPEX¹⁾ 2030

NOK billion



Main further upside drivers

- Selective profitable growth including larger projects
- Continuous portfolio review and optimization
- Operating and fixed cost optimization
- Positive market and macro developments

Main downside risks

- Negative market and macro developments, incl. trade restrictions
- Inflation pressure
- Loss of large customer contracts
- Supply chain disruptions
- Regulatory and country risks

1) Cash flow calculated as EBITDA + tax + long-term sustaining CAPEX
Assumptions and sources behind the scenarios can be found in Additional information

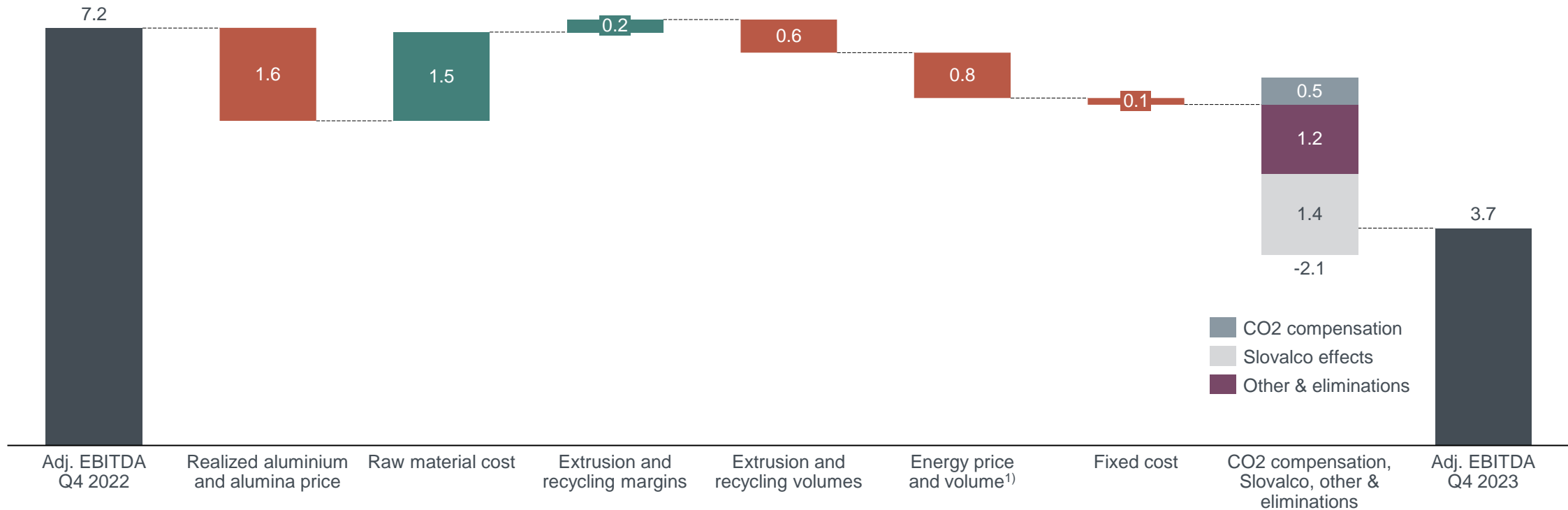


Additional information

Adj. EBITDA down on lower prices, Extrusion results and Slovalco effects, partly offset by lower raw material cost



Q4 2023 vs Q4 2022



Note: 1) Excluding Energy loss on buy-back contract with AM

Income statements



NOK million	Fourth quarter 2023	Fourth quarter 2022	Third quarter 2023	Year 2022	Year 2023
Revenue	46 754	44 075	44 702	207 929	193 619
Share of the profit (loss) in equity accounted investments	46	131	171	1 337	492
Other income, net	1 272	1 051	348	4 406	4 152
Total revenue and income	48 072	45 256	45 220	213 672	198 263
Raw material and energy expense	29 633	28 857	30 501	129 373	123 538
Employee benefit expense	6 673	5 931	6 238	22 886	25 931
Depreciation and amortization expense	2 539	2 270	2 327	8 593	9 394
Impairment of non-current assets	4 424	286	0	336	4 421
Other expenses	7 061	6 507	6 478	21 769	25 387
Earnings before financial items and tax (EBIT)	(2 256)	1 405	(323)	30 715	9 592
Interest and other finance income	257	268	377	619	1 302
Foreign currency exchange gain (loss)	152	356	538	2 192	(2 084)
Interest and other finance expense	(668)	(353)	(537)	(1 161)	(2 264)
Income (loss) before tax	(2 516)	1 676	55	32 365	6 546
Income taxes	(256)	(1 519)	(680)	(7 984)	(3 742)
Income (loss) from continuing operations	(2 771)	158	(625)	24 381	2 804
Income (loss) from discontinued operations	-	36	-	36	-
Net income (loss)	(2 771)	194	(625)	24 417	2 804
Net income (loss) attributable to non-controlling interests	(235)	(93)	(267)	263	(778)
Net income (loss) attributable to Hydro shareholders	(2 537)	287	(358)	24 154	3 583
Earnings per share from continuing operations	(1.26)	0.12	(0.18)	11.76	1.77
Earnings per share from discontinued operations	-	0.02	-	0.02	-
Earnings per share attributable to Hydro shareholders	(1.26)	0.14	(0.18)	11.78	1.77

NOK million	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2024	Year 2021	Year 2022	Year 2023
Income (loss) from continuing operations	1 880	2 397	1 127	8 525	6 411	11 136	6 676	158	1 144	5 056	(625)	(2 771)	13 930	24 381	2 804
Net income (loss)	1 500	2 805	1 108	8 529	6 411	11 136	6 676	194	1 144	5 056	(625)	(2 771)	13 942	24 417	2 804
Adjusted net income (loss) from continuing operations	2 448	3 150	3 498	5 810	6 785	7 731	6 258	2 371	3 326	3 410	345	754	14 905	23 145	7 835
Earnings per share from continuing operations	0.89	1.06	0.50	3.47	2.80	5.49	3.34	0.12	0.62	2.56	(0.18)	(1.26)	5.92	11.76	1.77
Earnings per share attributable to Hydro shareholders	0.70	1.26	0.49	3.47	2.80	5.49	3.34	0.14	0.62	2.56	(0.18)	(1.26)	5.93	11.78	1.77
Adjusted earnings per share from continuing operations	1.15	1.45	1.60	2.57	3.17	3.63	2.91	0.99	1.70	1.77	0.27	0.50	6.77	10.70	4.26

Balance sheet



NOK million	December 31 2023	September 30 2023	June 30 2023	March 31 2023	December 31 2022	September 30 2022	June 30 2022	March 31 2022
Cash and cash equivalents	24 618	19 105	22 453	30 873	29 805	25 852	24 507	21 161
Short-term investments	2 641	2 101	1 158	2 696	4 173	2 511	1 882	8 588
Trade and other receivables	25 404	26 387	27 561	28 350	23 988	28 442	29 164	25 955
Inventories	25 449	27 648	28 808	30 216	30 035	31 394	29 415	25 237
Other current financial assets	1 900	1 726	2 722	1 302	1 127	4 887	6 543	4 719
Assets held for sale	3 685	-	-	-	-	-	-	-
Property, plant and equipment	74 981	74 367	72 985	67 827	62 656	62 369	58 920	56 599
Intangible assets	8 447	10 823	10 215	9 839	9 280	9 810	9 374	8 986
Investments accounted for using the equity method	21 228	24 633	24 277	22 566	21 222	22 613	20 055	18 257
Prepaid pension	8 664	9 335	9 981	9 040	8 573	9 352	9 814	9 837
Other non-current assets	9 444	9 135	8 346	8 684	7 759	9 598	8 400	12 398
Total assets	206 462	205 260	208 506	211 395	198 618	206 829	198 074	191 737
Bank loans and other interest-bearing short-term debt	7 111	5 764	5 271	5 899	6 746	11 085	7 796	7 072
Trade and other payables	26 232	24 860	25 529	25 702	24 374	26 703	29 156	25 130
Other current liabilities	10 549	11 093	9 593	10 741	11 688	11 653	10 724	12 536
Liabilities in disposal group	141	-	-	-	-	-	-	-
Long-term debt	28 978	29 944	29 756	29 615	26 029	20 790	21 054	21 073
Provisions	5 867	5 897	6 243	5 692	5 289	5 779	5 539	5 164
Pension liabilities	9 222	8 475	8 388	8 669	8 252	8 064	7 882	8 409
Deferred tax liabilities	4 717	6 153	6 197	5 289	4 796	5 178	5 304	5 281
Other non-current liabilities	6 462	5 325	5 687	5 429	3 648	4 481	5 585	7 564
Equity attributable to Hydro shareholders	100 579	103 062	106 873	108 582	102 455	107 129	99 347	93 906
Non-controlling interests	6 604	4 686	4 968	5 777	5 343	5 967	5 688	5 603
Total liabilities and equity	206 462	205 260	208 506	211 395	196 618	206 829	198 074	191 737

Adjusting items to EBITDA, EBIT and net income



NOK million (+=loss/()-=gain)		Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2022	Year 2023
Unrealized derivative effects on raw material contracts	Hydro Bauxite & Alumina	(376)	(173)	157	353	177	94	(41)	182	(40)	412
Community contributions Brazil	Hydro Bauxite & Alumina	-	-	-	32	-	25	-	-	32	25
Other effects	Hydro Bauxite & Alumina	-	-	-	162	-	-	-	-	162	-
Total impact	Hydro Bauxite & Alumina	(376)	(173)	157	547	177	118	(41)	182	155	437
Unrealized derivative effects on power contracts	Hydro Energy	(236)	46	(254)	615	214	184	41	(37)	170	401
(Gains)/losses on divestments	Hydro Energy	-	(65)	-	-	-	-	-	-	(65)	-
Net foreign exchange (gain)/loss	Hydro Energy	4	2	3	1	(3)	(7)	(5)	(6)	11	(20)
Other effects	Hydro Energy	-	-	-	-	-	-	-	164	-	164
Total impact	Hydro Energy	(232)	(16)	(251)	616	211	177	36	120	116	544
Unrealized derivative effects on LME related contracts	Hydro Aluminium Metal	4 715	(6 374)	(1 538)	207	709	(2 836)	1 414	(954)	(2 990)	(1 667)
Unrealized derivative effects on power contracts	Hydro Aluminium Metal	(766)	1 056	1 291	1 638	62	(106)	113	33	3 218	103
Significant rationalization charges and closure costs	Hydro Aluminium Metal	-	(18)	-	64	-	-	-	-	46	-
Net foreign exchange (gain)/loss	Hydro Aluminium Metal	(19)	(23)	(26)	(40)	(37)	(114)	(79)	(89)	(108)	(320)
Other effects	Hydro Aluminium Metal	-	(69)	-	-	-	-	-	-	(69)	-
Total impact	Hydro Aluminium Metal	3 929	(5 428)	(273)	1 868	733	(3 055)	1 448	(1 010)	97	(1 884)
Unrealized derivative effects on LME related contracts	Hydro Metal Markets	190	(850)	195	358	34	(146)	448	(121)	(107)	215
Transaction related effects	Hydro Metal Markets	-	-	-	-	50	4	35	31	-	120
Total impact	Hydro Metal Markets	190	(850)	195	358	84	(142)	483	(90)	(107)	335
Unrealized derivative effects on LME related contracts	Hydro Extrusions	(442)	543	84	(126)	(19)	6	113	(134)	59	(34)
Unrealized derivative effects on power contracts	Hydro Extrusions	(39)	58	50	(67)	5	(24)	(2)	(6)	3	(28)
Significant rationalization charges and closure costs	Hydro Extrusions	2	13	-	91	51	27	17	171	106	265
(Gains)/losses on divestments and other transaction related effects	Hydro Extrusions	(49)	1	(2)	(4)	20	-	1	4	(54)	25
Other effects	Hydro Extrusions	-	(74)	(2)	-	-	(107)	-	-	(76)	(107)
Total impact	Hydro Extrusions	(527)	541	130	(106)	57	(98)	128	35	38	121
Unrealized derivative effects on LME related contracts	Other and eliminations	(15)	(15)	19	47	(15)	(35)	25	(18)	36	(43)
(Gains)/losses on divestments	Other and eliminations	-	-	-	-	-	-	(25)	-	-	(25)
Net foreign exchange (gain)/loss	Other and eliminations	(21)	(26)	(83)	(91)	(115)	(143)	(130)	(155)	(221)	(543)
Other effects	Other and eliminations	-	-	-	15	-	26	-	-	15	26
Total impact	Other and eliminations	(36)	(41)	(65)	(29)	(131)	(151)	(130)	(174)	(170)	(585)
Adjusting items to EBITDA	Hydro	2 948	(5 966)	(108)	3 254	1 132	(3 152)	1 923	(936)	128	(1 033)
Impairment charges	Hydro Bauxite & Alumina	-	-	-	-	-	-	-	3 773	-	3 773
Impairment charges	Hydro Aluminium Metal	-	-	49	28	-	-	-	628	77	628
Impairment charges	Hydro Extrusions	-	-	-	258	-	-	-	23	258	23
Adjusting items to EBIT	Hydro	2 948	(5 966)	(59)	3 541	1 132	(3 152)	1 923	3 487	464	3 391
Net foreign exchange (gain)/loss	Hydro	(2 392)	1 129	(572)	(356)	1 985	789	(538)	(152)	(2 192)	2 084
Adjusting items to income (loss) before tax	Hydro	556	(4 838)	(631)	3 185	3 177	(2 362)	1 385	3 336	(1 728)	5 475
Calculated income tax effect	Hydro	(181)	1 432	213	(972)	(935)	716	(416)	190	492	(445)
Adjusting items to net income (loss)	Hydro	374	(3 406)	(418)	2 213	2 182	(1 646)	970	3 525	(1 236)	5 031

Operating segment information



Adjusted EBIT

NOK million	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Hydro Bauxite & Alumina	556	383	466	1 913	718	484	10	(586)	(221)	88	(610)	(269)	3 318	626	(1 013)
Hydro Energy	792	713	417	1 674	2 192	777	275	1 493	677	805	712	755	3 596	4 737	2 950
Hydro Aluminium Metal	1 185	2 246	3 684	4 111	4 183	6 349	5 837	4 097	3 328	2 550	727	1 264	11 225	20 467	7 869
Hydro Metal Markets	43	301	133	245	487	666	494	(134)	628	290	482	(229)	721	1 514	1 170
Hydro Extrusions	1 244	1 266	828	(122)	1 587	1 600	640	168	1 485	1 228	548	90	3 217	3 995	3 351
Other and Eliminations	(261)	(17)	(219)	(793)	3	(425)	356	(93)	(532)	(173)	(259)	(380)	(1 291)	(159)	(1 343)
Total	3 559	4 891	5 309	7 026	9 170	9 452	7 611	4 946	5 364	4 788	1 600	1 231	20 786	31 179	12 983

Adjusted EBITDA

NOK million	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Hydro Bauxite & Alumina	999	855	1 055	2 426	1 270	1 117	633	101	437	817	93	481	5 336	3 122	1 828
Hydro Energy	841	761	465	1 723	2 239	824	321	1 542	726	854	762	805	3 790	4 926	3 146
Hydro Aluminium Metal	1 754	2 807	4 263	4 676	4 765	6 977	6 463	4 756	3 972	3 215	1 379	1 937	13 500	22 963	10 502
Hydro Metal Markets	78	335	170	284	525	705	534	(91)	669	334	568	(38)	867	1 673	1 533
Hydro Extrusions	1 744	1 830	1 457	665	2 331	2 365	1 385	939	2 223	2 013	1 322	923	5 695	7 020	6 480
Other and Eliminations	(234)	10	(192)	(762)	35	(395)	384	(63)	(501)	(134)	(225)	(370)	(1 178)	(39)	(1 231)
Total	5 182	6 598	7 219	9 011	11 165	11 594	9 721	7 184	7 525	7 098	3 899	3 737	28 010	39 664	22 258

Operating segment information



EBIT

NOK million	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Hydro Bauxite & Alumina	583	467	407	1 830	1 094	657	(147)	(1 133)	(399)	(30)	(570)	(4 223)	3 288	471	(5 222)
Hydro Energy	851	716	435	1 724	2 424	793	526	878	466	628	677	634	3 727	4 621	2 406
Hydro Aluminium Metal	(171)	325	909	7 311	254	11 777	6 061	2 200	2 595	5 605	(721)	1 646	8 376	20 292	9 125
Hydro Metal Markets	19	299	(93)	500	297	1 516	300	(492)	544	432	(1)	(139)	725	1 621	835
Hydro Extrusions	1 220	1 269	852	(412)	2 114	1 059	510	16	1 427	1 326	420	33	2 929	3 699	3 206
Other and Eliminations	(271)	(43)	23	(868)	39	(385)	420	(63)	(402)	(21)	(128)	(206)	(1 158)	11	(758)
Total	2 233	3 034	2 533	10 086	6 222	15 418	7 670	1 405	4 233	7 939	(323)	(2 256)	17 887	30 715	9 592

EBITDA

NOK million	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Hydro Bauxite & Alumina	1 026	940	996	2 344	1 647	1 290	477	(446)	260	698	134	300	5 306	2 967	1 392
Hydro Energy	900	764	483	1 774	2 471	840	572	926	515	677	726	684	3 921	4 810	2 602
Hydro Aluminium Metal	500	1 037	1 642	8 260	836	12 405	6 736	2 888	3 239	6 270	(69)	2 946	11 440	22 866	12 386
Hydro Metal Markets	55	333	(56)	540	335	1 556	339	(449)	586	476	85	51	872	1 780	1 198
Hydro Extrusions	1 842	1 840	1 495	381	2 858	1 824	1 255	1 045	2 165	2 111	1 194	888	5 558	6 982	6 359
Other and Eliminations	(244)	(15)	50	(837)	71	(354)	449	(34)	(371)	17	(95)	(197)	(1 046)	132	(645)
Total	4 079	4 899	4 610	12 462	8 217	17 561	9 828	3 930	6 393	10 249	1 975	4 673	26 050	39 536	23 291

Operating segment information



Total revenue

NOK million	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Hydro Bauxite & Alumina	6 026	5 976	6 984	8 713	7 901	9 413	8 652	7 986	8 320	8 830	8 423	9 948	27 699	33 951	35 521
Hydro Energy	2 343	2 213	2 116	3 477	4 268	2 456	2 854	3 037	3 452	2 162	3 299	2 644	10 149	12 614	11 557
Hydro Aluminium Metal	8 953	9 467	9 964	14 164	11 094	24 583	16 678	13 129	15 236	18 211	11 366	13 562	42 548	65 483	58 375
Hydro Metal Markets	13 624	15 275	16 447	19 715	22 674	27 698	22 374	18 222	20 873	22 483	19 329	18 629	65 061	90 968	81 314
Hydro Extrusions	16 334	17 470	17 984	18 509	23 468	25 269	22 620	19 819	22 717	22 608	19 142	18 178	70 296	91 176	82 645
Other and Eliminations	(15 327)	(15 843)	(16 784)	(18 146)	(22 788)	(24 626)	(20 733)	(18 118)	(22 065)	(20 664)	(16 856)	(16 208)	(66 099)	(86 264)	(75 794)
Total	31 951	34 559	36 710	46 433	46 616	64 793	52 445	44 075	48 534	53 630	44 702	46 754	149 654	207 929	193 619

External revenue

NOK million	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Hydro Bauxite & Alumina	3 546	3 538	4 533	5 471	5 052	5 864	5 641	5 091	5 289	5 570	5 404	6 807	17 088	21 649	23 069
Hydro Energy	787	486	204	1 780	2 415	646	1 082	1 324	1 634	257	1 616	1 058	3 257	5 467	4 564
Hydro Aluminium Metal	762	621	310	3 681	(2 518)	8 640	4 327	2 638	1 528	5 444	1 741	3 936	5 373	13 087	12 649
Hydro Metal Markets	10 789	12 552	13 831	16 993	18 472	24 420	18 796	15 132	17 308	19 837	16 716	16 829	54 165	76 821	70 690
Hydro Extrusions	16 203	17 346	17 829	18 505	23 199	25 228	22 585	19 881	22 765	22 527	19 221	18 122	69 883	90 892	82 635
Other and Eliminations	(136)	16	4	2	(5)	(6)	15	9	10	(4)	3	3	(113)	13	13
Total	31 951	34 559	36 710	46 433	46 616	64 793	52 445	44 075	48 534	53 630	44 702	46 754	149 654	207 929	193 619

Operating segment information



Internal revenue

NOK million	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Hydro Bauxite & Alumina	2 479	2 438	2 452	3 242	2 848	3 549	3 011	2 895	3 031	3 260	3 019	3 141	10 610	12 303	12 542
Hydro Energy	1 556	1 727	1 912	1 697	1 853	1 810	1 772	1 713	1 818	1 905	1 683	1 586	6 891	7 148	6 993
Hydro Aluminium Metal	8 191	8 846	9 654	10 484	13 611	15 943	12 352	10 491	13 709	12 767	9 624	9 626	37 175	52 396	45 726
Hydro Metal Markets	2 835	2 723	2 616	2 722	4 201	3 277	3 578	3 091	3 565	2 647	2 612	1 801	10 896	14 147	10 625
Hydro Extrusions	131	125	154	3	269	41	36	(62)	(48)	81	(80)	56	413	284	10
Other and Eliminations	(15 191)	(15 858)	(16 788)	(18 148)	(22 783)	(24 620)	(20 748)	(18 126)	(22 075)	(20 660)	(16 860)	(16 211)	(65 986)	(86 278)	(75 806)
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Share of profit /(loss) in equity accounted investments

NOK million	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Hydro Bauxite & Alumina	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydro Energy	(23)	(32)	(25)	(25)	(28)	(39)	(32)	(81)	(67)	(59)	(57)	(110)	(104)	(180)	(293)
Hydro Aluminium Metal	147	513	336	513	383	626	340	200	154	264	179	135	1 509	1 549	733
Hydro Metal Markets	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydro Extrusions	-	-	-	-	-	-	-	-	-	1	1	3	-	-	5
Other and Eliminations	1	(20)	(31)	(15)	22	(184)	118	12	8	(25)	47	17	(65)	(32)	47
Total	125	462	280	473	377	403	426	131	95	181	171	46	1 340	1 337	492

Operating segment information

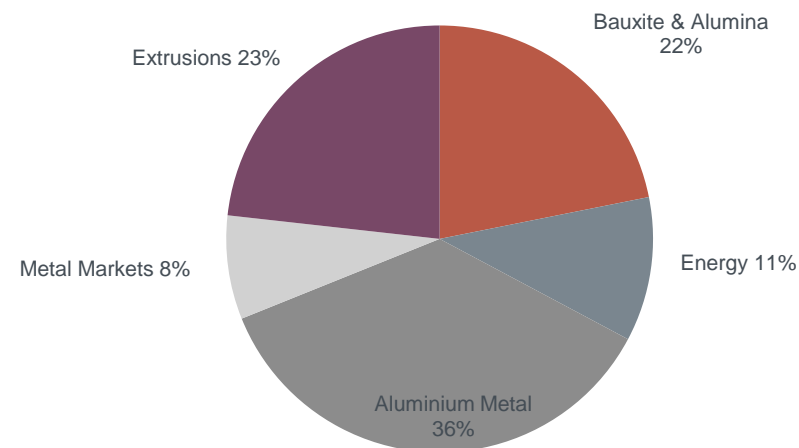


Return on average capital employed ¹⁾ (RoACE)

	Reported RoACE							Adjusted RoACE						
	2023	2022	2021	2020	2019	2018	2017	2023	2022	2021	2020	2019	2018	2017
Hydro Bauxite & Alumina	(12.7%)	1.3%	11.9%	5.4%	1.9%	4.6%	8.5%	(2.5%)	1.8%	12.0%	5.9%	2.5%	6.0%	8.5%
Hydro Energy ²⁾	10.4%	28.8%	26.5%	249.5%	13.4%	18.8%	17.5%	13.0%	29.5%	25.4%	8.7%	12.9%	18.8%	17.5%
Hydro Aluminium Metal	16.0%	35.1%	21.6%	1.9%	(3.9%)	5.6%	11.8%	13.8%	35.4%	28.3%	2.9%	(2.6%)	4.7%	12.6%
Hydro Metal Markets	7.6%	33.2%	24.0%	22.8%	20.7%	25.1%	18.6%	10.7%	31.0%	23.9%	21.6%	27.3%	19.4%	20.9%
Hydro Extrusions ³⁾	8.4%	10.5%	9.4%	1.3%	3.8%	5.3%	13.4%	8.8%	11.4%	10.3%	6.2%	5.7%	7.2%	6.6%
Hydro Group	4.1%	21.9%	16.3%	5.4%	(0.9%)	6.0%	11.2%	7.1%	22.2%	18.6%	3.7%	1.3%	6.6%	9.6%

Capital employed – upstream focus

NOK million	December 30 2023
Hydro Bauxite & Alumina	25 812
Hydro Energy	12 910
Hydro Aluminium Metal	42 647
Hydro Metal Markets	9 282
Hydro Extrusions	27 439
Other and Eliminations	(2 717)
Total	115 374



Graph excludes BNOK (2.7) in capital employed in Other and Eliminations

1) RoACE at business area level is calculated using 25% tax rate. For Hydro Energy, 50% tax rate is used for 2023, 40% for 2022 and 2021, 80% for 2020 and 2019, 70% for 2018, and 65% for 2017

2) Hydro Energy reported RoACE for 2020 higher than previous years due to the Lyse transaction

3) Hydro Extrusions reflected as 50% equity accounted investment Q1-Q3 2017 and fully consolidated from Q4 2017

Operating segment information



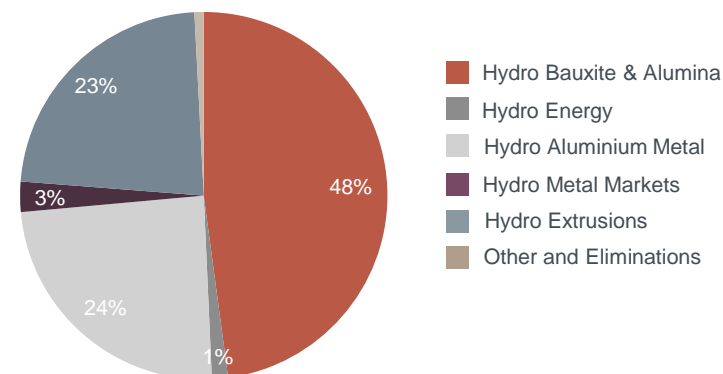
Depreciation, amortization and impairment

NOK million	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Hydro Bauxite & Alumina	443	472	589	514	553	633	624	687	659	729	703	4 523	2 018	2 496	6 614
Hydro Energy	49	48	48	49	47	47	47	48	48	49	49	50	194	190	196
Hydro Aluminium Metal	694	736	756	972	605	651	698	711	666	687	674	1 326	3 158	2 664	3 353
Hydro Metal Markets	36	35	37	41	38	39	39	44	42	45	87	194	149	161	368
Hydro Extrusions	628	573	645	804	746	767	748	1 036	741	792	779	859	2 649	3 297	3 171
Other and Eliminations	27	28	27	31	32	31	28	30	31	38	34	10	113	121	113
Total	1 876	1 892	2 102	2 411	2 020	2 168	2 185	2 556	2 186	2 340	2 327	6 962	8 281	8 929	13 815

Indicative depreciation currency exposure by business area

Percent	USD	EUR	BRL	NOK & Other
Hydro Bauxite & Alumina			100%	
Hydro Energy				100%
Hydro Aluminium Metal	30%		20%	50%
Hydro Metal Markets	20%	30%		50%
Hydro Extrusions	40%	35%		25%
Other and Eliminations		15%	10%	75%

Depreciation by business area 2023, 13.8 BNOK



Operational data



Hydro Bauxite & Alumina	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Alumina production (kmt)	1 540	1 586	1 579	1 600	1 519	1 536	1 579	1 559	1 550	1 542	1 522	1 571	6 305	6 193	6 185
Sourced alumina (kmt)	698	737	806	765	741	758	764	593	686	553	692	909	3 006	2 856	2 840
Total alumina sales (kmt)	2 269	2 349	2 355	2 655	2 251	2 305	2 344	2 220	2 171	2 153	2 229	2 487	9 628	9 121	9 040
Realized alumina price (USD) ¹⁾	287	287	284	393	391	430	364	342	367	373	349	349	313	382	359
Implied alumina cost (USD) ²⁾	235	244	233	310	327	378	337	337	347	336	345	331	254	345	340
Bauxite production (kmt) ³⁾	2 813	2 660	2 756	2 696	2 638	2 736	2 814	2 824	2 648	2 630	2 848	2 771	10 926	11 012	10 897
Sourced bauxite (kmt) ⁴⁾	1 103	1 676	1 472	1 427	856	1 674	1 220	1 861	1 078	1 100	1 204	2 001	5 677	5 611	5 383
Adjusted EBITDA margin ⁵⁾	16.6%	14.3%	15.1%	27.8%	16.1%	11.9%	7.3%	1.3%	5.3%	9.2%	1.1%	4.8%	19.3%	9.2%	5.1%

Hydro Energy	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Power production, GWh	2 857	2 374	1 688	2 136	2 730	1 602	1 330	2 002	2 610	2 431	2 216	2 440	9 055	7 664	9 697
Net spot sales, GWh	1 126	334	(401)	305	986	(433)	(703)	511	817	333	24	101	1 364	361	1 275
Nordic spot electricity price, NOK/MWh	435	423	704	969	1 090	1 211	1 757	1 414	934	647	949	515	634	1 370	642
Southern Norway spot electricity price (NO2), NOK/MWh	469	493	807	1 271	1 504	1 752	3 519	1 719	1 182	958	664	818	762	2 128	904
Adjusted EBITDA margin ⁵⁾	35.9%	34.4%	22.0%	49.5%	52.5%	33.6%	11.2%	50.8%	21.0%	39.5%	23.1%	30.4%	37.3%	39.0%	27.2%

1) 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

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) Adjusted EBITDA divided by total revenues

Operational data



Hydro Aluminium Metal ¹⁾	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Realized aluminium price LME, USD/mt	1 994	2 210	2 419	2 675	2 662	3 031	2 497	2 246	2 291	2 273	2 146	2 129	2 317	2 599	2 218
Realized aluminium price LME, NOK/mt ³⁾	17 008	18 528	20 910	23 087	23 542	28 461	24 706	22 813	23 566	24 417	22 456	23 143	19 819	24 739	22 995
Realized premium above LME, USD/mt ²⁾	264	332	449	565	786	870	801	577	503	456	432	348	400	756	435
Realized premium above LME, NOK/mt ²⁾³⁾	2 253	2 780	3 878	4 873	6 954	8 167	7 920	5 857	5 169	4 894	4 521	3 778	3 420	7 197	4 511
Realized NOK/USD exchange rate ³⁾	8.53	8.38	8.64	8.63	8.84	9.39	9.89	10.16	10.29	10.74	10.47	10.87	8.55	9.52	10.37
Implied primary cost (USD) ⁴⁾	1 500	1 525	1 450	1 600	1 550	1 500	1 550	1 650	1 700	1 725	1 750	1 775	1 500	1 550	1 750
Implied all-in primary cost (USD) ⁵⁾	1 825	1 900	1 925	2 175	2 450	2 500	2 350	2 250	2 275	2 250	2 200	2 125	1 950	2 375	2 225
Hydro Aluminium Metal production, kmt	539	561	573	571	540	532	543	522	499	506	512	514	2 244	2 137	2 031
Casthouse production, kmt	534	553	560	568	555	542	547	522	513	519	523	512	2 214	2 166	2 067
Total sales, kmt ⁶⁾	599	594	583	572	600	581	533	542	559	577	539	541	2 347	2 256	2 217
Adjusted EBITDA margin ⁸⁾	19.6%	29.6%	42.8%	33.0%	43.0%	28.4%	38.8%	36.2%	26.1%	17.7%	12.1%	14.3%	31.7%	35.1%	18.0%
Hydro Metal Markets	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Remelt production (1 000 mt)	143	154	132	144	151	158	124	115	132	146	176	166	572	548	620
Third-party sales (1 000 mt)	77	78	72	85	72	74	76	81	78	81	92	81	311	304	331
Hydro Metal Markets sales excl. ingot trading (1 000 mt) ⁷⁾	742	735	675	681	731	710	635	614	674	691	652	645	2 833	2 691	2 662
Hereof external sales excl. ingot trading (1 000 mt)	588	607	573	574	610	607	536	530	566	590	567	567	2 342	2 284	2 290
External revenue (NOK million)	10 789	12 552	13 831	16 993	18 472	24 420	18 796	15 132	17 308	19 837	16 716	16 829	54 165	76 821	70 690
Hydro Extrusions	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2021	Year 2022	Year 2023
Hydro Extrusions external shipments (1 000 mt)	338	342	315	301	347	338	301	265	301	293	260	236	1 296	1 251	1 090
Hydro Extrusions – Pro-forma adjusted EBIT per mt, NOK	3 680	3 706	2 629	(404)	4 568	4 740	2 123	636	4 937	4 184	2 107	383	2 482	3 194	3 074
Adjusted EBITDA margin ²⁾	10.7%	10.5%	8.1%	3.6%	9.9%	9.4%	6.1%	4.7%	9.8%	8.9%	6.9%	5.1%	8.1%	7.7%	7.8%

1) 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

2) Average realized premium above LME for casthouse sales from Hydro Aluminium Metal

3) Including strategic hedges /hedge accounting applied

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

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

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

7) Includes external and internal sales from primary casthouse operations, remelters and third-party Metal sources

8) Adjusted EBITDA divided by total revenues

Hydro Extrusions, information by business area



Precision Tubing	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Year 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Year 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2023
Volume (kmt)	35	33	30	29	127	31	28	30	28	117	31	32	31	29	124
Operating revenues (NOKm)	1 718	1 742	1 715	1 822	6 997	2 091	2 038	2 129	2 020	8 278	2 279	2 429	2 344	2 204	9 256
Adjusted EBITDA (NOKm)	210	173	184	56	622	184	95	135	50	464	152	185	259	131	727
Adjusted EBIT (NOKm)	157	103	115	(38)	337	82	(3)	35	(51)	63	61	87	161	37	346

Building Systems	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Year 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Year 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2023
Volume (kmt)	21	22	20	22	85	24	24	19	18	85	19	19	17	19	75
Operating revenues (NOKm)	2 315	2 434	2 268	2 448	9 465	2 854	3 168	2 657	2 617	11 296	3 056	3 208	2 736	2 938	11 939
Adjusted EBITDA (NOKm)	245	299	212	161	918	264	287	152	171	873	261	240	170	256	927
Adjusted EBIT (NOKm)	149	196	108	44	497	156	179	43	57	435	149	116	49	126	440

Other and eliminations	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Year 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Year 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2023
Adjusted EBITDA (NOKm)	(78)	(47)	(65)	(90)	(280)	(47)	(83)	(47)	(91)	(268)	(22)	(44)	(26)	(86)	(178)
Adjusted EBIT (NOKm)	(82)	(51)	(68)	(94)	(294)	(50)	(86)	(50)	(94)	(281)	(25)	(48)	(29)	(109)	(211)

Extrusion Europe	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Year 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Year 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2023
Volume (kmt)	144	147	129	130	550	151	144	119	106	520	124	121	99	92	436
Operating revenues (NOKm)	6 529	6 916	6 827	7 527	27 799	9 532	10 147	8 696	7 787	36 162	9 035	8 926	6 864	6 625	31 450
Adjusted EBITDA (NOKm)	705	716	563	471	2 456	1 035	1 025	669	480	3 209	867	819	327	305	2 318
Adjusted EBIT (NOKm)	501	502	318	203	1 525	782	767	415	231	2 196	623	564	79	26	1 291

Extrusion North America	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Year 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Year 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Year 2023
Volume (kmt)	137	140	136	120	534	142	141	134	112	529	126	121	113	95	455
Operating revenues (NOKm)	5 904	6 501	7 319	7 002	26 726	9 096	10 263	9 412	7 750	36 522	8 684	8 304	7 535	6 622	31 146
Adjusted EBITDA (NOKm)	663	689	562	67	1 980	895	1 042	476	330	2 743	965	813	592	317	2 686
Adjusted EBIT (NOKm)	518	517	355	(238)	1 152	618	743	196	25	1 582	677	508	288	11	1 484

Assumptions behind scenarios in profitability roadmaps



Scenarios are not forecasts, but illustrative earnings, cash flow and return potential based on sensitivities

- Starting point – AEBITDA Q3-23 LTM
- Cash flow calculated as AEBITDA less EBIT tax and long-term sustaining capex, less lease payments and interest expenses for the Hydro Group
 - Tax rates: 25% for business areas, 40% for Energy, 28% (LTM) for Hydro Group
- ARoaCE calculated as AEBIT after tax divided by average capital employed
 - Average capital employed assumed to increase with growth capex and return-seeking capex above LT sustaining CAPEX 2024-2026
- The actual earnings, cash flows and returns will be affected by other factors not included in the scenarios, including, but not limited to:
 - Production volumes, raw material prices, downstream margin developments, premiums, inflation, currency, depreciation, taxes, investments, interest expense, competitors' cost positions, and others
- External scenario is based on CRU price and premium assumptions and S&P Global FX assumptions, with adjustments as specified in the footnotes

Price and FX assumptions

Assumptions used in scenarios	Q3 2023 LTM	2024 forward real	2030		
			Forward real 2023	Last 5 year average	CRU / S&P Global real 2023
LME, USD/mt	2,240	2,240 (deflated by 2.5%)	2,300 (deflated by 2.5%)	2,180	2,560 (deflated by 2.5%)
Realized premium, USD/mt	490	380 ¹⁾	380 ¹⁾	430	570 ⁴⁾ (deflated by 2.5%)
PAX, USD/mt	350	320 (deflated by 2.5%)	340 ²⁾ (deflated by 2.5%)	330	380 (deflated by 2.5%)
Caustic soda, USD/mt	650	320 ¹⁾	320 ¹⁾	430	410 (deflated by 2.5%)
Coal, USD/mt	150	110 (deflated by 2.5%)	100 ³⁾ (deflated by 2.5%)	130	100 ⁷⁾ (deflated by 2.5%)
Pitch, EUR/mt	1,260	970 ¹⁾	970 ¹⁾	840	920 ⁵⁾ (deflated by 2.5%)
Pet coke, USD/mt	610	470 ¹⁾	470 ¹⁾	450	500 ⁵⁾ (deflated by 2.5%)
NO2, NOK/MWh	1,150	770 ⁶⁾	650 ⁶⁾	840	650 ⁷⁾
Nordic system, NOK/MWh	850	480 (deflated by 2.5%)	400 (deflated by 2.5%)	620	400 ⁷⁾ (deflated by 2.5%)
USDNOK	10.41	10.68	10.38	9.28	8.15 ⁸⁾
EURNOK	11.11	11.77	12.25	10.35	9.58 ⁸⁾
BRLNOK	2.06	2.19	2.15	1.93	1.47 ⁸⁾

1) Spot price. 2) % of LME forward price deflated by 2.5%. 3) 2026 nominal forward price deflated by 2.5% 4) Realized premium based on CRU product premiums 2023 5) Historic average % of LME, using CRU LME price deflated by 2.5%
6) Based on Nordic system forward price and constant NO2-Nordic system area price 7) Based on price from forward case 8) Based on S&P Global
Source: Republished under license from CRU International Ltd. and S&P Global

Next event

First quarter results
April 24, 2024

For more information see
www.hydro.com/ir

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Industries that matter