

Unique position in a new reality

Capital Markets Day 2022

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.

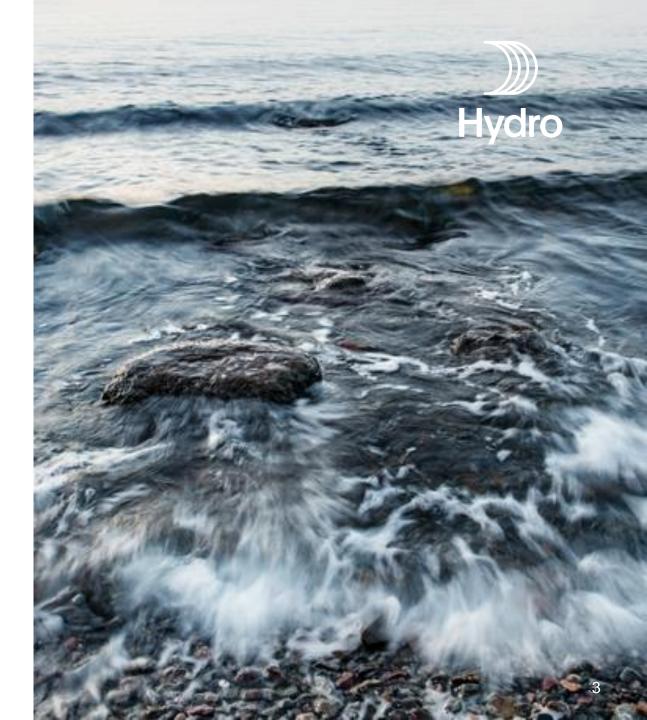
Although we believe that the expectations reflected in such forward-looking statements are reasonable, these forward-looking statements are based on a number of assumptions and forecasts that, by their nature, involve risk and uncertainty. Various factors could cause our actual results to differ materially 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.

Agenda

All times GMT

08.00 - 08.05Welcome Unique position in a new reality 08.05 - 09.0509.05 - 09.35Q&A and Break Ambitious pathway to net-zero 09.35 - 10.50and sustainable value creation 10.50 - 11.20Q&A and Break Increasing robustness of cash 11.20 - 12.10 flows and returns 12.10 - 12.30 Q&A





Unique position in a new reality

Capital Markets Day 2022 Hilde Merete Aasheim President and CEO

Delivering on key strategic priorities



Lifting profitability, driving sustainability



Peer range -----NHY 1) TSR calculated including reinvesting dividends and Hydro and all peers shown in same currency (USD).

2) Peer group includes Nalco, Rusal, Alcoa, Century Aluminium, Hindalco, Chalco, Grupa Kety, Constellium, Kaiser, ProfilGruppen, Tredegar Corporation Source: Refinitiv retrieves

Stock price index (incl. dividend) / TSR¹)

Hydro outperforms peers on total shareholder returns



⁴⁰⁰ Annualized Total 350 Norsk Hydro 98% 19% 300 Peer range²⁾ (7) - 80%(2) - 16%250 200 150 100 50 0 Jan-19 Jul-19 Jan-20 Jul-20 Apr-19 Oct-19 Apr-20 Oct-20 Apr-22 Jul-22 Oct-22 Jan-21 Jan-22 Apr-21 Jul-21 Oct-21

Two megatrends impacting business environment



Shifting external environment creates both risks and opportunities

1 Geopolitical and geoeconomic tensions







Regulatory developments value reliable supply chains, renewables and low-carbon aluminium

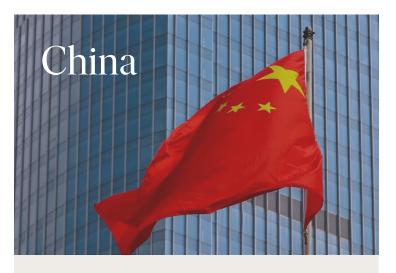




- RePowerEU
- Critical Raw Materials Act
- Renewable Energy Directive
- Eco-design for Sustainable Products
 Regulation
- Corporate Due Diligence Directive



- Inflation Reduction Act driving investments in renewable energy, new energy solutions and climate technologies
- Infrastructure and job creation act encouraging investments in road and rail, electrification, EV infrastructure



- Lifting national security and selfsufficiency as top priority
- Green/clean technology lifted as future trade opportunity
- More ambitious targets for renewable energy and measures to improve industrial energy efficiency

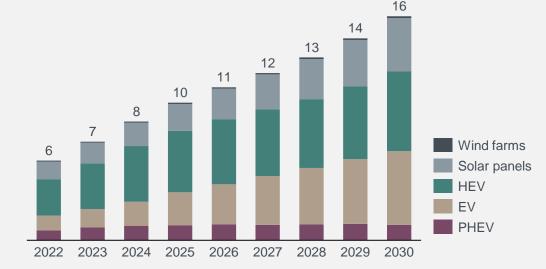
Green transition drives aluminium consumption

Semis demand growth driven by transport and electrical

Global semis demand 2022-2030 In million tonnes 122 3 Transport 8 Construction 2 Packaging +24 Foil stock Electrical Consumer durables Machinery & Equipment 2 Other Africa China Asia Austral- C&S Europe North 2030 2022 asia America America ex. China CAGR 2.8 2.8



Additional aluminium demand from green transition¹⁾ In million tons



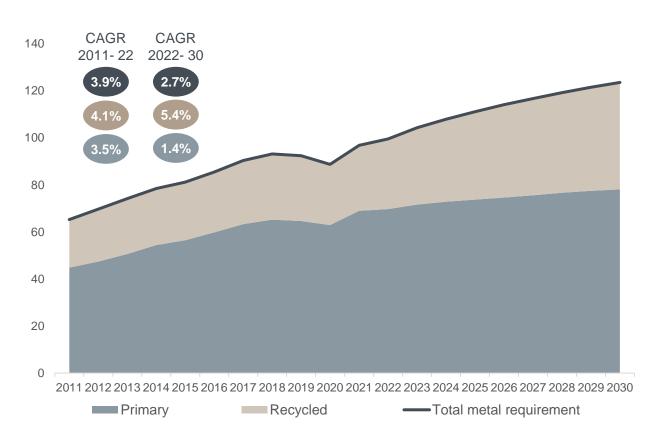
1) Electrical vehicles (EV), hybrid electrical vehicle (HEV), plug-in hybrid electrical vehicle (PHEV)

Source: Hydro analysis, CRU, Goldman Sachs

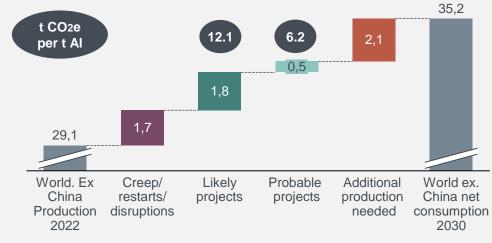
Future consumption growth increasingly met with recycling

New primary capacity still necessary to balance markets

Global aluminium consumption In million tonnes

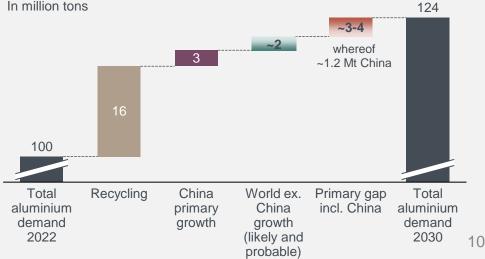


Majority of announced primary growth based on high carbon energy sources In million tons



Largely balanced markets

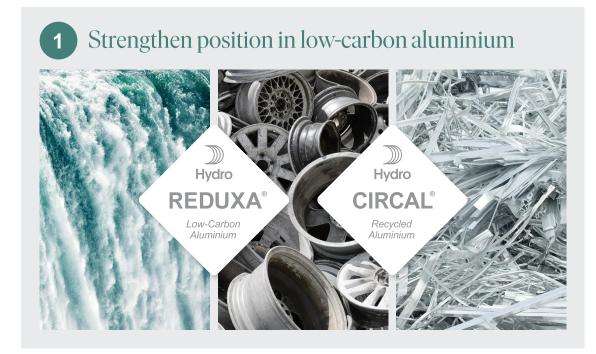
Expected likely and probable projects are developed In million tons



Hydro's strategic direction toward 2025

)))) Hydro

Seizing opportunities where our capabilities match megatrends







Lifting profitability, driving sustainability

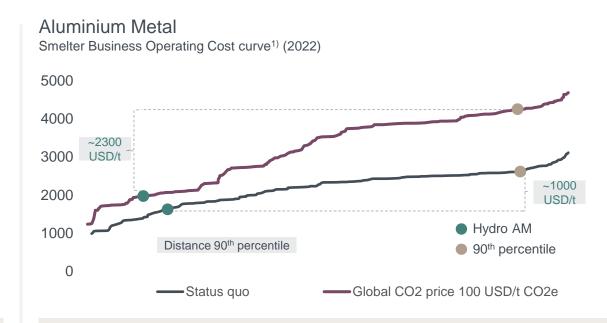


Steeper cost curve, low-carbon demand and robust position drive margin potential



Bauxite & Alumina Alumina Business Operating Cost curve (2022) Alunorte back in 1st 750 quartile after fuel switch ~200 USD/mt, 500 ~245 USD/mt post fuel switch ~115 USD/t. ~140 USD/t 250 post fuel switch Hydro B&A post fuel switch Distance 90th percentile Hydro B&A 0 90th percentile Global CO2 price 100 USD/t CO2e Status quo

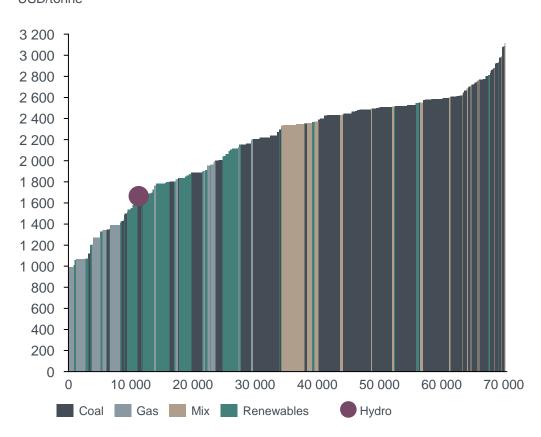
- Competitively positioned on the global cost curve at the 30th percentile
- Fuel switch & electrical boilers project reduce carbon emissions by 30% by 2025
- Global carbon price would improve relative competitive position in Hydro B&A



- Competitive relative position on the global cost curve at the 17th percentile
- Strong portfolio of low-carbon smelters
- Global carbon price would improve relative competitive position in Aluminium Metal

Long term renewable power contracts ensure robustness

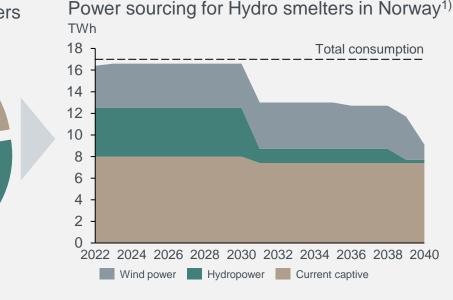
Smelter business operating cost curve 2022 USD/tonne



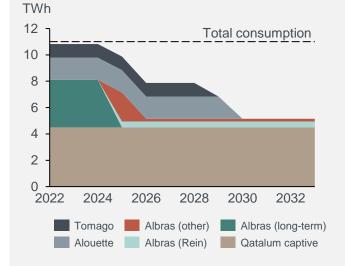
Power sourcing for smelters in Europe

Spot/Short-term

Lona-term



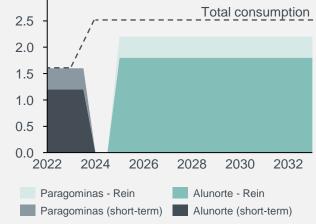
Power sourcing for Hydro JV smelters²⁾ Power sour



Captive

Medium-term

Power sourcing for Hydro B&A³) TWh 3.0

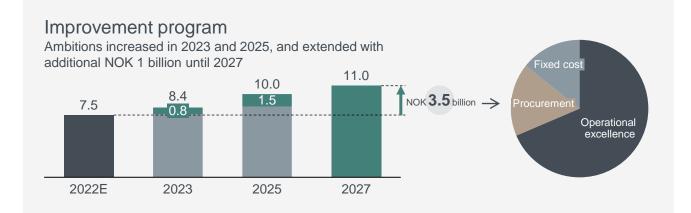


Source: CRU, Hydro analysis

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

Increased improvement ambitions

Strengthening future competitiveness and positioning with additional NOK 0.8 and 1.5 billions in 2023 and 2025. Further stretched with additional NOK 1.5 billion by 2027



Commercial initiatives Ambition extended with additional NOK 0.5 billion until 2027 Market 3.0 Greener share 2.5 products arowth NOK 1.4 billion 1.6 Product mix and margins 2022E 2025 2027

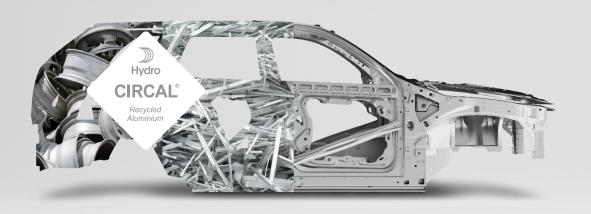
2018 baseline on accumulated improvements until 2021, 2021 baseline from 2022. Rebase effect of NOK 0.7 billion for improvement program. NOK 2 billion in annual average CAPEX to meet remaining improvement and commercial ambitions.



Increasing PCS recycling ambitions by 140kt

- Delivering on our recycling ambition several investment decisions made, IRR 15-30%
- Increasing ambitions to use PCS by 140kt, lifting EBITDA ambitions by NOK 1 billion





Recycling 2025 and 2027 targets

All approved project pipeline

PCS usage and ambition Tonnes (000s)





1) Baseline 2020 PCS volume reduced from 290 to 280 kt due to reclassification

Extrusions on track to deliver NOK 8 billion EBITDA 2025



- Automotive, systems business and commercial transport
- Exited non-attractive operations and segments

Cost reductions Dedicated improvement program for procurement and operational excellence (EBS)

Growth projects

- Capacity and capabilities in attractive segments such as E-mobility and recycling
- Strengthening flagship plants in the portfolio

Sustainability

- Improvements in margins and market share from greener products
- Creating "closed-loops" with customers



Extrusions 2025 growth target



targot 2020

Growing in energy

Leveraging strong platform and capabilities

Energy Operations & Energy Markets

- Approx 3.5 BNOK earnings "platform" (LTM adjusted to normal production and no area price gain)
- In addition, commercial contribution of approx. 400 MNOK average last 3 years
- USD 2.7 billion contracted revenues¹⁾
- NOK 400 450 million estimated EBITDA contribution from projects in construction in 2026
- NOK 2.5 billion remaining capex for projects in construction

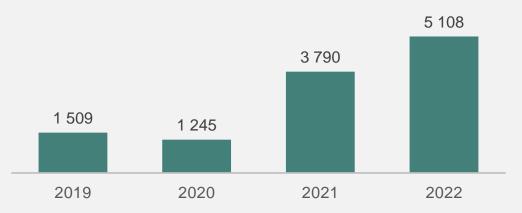
- Establishing as developer, owner and operator of green hydrogen production facilities
- Large fuel switch potential next decade internally, enabling hub development for external customers

Batteries

- NOK 3 billion capital allocated 2020-2025
- Targeting 3x value uplift on equity invested by 2025



Adjusted EBITDA Energy 2019 – Q3 2022 LTM NOK million



Driving sustainability: Future-proofing our company





- On track to meet 30 percent reduction in scope 1 and 2 CO₂e by 2030
- Net-zero by 2050 or earlier
- Reduce specific scope 3 emissions by 30% by 2030



- 1:1 reforestation on track
- No net-loss biodiversity ambition for new projects
- Tailings dry backfill technology reducing the need for permanent landfilling
- Continued focus on waste elimination, including new project on recycling bauxite residue



- 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

New target to reduce specific scope 3 emissions by 30% by 2030

Reducing footprint of purchased raw materials

Reducing footprint of external purchased metal is the main source to reduce scope 3 emissions, in addition to external alumina, alloying elements, anodes, caustic soda, fuel and other goods and services

Increasing the use of post-consumer scrap

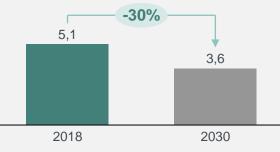
Replacing ingots and pre-consumer scrap input with post-consumer scrap drives down the inherent footprint of the product.

Alunorte fuel switch and decarbonization

The planned fuel switch and decarbonization will lead to less emissions from production and transportation of fossil fuels



Upstream scope 3 GHG target pr tonne aluminium*

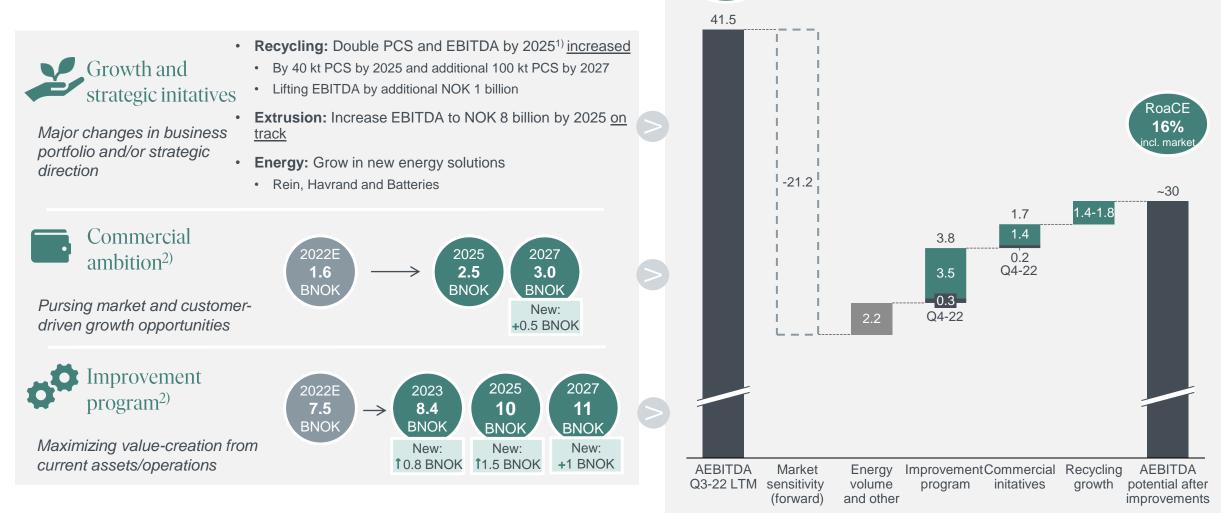


*Per tonne delivered from Aluminium Metal and Hydro Extrusions combined

Upstream scope 3 GHG target Million tonnes CO₂e



Improvements and growth drive higher profitability



Profitability roadmap

RoaCE 27%

AEBITDA Q3-2022 LTM - 2027 BNOK, excluding new energy

1) 2020 baseline

2) 2018 baseline on accumulated improvements until 2021, 2021 baseline from 2022.~2 BNOK in annual average CAPEX to meet remaining improvement and commercial ambitions

Well positioned for future value creation





- Global, highly skilled workforce
- Strong focus on development, diversity, inclusion and belonging

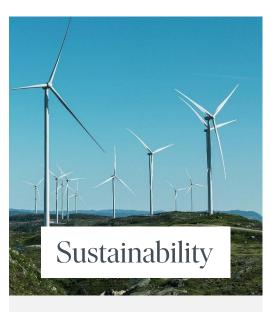


- Leading innovation throughout value chain
- Product development in collaboration with customers
- Clear decarbonization roadmap



Market position

- Close customer collaboration and partnerships
- Integrated value chain
- Strong positions with Europe and North America
- Value added products



- Comprehensive lowcarbon aluminium offerings
- Renewable energy foundation
- Leading post-consumer scrap competence



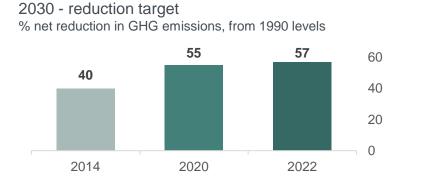
Energy Leveraging energy capabilities and portfolio

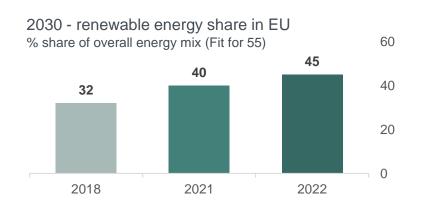
Capital Markets Day 2022 Arvid Moss EVP Energy

Geopolitics accelerating the energy transition

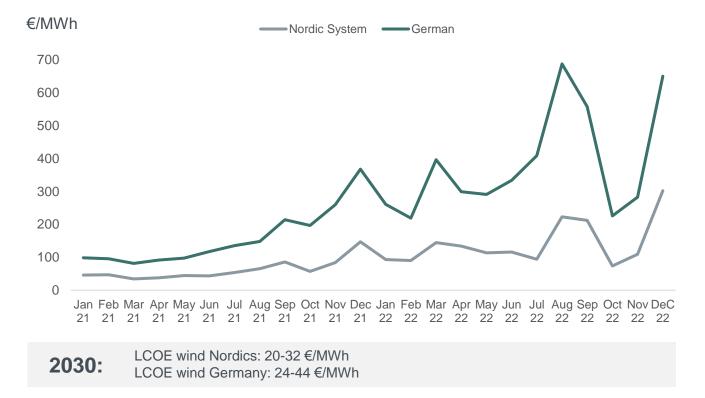
The war in Ukraine is putting the global energy system to a test

EU increasing 2030 renewables targets



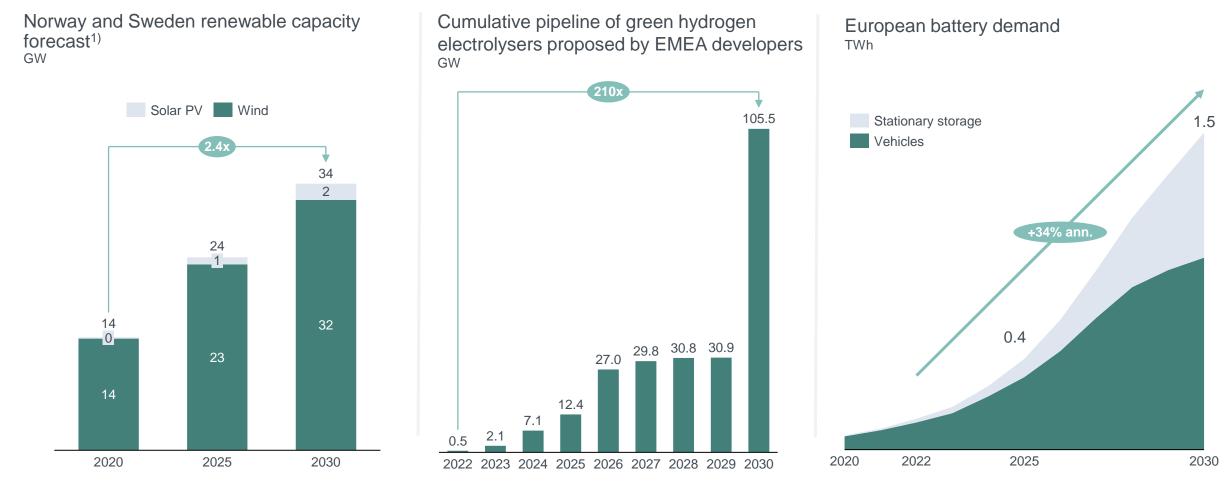


European power prices 2021 – 2022



Hvdro

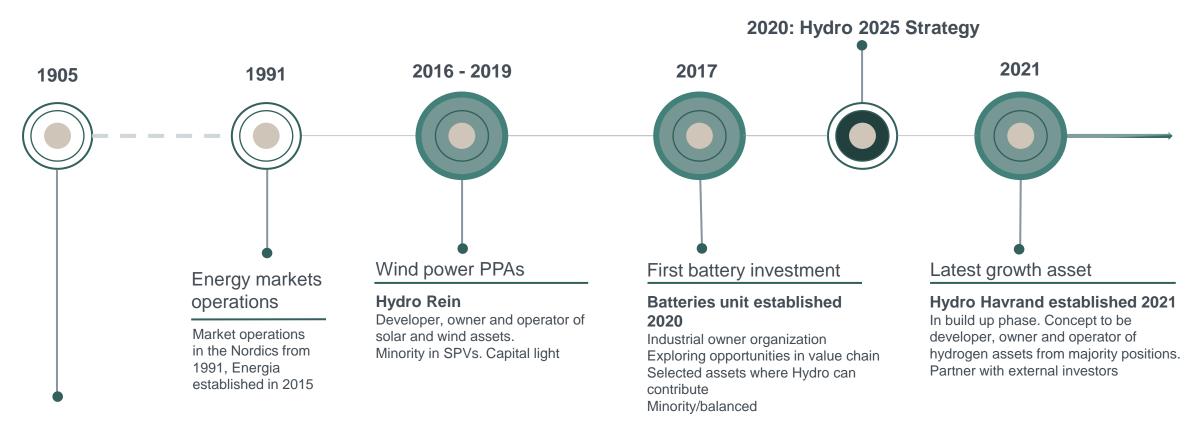
Expect strong demand for renewables and storage/energy carrier solutions



Source: BloombergNEF, Rystad Energy (scenario tracking UN IPCC 1.6 DG scenario; not constrained by potential supply chain limitations) 1) Non-hydro Hvdro

Pursuing growth opportunities at different stages

Realizing value potential in Batteries, Hydro Rein & Hydro Havrand



Power operations & projects

Hydro

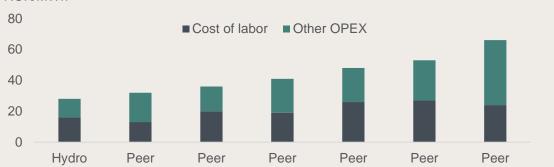
Strong production platform, market performance and growth opportunities



Excellent hydropower operations & growth projects

 14.0 TWh Operations of power assets in Norway. 9.4 TWh equity owned hydropower. Karmøy 4 TWh smelter control room service 	NOK 1 billion Potential Hydro investments in Lyse Kraft DA giving 150 MW and 60 GWh supporting green shift and high-end volatile market	200 GWh Potential increased production in Fortun by building pumping power station at Illvatn and Øyane		Top 5 in Europe on PPAs Among the largest PPA buyers in Europe, measured in MW over the last 6 years	Market analysis, market operations, sourcing, trading & portfolio management	Among the top 10% largest energy trading companies and managing the 2nd largest power consumption portfolio in Brazil
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Industry leader on cost and operational performance



Resource spend Norwegian hydropower players 2020 NOK/MWh

1) Based on a normal production of 9.4 TWh with a 2021 seasonal profile at last 12 months prices of NOK 2 / kWh Sources: THEMA, Schneider Electric: Neo Network PPA Deal Tracker 2017-2022

Strong platform for value creation

EBITDA "platform" from operations:

Leading power market player

- 8 TWh on long term contracts (predictable prices) + 2 TWh (avg.) net long spot volume in merchant market:
- App. NOK 3.5 billion LTM adjusted with normal production and no area price gain¹⁾
- Commercial contribution in addition of app. NOK 400 million average last 3 years
- Well positioned portfolio to benefit from area price differences
- Maturing portfolio growth options; emphasis on flexible production & 26 selected geographies

Energy assets and unique competence drive value creation across Hydro



Strong platform for production, sourcing and advisory

L

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

<u>₹</u>

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 CO₂footprint 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

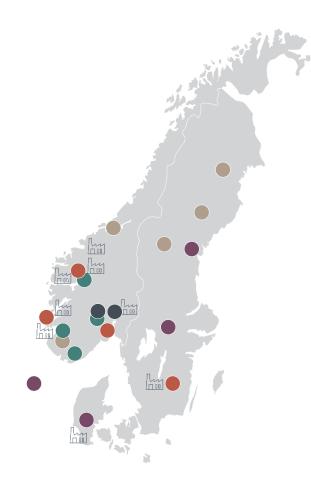
Hydropower in the Nordics: 4.8 TWh

Wind power in the Nordics: 4.3 TWh

Hydro Rein projects under development

Wind power in the Nordics: 2.8 TWh¹⁾

Solar power in the Nordics: 0.4 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

1) Sørlige Nordsjø II not included

Equity power Sourcing

Hydro Rein projects



Hydro Rein: Delivering on Hydro's ambitions in renewable growth. Active capitalization process ongoing



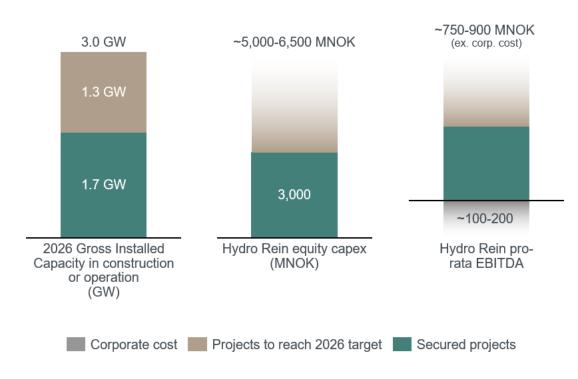
Significant progress last 24 months

construction



annually

Hydro Rein EBITDA estimates 2026/27. CAPEX 21-26



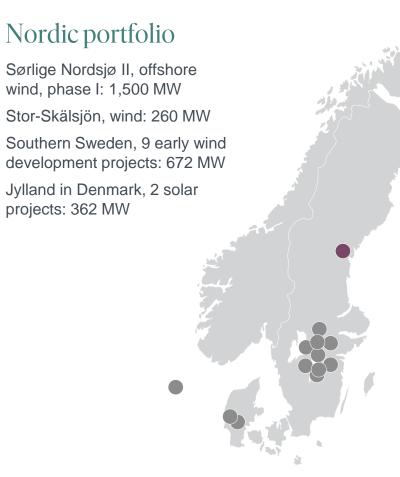
All financial figures in MNOK has been converted by using fixed FX of 9.7 on EUR/NOK and USD/NOK Capex and EBITDA figures for indicative/pipeline projects to secure the additional 1.3 GW are based on high-level multiples for targeted wind and solar project in Nordics and Brazil, based on an assumed technology mix, targeted ownership share and leverage. All figures exclude Energy Solutions and Offshore wind.

contribution from

projects in construction

Hydro Rein: Focus on early-stage development portfolio in the Nordics





Developing renewable power to fuel greener industries



- Focus on early phase opportunities
- Development model based on strategic partnerships with relevant stakeholders, from landowners to customers



Portfolio based on complementary technologies, including growing position in solar PV



Increasing share of services, from development to operations



Large portfolio of complementary "inside the fence" projects (storage, onsite generation, efficiency)

Focused battery strategy: Grow within sustainable battery materials by leveraging Hydro's capabilities



STRATEGIC GROWTH



Active industrial ownership leveraging capabilities: Industrial scaling of innovative technologies, energy expertise, automotive experience, battery investor Hydro foundation: Mission, values, and group finance, M&A, HSE, and sustainability

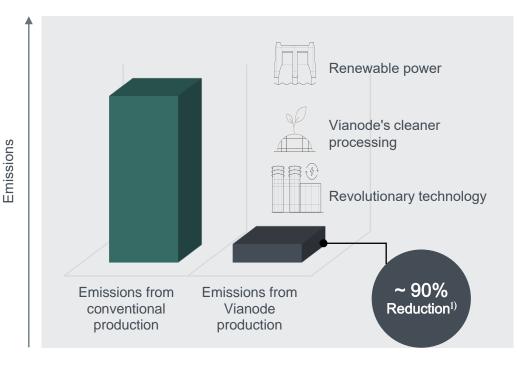
Vianode targeting the largest undersupply in the battery value chain. First full-scale production line underway



Description Status Capacity All process steps Small size industrial R&D Pilot equipment In operation Samples Located in Kristiansand, Norway All process steps Industrial environment Industrial Customer In operation New R&D center samples pilot Located at Kristiansand, Norway Full scale production lines Operational ~20,000 Vianode Located at Herøva, Phase 1 from 2024 EVs per year Norway Modular design for rapid Operational ~1 million Vianode expansion based upon Phase 2 from 2026 EVs per year phase 1 Vianodeby ~2 million 2030 EVs per year

Enabling near zero emissions

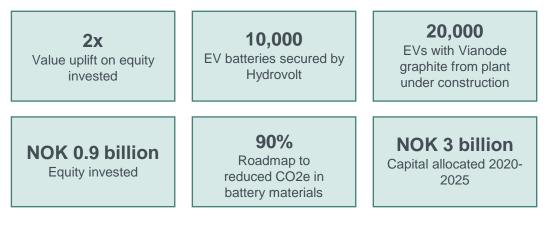
Emissions reduction compared to the production process in today's market



Batteries delivering on strategy and stated value creation potential



Significant progress last 24 months



Batteries in 2027

3x Value uplift on equity invested by 2025 **150,000** EV batteries recycling capacity in Hydrovolt **1,000,000** EVs with Vianode graphite capacity

Key capabilities



Scaling capability, energy expertise and automotive experience



Working in strong partnerships to build scale and accelerate growth

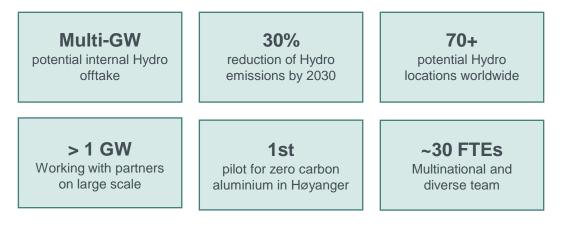


Leading sustainability expertise – driving and implementing sustainability ambitions

Hydro Havrand: Creating a competitive green hydrogen player



First mover position from industrial consumption in Hydro



Hydro Havrand in 2027

International
Plants in operation in
several marketsFuel switch
Proven for key industrial
processesPartnerships
Both capital and
projects

Strategic approach and overview



Establishing as a developer, owner and operator of green hydrogen production facilities.

Initiating first-mover projects to decarbonize Hydro with green hydrogen. Scaling and exploring next steps in partnerships



Ongoing technology qualification of hydrogen for decarbonization of aluminium value chain, through laboratory and full industrial scale tests



Maturing projects in Norway and internationally, working in strong partnerships to build scale and accelerate growth



Incentives for scaling the market is emerging, and will unlock demand

REPower EU and US IRA act demonstrate that political ambitions for green hydrogen are increasingly supported by financial mechanisms

Value creation across the energy space going forward

1 Expanded footprint in the Nordics in terms of power and market operations, projects and sourcing

2 Sourcing and management of power and fuels for Hydro operating assets across geographies

3 Hydro Rein successfully established as separate company with external capital and partners

4 Hydro Havrand developing portfolio, with external capital and partners delivering speed in green fuel switch in industries and transport

5 Preferred partner for industrializing sustainable battery material businesses in Europe





Ambitious pathway to net-zero and sustainable value creation

Capital Markets Day 2022 Hilde Merete Aasheim President and CEO

Product qualities and roadmap to zero make aluminium key for green transition

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



Infinitely recyclable with very low energy need and high resource efficiency

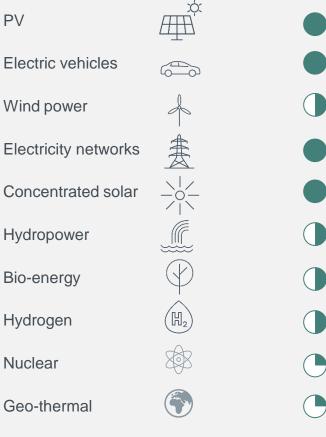


Aluminium based on renewables has **lower footprint** than global average



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

Importance of aluminium within key green transition technologies¹

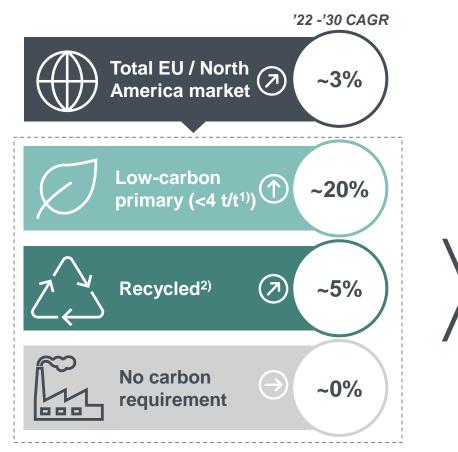


Demand for greener aluminium accelerates

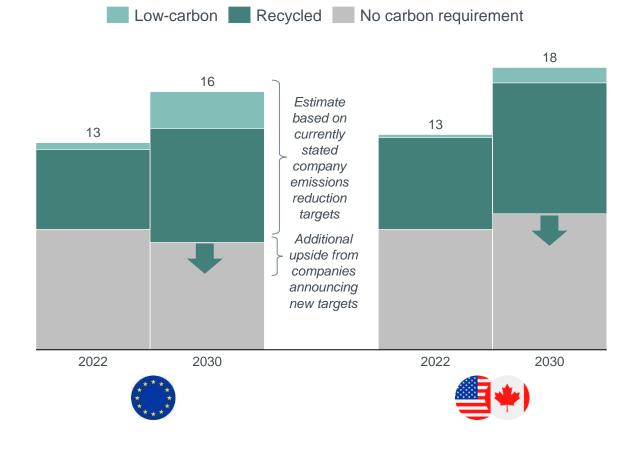


Low-carbon and recycled aluminium to make up majority of EU and North America market by 2030

Greener demand growth is outpacing the rest of the market



Estimated demand from currently stated company emissions reduction targets – demand upside as new targets are expected



Carbon reduction targets growing across market segments



Estimated demand based on currently stated ambitions

Europe and North America low-carbon ¹⁾ and recycled <u>GAGR</u> Share of low-carbon ¹⁾ aluminium demand by sector (million tonnes) - estimate ('22-'30) and recycled				
	18	~6%	50-60%	
	Other	~3%	35-45%	
	Consumer dur.	~5%	70-80%	
	Electrical	~9%	30-40%	
11	Packaging and foil stock	~3%	60-70%	
	Construction	~6%	60-70%	
	Transport	~10%	40-50%	į
2022	2030			

Examples of front runners with ambitious 2030 targets

	Scope 3 reduction targets	Specific aluminium commitments
Ś	CO2e neutral value chain	10% of primary at <3 t/t
Vestas.	45% per MWh generated	
lightsourcebp	52% per MW constructed	
[®] PEPSICO		10% of primary at <3 t/t
Ball		10% of primary at <3 t/t
VELUX.	50% for absolute emissions	Max. 2.0 kg carbon emitted / kg
CONTROLLE	30% for absolute emissions	
	20% for absolute emissions	
PORSCHE	CO2e neutral balance sheet	
Mercedes-Benz	CO2e neutral (2039)	
(VOI VO	25% per vehicle (2025)	10% of primary at <3 t/t
٢	22% per vehicle	
	30% per vehicle	

Hydro provides products with low emissions

Primary aluminium produced on renewable energy



4-6 times

lower than the world global primary average

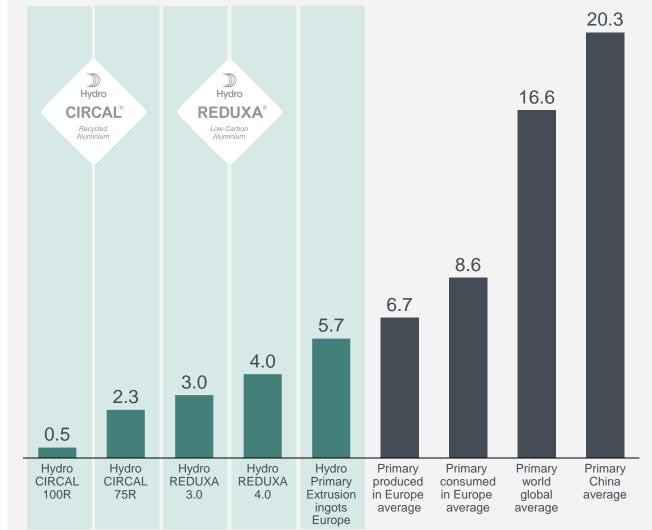
Recycled aluminium from Hydro



7 times for 75R, and 33 times for 100R

lower than the world global primary average

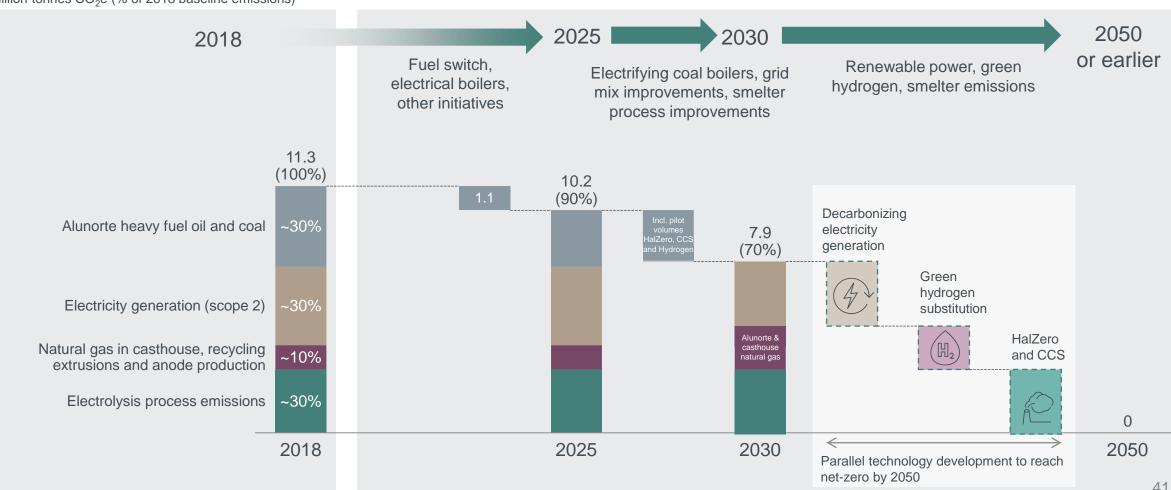
Kilos of CO₂e emissions per kilo aluminium



Hydro

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 equity Million tonnes CO₂e (% of 2018 baseline emissions)

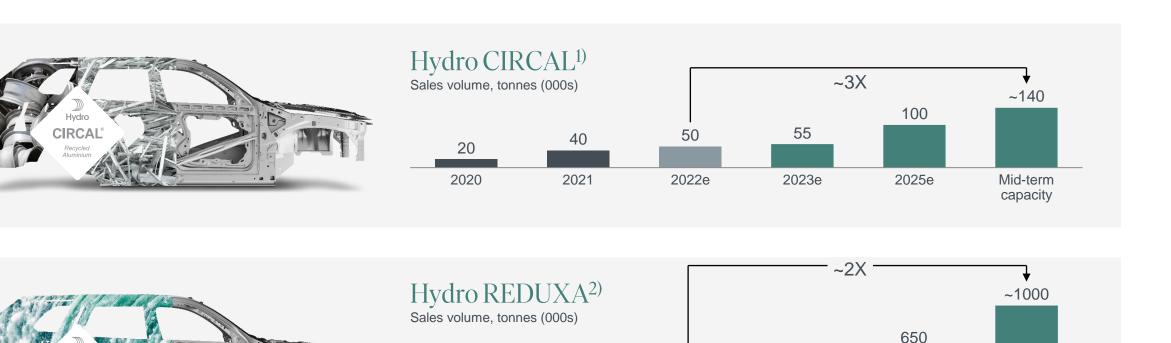


⁴¹

Ambition to more than double sales of greener products to meet market demand

75

2020



250

2021

430

2022e

450

2023e

2025e

Hvdro

REDUXA



Mid-term capacity

Hydro

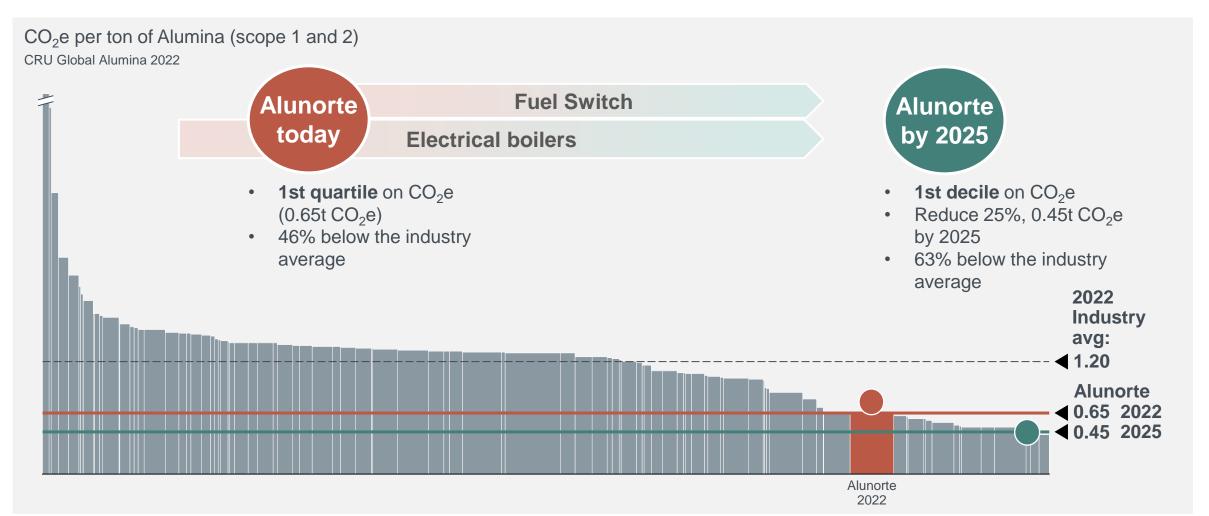


Bauxite & Alumina Sustainability

Capital Markets Day 2022 John Thuestad EVP Bauxite & Alumina

Decarbonization ambition: Alunorte is 1st quartile in CO_2e with a clear plan to 1st decile by 2025

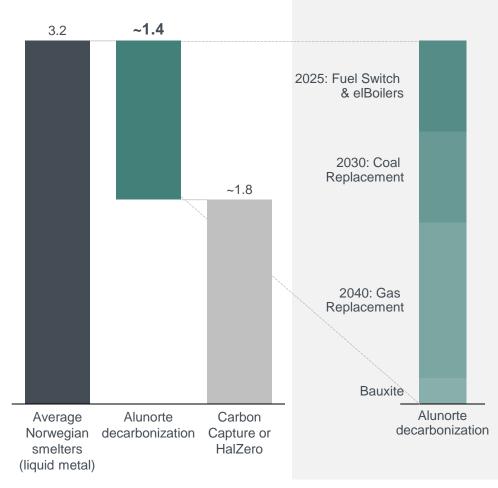




Decarbonization ambition: Significant progress on decarbonization of Alunorte alumina



Tonnes CO₂e / tonne aluminium Scope 1 and 2 emissions
Towards lowest CO₂e per tonne alumina relative to peers by 2025



Fuel switch project

- · Replacing heavy fuel oil with natural gas
- Reducing annual CO₂e emissions by 700,000 tonnes
- Cost BRL ~1.3 billion (NOK ~2 billion)
- First gas consumption in Q2 2023 and all oil assets converted to gas by 1H 2024

Electrical boiler - Hydro Rein supports decarbonization

- First electrical boilers in operation in first half 2022
- Two more electrical boilers in operation by 2024
- 2 times 20-year PPA's were signed with Hydro Rein (255 MW) to power boilers, from the Mendubim and Feijao projects and providing competitive terms for Alunorte

Coal replacement by 2030

- Coal only as a secondary energy source for security of supply by 2025
- Multiple paths to replace coal and targeting stand-alone business cases
- Ambition to fully replace coal by 2030

Gas replacement by 2040

- Gas will be replaced in Calcination by either Hydrogen or Renewable energy Bauxite
- · Replacement of diesel with biofuel and electric equipment



Aluminium Metal Three technology paths to net-zero

Capital Markets Day 2022 Eivind Kallevik EVP Aluminium Metal

Decarbonization ambition: Three paths to net-zero



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

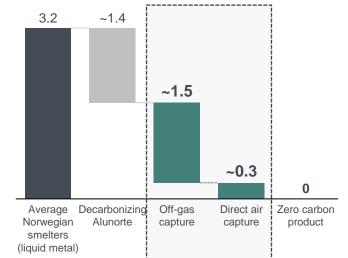
HalZero process New process technology for decarbonizing new capacity



3.2 ~1.4 CO₂e emissions per year ~1.8 0.0 Decarbonizing HalZero Zero carbon Average Norwegian Alunorte Process product smelters (liquid metal)

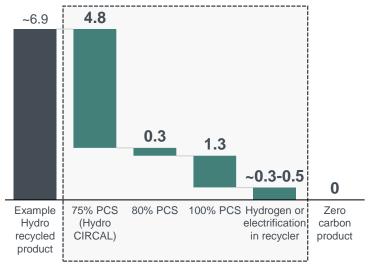
Carbon capture and storage Technologies for decarbonizing existing smelters





Recycling and Casting Technologies for more PCS-use and casthouse decarbonization





HalZero: Technology ready for testing at scale

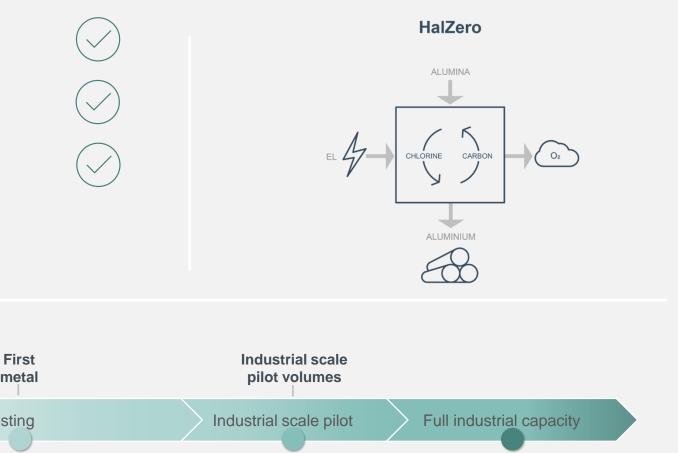
On track to deliver first metal by 2025 and industrial scale pilot volumes by 2030

Promising technology basis confirmed

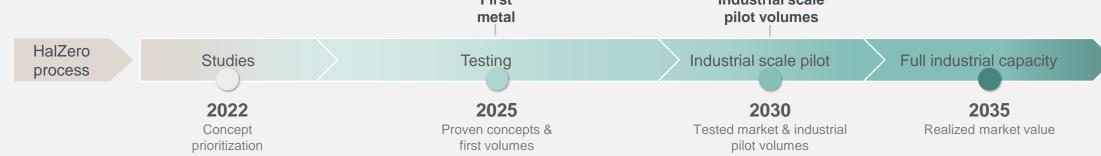
Funding received Norwegian Research Council and Gassnova

Test site chosen Hydro Porsgrunn Technology Center

Final engineering of test facility close to completion Construction planned to start in 2023, pending soft funding



Timeline





Carbon capture and storage: First test completed

On track to deliver first metal by 2025 and industrial scale pilot volumes by 2030

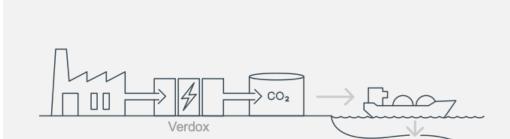
Successfully completed first test at the Sunndal smelter

Further testing in progress for 2023 Second test planned for early 2023, received funding from Gassnova

Location of industrial scale pilot to be decided

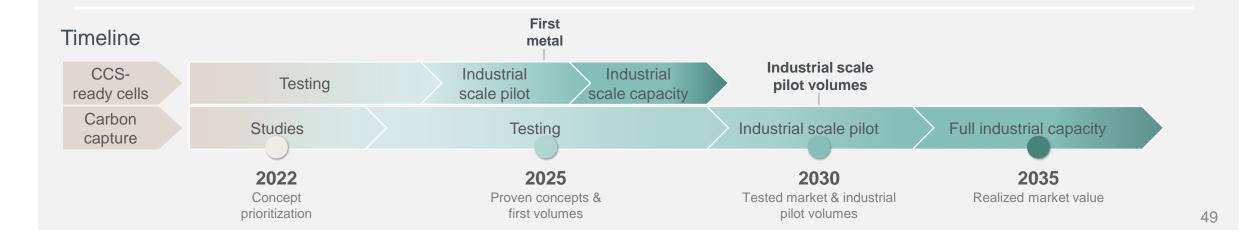
Verdox DAC capabilities maturing towards industrialization

Hydro in dialogue with potential storage providers



Hvdro

CO2



Recycling: The fastest route to full decarbonization



Advanced sorting technology ready. Progress on casthouse decarbonization technology

Advanced sorting technology for more PCS use

HySort technology ready for industrialization



Enabling further growth in Hydro CIRCAL and scaling production of 100R



Casthouse decarbonization technology to reach net-zero

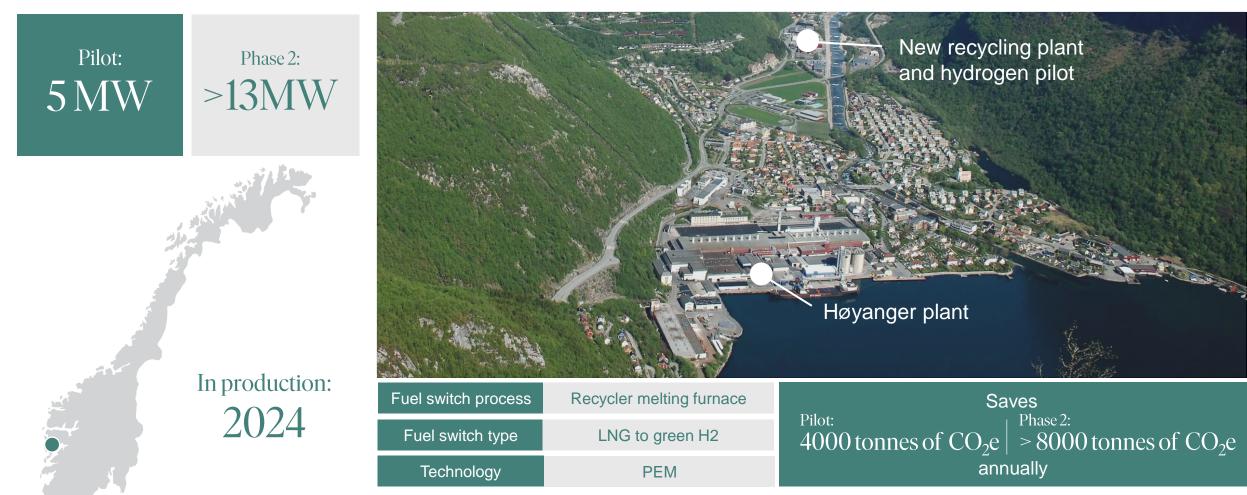
Program to test viable technologies in progress

Green hydrogen test pilot by Hydro Havrand to be built at Høyanger recycling plant



Hydro Høyanger: Planned pilot for decarbonizing post consumer scrap





Mercedes-Benz partners with Hydro on road to zero



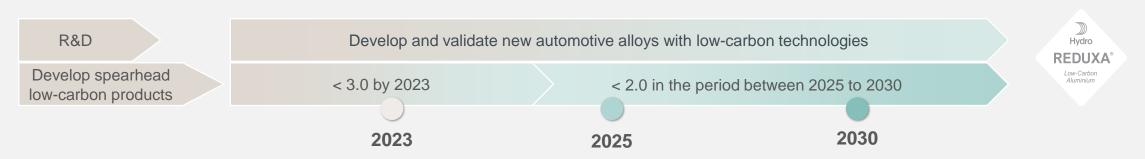
Hydro is shaping the market for low and zero carbon aluminium through strategic partnerships

Decarbonizing Mercedes-Benz' value chain through strategic partnership

Collaborate from 2023 to 2030 on a common roadmap with the target to find low-carbon aluminium solutions suitable for automotive applications.

Hydro will support Mercedes-Benz' strategy to reduce the footprint of all aluminium used in their cars with 50%







Recycling Growth and profitability

Capital Markets Day 2022 Eivind Kallevik EVP Aluminium Metal

Delivering on recycling strategy at high speed, increasing ambition



Key investment decisions made



Cassopolis Greenfield Recycler



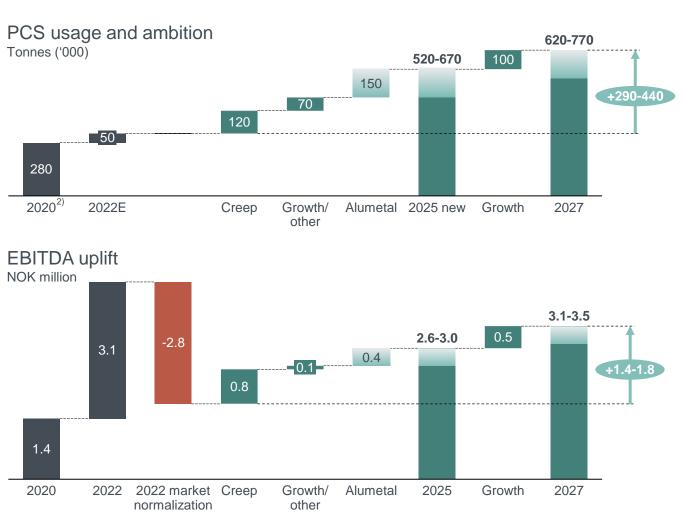






investment decisions



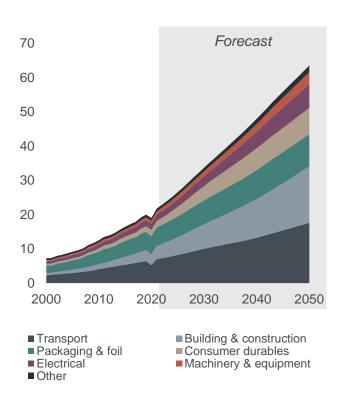


1) Currently undergoing Phase II merger control review by the European Commission 2) Baseline 2020 PCS volume reduced from 290 to 280 kt due to reclassification.

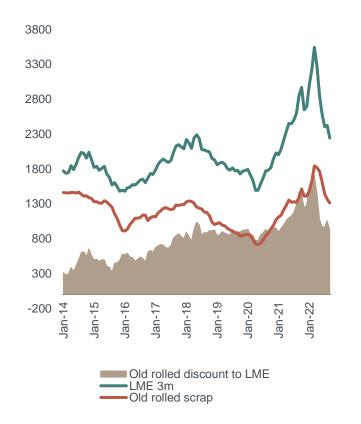
Recycling: A profitable business case strengthening the sustainability positioning of Hydro and industry



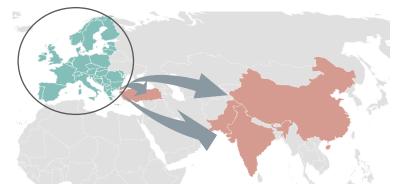
Global estimated recovery from post-consumer scrap collected increases Million tons



Price spread LME vs. complex post-consumer scrap increased USD/tonne



Large scrap volumes leaving Europe, ~1 million tons – an untapped potential

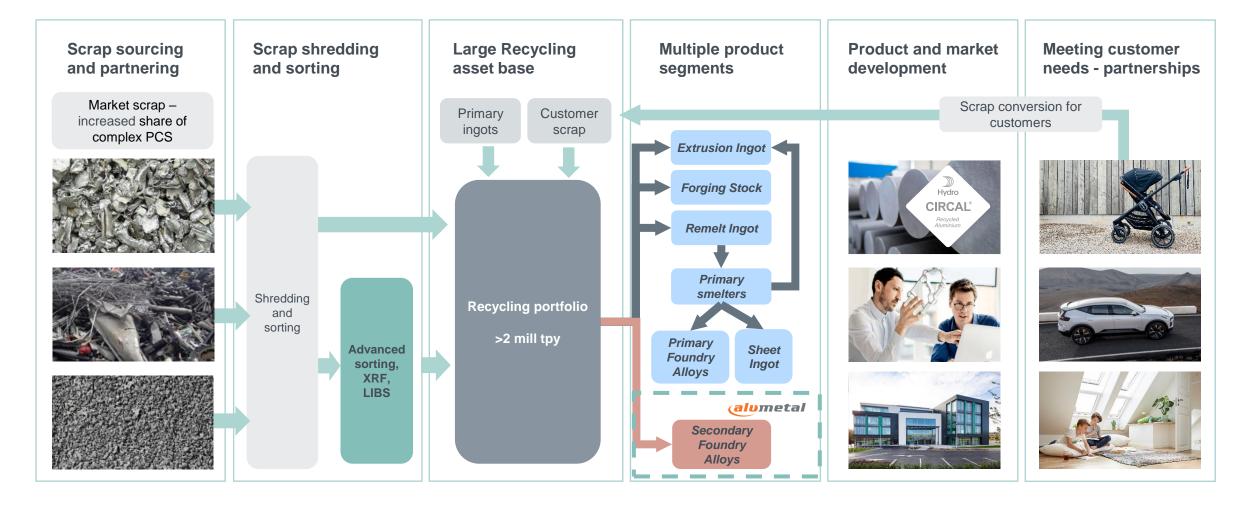


AM Recycling indexed EBITDA margin USD/tonne (2008 set at 1)



Growing in recycling by 'digging deeper in the scrap pile' is not straight forward – strong focus throughout value chain required





Hydro well positioned in recycling

Utilizing our combined competencies, strong asset base, market position and value chain



Scrap sourcing flexibility



Integrated value chain



Innovative product portfolio



Developing advanced sorting





Partnering with customers

Hydro



Extrusions Growth and profitability

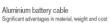
Capital Markets Day 2022 Paul Warton EVP Extrusions

Attractive value add Systems and Precision Tubing business in addition to strong EU & US extrusion positions

Building Systems and Precision Tubing offering unique value added and specialty solutions growth opportunities **Business Unit**

Attractive growth and business development opportunities

Extrusion Europe	 Increased penetration in E-mobility supported by substitution Recycling capacity to facilitate increased PCS usage 	
Extrusion North America	 Grow in automotive and commercial transport Shape the market for greener products in North America 	
Building Systems	 Leverage CIRCAL, increase market share driven by sustainability and brand offerings Leverage strong European product and digital platforms in new geographies 	WICONA WICONA
Precision Tubing	 Substitution away from copper towards aluminium in HVAC&R Higher penetration of aluminium in E-mobility 	



Strategic initiatives continue to transform Extrusions into a more robust and customer driven business



More competitive cost base, stronger customer interaction, targeted capacity expansion and sustainability agenda provide for business resilience going forward

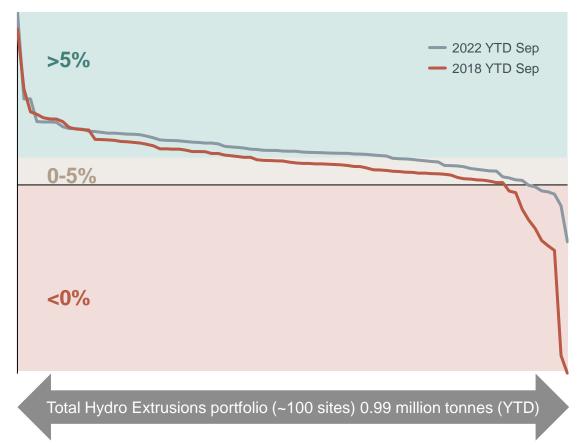
Key Initiatives	Key actions
Portfolio restructuring	 Strong focus on selected segments where Extrusions has competitive advantage Exited non-attractive operations and segments
Cost reductions	• Several cost reduction initiatives, including procurement and operational improvements through Hydro Extrusions Business System (EBS)
Customer partnerships and commercial focus	 Increased customer interaction through value added activities and fabrication Focus on customer solutions and service to ensure value creation, long-term interaction and loyalty
Capacity growth in attractive regions and segments	 Increase in large press, state-of-the-art technology capacity Focus on growth in attractive geographies
Sustainability platform	 Established competitive advantage in building systems area, leveraging Hydro CIRCAL Growth and enhanced position in recycling capacity to optimize value, scrap flows and PCS

Extrusions has structurally improved EBITDA since 2018 mainly through cost improvements and restructuring



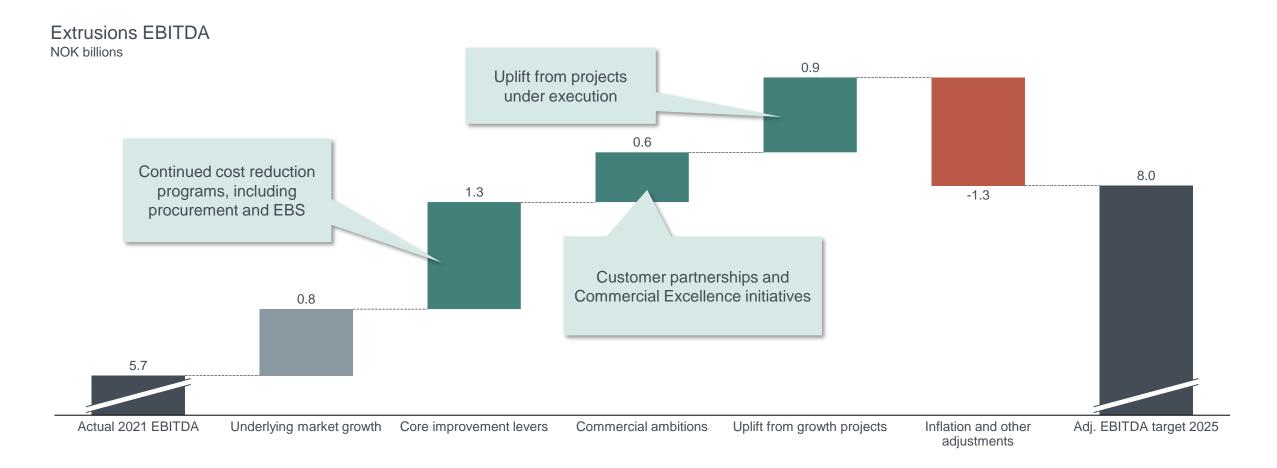
Extrusions EBITDA NOK billions 0.6 2.0 5.7 -1.3 0.3 4.1 Adj. EBITDA Underlying Commercial Inflation and Actual 2021 Core 2018 market improvement ambitions other EBITDA levers adjustments growth

EBITDA-margin per unit in Hydro Extrusion (%)



Lifting Extrusions EBITDA towards 2025 through cost improvements and leveraging growth projects





Critical growth projects in execution, further projects being matured 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

Project under execution

Hungary recycling

The Dalles upgrade

Navarra recycling

Sjunnen recycling

Project pipeline

Cressona Bay-Zero (recycling upgrade)



- E-mobility
- Light-weighting of vehicles

PT China press PE coating line



- Automotive presses in Europe:
 - Tønder
- Hungary



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



Rackwitz press

City of Industry press



Strengthening share in attractive German market by acquiring Hueck Systems and Extrusions



Synergies driven business case with clear upside for customer offering

Strong strategic rationale

- German family owned extrusion and building systems business located close to Düsseldorf
- Provider of aluminium window, door, and façade systems to the European market
- ~500 employees
- Integrated casthouse operation with 50,000 tonnes annual capacity
- Two extrusion presses (12- and 8-inch) with 25,000 tonnes total capacity
- Reported EBITDA of EUR 12.8 million
 in 2021
- Enterprise value of EUR 60.3 million
- Subject to regulatory approval, expected closing during Q1 2023

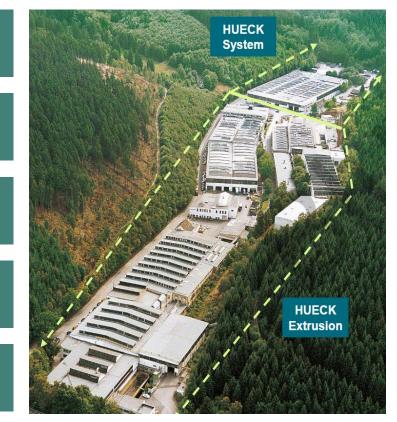
Attractive platform for growing Hydro's moderate market share in Germany

Complementary geographical footprint of production facilities

Matching product offering in building systems business

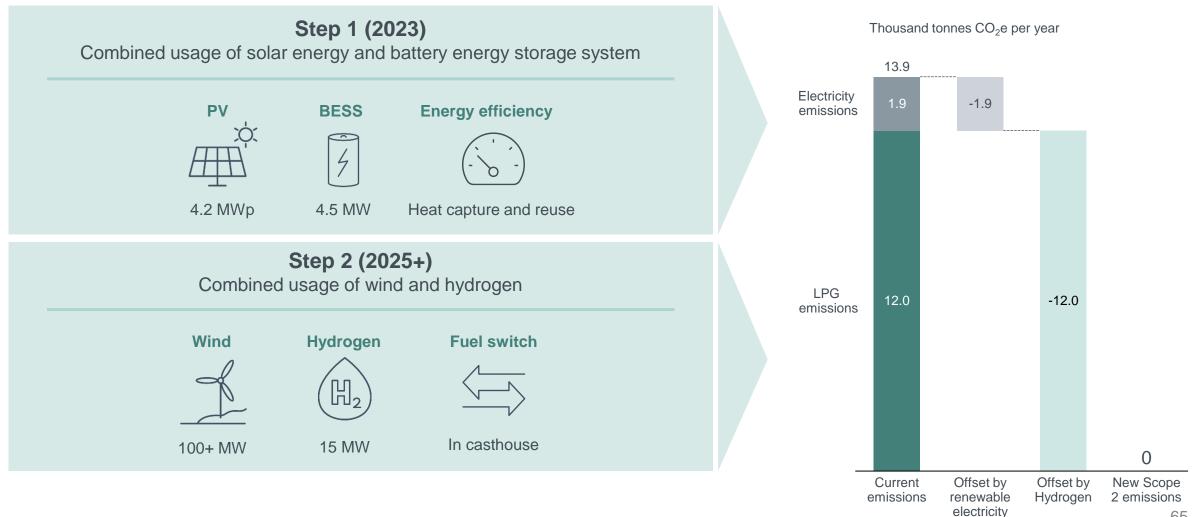
Access to 12-inch press capabilities and closed loop recycling to serve high-margin segments

Gaining recycling capacity in attractive location, close to scrap shredding facility



Greener Sweden: Pilot project in two steps towards net-zero

Extrusion Sweden, Hydro Havrand and Hydro Rein to produce a platform for net-zero carbon aluminium in two steps



Hydro CIRCAL 100R

Innovationsbogen – Augsburg, Germany



Decarbonize the building market with Hydro CIRCAL 100R

- **Innovationsbogen** is the first development of the Augsburg Innovation park. A futuristic office building, designed to match the needs of modern companies.
- Sustainability, efficiency and flexibility are at the heart of the project and using Hydro CIRCAL 100R was a great opportunity for both the owner and the architect
- In total, Hydro Building Systems will deliver 100 tonnes of Hydro CIRCAL 100R, which represents a reduction of more than 600 tonnes of CO2e



ALUMINIUM PRODUCED AT EUROPE AVERAGE 6770 tons of CO₂e



66





Preferred partner to net-zero aluminium

Capital Markets Day 2022 Trond Olaf Christophersen EVP Corporate Development

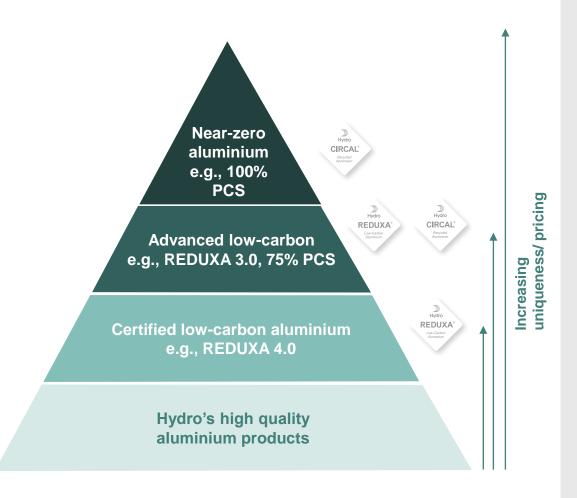
Hydro uniquely positioned in the low-carbon aluminium market



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 75% 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 770kt by 2027	Renewables developer, including batteries and hydrogen	Greener local energy sourcing Increased recycling

Certified, traceable, low-carbon aluminium

Hydro offers the leading low-carbon product portfolio



Leading low-carbon aluminium offering and capabilities

- Strong **scale position** within recycling and low carbon aluminium
- Ambitious, yet concrete, **decarbonization roadmap** across entire value chain
- Delivering pilot volumes of ultra low carbon and 100% PCS to frontrunner partners
- Differentiated suite of low-carbon products enables adaptable pathway to net-zero - unique to Hydro

Scale with high ambition players

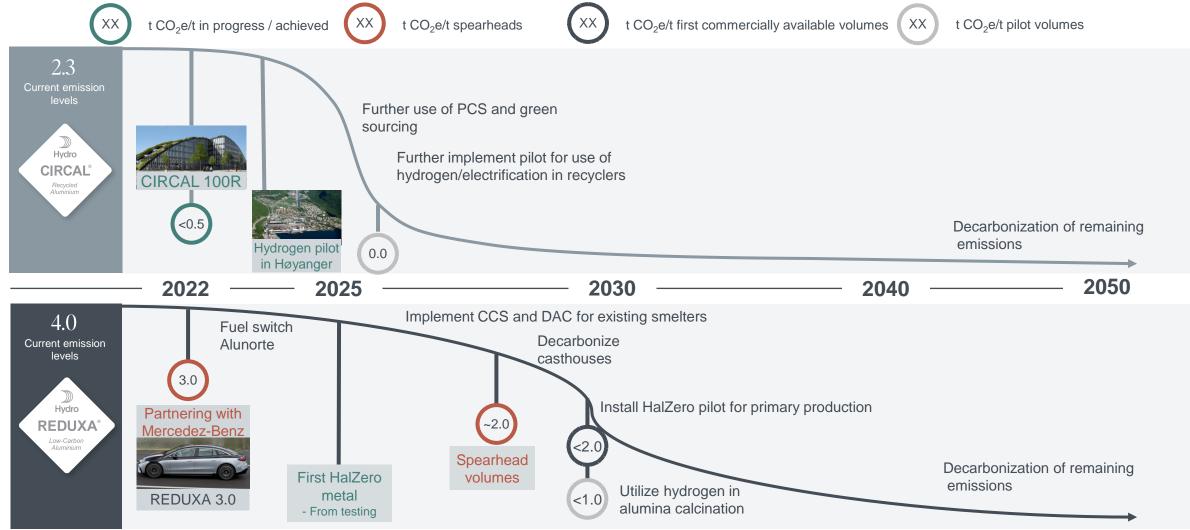
Unique pilot volumes for front runners



Ambitious product roadmap driving industry frontiers



Capitalize on market demand through circularity while decarbonizing primary value chain



Hydro a preferred partner on journey to net-zero



Utilizing integrated value chain and trusted partner position to deliver decarbonization to industry front runners

Unlocking commercial and technological solutions

Enabling decarbonization journey transition

Driving **demand**

Access to full suite of greener aluminium solutions

Support in making the right decarbonization steps

Hydro as **R&D partner**







Lifting profitability, driving sustainability





Increasing robustness of cash flows and returns

Capital Markets Day 2022 Pål Kildemo EVP and CFO

A record year, with a solid balance sheet to meet uncertainty and pursue opportunities





1) RoaCE figures as reported, where rolling is excluded from 2021.

2) Adjusted EBITDA figures as reported and excludes Rolling, except for 2019 which is estimated to exclude Rolling

3) Free cash flow defined as net cash provided by operating activities plus net cash used in investing activities less purchases of short-term investments, less process from sales of short-term investments

4) Figures are as reported and excludes Rolling, except for 2019 which is estimated to exclude Rolling

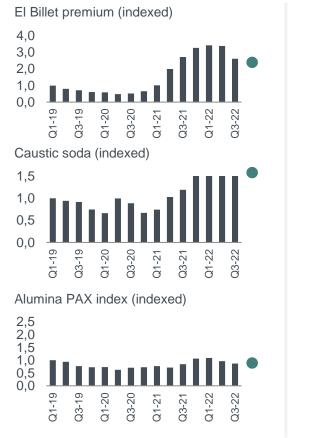
5) Net debt figures are as reported. Net debt changed definition from and including 2020. 2019 as reported with old definition

6) Adjusted EBITDA from 2019-2020 includes Rolling (as reported), no rolling in 2021

Uncertain outlook for 2023

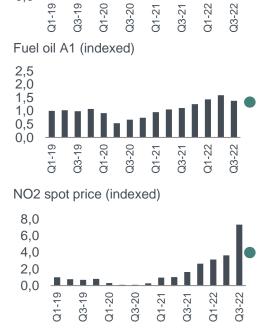
However, current market prices indicate still healthy financials

Revenue and cost drivers

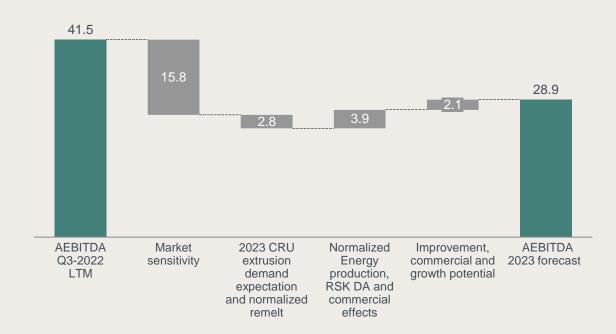


Indication of current market prices

Petroleum coke FOB USG (indexed)
2,0
1,5
1,0
0,5
0,0



AEBITDA sensitivity 2023 NOK billion



Managing short-term risk and long-term opportunities

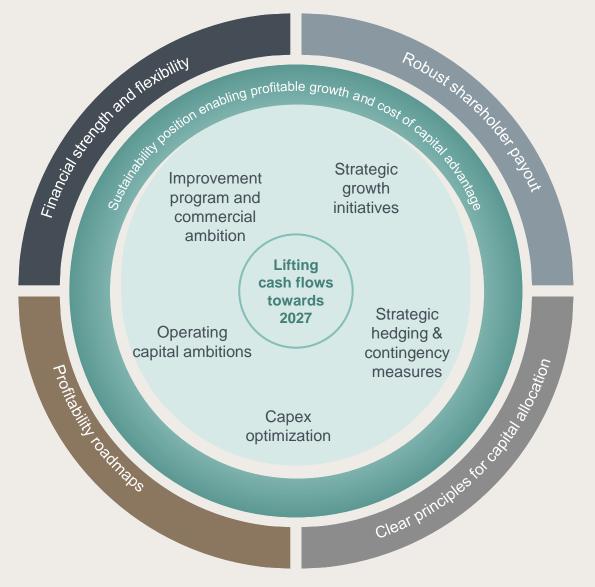
Short term improvement and mitigation

- Increasing improvement program target for 2025 and extending program to 2027
- Setting ambitious operating capital ambitions for 2023
- Contingency measures in place
- Integrated aluminium margin hedge in place for 2023, 2024, and partly 2025

Long-term opportunities and measures

- Clear principles for capital allocation
- Continue to deliver on strategic capex roadmap
- · Sustainability driving cost of capital advantage
- Clear profitability roadmaps
- Robust shareholder payout

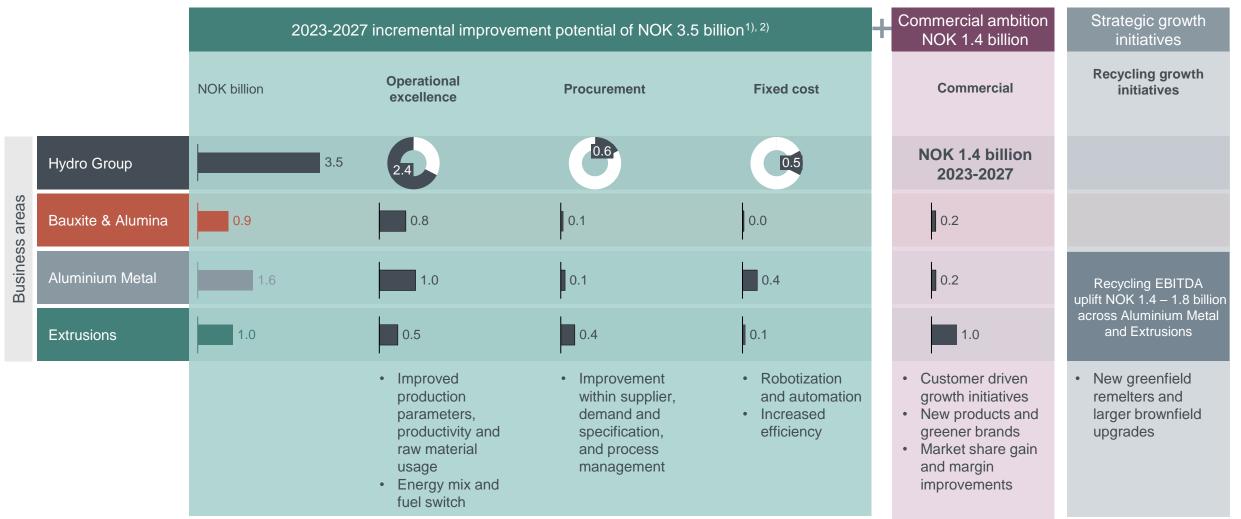
Solid framework for lifting returns and cash flow and managing uncertainty



NOK 4.9 billion additional improvements to be delivered



Targeting NOK 14.0 billion in improvements by 2027

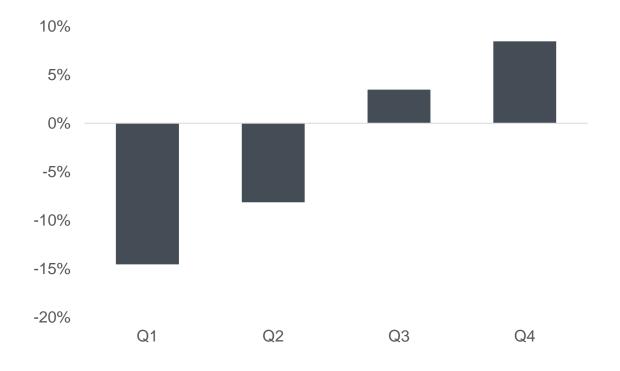


1) 2018 baseline on accumulated improvements until 2021, 2021 baseline from 2022

2) ~1.5-2 BNOK in annual average CAPEX to meet remaining improvement and commercial ambitions

Temporary and medium-term contingency measures

European primary demand 2023 (% change Y/Y)



Market demand adjustments

Aluminium Metal

- Electrolysis production curtailed by ~100kt, aim at 110 -130kt (Norwegian smelters)
- Additional primary casthouse production reduced by ~50kt
- Recycling production reduced by ~ 45 kt
- Volumes shifted between product segments
- Further measures continuously evaluated

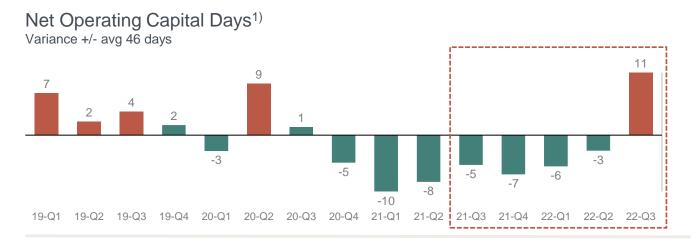
Extrusions

- European recycling production reduced by ~ 45kt
- North America, recycling production reduced by 35kt
- · Continuous adaption of capacity through reduced number of shifts

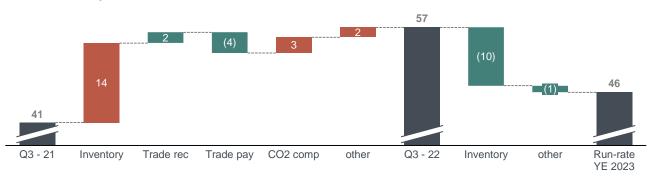
Short- and medium-term hedging

- 2023 gas and power hedges in place for majority of exposure in Metal Markets and parts of exposure in Extrusions
- Integrated margin hedge in place for 2023, 2024 and parts of 2025
- USD/BRL hedges in place for Alunorte and Albras
- Smaller volumes hedged in Energy
 - Part of power sales from Aluminium Metal and Energy net long position 77

NOK ~8 billion NOC release targeted Q4 2022/ FY2023



YoY development



1) NOC-days calculated as: (average of opening balance and closing balance NOC book value for the quarter / adjusted revenue during the quarter) * number of days in quarter

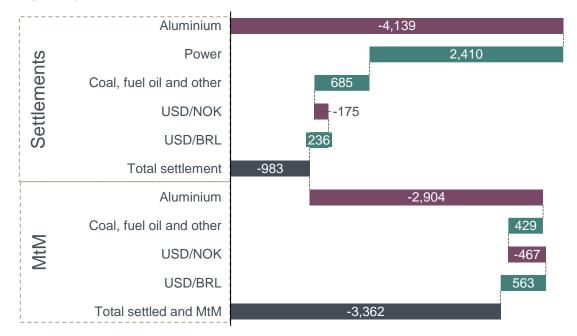
Net operating capital days and net operating capital are estimates excluding Rolling in 2019-2020 2) Sensitive to price and demand assumptions

Spike driven by inventory and CO2 compensation

- Strong demand and raw material supply challenges reduce relative inventory levels in 2021
- Safety stock- and seasonality build 1H 2022 offset by high revenues
- Q3 2022 downturn caused demand to fall faster than production, driving increase in relative and nominal inventory levels
- Q3 2022 increase in CO₂ compensation receivables
- Transition period in 2023 with expected average of ~ 50 NOC days and year end run rate of 46 in line with historical average
- Expected NOC cash release of NOK ~8 billion²⁾ by year end 2023

Strategic hedges limits effects of market decline

Strategic hedging status NOK Billion



✓ Derivative positions locked in at historical strong margins

- ✓ Negative values reflect an expectation to realise stronger business margins
- ✓ Hydro benefits from strong USD and LME price
- ✓ Hedged raw materials offset part of expected cost increase

Integrated Margin per kt Tonnes in thousand (kt) (USD) 800 2,600 2,400 700 2.200 2,000 600 1,800 500 1,600 1,400 400 1,200 300 1,000 800 460 440 200 600 400 100 50 37 200 0 0 2022 2023 2024 2025 Integrated Margin @ spot/ forward prices Integrated Margin @ hedged prices Hedged LME volume (kt)

Hedged volumes and Integrated Margin

Marked to Market as of November 30

Capital allocated according to strategic modes

Strategic modes reflect global megatrends and high-return opportunities





Annual capex guidance of BNOK ~13 for 2023-2026



Inorganic growth in line with strategic modes could come in addition. Alumetal transaction dependent on regulatory outcome



Growth and return-seeking capex guidance 2023-25 avg only includes capex necessary for delivering on targeted improvement ambitions and commercial initiatives

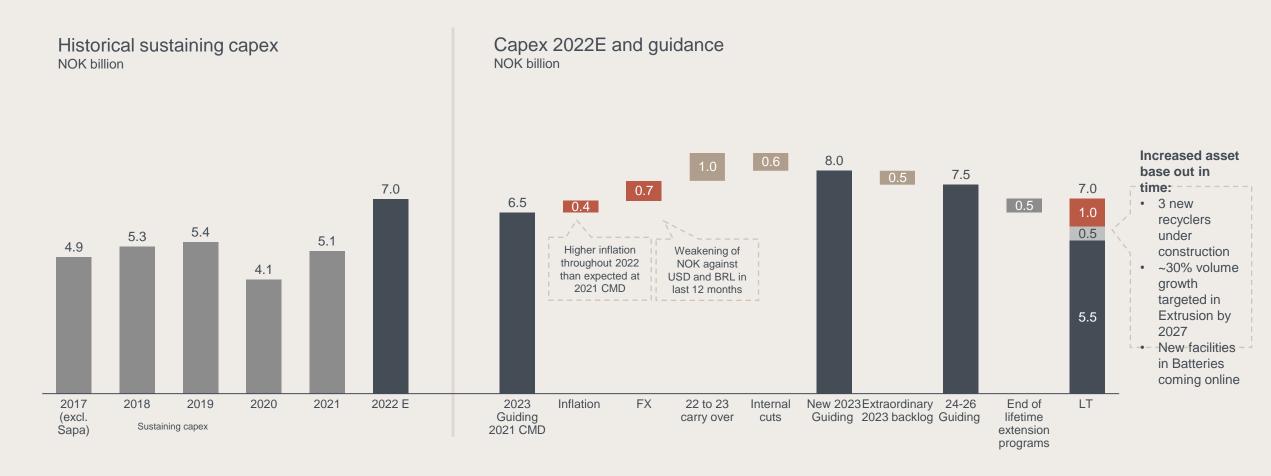
1) Excluding the Pis/Cofins adjustments in Brazil in 2018. Including the adjustment, 2018 capex amounted to BNOK 7.0

2) Excluding NOK (0.1) billion from, e.g., changes in prepayments/payables for capex. Cash effective capex based on the cash flow statement amounts to NOK 6.5 billion (adjusted for changes in short-term investments) Based on FX assumptions BRLNOK ~1.9, USDNOK ~9.6, EURNOK ~10

Sustaining capex guidance of NOK ~7.5 billion in 2023-26



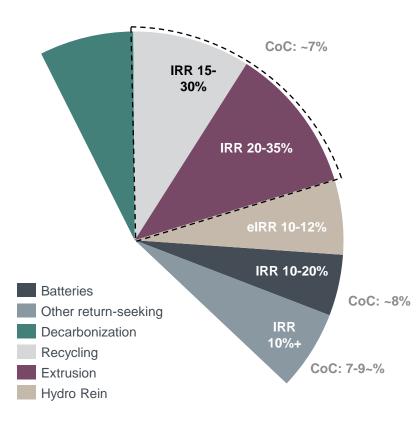
Short-term sustaining impacted by backlog from Covid, supply chain issues, inflation and FX. Long term normalizing at the end of lifetime extension programs



Strong profitability in return-seeking and growth capex portfolio



Indicative profitability in current return-seeking and growth portfolio



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

Hydro Rein

- USD 2.7 billion contracted revenues, 3.6 TWh signed under long-term EUR & USD PPAs
- 1.7 GW gross capacity in operation or construction
- Focus on early phase projects opportunities and strategic partnerships

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)

Decarbonization

- Alunorte Fuel switch project (IRR 10-20%)
- 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

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

Green and Sustainability Linked Financing Framework

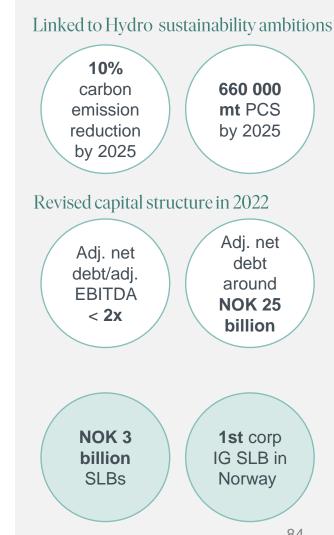
- Framework published to facilitate issuance of green and sustainability linked bonds
- Linked to Hydro's sustainability ambitions
- CICERO Shades of Green provided Second Party Opinion allocating medium green • shading and governance assessment at excellent

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)

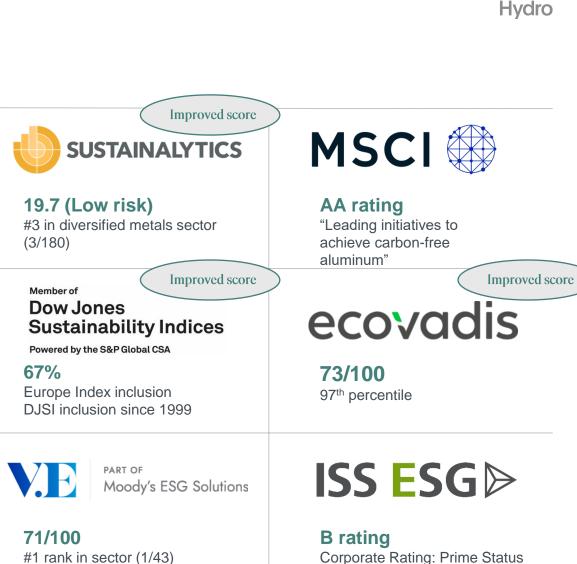
- NOK 3 billion SLBs (2022-2028) issued under framework and EMTN programme ٠
- First SLB issue in the Norwegian corporate investment grade market •
- SLB feature increased access to capital in challenging market conditions



Hydro continues to improve scores on key ESG ratings

Continuing efforts to further increase transparency

- Transparent and consistent reporting approach for more than three decades
- Sustainability is fully integrated in Hydro's strategy
- Further improvements on several ratings in 2022
 - Sustainalytics: From *Medium risk* to *low risk* (20.6 -> 19.7)
 - Dow Jones Sustainability Indices: From 65% to 67%
 - Ecovadis: From 68/100 to 73/100



#1 rank in sector (1/43)#23 rank in universe (23/4866)

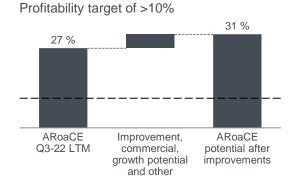
Sustainability leader in our industry

Hydro profitability roadmap

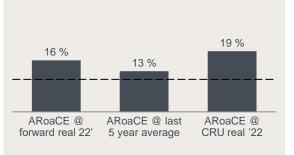
Hvdro

Main drivers – improvement, growth and market developments

ARoaCE potential



Market scenarios 2027



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

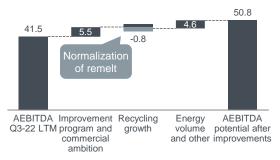
12.0

CF @ last 5

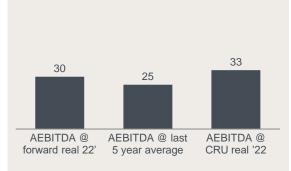
year average







Market scenarios 2027



Cash flow potential after sustaining Market scenarios 2027 CAPEX¹⁾ NOK billion 30.5 25.3 15.2

CF Q3-22 LTM Improvement, Sustaining CF potential CF @ forward commercial and CAPEX, energy after sustaining real 22' growth potential volume, tax CAPEX and tax and other

Note: Excluding growth from new energy areas

1) Cash flow calculated as EBITDA+tax+LT sustaining capex + other (lease payments, interest payments) Assumptions and sources behind the scenarios can be found in the Additional information Sources: Republished under license from CRU International Ltd.

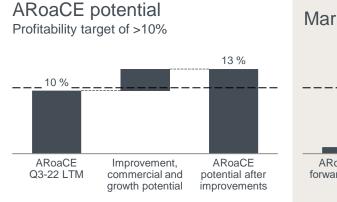
18.1

CF @ CRU

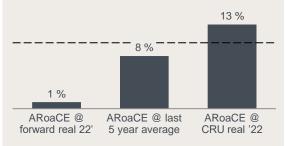
real '22

Bauxite & Alumina profitability roadmap

Main drivers – fuel switch, commercial differentiation and market development



Market scenarios 2027



Main further upside drivers

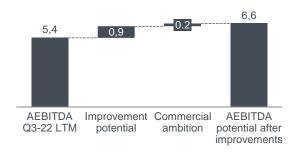
- Positive market and macro developments
- Commercial differentiation, incl. greener alumina
- Fleet optimization at the mine
- Sustaining capex optimization

Main downside risks

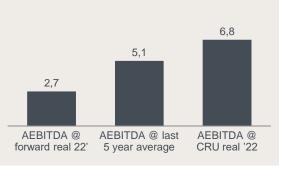
- Operational disruptions
- Negative market and macro • developments
- Regulatory, CSR and country risk •
- Supply chain disruptions
- Value chain concentration in Brazil

AEBITDA potential





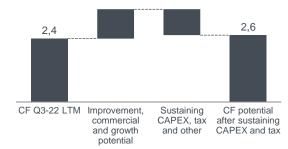
Market scenarios 2027



Cash flow potential after sustaining CAPEX¹⁾

Market scenarios 2027







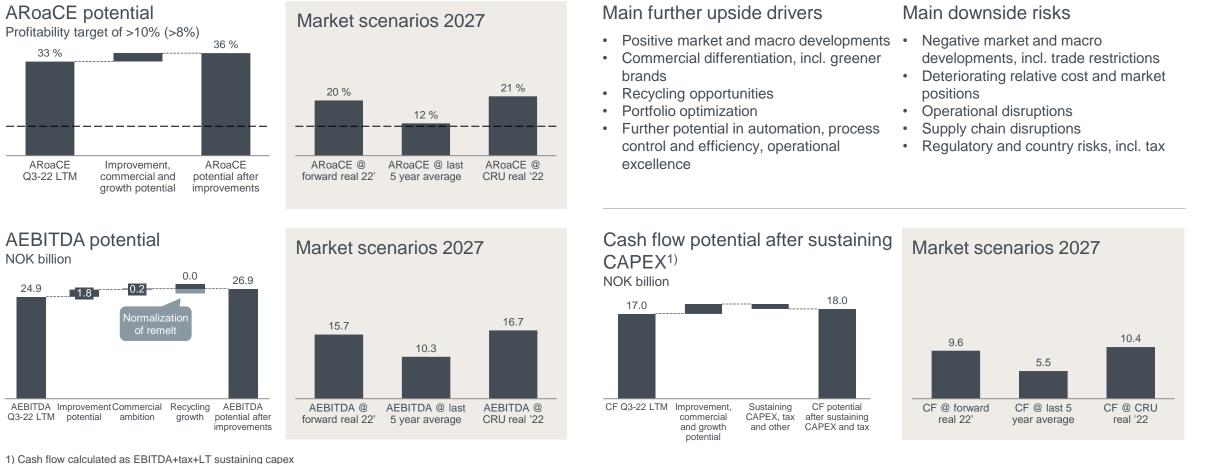
1) Cash flow calculated as EBITDA+tax+LT sustaining capex Assumptions and sources behind the scenarios can be found in the Additional information Sources: Republished under license from CRU International Ltd.

Hvdro

Aluminium Metal and Metal Markets profitability roadmap



Main drivers - improvement efforts, commercial differentiation, and market development

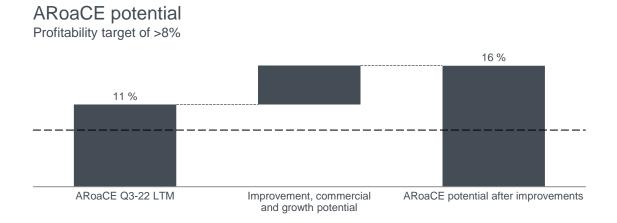


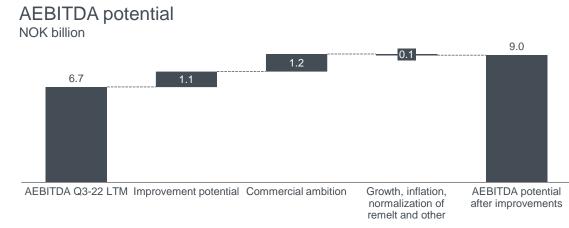
Assumptions and sources behind the scenarios can be found in the Additional information Sources: Republished under license from CRU International Ltd.

Extrusions profitability roadmap

)))) Hydro

Main drivers – improvement program and commercial ambition





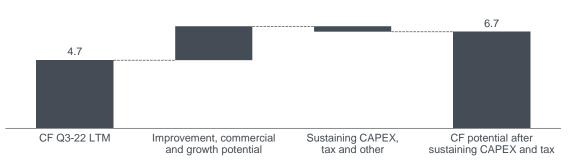
Main further upside drivers

- 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

Cash flow potential after sustaining CAPEX¹) NOK billion



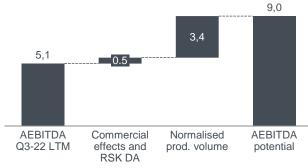
1) Cash flow calculated as EBITDA+tax+LT sustaining capex Assumptions and sources behind the scenarios can be found in the Additional information

Energy profitability roadmap

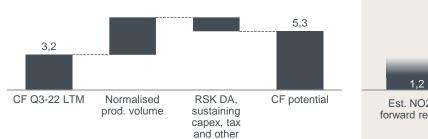


Main drivers – Net spot sales volume and market development

AEBITDA potential (ex new Energy) NOK billion



Cash flow potential after sustaining CAPEX and tax (ex new Energy) NOK billion



Market scenarios 2027 (ex new Energy)



Market scenarios 2027 (ex new Energy)



Main further upside drivers

- Additional growth opportunities
- Further commercial and operational improvements
- Positive market and macro developments

New Energy initiatives

· Growth projects in REIN, Havrand and Batteries

Accounting treatment for Hydro REIN

EBITDA

- Holding company fully included
- Investments in part-owned project companies included with share of net income

Capex

Capital contributions to part-owned vehicles included

Main downside risks

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

Cash flow statement

Includes cash flow to/from Hydro subsidiaries, including equity contributions from external companies

Balance sheet

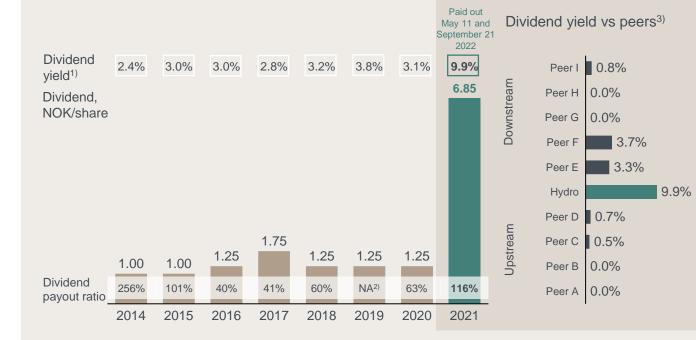
- Parent companies fully consolidated, including any controlled project vehicles
- Part-owned project vehicles included with share of equity

Note: Excluding growth from new energy areas * Cash flow calculated as EBITDA+tax+LT sustaining capex

Assumptions and sources behind the potential can be found in the Appendix

Ambition for shareholder distribution

- Strong financials in 2022 allow solid shareholder distribution
- Hydro aims to pay out 50 70% of adjusted net income for 2022
 - · A combination of ordinary dividends and share buybacks
 - Pay out depending on operating capital release YE, and preserving cash related to committed M&A transactions
- Final proposal for distribution at Q4 reporting in February
 - Proposal conditional upon Annual General Meeting approval
- Capital structure policy and targets updated in 2022, introducing an adjusted net debt target over the cycle around NOK 25 billion, leading to additional dividend distributed in September and launch of a share buyback program
- Share buybacks ongoing, approximately 36% of the program repurchased at end of November 2022



Hydro's Dividend Policy

- Pay out minimum 50 percent of adjusted net income as ordinary dividend over the cycle
- The dividend policy has a floor of NOK 1.25 per share
- Share buybacks or extraordinary dividends will supplement dividends during periods of strong financials, due consideration being given to the commodity cycle and capital requirements for future growth
- The pay out should reflect Hydro's aim to give its shareholders competitive returns, benchmarked against alternative investments in comparable companies

3) Peer group includes (in alphabetical order): Upstream: Alcoa, Century, Chalco, Hindalco, Rusal Downstream: Amag, Arconic, Constellium, Kaiser

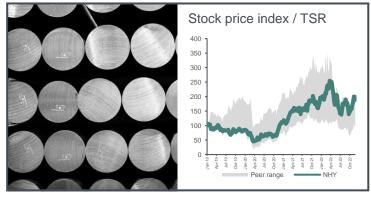
¹⁾ Based on share price at year end

²⁾ Negative net income

Why invest in Hydro: key takeaways from today



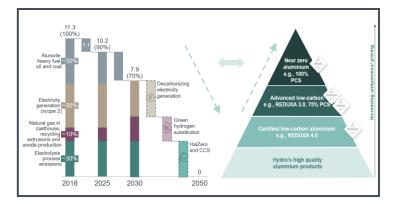
Good track record on relative shareholder value creation



Low and robust cost position with ambition to improve



Portfolio of profitable growth projects



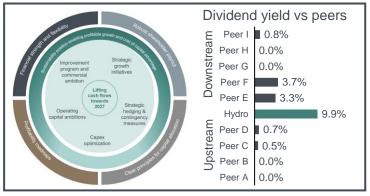
Pathway to net-zero aluminium products



Positive demand outlook for greener aluminium



Solid financial framework and competitive shareholder distribution



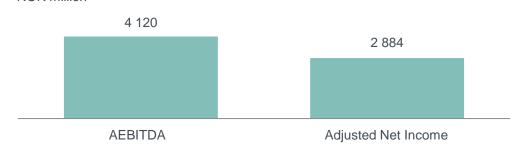


Appendix

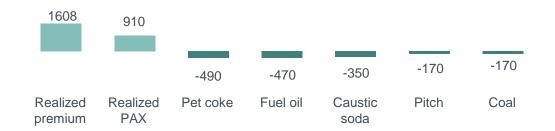
Significant exposure to commodity and currency fluctuations



Aluminium price sensitivity +10%



Other commodity prices, sensitivity +10%



Currency sensitivities +10%

Sustainable effect:

NOK million	USD	BRL	EUR
AEBITDA	4,440	(600)	(200)
One-off reevaluation effect:			

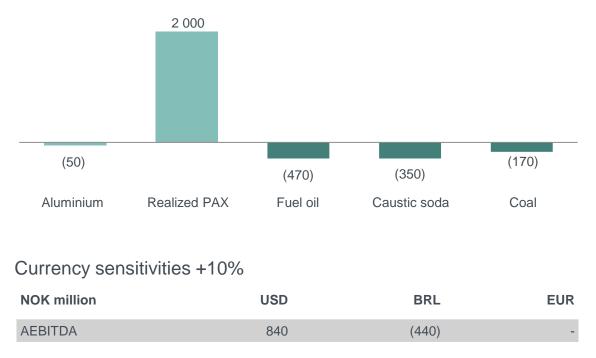
Financial items (510) 890 (4,180)

- Annual adjusted (unhedged) sensitivities based on normal annual business volumes. LME 2,875 USD/mt, standard ingot premium 477 USD/mt, PAX 389 USD/mt, fuel oil 899 USD/mt, petroleum coke 625 USD/mt, pitch 1,017 EUR/mt, caustic soda 597 USD/mt, coal 272 USD/mt, USD/NOK 9.25, BRL/NOK 1.77, EUR/NOK 10.00
- 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
- 2022 Platts alumina index (PAX) exposure used
- Adjusted Net Income sensitivity calculated as AEBITDA sensitivity after 30% tax
- Sensitivities include strategic hedges for 2022 (remaining volumes for 2022, annualized)

Bauxite & Alumina sensitivities



Annual sensitivities on adjusted EBITDA if +10% in price NOK million



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

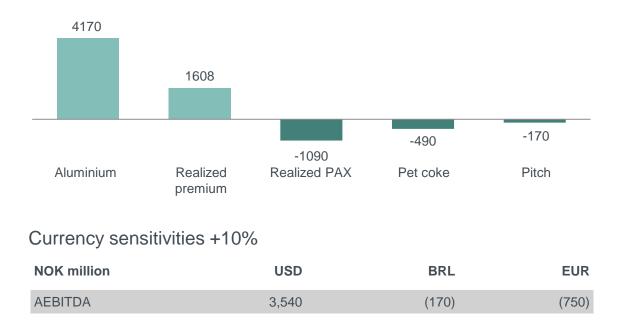
- ~0.12 tonnes coal per tonne alumina, Platts prices, one year volume contracts, weekly per shipment pricing
- ~0.11 tonnes heavy fuel oil per tonne alumina, prices set by ANP/Petrobras in Brazil, weekly pricing (ANP) or anytime (Petrobras)

Annual adjusted (unhedged) sensitivities based on normal annual business volumes. LME 2,875 USD/mt, standard ingot premium 477 USD/mt, PAX 389 USD/mt, fuel oil 899 USD/mt, petroleum coke 625 USD/mt, pitch 1,017 EUR/mt, caustic soda 597 USD/mt, coal 272 USD/mt, USD/NOK 9.25, BRL/NOK 1.77, EUR/NOK 10.00

Aluminium Metal sensitivities



Annual sensitivities on adjusted EBITDA if +10% in price NOK million



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

Assumptions behind scenarios



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

- Starting point AEBITDA Q3-22 LTM
- Improvement potential in real 2021 terms, upstream margins based on 2021 average
- 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, 34% for Energy, 19% (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 sustaining capex above LT sustaining CAPEX 2023-2026
- 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
- Energy market scenarios for 2027 excludes gains from price area differences and commercial effects

Price and FX assumptions

2023 _ forward real 2461 (deflated by 2%) 413 ¹⁾ 325 (deflated by 2%) 900 ¹⁾	Forward real 2022 2,560 (deflated by 2%) 413 ¹⁾ 340 ²⁾ (deflated by 2%) 900 ¹⁾	Last 5 year average 2,130 385 330 406	CRU real 2022 2,400 (deflated by 2%) 496 ⁴⁾ (deflated by 2%) 360 (deflated by 2%) 403
(deflated by 2%) 413 ¹⁾ 325 (deflated by 2%)	(deflated by 2%) 413 ¹⁾ 340 ²⁾ (deflated by 2%)	385 330	(deflated by 2%) 496 ⁴⁾ (deflated by 2%) 360 (deflated by 2%)
325 (deflated by 2%)	340 ²⁾ (deflated by 2%)	330	(deflated by 2%) 360 (deflated by 2%)
(deflated by 2%)	(deflated by 2%)		(deflated by 2%)
900 ¹⁾	900 ¹⁾	406	403
			(deflated by 2%)
255 (deflated by 2%)	200 ³⁾ (deflated by 2%)	110	200 ⁷⁾ (deflated by 2%)
1300 ¹⁾	1,300 ¹⁾	730	770 ⁵⁾ (deflated by 2%)
717 ¹⁾	720 ¹⁾	410	430 ⁵⁾ (deflated by 2%)
2,010 ⁶⁾ 1,260 ⁶⁾	1,250 ⁶⁾ 570 (deflated by 2%)	690 540	1,250 ⁷⁾ 570 ⁷⁾ (deflated by 2%)
	9.50	8.87	8.88 8.34
		2,010 ⁻⁵ 570 1,260 ⁶⁾ (deflated by 2%) 9.69 9.50	$\begin{array}{cccc} 2,010^{6} & 570 & 540 \\ 1,260^{6} & (deflated by 2\%) & 540 \end{array}$

1)Spot price 2) % of LME forward price deflated by 2% 3) 2026 nominal forward price deflated by 2% 4) Realized premium based on CRU product premiums Q4-2024 5) Historic average % of LME, using CRU LME price deflated by 2% 6) Based on Nordic system forward price and constant NO2-Nordic system area price 7) Based on price from forward case 8) Based on LTM power prices Source: Republished under license from CRU International Ltd.



Industries that matter