

### INVESTOR DAY

**4<sup>TH</sup> APRIL 2023** 





## Safe Harbor Statement Forward-looking statements

Statements made in this presentation which describe the company's' intentions, expectations, beliefs or predictions may be forward-looking statements within the meaning of securities laws. Forward-looking statements include statements preceded by, followed by, or including the words "believes," "expects," "anticipates," "plans, "targets", "estimates," "projects," "forecasts," or similar expressions. Forward looking statements generally can be identified by the fact that they do not relate strictly to historical or current facts and are based on our management's beliefs, as well as assumptions made by, and information currently available to our management as well as other factors that we believe are appropriate and reasonable under the circumstances. Examples of forward looking statements in this presentation are statements about our expectations about strengthening and growing the business with expansion projects or achieving synergies associated with the acquisition. the company cautions that, by their nature, forward-looking statements involve risk and uncertainty and the company's' actual results could differ materially from those expressed or implied in such statements. We do not intend, and we disclaim any obligation, to update any forward-looking statements, whether as a result of new information, actual performance, future events or otherwise. Factors that could cause actual results or outcomes to differ from the results expressed or implied by forward-looking statements include, among other things: changes in the prices and availability of aluminum (or premiums associated with such prices) or other materials and raw materials we use; the capacity and effectiveness of our hedging activities; relationships with, and financial and operating conditions of, our customers, suppliers and other stakeholders; fluctuations in the supply of, and prices for, energy in the areas in which we maintain production facilities; our ability to access financing including in connection with potential acquisitions and investments; risks relating to, and our ability to consummate, pending and future acquisitions, investments or divestitures; changes in the relative values of various currencies and the effectiveness of our currency hedging activities; factors affecting our operations, such as litigation, environmental remediation and clean-up costs, labor relations and negotiations; breakdown of equipment and other events; economic, regulatory and political factors within the countries in which we operate or sell our products, including changes in duties or tariffs; competition from other aluminum rolled products producers as well as from substitute materials such as steel, glass, plastic and composite materials; changes in general economic conditions including deterioration in the global economy; the risks of pandemics or other public health emergencies, including the continued spread and impact of, and the governmental and third-party responses to risks arising out of our acquisition of Aleris Corporation including risks associated with related divestiture requirements and uncertainties inherent in the acquisition method of accounting; disruption to our global aluminum production and supply chain as a result of COVID-19; changes in government regulations, particularly those affecting taxes, derivative instruments, environmental, health or safety compliance; changes in interest rates that have the effect of increasing the amounts we pay under our credit facilities and other financing agreements; and our ability to generate cash. The above list of factors is not exhaustive. Other important risk factors are included under the caption "Risk Factors" in the Company's Integrated Annual Report of FY2021-22. With respect to other important risk factors applicable to Novelis, you should review the risks factors set forth under the caption "Risk Factors" in Novelis' Annual Report on Form 10-K for the fiscal year ended March 31, 2022, filed with the United States Securities and Exchange Commission ("SEC") on May 11, 2022, as well as contained within Novelis' subsequent SEC filings.





01 About Us 02

**O2** Update on Sustainability

03 Market Outlook

Update on Growth Projects

**O5** Financial Strength

**06** Key Takeaways



Copper

421 KT

540 KT

**Capacity** 

Copper Cathode

**Copper Rods** 



### **India Ops**

Aluminium Capacity

Alumina **3.6 MT** 

Primary Metal

1.3 MT

VAP ~400 KT

**Novelis** 

Aluminium Flat Rolled Products (FRP)

Beverage Can

Automotive

Specialities

Aerospace

**Rolling Capacity** 

4.1 MT

Recycled **2.2 MT** 

Novelis | Largest aluminum FRP producer and recycler in the world

Utkal Alumina among the lowest cost producers of alumina in the world

Globaloperations across10 countries

Hindalco | Largest fully integrated aluminum player in India

One of the largest custom copper smelters at a single location in Asia

**40,000 employees** worldwide

Consolidated Revenue\*

USD 28 bn

Consolidated EBITDA\*

USD 3.2 bn

\* Based on TTM December 2022

## **Strategic Priorities Way Forward**





### **Prudent Capital Structure**

- Financial prudence in Capital Allocation
- Growth Capex supported by robust cashflows and Strong Balance sheet



### Value Enhancing Growth

- Focus on shareholder value creation through organically expanding downstream businesses
- Cost optimization and predictability through enhanced resource security

### Strong ESG Commitment

- Focus on ESG by taking sustainability initiatives across the value chain with clear roadmap for achieving our commitments
- ESG commitments to become 'The Industry Leader in Sustainability'

### Portfolio Enrichment

- Advancing from manufacturing company to manufacturing solution provider
- Enrich product mix through increasing the share of high-end value-added products



# Sustainability is a virtuous circle that encompasses nature, climate, our employees and communities





### **Highlights**

- 2.2 mn tons of aluminium scrap recycled in FY22 at Novelis
- ➤ ~80% of waste re-used currently, >2.3mn tons of red mud and >100% fly ash
- On track to reduce net water intensity 30% by FY'25 vs. '19, which is >18mn m3 of water conserved annually
- ➤ ~190 HA of greenbelt or >450k trees being added annually
- ➤ ~130 net MW renewables capacity tied-up or in execution

### **ESG** Targets

- Carbon neutral by 2050
- Water positive by 2050
- No net loss in bio-diversity by 2050
- Zero harm occupational health & safety
- Commitments to community, customers, society
- **Zero waste** to landfill by 2050

## **Novelis' ESG Ambitions**

ADITYA BIRLA
HINDALCO

To be the world's leading provider of low-carbon, sustainable aluminium solutions that advance our business, industry, and society towards the benefits of a circular economy.

30%\*
reduction
in carbon
footprint
by 2026

Carbon-neutral by 2050



10%

Reduction in **Energy Intensity** use by 2026#



10%

Reduction in Water Intensity use by 2026#



20%

Reduction in Waste to Landfill by 2026#

\*Includes Scopes 1-3 Greenhouse Gas Emissions and based on Fiscal Year 2016 Baseline

#Year 2020 Baseline



## Circularity is at the core of our strategies



>50% red mud re-use or >2.3mn tons per annum

>100% fly ash re-use
Spent pot line
100% re-use
by 2027

Novelis recycled

\*2.2 MT\*,
including 82bn used
beverage cans

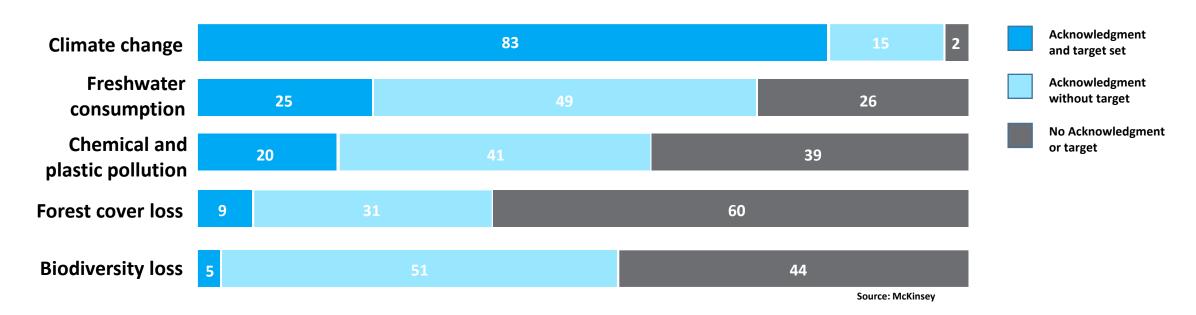
**57%\*** of Novelis FRP is recycled content

**Significant** CO2 Savings per year through prime avoidance



## Corporate targets are mostly common for climate change

Fortune Global 500 companies' nature-related targets and acknowledgments, % share



Hindalco is a leader in environmental stewardship of bio-diversity, waste and water





### **Achievements**



20% addition in number of native species from FY'22 to FY'23 in 3 BMP sites



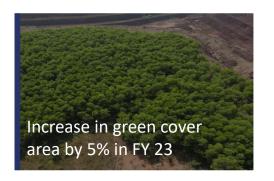








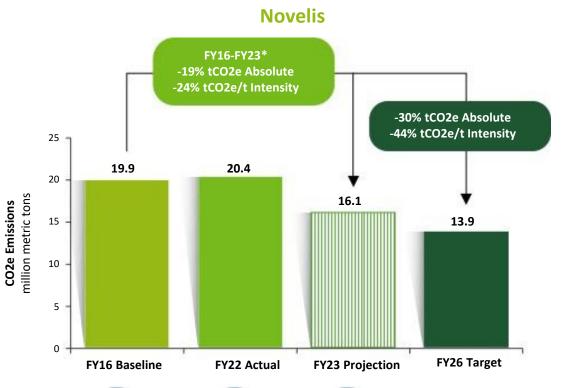


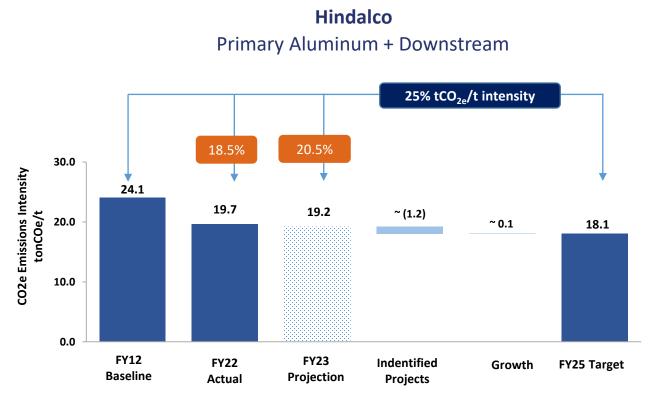




# Hindalco Continues to build out and refine its roadmap to carbon neutral by 2050







## **Key Sustainability Projects**



















## Hindalco is in the top 1% S&P Global ESG score in the aluminium industry



89.5







#### **Industry Distinctions 2023**

Top 1% S&P Global ESG Score (S&P Global ESG Score (as of Feb 7,2023)

Hindalco Industries Limited\* India 83

Top 10% S&P Global ESG Score

Alcoa Corporation United States 77

\*S&P Global Industry Mover

#### **Industry Statistics**

- Number of 17 Market capitalization of assessed companies (in USD billion)
- Number of companies 2 in Yearbook
- Market capitalization of companies 20.6 in Yearbook (in USD billion)

Closest peer to Hindalco is Alcoa Corp. which is in Top 10%

Total of
67 Companies in
Top 1% across
all the industries

companies are included in yearbook 2023 out of 7,800 companies assessed

712



### Market Leader with Unmatched scale & presence



### **Key Facts and Figures**

Fiscal Year 2022



\$17.1Bn
Revenue

\$2.0Bn

Adj. EBITDA F

3,858kt

**FRP Shipments** 

\$530

Adj. EBITDA per tonne



33

Operating Facilities

12,690

**Employees** 

**80+** 

**Countries Served** 

#1 Can & Auto

**Market Position** 



**2.2mt** 

Recycling Inputs Utilized

**57%** 

Recycled Content 82Bn

**UBCs Recycled** 

4%

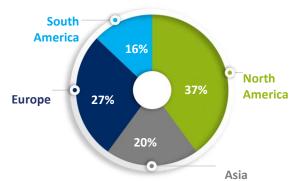
Global FRP Industry CAGR 2022-27\*

Novelis is embarking on a transformational organic growth period to further its ambition to be the world's leading provider of low-carbon, sustainable aluminum solutions that advance our business, industry, and society toward the benefits of a circular economy

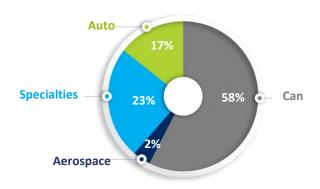
#### **Unmatched Scale with Global Presence**

Fiscal Year 2022 FRP Shipments 3,858kt

#### **Novelis Shipments by Region**



#### **Novelis Shipments by Product Market**





### **Macro Headwinds muting** Near-term performance

### Q3FY23 a trough, but expect headwinds to persist into FY24



**Volatile energy** & other cost inflation

Gradually

improving

scrap supply in

**South America** 



### Select end-market challenges

- · Strength in automotive & aerospace markets
- B&C /specialty in Europe & North America from inflation & interest rates
- Beverage packaging

destocking, weak summer in Brazil

### Mitigating actions



Working capital & phasing of capex



**Operational** and commercial excellence



EBITDA/ton achievable when headwinds subside

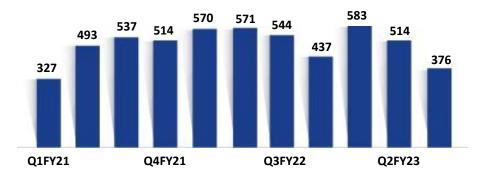
\$525 Adjusted

Inflation mitigation through cost optimization

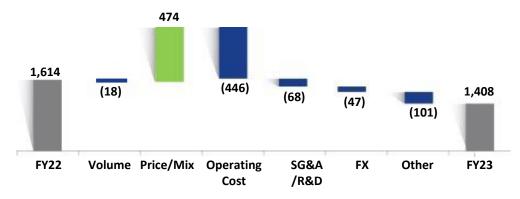


Hedging programs to mitigate volatility

### Quarterly Adjusted EBITDA \$ per ton trend



### Adjusted EBITDA YoY, 9 months ended Dec 31 (\$ Millions)



## **Short-term trends impact can Sheet demand in CY2022-2023**





### **Lack of Promotional Activity**

Brand owners' price increases & lower promotion leading to lower volumes



### Normalisation in patterns & channel

Reverting to normal consumption patterns with more on-premise post-pandemic



### Supply chain challenges

2022 supply chain challenges led to over-ordering inventory from multiple suppliers

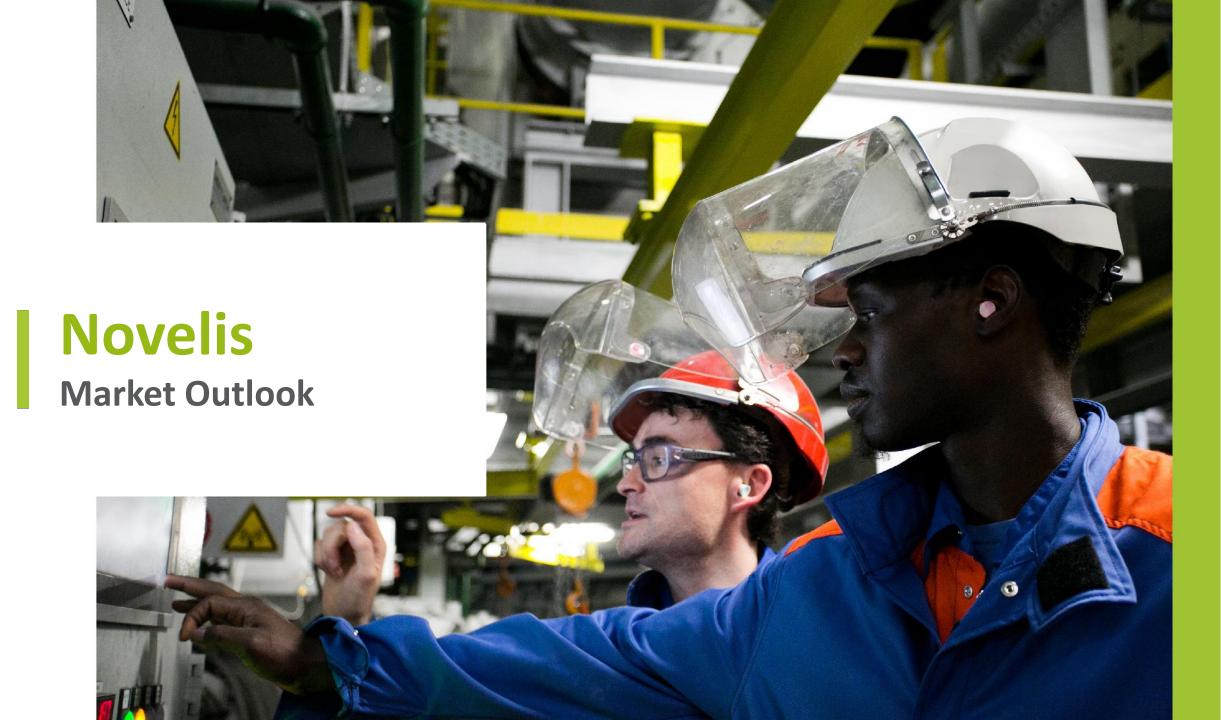


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Customers pushing price, pushed it too far, and there was price elasticity that kicked in. Beer was down the most. And I think what we're seeing is a return to more promotional activity here right out of the gate in Q1.

... a major CSD player pulled promotional activity out of one of the major retail channels in the US, and we saw an immediate impact on our volumes ... we expect to see [promotional activities] going through 2023 and into 2024 ... so that's why we're hopeful for the back end of 2023 and into 2024 that we'll see another uptick in volumes.

ichor CEO Ball O4 2022 Farning

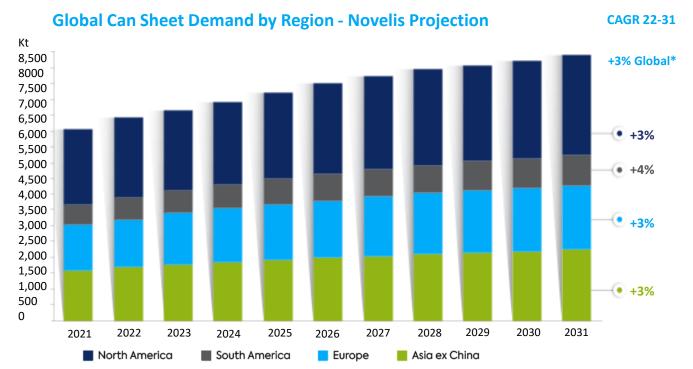


## **Long-Term Cansheet Demand Remains Robust in All regions**



Novelis is the largest supplier of beverage can sheet with **40% global market share** (ex-China), shipping over 2.2Mt of can sheet in FY22

Despite recent disruptions, market demand remains strong with **3-4% CAGR** in all regions



Key global trends that drive beverage packaging demand

### **Substrate shifts**

driven by sustainability and new products will increase metal demand

### Consumption driven demand

primarily within Energy, Alcoholic RTD, and Flavored Water categories

### Form factor (sleek/small cans)

shifts will materially affect metal demand in carbonated soft drinks

Source: Novelis Estimates

\*Global & Asia estimate exclude China demand





Novelis' new low-carbon, state-of-the art aluminum recycling and rolling facility in Alabama will serve growing demand for aluminum beverage can sheet and automotive aluminum in North America

Novelis is the North

American market leader
with ~30% share (2022)

Collaborative customer partnerships support further growth in the can business through investments and long-term contracts

Customer preference for domestic supply when available

Novelis differentiates on product quality, service, and innovation Novelis Bay Minette investment a first mover advantage and nearly fully contracted through end of decade at significantly improved pricing

### **Supply/Demand imbalance supports North America investment**

#### kt North American Can Sheet Market



Sources: Novelis estimates. Supply accounts for estimated announced new Novelis & Industry capacity





### ADITYA BIRLA HINDALCO

## **Electrification will drive robust Long-Term Growth in Automotive Sheet**

### **Growth Pillars**

Vehicle Build Rate



- Near term (CY23-25) global vehicle volume expected to have a CAGR of 4% due to pent-up demand
- Production Volumes expected to flatten post 2026



**Vehicle Mix** 

- SUV + Pick up trucks continues to be a key growth driver
- Premium BEV growing due to government subsidies and ICE city bans

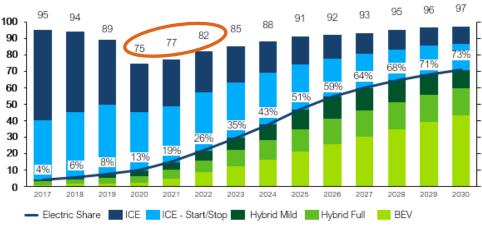


Aluminum Adoption

- Electrification will increase Aluminium content to 550+ pounds per vehicle by 2030
- Higher Aluminium content in vehicles and new systems including battery enclosures
- Opportunity for roll formed aluminum to replace extruded aluminum

### **Global Light Vehicle Production & Electric Vehicle Share**





Source: IHS Feb 2023, Alternative Propulsion Production Forecast

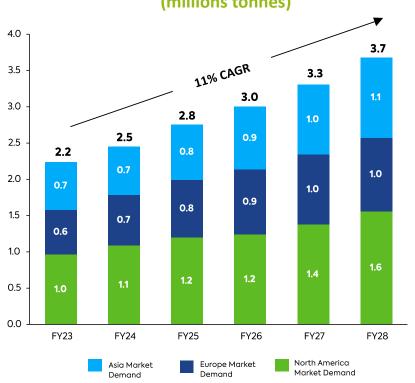
### Aluminium Evolution in North America Pounds per vehicle



## Novelis Automotive well Positioned to capture growth







#### **Novelis FY23 Market Share**





Novelis aluminum sheet capacity expansion aligned with market demand projections



**Source: Novelis Estimates** 

## Diverse Specialties Portfolio is High-End & Regionally focused





Broadly more cyclical markets aligned with economic growth; average long-term market growth ~3-4%

Flexible capabilities enable optimized capacity utilization and portfolio agility

Leveraging our strengths in product quality and innovative high-recycled-content alloy offerings







## Leverage our preferred supplier Position to protect market share



### Our global aspiration

~ 25% global market share

Become **#1** in Europe/Asia

Offer a **full product** range

### Our long-term strategy

Deliver **global growth** as a reliable and stable partner

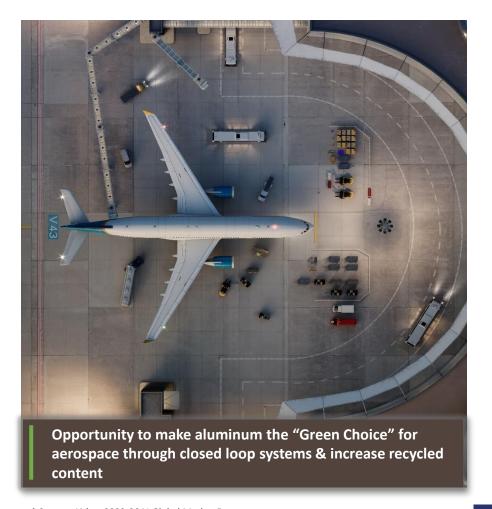
Differentiate via increased recycling content and vertical integration

Capitalize on "local-for-local" edge in Asia

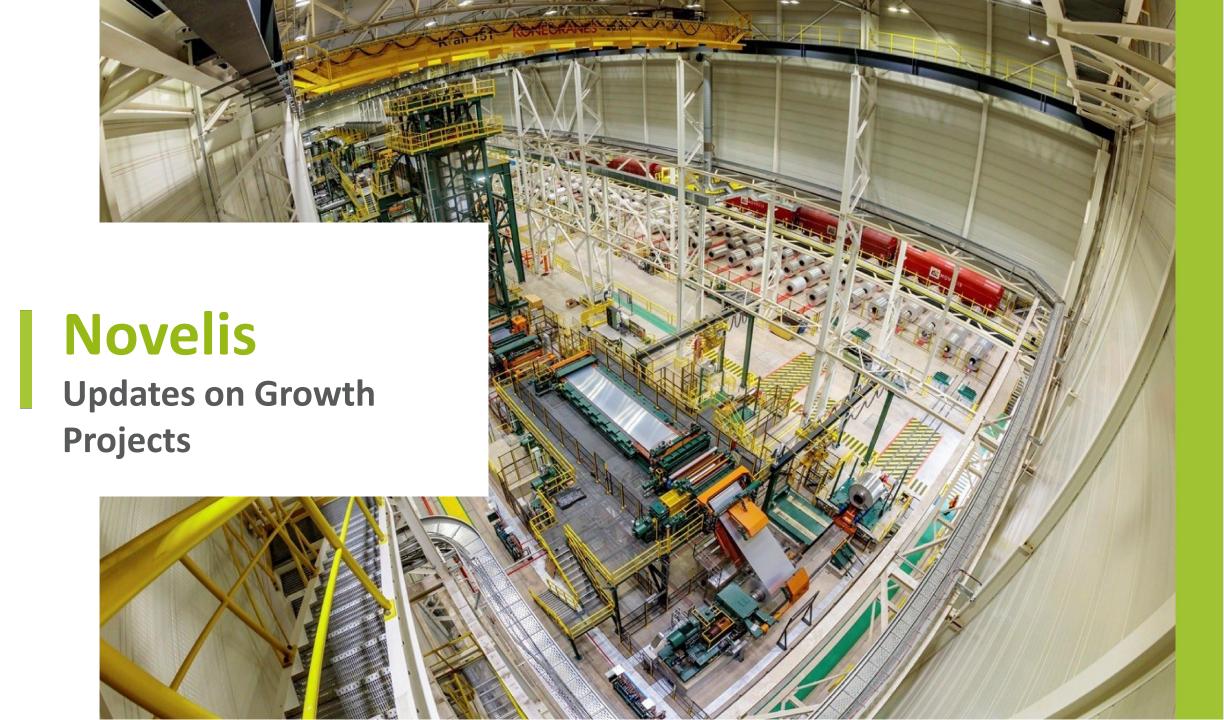
Debottleneck & optimize capacity

Aerospace industry is into a post-pandemic recovery; increased air traffic & a need for fleet modernization driving growth for aerospace aluminum plate & sheet demand

- OEMs forecasting air traffic to grow 3.6% annually\*, leading to a need for ~ 40k new aircraft of which ~80% will be single aisle.
- Asian markets accounting for 40% of new demand



<sup>\*</sup> Source: Airbus 2022-2041 Global Market Forecast



## Transformational strategy intact, Prioritized spending



Committed to our transformational organic growth journey to further strengthen industry leading position

Pacing spend of growth capital expenditures, prioritizing \$3.3 billion of projects already underway

Timing of further potential investment opportunities will be based on cash flow generation and market conditions

### **Fully integrated US Facility**

#### \$2.5 billion in Bay Minette, AL, US

- 600kt plant by FY26, with hot & cold rolling and 400kt recycling and casting capabilities
- Decades of rolling & recycling experience
- Proven manufacturing excellence drives safety, efficiency & quality
- Capacity is largely committed by long-term customer contracts

### Recycling

#### \$365 million in Guthrie, KY, US

- Adds 240kt automotive-focused sheet ingot capacity by FY25
- Advanced sorting technology and automotive closed loop recycling
- Reduces Novelis' carbon emissions by one million tons annually

#### \$50 million in UAL, S Korea

- Increases annual casting capacity ~100kt by FY25
- Reduces carbon emissions by 420k tons per year

Debottlenecking/ High-return rolling capacity release

\$350 million globally for ~265kt finished good capacity FY24-26

#### **North America**

- \$130 million for 65kt in Oswego
- \$150 million for 80kt in Logan

#### **South America**

• \$50 million for 70kt in Pinda

#### Asia

• \$20 million for 50kt in Yeongju



# Domestic Aluminium Consumption Expected to Double from ~4.5 MT in FY23 to ~9.0 MT in FY33

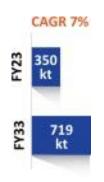




Outlook: 3rd largest market in the World by FY33

Demand drivers: Increase in urban housing demand, premium urban projects and infra

**Applications:** Façade, Formwork, Roofing, hardware etc.





Outlook: 3rd largest market in the World by 2030

**Demand drivers:** Focus on light weighting and increasing share of EVs

**Applications:** Engine castings, Auto Fin/Clad, cylinder blocks, alloy wheels, steering wheels, CMS etc.

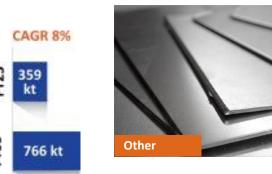




Outlook: Pharma sales increase 2.6x by 2030

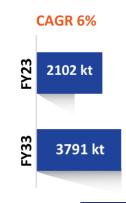
Demand drivers: Growing pharmaceutical, food & beverage and liquor industry
Ban on plastics; online food delivery

Applications: Foils (flexible, pharmaceutical, household foils, Semi Rigid Containers), closures/caps and beverage cans



Other industries include
Electrical, Consumer durable,
Aluminium cookware, machinery
and equipment, railways,
Printing,

**Applications:** Wire, Frames & mounting structures for solar modules, cables / conductors, lugs, heat sinks, transformers, consumer durable, etc.



Source: Company estimates

### Hindalco Aluminium Downstream New value pools with solutions



### **EV Applications – Aluminium Battery Enclosures**



A solution provider for OEMs and access an extended value pool

Co-design and manufacture Aluminium based battery enclosures for Cars and Two wheelers in India

First dedicated 4-Wheeler Battery enclosure plant to be commissioned by Dec-23 with capacity for 164000 units per annum

### **Lightweighting commercial vehicles – Aluminum Trailers**



Aim to improve cost and sustainability of logistics

Lightweight load bodies that reduce deadload and help operators increase fuel efficiency per ton-km or extend range for EVs.

Dedicated cargo box for last mile delivery vehicles with capacity for 10,000 containers established in January 2023

### **Aluminium Railways freight wagons and Passenger Coaches**



Lightweight Aluminium solutions for high speed, efficient and sustainable design for the Indian Railways

Co-design and fabricate Aluminium panels and wagons with rail coach manufacturers.

First Aluminium Rake introduced in India in FY23.

Newer designs being prototyped in FY24

### 'Eternia' - Building Solutions for doors and windows



Consumers seeking reliable and efficient solutions for their fenestration needs are willing to pay a premium.

Uniquely designed window solutions customized to the needs of the customers

'Eternia Fenestration Solutions' – An emerging brand of choice in a fast-growing real estate market

### **Domestic Copper Consumption is** Expected to double from ~1.0 MT in FY23 to ~2.0 MT in FY33





**CAGR: 4.32%** 

270 kt

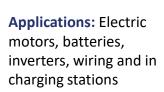
177 kt

FY 23

FY 33

**EV Growth accelerating** on the back of GOI push as well as consumer demand. (Copper Intensity in EV 3-4x

higher)



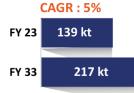




Rapid urbanization and housing growth accelerating home demand

**Applications:** Wires & Cables, Pipes, tubing, and smart systems





Make in India and targeted PLIs moving copper demand to India

**Applications**: Electrical motors & sensors, electronics & cables

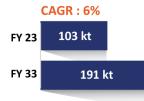


**CAGR: 4%** FY 23 165 kt FY 33 251 kt

Digitalization and improved standard of living expanding home white goods consumption

**Applications:** Copper tubes in ACs, Refrigerators, wiring systems, micro processors & copper alloys etc

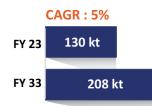




Copper intensity 2-8x higher in renewables (India to triple Renewable Power by 2030)

**Applications:** Renewable energy systems, T&D systems, and hydro/thermal power systems





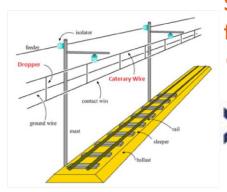
Other articles of Copper like kitchen ware, utensils, brass and other copper alloys.

#### **Applications:**

Kitchenware/cookware, copper films/sheets, Copper Alloy articles

### Hindalco Copper – Moving further Downstream and towards circularity





Superior Copper Alloy Rods for high-speed railways Current Capacity: 5 KTPA

Copper Magnesium rod with superior tensile strength and better environmental footprint for railway applications like Catenary wire & dropper wire





First Inner Grooved Copper Tube facility

Planned Capacity: 25 KTPA

- Thin-walled small diameter grooved tubes for Airconditioning and Refrigeration application
  - Efficient heat transfer
  - Withstand higher pressure required by new generation refrigerants





First of its kind Recycling facility for Copper and E-waste Planned Capacity: 50 KTPA

State-of-the-art Recycling facility for copper and E-waste under appraisal

## Global & Domestic Specialty Alumina Consumption – a promising outlook





19 kt 621 kt 60 kt FY33 Increasing demand for high crystalline alumina and activated alumina products.

Driven by growing mobility and petrochemical industry.

**Applications:** Automotive (Brakepad, Sparkplug, etc.), Defense, Chemical, Petrochemical, and Medical

Domestic CAGR: 12% Global CAGR: 5%





Demand for specialty aluminium hydroxide is increasing due to stringent regulatory, fire and safety standards.

Applications: Wire & Cables, Electrical & Electronics, Transport and Building & constructions.

Domestic CAGR: 15%
Global CAGR: 6%





Increase in global demand for high-quality refractories for cleaner steel manufacturing.

Urbanization development leading to the growth of cement consumption.

**Applications:** Steel Industry, Cement, Glass and non-ferrous.

Domestic CAGR: 11%
Global CAGR: 5%





Increasing trends in miniaturization of consumer electronics.

Disruptive growth in EV segment will increase demand for Lithium ion batteries

Applications: Automotive, Medical, Aerospace Domestic CAGR: 22%

Global CAGR: 7%





Industry is expected to grow at a faster rate due to rapid urbanization and increasing construction activities globally.

**Applications:** Building, Constructions, Home interiors and Countertops

Domestic CAGR: 11%
Global CAGR: 6%

### **Hindalco Specialty Alumina -Cutting edge products launched**



### **Precipitated Hydrate** with finer particles

Superfine Aluminium Hydrate with 1-2 micron particle size for better flame retardancy

### **High Precision SMA Series**

**Super reactive** Sub Micron Alumina facilitates increased density to produce high precision ceramics

### **HCA** series with reduced soda content

High Crystalline Alumina has 4 times lesser soda than regular alumina thereby exhibiting high structural stability & superior dielectric strength

**Thermal** 

### IC series of Alumina with increased purity

**Industrial Ceramics (IC)** series of Alumina exhibits high density with minimal shrinkage, used for **highly** engineered products





Zero Halogen Wire and cables



**Paints** 



**Polymer** insulators





Lithium ion **Battery** separators



Refractory fillers for steel and non-ferrous



**Electronic** substrates





**Spark plugs** 



**Hand Glove** formers





Ceramic **Armours** 



Seals & **Valves** 



**Dense** ceramics



## India Business Growth Projects Under Execution (FY24-28)



Sr No.	Projects	Plant/Region	Capacity(Kt)	Estimated Cost(US\$ Mn)	Expected Year of Completion	Status of Projects		
1	Aluminium-Upstream							
1	Alumina Expansion (via Debottlenecking)	Utkal	350	\$40	FY24	On Track		
2	Can Recycling	Aditya	100	NA	FY25	Project will be executed with a tolling partner; Hindalco will source recycled hot metal from the tolling partner		
Ш	Aluminium-Downstream							
3	Extrusions	Silvassa	34	\$97	FY 24	2 out of 3 Extrusion presses already commissioned		
4	FRP –Casting & Cold Rolling	Aditya/Hirakud	170	\$450	FY 25	On Track		
5	Coated AC Fins (under PLI)	Taloja	26	\$50	FY 25	On Track		
6	Battery Foil Mill	Aditya	24	\$105	FY 26	On Track		
7	Battery Enclosures	Pune	6.5	\$33	FY 25	On Track		
	Total (Aluminium Upstream + Downstream)		\$775 Mn					
III	Copper Business							
8	Inner Grove Tubes (PLI Scheme) and Alloy Rods	Vadodara	25	\$66	FY 25	On Track		
IV	Specialty Alumina							
9	Precipitate Hydrate & White Hydrate	Belagavi	60	\$55	FY 25	On Track		
10	Synthetic Aggregates (Fused & Tabular Alumina)	Aditya/TBD	90	\$55	FY 25	On Track		
V	Energy							
11	Chakla Coal Mine (For Mahan & Renukoot)	Odisha	4.5 MTPA	\$186	FY 26	On Track		
	Grand Total India Business Spends (Proje	ion)	\$1.13 Bn					

## India Business Identified future growth opportunities (FY24-28)



Sr No.	Identified Projects	Plant/Region	Capacity(Kt)	Estimated Cost(US\$ Mn)	Expected Year of Completion	Status of Projects	
1	Aluminium-Upstream						
1	Alumina Expansion (Greenfield)	Odisha	850	\$590	FY 27	Project is Under Appraisal : Bauxite Mining auctions are in progress	
2	Brownfield Smelter Expansion (with 3 <sup>rd</sup> Party renewable power)	Aditya/Mahan	180	\$760	FY 27	Project is being contemplated subject to success of round the clock renewable power pilot project of 100 MW in Aditya	
Ш	Aluminium-Downstream						
3	Large Press Railway Extrusions	TBD	12	\$200	FY 26	Project is Under Appraisal	
4	Other Extrusion Expansions	Silvassa & Kuppam	27	\$150	FY 26	Project is Under Appraisal	
Ш	Copper Business						
5	Recycling for copper and E-Waste	TBD	50	\$250	FY 26	Project is Under Appraisal	
IV	Specialty Alumina						
6	Other Specialty Alumina Products and Brownfield Expansions	Belagavi/TBD	165	\$94	FY 27	Projects are under Appraisal; Timelines being ascertained	
V	Energy						
7	Meenakshi Coal Mine (For Aditya & Hirakud )	Odisha	10-12 MTPA	\$273	FY 28	Regulatory Approvals pending	
	Grand Total India Business Spends (as future growth oppotunities)			\$2.32 Bn.			







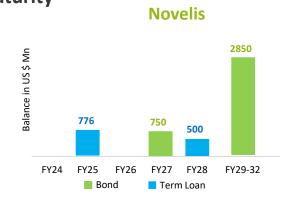
### Net Debt to EBITDA (x)











- Comfortable consolidated Net Debt to EBITDA ratio creating balance sheet flexibility to drive growth
- Long-dated maturity profile for both Novelis & Hindalco allowing sufficient cushion for funding growth capex
- Strong Cash balance of \$1.13 billion in Novelis and ₹8,540 crore
   in Hindalco India at the end of December 2022



### **Key Takeaways**

Financial and operational performance getting adjusted to macro economic challenges in the post covid environment

Our disciplined approach to Capital Allocation and Shareholder returns continues

Long Term market outlook across business segments remain intact, while short term headwinds are transitory

Focus on value enhancing **growth** through downstream expansion and resource securitisation

Our approach to **ESG** continues to be comprehensive across the entire value chain

No major in-organic **growth** initiatives in sight

Our Strong Balance Sheet, an enabler for organic growth



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## Novelis **Growth Projects Under Execution (FY24-28)**

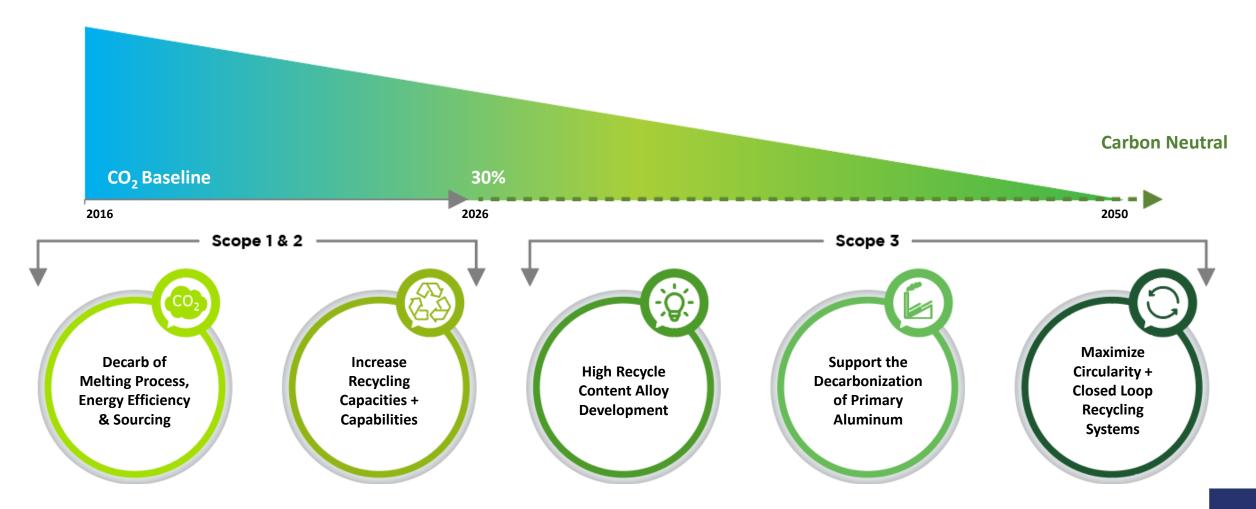
Identified Projects	Location	Primary Product Markets Supported	Capacity(Kt)	Cost(US\$)	Status/Estimated Commissioning
North America					
Hot mill debottlenecking & automotive upgrades	Oswego, US	Specialties, Auto	65	\$130 mn	FY 2024
Recycling expansion & upgrades	Greensboro, US	Auto	30	\$30 mn	Completed FY 2023
State-of-the art Automotive Recycling & Casting Centre	Guthrie, US	Auto	240	\$365 mn	FY 2025
Integrated Greenfield Rolling & Recycling Mill	Bay Minette, US	Can, Auto	600	\$2500 mn	FY 2026
NEW - Rolling debottlenecking	Logan, US	Can, Auto	80	\$150 mn	FY 2026
Asia					
Recycling and Casting Centre at UAL	UAL, S. Korea	All	100	\$50 mn	FY 2026
NEW - Rolling debottlenecking	Yeongju, S. Korea	Can	50	\$20 mn	FY 2024
South America					
Rolling Debottlenecking	Pinda, Brazil	Can	70	\$50 mn	FY 2024
Total projects under execution				\$3.3 bn	



## Novelis Identified future growth opportunities (FY24-28)

Identified Projects	Location	Primary Product Markets Supported	Capacity(Kt)	Cost(US\$)	Status/Estimated Commissioning
Asia					
Delayed: Integrated cold mill and closed loop recycling	Zhenjiang, China	Auto	200	\$375 mn	Under Appraisal
Europe					
Under Appraisal: Brownfield rolling capacity	Germany	Can	200	\$200-300mn	Under Appraisal
Under Appraisal: Brownfield recycling capacity	Germany	Automotive	150	\$100-150 mn	Under Appraisal
South America					
Under Appraisal: Brownfield rolling & Recycling capacity	Brazil	Can	450	\$800 mn – 1.0 bn	Under Appraisal
Total projects as future growth opportunities				\$1.5-1.8 bn	

### Novelis decarbonization Strategy





### Disclaimer

#### NON-U.S. GAAP FINANCIAL MEASURES

With respect to Novelis, this presentation contains certain non-U.S. GAAP financial measures as defined by SEC rules, such as Adjusted EBITDA and Adjusted EBITDA per tonne. We believe these measures are helpful to investors in measuring Novelis' financial performance and liquidity and comparing Novelis' performance to its peers. However, Novelis' non-U.S. GAAP financial measures may not be comparable to similarly titled non-U.S. GAAP financial measures used by other companies. These non-U.S. GAAP financial measures have limitations as an analytical tool and should not be considered in isolation or as a substitute for U.S. GAAP financial measures.

To the extent we use any non-U.S. GAAP financial measures, a reconciliation of each measure to the most directly comparable U.S. GAAP measure is included in the tables at the conclusion of this presentation and in Novelis' earnings release, as applicable, issued on February 6, 2023, which can be found at novelis.com/investors.

#### **INDUSTRY AND MARKET DATA**

With respect to Novelis, this presentation includes data regarding markets and the industry in which Novelis operates, including the size of certain markets and Novelis' position and the position of Novelis' competitors within these markets, are based on reports of government agencies, independent industry sources such as Ducker Frontier, CRU and Airbus, as well as Novelis' own estimates relying on Novelis' management's knowledge and experience in the markets in which Novelis operates. Novelis' management's knowledge and experience is based on information obtained from its customers, distributors, suppliers, trade and business organizations and other contacts in the markets in which it operates. We believe these estimates to be accurate as of the date of this presentation. However, the information may prove to be inaccurate because of the method by which we obtained some of the data for these estimates or because this information cannot always be verified with complete certainty due to the limits on the availability and reliability of raw data, the voluntary nature of the data gathering process and other limitations and uncertainties. As a result, you should be aware that market, ranking and other industry data included in this prospectus, and our estimates and beliefs based on that data, may not be reliable. Neither we nor Novelis can guarantee the accuracy or completeness of any such information contained in this presentation