

Scaling Circularity

2023 Sustainability
Report

Novelis



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Steve Fisher

President and Chief
Executive Officer

Dear Stakeholder,

A little more than two years ago, Novelis announced our ambition to be the world’s leading provider of low-carbon, sustainable aluminum solutions that advance business, industry and society toward a circular economy. As you read this report, you will see that we are making great progress toward that goal – and others.

In a world experiencing the impacts of a warming climate, decarbonization is an imperative action. Given aluminum’s ability to be recycled infinitely, at Novelis, we believe the most impactful way to decarbonize our industry is by maximizing the circularity of aluminum. Our belief is reflected in the theme of this year’s report: Scaling Circularity. By creating a more circular industry, we can effectively reduce our emissions and contribute to decarbonizing the aluminum value chain.

On that note, I’m pleased to share that we reduced our Scope 1, 2, and 3 absolute emissions by 14% in fiscal year (FY) 2023, from our FY2016 baseline*. This is an incredible accomplishment, and I am very proud of our teams for this achievement. Also of note, we completed our first limited assurance of our global greenhouse gas (GHG) inventory for FY23, demonstrating our commitment to data integrity and transparency.

Of course, decarbonization is not a singular effort, and our ambitions are only possible with the contributions of employees, customers, and partners worldwide. Our teams have made significant progress on our expansion projects that will add new recycling capacity to our system. We also formed strategic partnerships with startups focused on innovative technologies that optimize our equipment’s energy consumption. Novelis teams have continued scaling work with our customers to develop closed-loop systems that send their production scrap directly back to our recycling operations, as well as working on further end-of-life recycling solutions. These recent

*See page 25 for a description of the change in our reporting calculation.

actions, along with the leadership we have shown through the formation of Alumobility and being the first aluminum company to sign onto the First Movers Coalition, occur within the five levers of our decarbonization strategy and help us toward the objective of carbon neutrality by 2050 or sooner. Sustainability extends to our employees and communities, as well. We value our employees’ unique ideas and perspectives, shaped by their diverse backgrounds, and we strive to create a safe and inclusive workplace for everyone. That’s why I’m also proud to share that in FY23, we made significant progress on our safety goals, with zero serious injuries or fatalities and a decrease in the rate of days away from work incidents, compared to the previous year.

We are also dedicated to uplifting and supporting employees throughout the company, reflected by our goals focused on assuring better female representation in leadership and in technical and operational roles. While we have made some progress over the years, we continue to seek ways to further advance this important endeavor.

Finally, we strengthened our longstanding commitment to our communities, increasing our charitable giving in FY23 to reflect the financial growth of our company over the past few years.

This report highlights the key metrics, strategies and actions that shaped our sustainability story in FY23 and that influence the pursuit of our Purpose of Shaping a Sustainable World Together. I hope our transparent reporting process builds trust in Novelis and its future as we continue to grow, sustainably.

Regards,

Steve Fisher

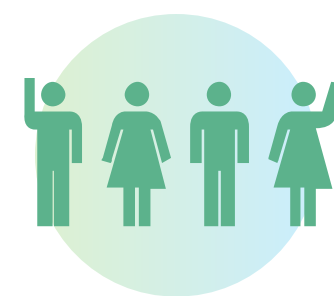
About Novelis

We are a leading global flat-rolled aluminum producer and the world’s largest aluminum recycler, providing sustainable, innovative aluminum solutions to customers in the beverage packaging, automotive, aerospace, and specialty markets. We operate facilities on four continents: North America, Europe, Asia, and South America.

In this report, we review metrics and success stories from our 2023 fiscal year (April 1, 2022 – March 31, 2023) unless otherwise noted. It discloses information on priority topics identified from both organizational and operational impacts and are referenced in the accompanying GRI content index. All tonnages are stated in metric ton and also expressed as t. One metric ton (or tonne) is equivalent to 2,204.6 pounds. One kt is 1,000 metric tons. Location, facility, site, center, plant, factory, etc. are all representative of the same entity.



Novelis Facts by the Numbers (FY23)



13,170

Employees



33

Operating Facilities



3,790kt

Shipments
(Flat Rolled Products)



9

Countries



4

Continents



~2,325kt

Recycled Metal Inputs



\$18.5B

Net Sales



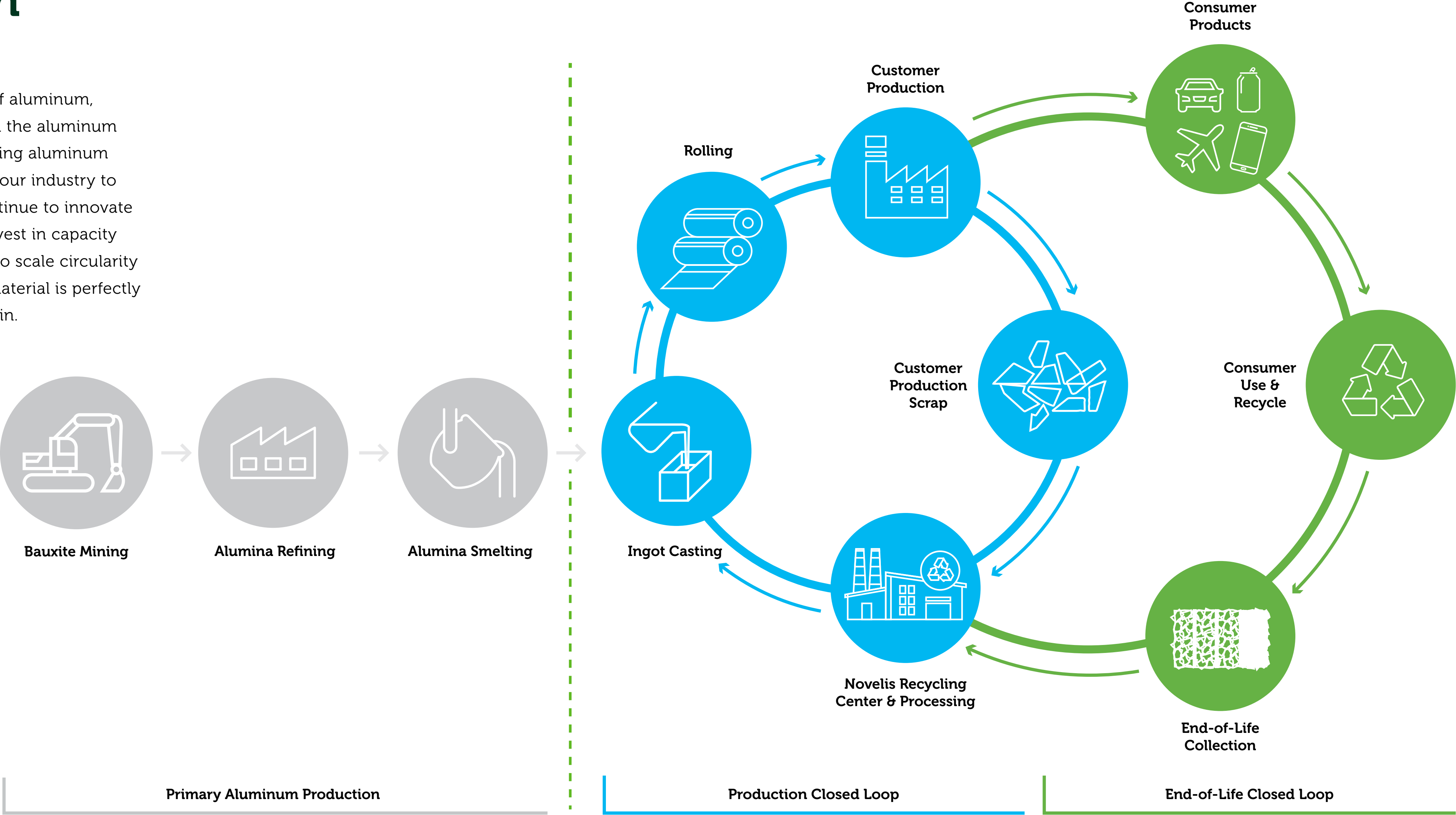
\$1.8B

Adjusted EBITDA*

* See Form 10-K Segments footnote on Page 127.

Value Chain

As the world’s largest recycler of aluminum, we have a unique role to play in the aluminum value chain. We know that keeping aluminum “in the loop” is the best way for our industry to decarbonize. Therefore, we continue to innovate high recycled content alloys, invest in capacity and capability, and collaborate to scale circularity throughout our industry. This material is perfectly suited to be used again and again.



Value Chain Ecosystem Partners

Novelis is focused on bringing various stakeholders together to improve the sustainability of the aluminum industry. We identify the following groups as our ecosystem partners, who are instrumental in our pathway toward scaling circularity and creating a more sustainable world. Throughout this report, you will find stories about our ecosystem partnerships.



Innovation, Research, & Development

We design new alloys and enhance our processing methods to increase the amount of recycled content in our products to reduce carbon emissions.



Customers

In close collaboration with our customers, we create innovative products that meet their specifications, as well as their sustainability goals.



Academia

We accelerate innovation by partnering with leading colleges and universities.



Associations

We are active participants in associations that lead our industry on best practices and standard-setting initiatives that reduce our collective carbon footprint.



Policy Makers and Non-Governmental Organizations (NGOs)

We partner with NGOs and advocate globally for policies, standards, and regulations that increase recycling rates and support our ambition to scale circularity.



Communities

We support community initiatives and engage with non-profit organizations throughout the world.



Employees

The unique ideas and perspectives our employees bring to work help to power Novelis.



Suppliers

The success of our industry's environmental aspirations relies on collaboration with our suppliers along the value chain.



Consumers

We support recycling education and awareness initiatives to increase global recycling rates.



Highlights



Goals



Progress Toward our Goals

As the world’s largest recycler of aluminum, we play a critical role in scaling circularity and decarbonizing our industry. That’s why we set ambitious sustainability goals and track our progress toward completion. Our sustainability goals address important topics for our company and stakeholders, and we commit to reporting and monitoring our performance transparently. Our environmental objectives aim to minimize our impact on the natural world, while our social and safety goals help us create a safer, more diverse, and more inclusive working environment.

* baseline of 2019, 2020, and 2021 average

** from FY2016 baseline

*** from FY2020 baseline

Percentages are rounded

ENVIRONMENT	Environment Goals Carbon Neutral† BY 2050	GOALS BY FY26		FY23 ACTUALS	FY23 COMPARED TO BASELINE		FY23 COMPARED TO FY22	
	Carbon Footprint	30%	REDUCTION**	17.27 MILLION tCO ₂ e	14%	DECREASE	14%	DECREASE
	Water Intensity	10%	REDUCTION***	3.26 m ³ /t FRP	19%	INCREASE	6%	INCREASE
	Waste to Landfill Intensity	20%	REDUCTION***	23.08 kg/t FRP	10%	DECREASE	7%	DECREASE
	Energy Intensity	10%	REDUCTION***	2.79 MWh/t FRP	0.4%	INCREASE	0.7%	DECREASE

SAFETY	Safety Goals	GOALS BY FY24	FY23 ACTUALS	FY23 COMPARED TO BASELINE	FY23 COMPARED TO FY22
	Serious Injuries & Fatalities	0 SIFs BASELINE = 7 SIFs	0 SIFs	700% REDUCTION	100% REDUCTION FY22 = 1
	Total Days Away from Work	30% REDUCTION BY 2024* BASELINE = 0.143	0.12 REACHED	16% DECREASE	25% DECREASE FY22 = 0.16

SOCIAL	D&I Goals	GOALS BY FY25	FY23 ACTUALS	FY23 COMPARED TO BASELINE	FY23 COMPARED TO FY22
	Women in Leadership Roles	30%	24% REACHED	3% INCREASE FY22Q1 = 21%	1% DECREASE FY22 = 25%
	Women in Technical Roles	25%	15% REACHED	1% INCREASE FY22Q1 = 14%	1% INCREASE FY22 = 14%

† Novelis aims to be Carbon Neutral by 2050, meaning we seek a balance of the CO₂e we emit into the atmosphere and the CO₂e we remove from it. To do this, we realize that credible offsetting will be part of the solution.

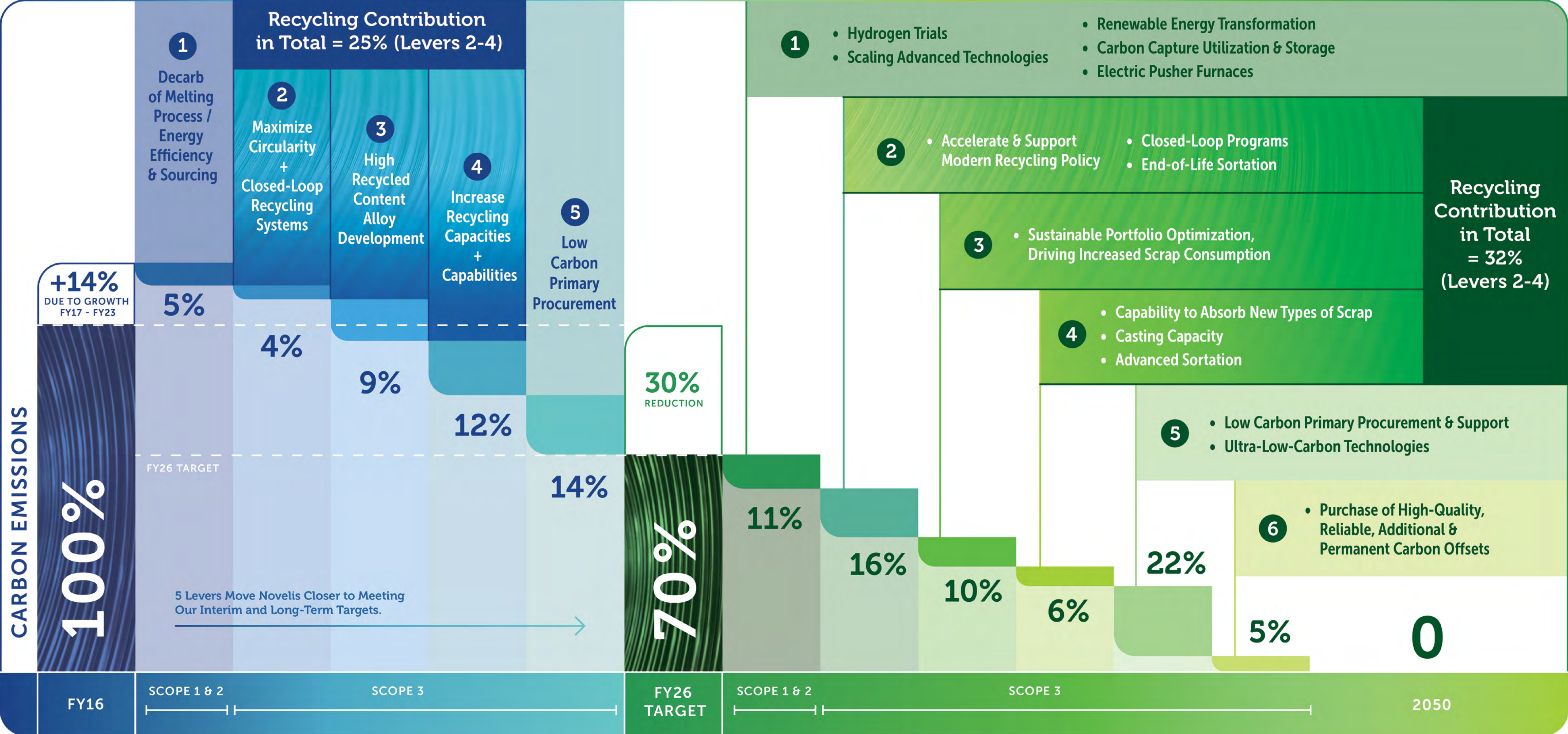
Decarbonization Strategy

Aluminum is a robust and durable material ideal for creating everyday items from beverage cans to cars, buildings, and aircraft. Among its core properties, aluminum is infinitely recyclable with no loss in quality during remelting and re-processing. Additionally, recycled aluminum uses approximately 95% less energy than is required to produce primary aluminum from mining and smelting, with a nearly equivalent reduction in greenhouse gas (GHG) emissions. Because recycled aluminum's carbon footprint is significantly less than primary aluminum, we can continue to reduce our emissions by recycling more aluminum scrap than we do today.

By scaling circularity across our value chain, we can deliver lower-carbon products to our customers.

The following sections describe our decarbonization strategy and our implementation progress over the last fiscal year on our journey to achieve our 2026 targets. Collaborating across our value chain will help us achieve our 2050 carbon neutrality goal.

Decarbonization Strategy



This graphic is for illustrative purposes only and is based on current information and assumptions, which could change. Today, we believe we will meet our FY26 carbon reduction goal. While we have outlined the initiatives and activities within each lever to achieve our 2050 goal of carbon neutrality, we have greater uncertainty for periods beyond FY26, as there are many variables and interdependencies to doing so.

Lever 1: Decarbonizing the Melting Process and Energy Sources

Lever 1 covers our Scope 1 and Scope 2 GHG emissions. Our Scope 1 emissions come from the energy we consume at our operations and represent 8% of our total emissions. Scope 2 indirect emissions come from the energy we source from utilities, which is 5% of our total emissions.

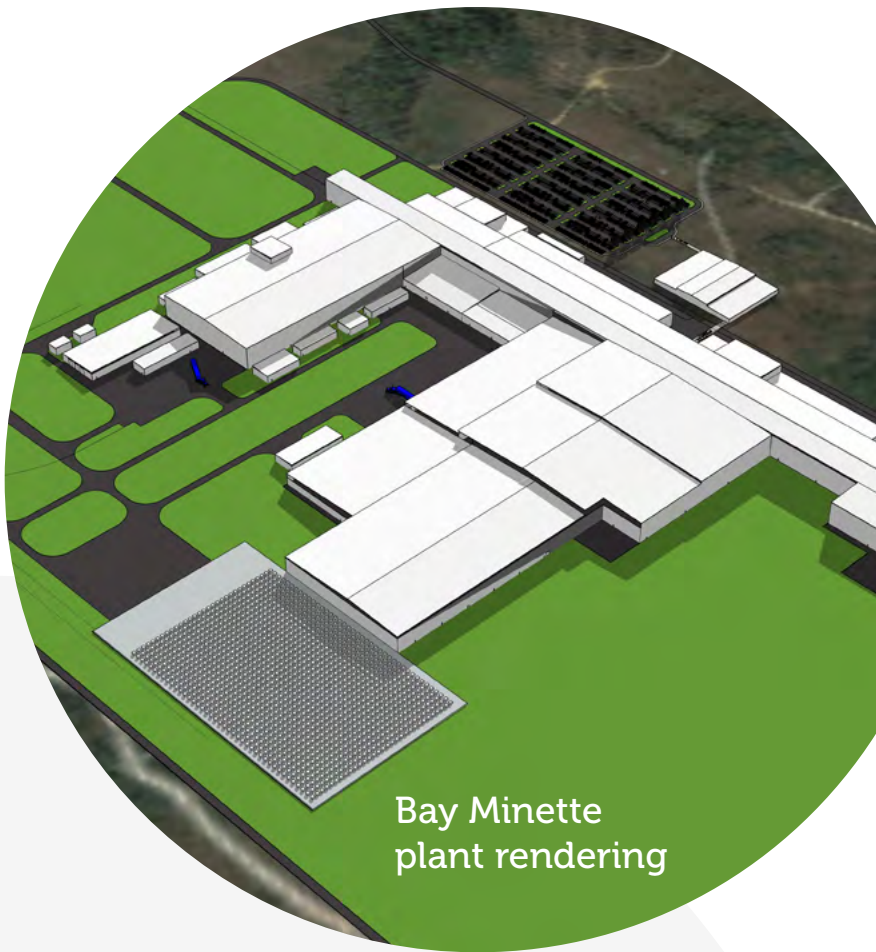
Aluminum recycling — specifically, remelting — is the most energy intensive process in our operations. We make efforts to increase efficiencies in our plants to reduce fuel and energy use. We seek to decarbonize the melting process through alternative fuels, clean energy sources, and innovative carbon capture technologies.

Ecosystem Partnership: Net Zero Lab Valais

The Net Zero Lab Valais in Switzerland is an initiative launched by Novelis together with OIKEN (energy supplier) and HES-SO Valais-Wallis (University of Applied Sciences) in collaboration with the Ecole Polytechnique Federale de Lausanne (EPFL) to advance novel carbon-neutral solutions for aluminum manufacturing.

As a result of the Lab’s research, we approved an investment for a new electric pusher furnace (used to heat ingots before the rolling process) powered by renewable electricity. By switching from natural gas to using electricity generated from renewable sources, we expect to save approximately 4,500 metric tons of carbon dioxide equivalent (tCO₂e) annually, reducing our Scope 1 emissions and reliance on fossil fuels. The furnace is currently being manufactured, and we expect to install it toward the end of the 2025 calendar year.

Over time and where feasible, we expect to scale successful Net Zero Lab projects to our other facilities to reduce Scope 1 and Scope 2 emissions across our operations.



Energy Reduction and Sustainable Engineering Program

Within our R&D team, we have a program called Energy Reduction and Sustainable Engineering (ERASE), which is focused on evaluating, developing, and piloting new technologies and methodologies to help Novelis reduce emissions and meet our sustainability goals. ERASE is exploring the use of carbon capture technology at our Bay Minette, Alabama, USA facility. The program also began piloting predictive software for equipment at our joint venture facility in Logan, Kentucky, allowing it to operate more efficiently, especially regarding energy consumption. We are also actively working on waste heat utilization and black dross recycling initiatives.

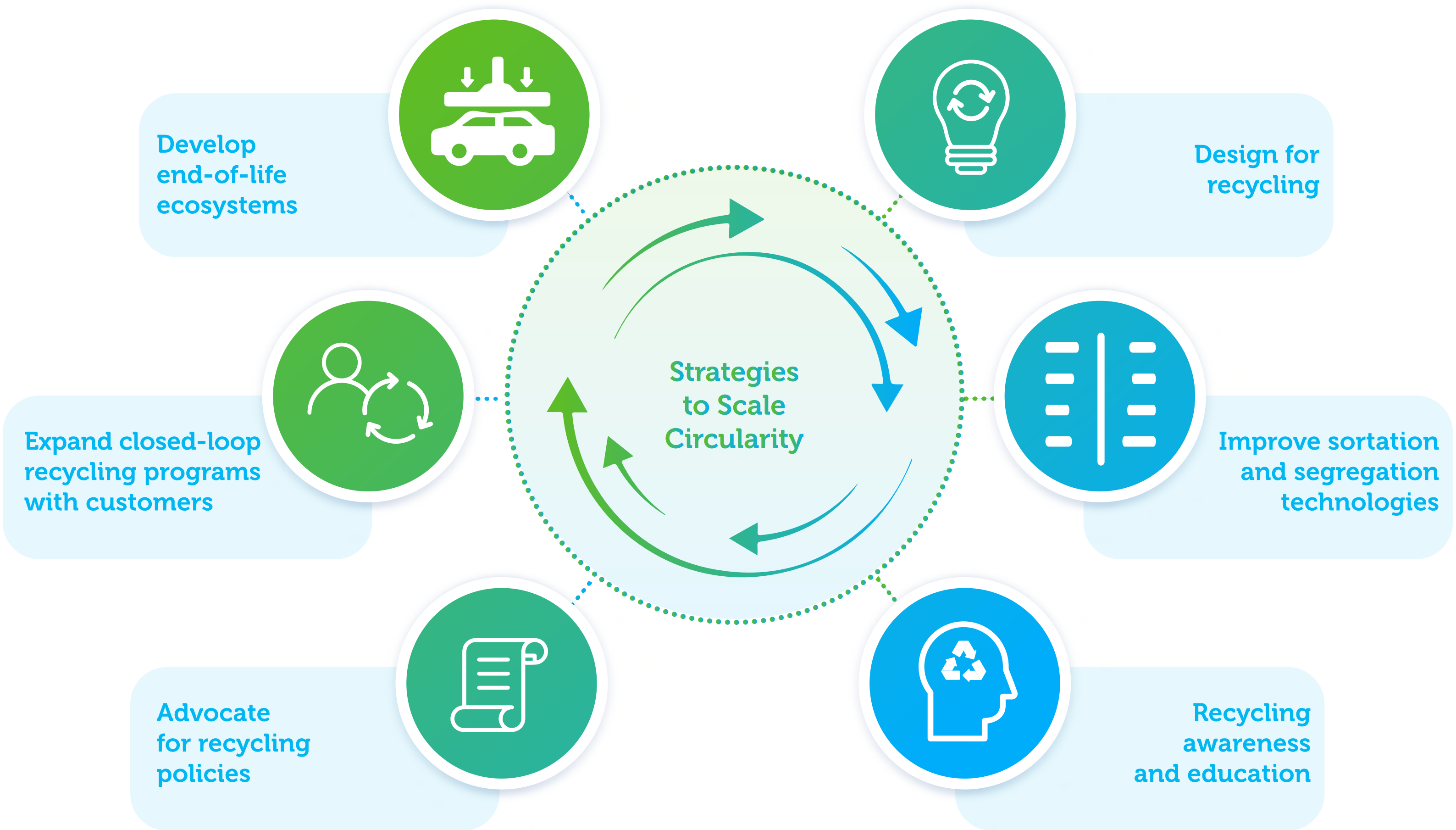
Lever 2: Maximizing Circularity (Increasing Recycled Content)

Creating a circular aluminum value chain is a critical pathway to decarbonizing our industry.

Decarbonization Levers 2 through 5 are focused on reducing our Scope 3 emissions, which account for 87% of our carbon footprint.

We are focused on innovating and scaling the benefits of a low-carbon and circular economy for our business and partners along our value chain. We take a multi-pronged approach to circularity by collaborating with the most innovative partners in the value chain.

While we operate in a complex and changing environment, Novelis is well-positioned to lead.



Scaling Strategies to Maximize Circularity

Design for Recycling — With Customers

Novelis collaborates with key original equipment manufacturers to industrialize aluminum sheet supply striving to contain up to 75% recycled content, contributing to the automakers targets of increased use of secondary materials in vehicle production. To further improve the sustainability of their vehicles, we also support BMW Group’s Car2Car research project. As part of the project, we aim to produce an outer skin panel from 100% recycled aluminum.



The program is also working toward a break-even point between post-shredding technology, material quality, economics, and ecology. Using artificial intelligence (AI) technology, sensors can identify the different aluminum alloys in vehicles at the end of their life, allowing for better material sorting and, therefore, recovery and reuse.

“The Car2Car project is another important step toward economically and ecologically sensible circularity in the automotive industry,” says Michael Hahne, Vice President, Automotive, Novelis Europe. “The intelligent, efficient reuse of post-consumer material preserves resources, significantly lowers environmental impact, and, at the same time, reduces dependency on raw material imports.

Innovation Ecosystem: Advanced Sortation

In the automotive industry, metal scraps are often co-mingled and remelted together. With mixed alloys, we are limited in our ability to remake them into the target alloys for our automotive customers. By properly sorting all types of scrap, we can fully re-use them for their highest value, while also reducing the amount of primary aluminum used in our products. All of this improves circularity and lowers the carbon footprint of our aluminum products.

In July 2022, we announced our partnership with [Sortera Alloys](#), an innovative industrial scrap metal sorting and recycling company. Sortera employs data analytics and advanced sensors to sort the scrap generated during our customers’ manufacturing processes, as well as post-consumer scrap.

Sortera’s process aims to preserve the quality of aluminum alloys by accurately sorting materials so they can be remade into the same products.

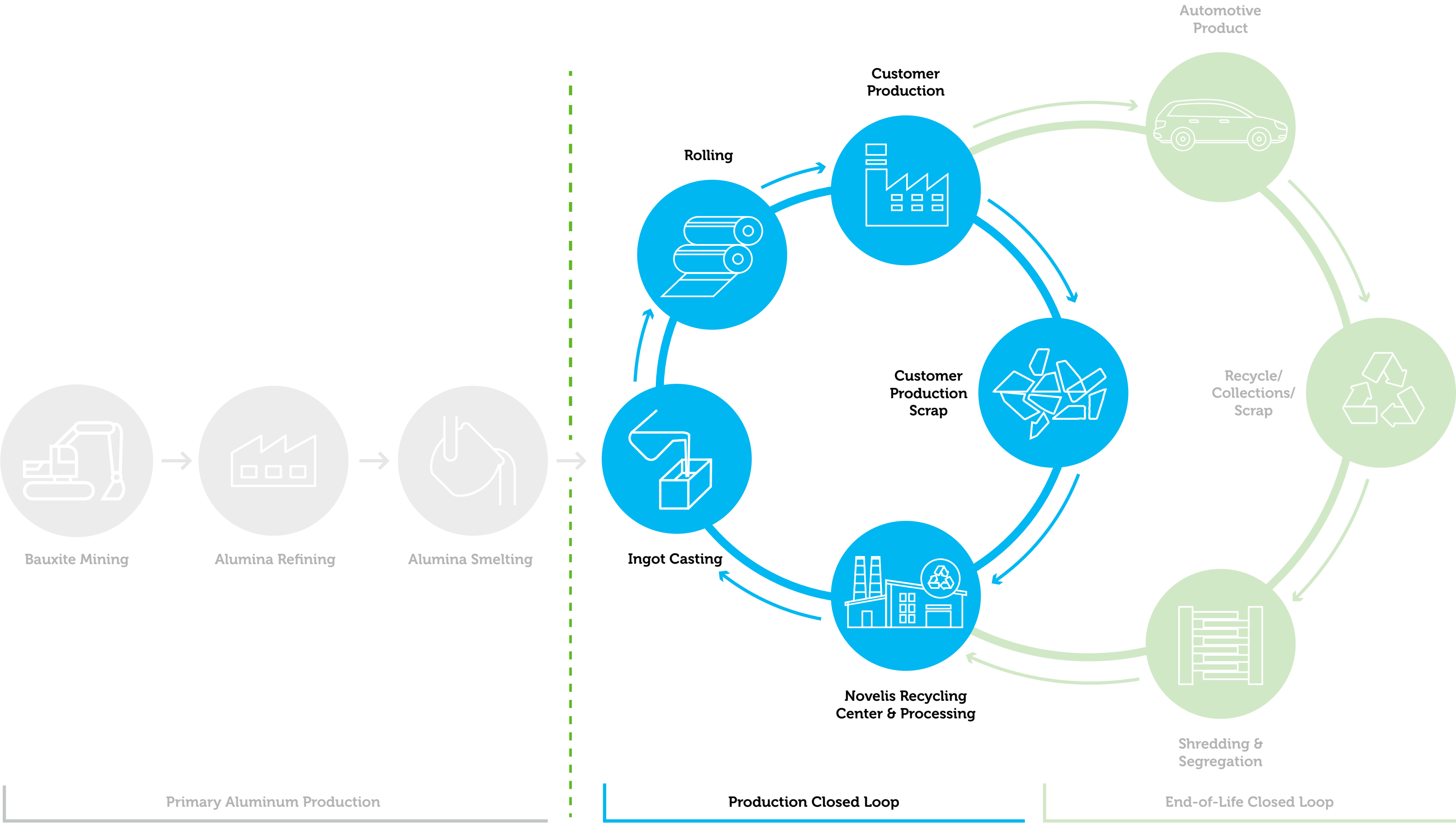
Following the early 2023 commissioning of its 200,000-square-foot facility in Markle, Indiana, Sortera has begun sorting mixed auto production scrap for Novelis as part of our commercial relationship. We continue to work jointly in support of their scale-up and industrialization efforts.

 **Ecosystem Partnership:
Closed-Loop Recycling**

To help our customers reduce their carbon emissions, reduce waste, and preserve natural resources, Novelis takes back the scrap created during their manufacturing processes and recycles it. We call this closed-loop recycling.

In the automotive industry, we have agreements with leading original equipment makers (OEMs), such as Ford Motor Company, Jaguar Land Rover, BMW, Volvo, Honda Motor Company, Nissan Motor Ltd., and Rivian.

Last year, we announced a new closed-loop-recycling partnership with [Smart Press Shop \(SPS\)](#) in Europe, a joint venture between Porsche AG and Schuler Group. SPS focuses on the sustainable and efficient production of exterior body panels for the automotive industry. Through the agreement, we supply aluminum flat rolled products from our plant in Nachterstedt, Germany, to SPS in nearby Halle (Saale), Germany. We then bring the scrap generated during SPS’s manufacturing process back to Nachterstedt, where we recycle and convert it into new, high-quality rolled sheet, which we send to SPS to manufacture the automotive body parts.



Advocating for Recycling Policies

We see tremendous opportunity in improving the U.S. beverage can recycling rate, which has hovered around 50% for the past 20 years. One avenue for doing so is by advocating for enhanced recycling policies, at both the state and federal levels.

Two bipartisan federal recycling bills, The Recycling Infrastructure and Accessibility Act and The Recycling and Composting Accountability Act, were introduced in the U.S. Congress earlier this year. Both bills subsequently cleared the Senate Environment and Public Works (EPW) Committee and await action in the full Senate and House of Representatives. The Senate approved the bills last year, but they did not advance in the House. Novelis believes these bills, if enacted, will help advance the recycling of aluminum and other materials and could serve as a catalyst for additional policies at the federal and state levels that promote recycling and expand the circular economy for aluminum.

The Recycling and Composting Accountability Act

requires the Environmental Protection Agency (EPA) to collect and distribute data on recycling and composting rates nationwide. This data would enable an assessment of the nation’s recycling infrastructure needs and help inform public policy supporting recycling.



The Recycling Infrastructure and Accessibility Act

provides financial incentives for public-private partnerships to improve recycling accessibility in communities that lack the infrastructure, resources, and capabilities to implement effective recycling programs.

As an advocate for recycling, Novelis issued letters of support for the two bills before the EPW Committee vote. We are working closely with the U.S. Chamber of Commerce, the Aluminum Association, and the National Association of Manufacturers to garner the necessary congressional support for passing these bills.

Novelis also fully supports the EU’s Circular Economy Action Plan 2.0 and calls for high ambitions in these initiatives, as well as their swift adoption and implementation.

We also call for ambitious recycled content targets in products to stimulate the demand for products using secondary raw materials and to boost their supply in Europe. Recycling rate targets alone are not enough. Recycled content targets (i) incentivize eco-design, (ii) prevent waste, (iii) promote the reuse of materials into products of similarly high value, (iv) reduce the material and carbon footprint, and (v) strengthen EU open strategic autonomy and resilience. If well designed, such targets can be the catalyst for high-quality, closed-loop-recycling systems.



**Lever 3: Innovating New
High-Recycled-Content Alloys**

Novelis is a leader in aluminum recycling. As such, we achieved an average recycled content in our products of 61% in FY23. The recycled content of our can sheet — our most extensive product line — exceeds 80%. To increase circularity and decrease the carbon footprint of all our products, we work closely with customers in all four of our value streams (beverage packaging, automotive, aerospace and specialties) to develop high-recycled-content alloys that meet their complex technical specifications and requirements.

High-Recycled-Content Roof Windows

In November 2022, we announced a partnership agreement with VELUX Group to provide high-recycled-content, flat-rolled aluminum for VELUX roof windows. The multi-year partnership agreement aims to reach below 4.0 kilograms (kg) carbon emitted per kilogram of supplied rolled aluminum by the end of 2024, which is well below half the average carbon footprint of primary aluminum used in Europe. The aluminum to be supplied to VELUX Group under the partnership contains around 70% recycled content — a 30% increase over the current aluminum we provide to VELUX. With more than 94% of the VELUX Group’s carbon footprint stemming from materials used in its products, value chain collaboration is critical for meeting its emissions targets. In the future, we hope to create more strategic partnerships in the building & construction industry to reduce primary aluminum use and improve emissions reductions.

Innovating New High-Recycled-Content Alloys – With Customers

While globally our beverage can sheet contains approximately 80% recycled content, we believe we have an opportunity to further increase this and are working to do so.

One concept our R&D teams are working on is a single-alloy beverage can design. Today, the can body and can ends are made from different alloys. But, by using a single alloy made from high recycled content for both parts of the can, we can increase the recycled content to more than 90%.

As part of our commitment to the beverage packaging industry, in March 2023, we announced the opening of a new Customer Solution Center (CSC) for this market in São José dos Campos, Brazil. The CSC serves as a collaborative innovation hub between Novelis, beverage can makers, brand owners, and other academic and scientific partners.

By bringing these ecosystem partners together, we hope to inspire ideas and accelerate innovation that will address real-world challenges and further advance the adoption of aluminum as the material of choice for beverage packaging.

“

Novelis is a critical partner in helping Ball reach our carbon footprint reduction goals and achieving full circularity for aluminum beverage packaging. Our longstanding relationship with Novelis continues to generate significant benefits for our companies, our customers, and the long-term health of our planet.

Ron Lewis,
Senior Vice President & Chief Operating Officer,
Global Beverage Packaging, Ball Corporation

”

Ecosystem Partnership: Cosmetics Packaging Makeover

As part of a customer partnership, our team expanded Novelis' evercycle™ product of certified 100% recycled content alloys into cosmetic packaging.

The new alloy offers packaging customers in the beauty, skincare and wellness space an infinitely recyclable solution compared to plastic alternatives.

The global cosmetics industry – producing more than 120 billion units per year using mostly non-recyclable material – is ripe for improvement. With evercycle, consumers can recycle the containers when empty, contributing to a circular economy.



Ecosystem Partnership: Importance of Standards

Developing universally accepted methods and standards for tracking and reporting aluminum recycling's contribution to carbon emissions reduction requires transparency, accuracy, traceability, and accountability from all aluminum industry value chain participants.

To that end, we have advocated for a standard formula to calculate recycled content. An independent third party has reviewed and approved our recommended methodology, which aligns with the best practices established by industry groups like the Aluminum Association, Mission Possible Partnership, and the Can Manufacturing Institute. Using a standard formula for recycled content increases transparency and gives customers confidence in our industry's recycled content claims.





Lever 4: Increasing Recycling Capacities and Capabilities

By increasing recycling and casting capacity, we can produce our own ingots with higher amounts of recycled material, which reduces the need for higher carbon primary aluminum.

As a result of our investments, shown on page 22, we achieved an average of 61% recycled content in our products in FY23. Last fiscal year, we purchased or tolled approximately 2,325kt of recycled metal, including more than 82 billion used beverage cans. We view recycling as the hallmark of our business and a cornerstone of our decarbonization efforts. We look for opportunities to improve our aluminum scrap intake and processes to transform scrap aluminum into new high-value products. Since 2011, we have completed or announced approximately \$2 billion in recycling investments.

Alloy Intelligence

As an example, we recently launched a Batch Intelligence System (BIS) at our Alunorf joint venture facility in Germany. This innovative logistics and loading system increases the scrap input rate and reduces the use of primary aluminum in our recycling furnaces by recording and assessing the available input material. BIS is projected to significantly reduce our carbon footprint, saving approximately 500,000 tCO₂e annually. The new system also protects our employees, as an automatic crane arranges the charging buckets in the warehouse in a structured way that prevents them from getting caught or pulled against each other during movement and detects the presence of people nearby. BIS is one more example of our aim to enhance our operations through efficient equipment upgrades while protecting the health and safety of our employees.

Sustainable Growth

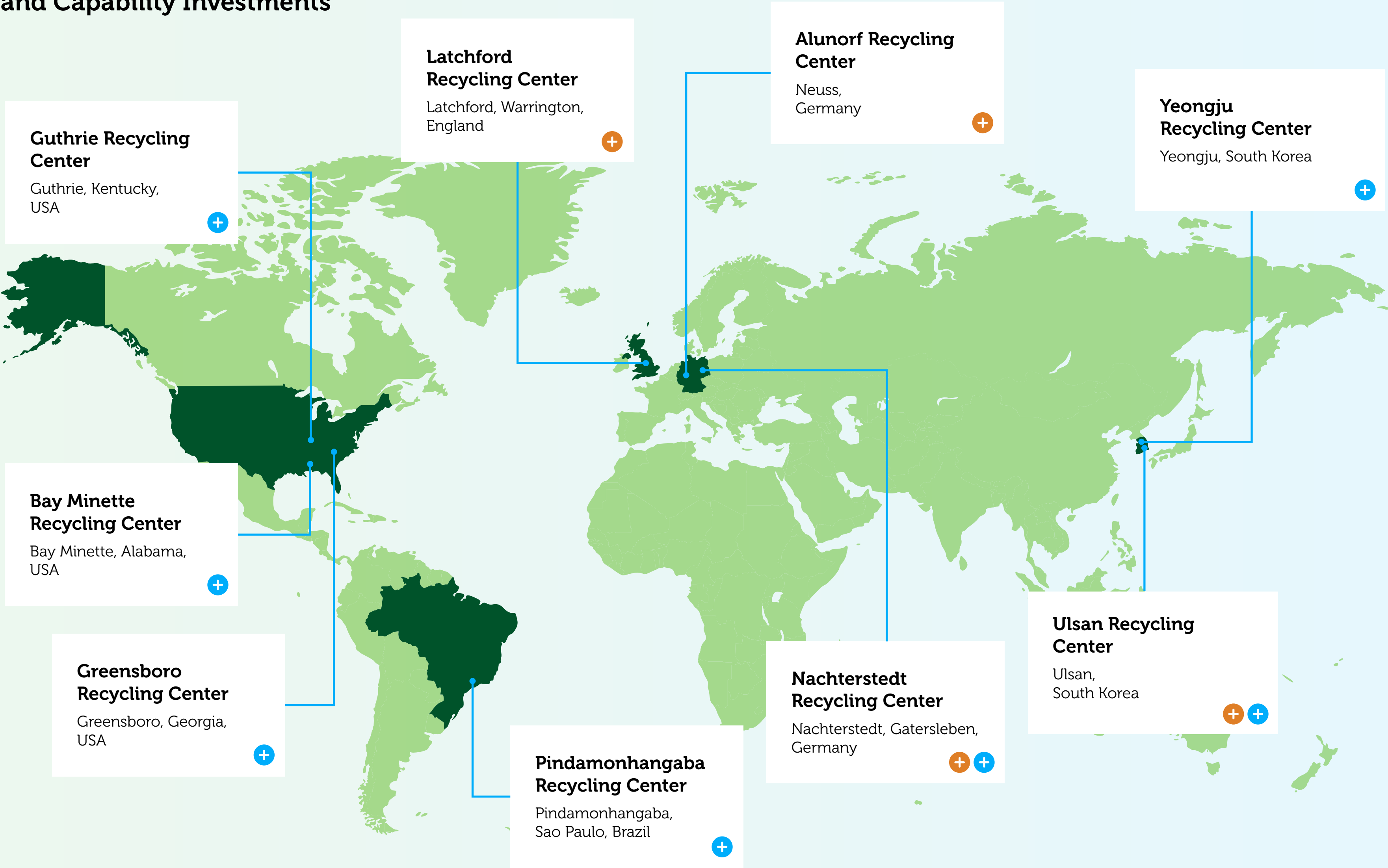
We believe that the market for sustainable aluminum products will continue to grow. Increased consumer awareness is driving the shift to more sustainable materials, as are our customers’ sustainability goals, especially in beverage packaging and automotive. We are expanding capacities and processing capabilities to meet this need in the most sustainable way possible by increasing our recycling and manufacturing capabilities worldwide.

- + Capacity expansion
- + Capability expansion

List non-exhaustive but reflected in allocated spend per 2022 and 2023 Green Bond reports.

- 1
- 2
- 3
- Lever 4
- 5

Recent Recycling Capacity and Capability Investments



Lever 5: Supporting Decarbonization of Primary Aluminum

We explore opportunities to increase the amount of recycled content in our products but are limited by factors like scrap availability, the quality of scrap mixes, and customer requirements. To supplement our use of recycled content, we also purchase primary aluminum, with the aim to secure the lowest-carbon primary aluminum available. Low-carbon primary aluminum is mainly produced using renewable energy (primarily hydropower) for the smelting process. The availability of low-carbon energy sources varies by region.

While we strive to purchase the lowest-carbon primary aluminum available, only about 25% of the 69,000kt of primary aluminum produced globally each year is low carbon, limiting our ability to purchase from low-carbon sources. Ultimately, the primary aluminum industry requires transitioning from high-carbon energy sources (e.g., those powered by coal) to renewable sources to decarbonize the energy-intensive smelting process.

Ecosystem Partnership: Sending A Demand Signal



In 2022, we became initial signatories to the First Movers Coalition (FMC), a joint venture between the World Economic Forum and the U.S. Department of State. As members of FMC, we pledged that 10% of our primary aluminum purchases would be near zero carbon (less than three tCO₂e emitted per tonne of primary) by 2030. This is to encourage investment by the primary producers in the technologies and clean energy sources required to decarbonize the sector. We also pledged that by 2030, 50% of all metal Novelis uses will be from recycled sources — a goal we are already above with a current mix of 61% recycled content. Our commitments to FMC complement our 2026 carbon reduction goal, 2050 carbon neutral goal, and our ambition to scale circularity in the aluminum value chain.

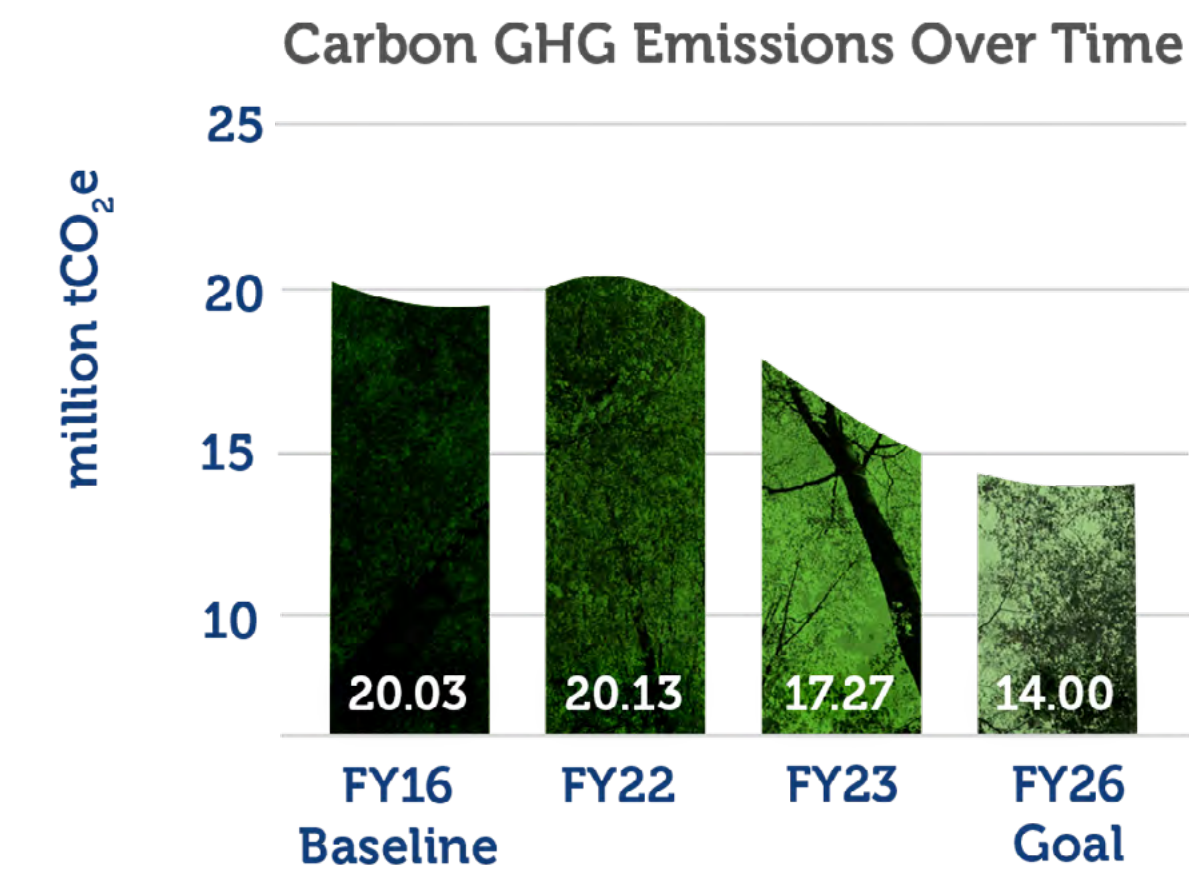
Environment

Novelis is focused on sustainability, and, as such, we are committed to minimizing our use of natural resources. We explore new technologies, form productive partnerships, and enhance aluminum recycling to decarbonize our operations and reduce our impact on the environment. We set near-term emissions, water, waste, and energy reduction goals in 2021, along with a long-term carbon neutral goal.

Lowering Our Carbon Footprint

Our carbon neutral by 2050 goal demonstrates our long-term commitment and is the pinnacle of our sustainability journey. To further our progress in the near-term, we set a target to reduce absolute carbon emissions by 30% by FY26 from a FY16 baseline.

We calculate our absolute Scope 1, Scope 2, and Scope 3 (Category 1 and Category 4) emissions in line with the guidance of the GHG Protocol. By the end of FY23, our absolute emissions decreased by 14% compared to our FY16 baseline. Novelis enacted a change in how we calculate our carbon footprint. We now follow the equity share approach outlined in the GHG Protocol to account for and report our GHG emissions metrics. In FY23, we engaged PricewaterhouseCoopers LLP (PwC) to perform a limited assurance engagement on certain Scope 1, 2, and 3 GHG emission metrics for the first time. See PwC’s Report of Independent Accountants on page 63 and Management Assertion pages 64-65.

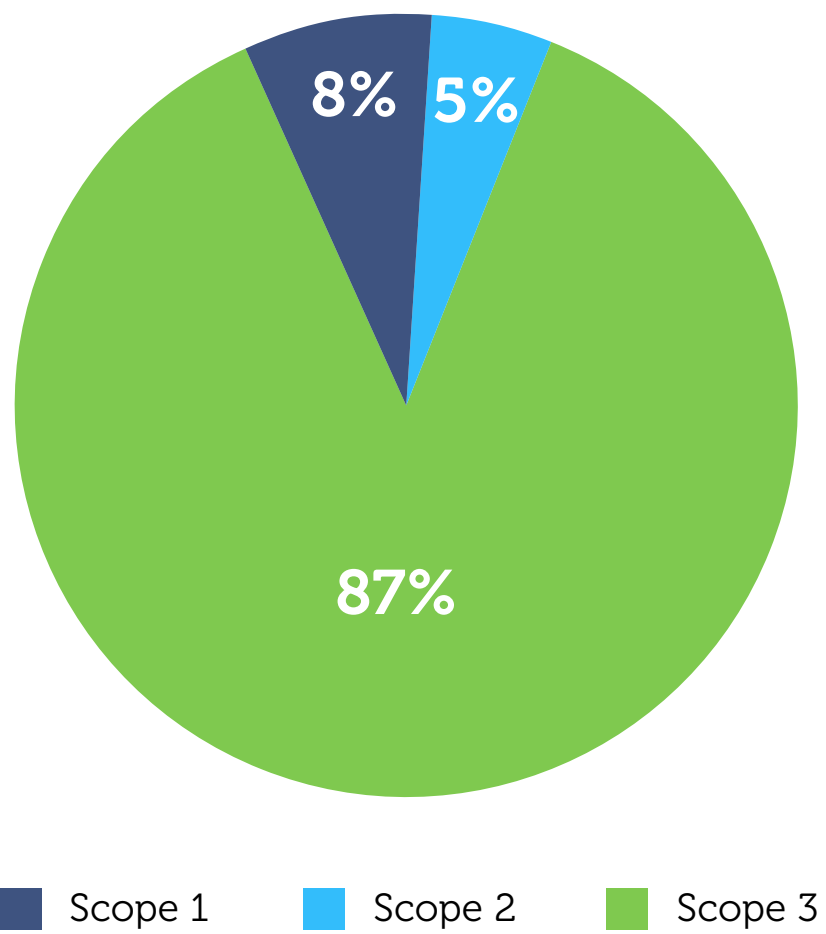


We updated our baseline and FY22 to reflect the change to the equity share approach. Our FY16 baseline increased by 0.7% and our FY26 target is now 14.0Mt.

We also disclose our GHG emissions intensity, measured as our total CO₂e per tonne of flat rolled product (tFRP) shipped. We use our intensity metric to assess our progress toward net-zero-carbon goal as our business grows. In FY23, our emissions intensity decreased by 17% compared to our FY16 baseline. In FY23, we reduced our emissions intensity by 13% compared to FY22.

Compared to our FY16 baseline, in FY23, our Scope 3 emissions from purchased goods and services and upstream transportation and distribution decreased due to our increased consumption of scrap over primary aluminum inputs and conversion to modal transportation and distribution. Our Scope 3 emissions decreased by 14% compared to our FY16 baseline.

FY23 Total GHG Emissions – Scope Breakdown



Reducing Energy Use

We set a goal to reduce our energy intensity by 10% from an FY20 baseline of 2.78 megawatt hours (MWh/tFRP). For FY23, our energy use remained nearly flat compared to our FY20 baseline, at 2.79 mega watt hours (MWh/tFRP) of energy.

Waste heat recovery, lighting upgrades, and energy-efficient equipment factor into our reduction strategies. Our Novelis Asia Engineering, Maintenance, Reliability, and Automation (EMRA) team recently installed Optimal Power Control Device of Motors systems on multiple pieces of equipment, which reduces power consumption by 10% compared to the previous inverter-based designs. In FY24, the team plans to begin work on 13 similar projects, including introducing an Energy Information Management System to continue regional energy reduction efforts.



Waste Heat Recovery

Net Zero Lab Valais recently completed a [waste heat energy exchange project](#) at our Sierre facility. Aluminum ingots cast at the plant require water for cooling, which heats up as it cools the ingots down from a starting point of 660°C. With new equipment installed, our Sierre facility can capture the waste heat from the process and transfer it to the Technopôle, a nearby building complex housing research companies, university offices, and consulting firms. The new energy supply corresponds to approximately 200 kWh, or about one-third of the Technopôle’s energy demands. Our ERASE program is exploring similar technology in the United States at our Logan joint venture facility in Kentucky. We are committed to investing in innovative technologies that improve energy efficiency and ultimately reduce our environmental impact.

Increasing Use of Renewable Energy

We are also investing in renewable energy through several recent global installations.

In Brazil, we installed nearly 1,000 photovoltaic solar panels in FY23 across 14 UBC collection centers. The panels will enable the collection centers to be energy self-sufficient and will produce approximately 600 MWh of clean energy per year.

In Italy, we recently announced our first solar park installation. The solar park will supply 4,000 MWh per year – approximately 12% of the Pieve plant’s electricity demand – and will reduce carbon emissions by 1,450 tons annually. Our Net Zero Lab Valais’ partner, OIKEN, has installed a 5,000 sq meter rooftop solar installation on Novelis Net Zero Lab Valais’ premises in Sierre, providing up to a gigawatt of energy per year. Our new integrated mill in Bay Minette, Alabama, scheduled to open the fall of 2025, aims to be scope 2 neutral, powered by renewables.

Novelis aims to build a pipeline of feasible renewable projects in support of our sustainability goals.



Managing Water Use

We recognize that water is a critical resource, and we take action to reduce consumption and improve water quality in our operations. Our goal is to reduce our water intensity by 10% by FY26 from an FY20 baseline.

Novelis facilities report discharges of water from their sites on an annual basis. Our facilities treat water prior to discharge in accordance with local requirements.

Incidents of water discharges that exceed mandated limits are reported externally as required by local regulation, and internally using the Novelis Incident Tracking Database.

Any incidents are investigated to identify root cause(s) and corrective actions are implemented.

We strive to reduce the volume and impact of water discharges through process efficiency, water recycling and reuse, and state-of-the-art water treatment processes. These efforts are aligned with our goals to reduce water intensity 10% by FY26.

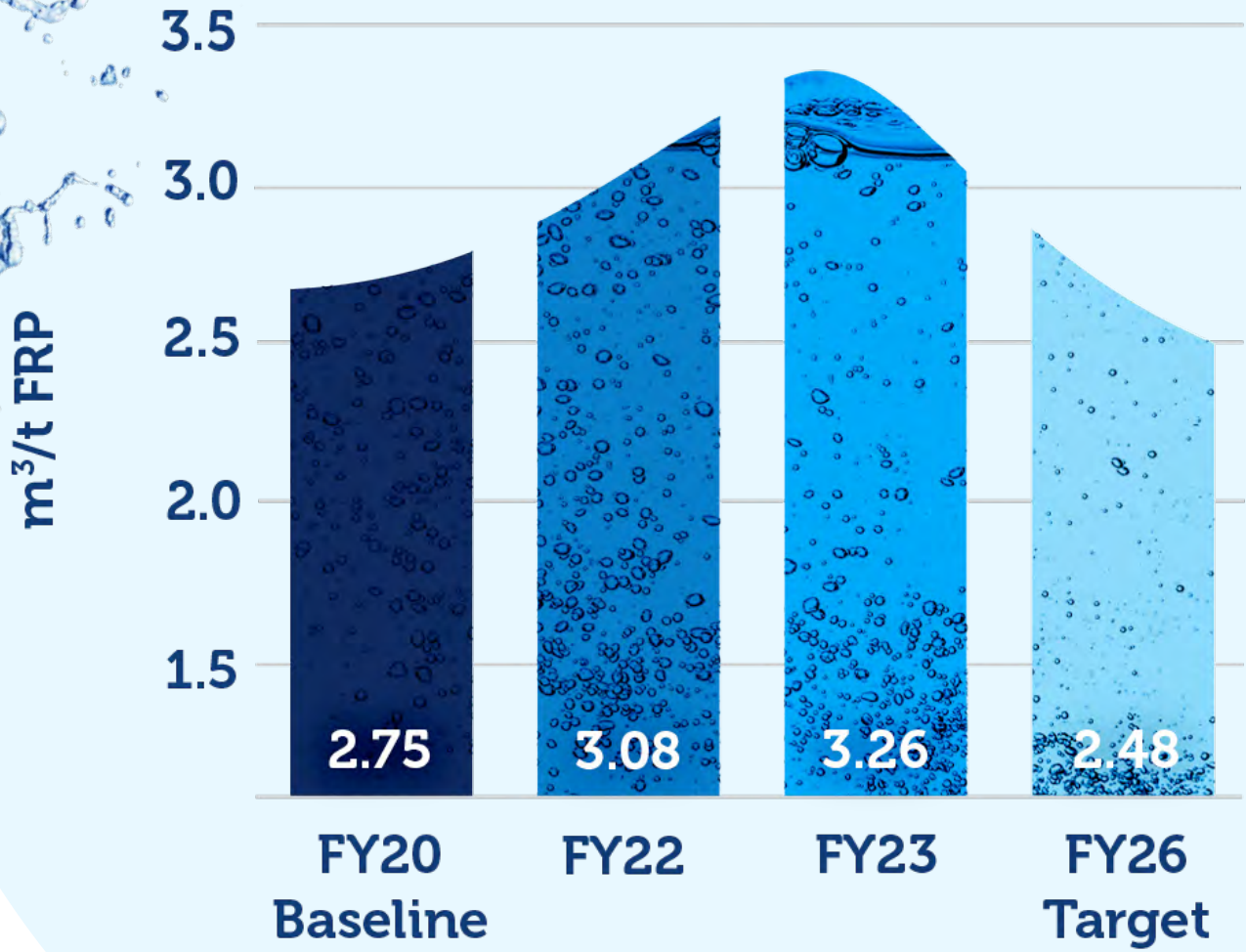
Novelis Asia Reusing Wastewater

Our Yeongju, South Korea facility recently installed a dissolved air flotation (DAF) treatment system on the cooling tower used for the aluminum casting operations. The DAF continuously treats the recirculated cooling water to remove solid materials in the water. This allows the facility to increase the water recirculation rates and reduce the water discharged offsite. The facility has reduced water makeup by 170 m³/day and it has decreased water discharge by 100 m³/day.

Increasing Water Quality and Capacity in South America

The team at our Pindamonhangaba site in South America set out to improve water quality and increase water storage capacity by cleaning up the lake near the factory. Installing equipment to control algae, planting 1,416 native trees, and removing sediment from the lake increased its capacity from 24,000 cubic meters (m³) to 40,000 m³, improving the local environment.

Water Intensity

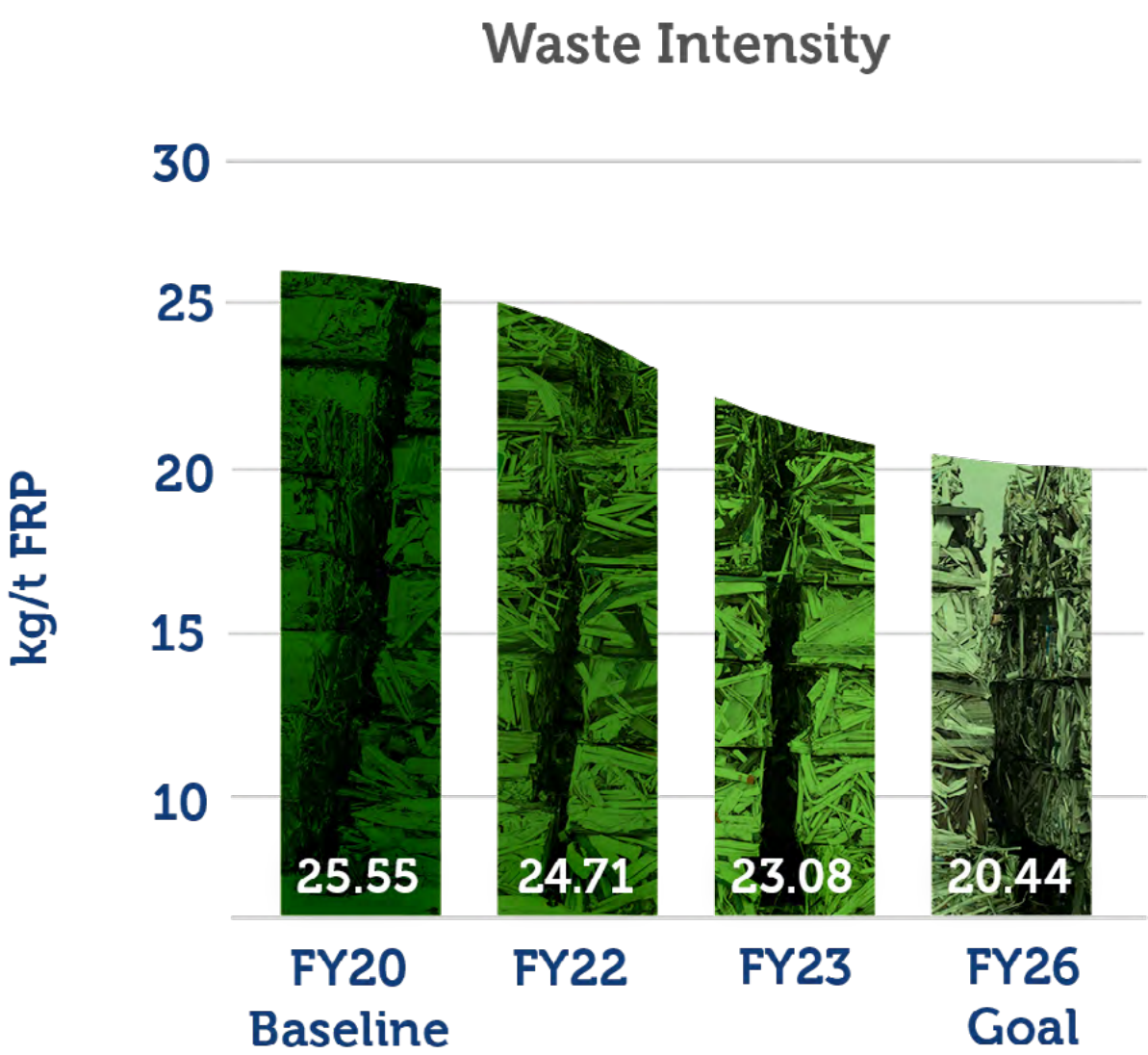


Although our plants have initiated a number of water reduction projects, increased water use at our facility in Oswego, New York, has increased our overall water intensity. The plant is working to reduce water use resulting from damages to their water intake structure.

Eliminating Waste

In addition to our emissions, energy, and water reduction goals, we aim to reduce our waste to landfill intensity 20% by FY26 from an FY20 baseline.

Another focus of our ERASE program is finding new technologies to reduce dross sent to landfill and salt cake waste in pursuit of our FY26 waste reduction goals. Our teams look for strategic waste reduction partnerships, especially those focused on circular solutions. In FY23, we began researching new techniques for reducing and reusing dross with industry-leading partners in North America and Asia.



Reducing Dust Accumulation

The increased use of aluminum in automotive vehicles has created an opportunity for more aluminum recycling. To take advantage of the increased aluminum scrap, our Greensboro, Georgia, recycling center installed state-of-the-art scrap processing equipment in the existing recycling center.

New debaler, shredder, and contaminants removal equipment has increased the capacity of the plant to recycle automotive scrap.

The expansion also includes the addition of a new dust collection baghouse, which increases airflow to 4,500 feet per minute to control the potential accumulation of dust that could result in an explosion.



Innovation Through Collaboration

Novelis’ New Domains team seeks to deliver sustainable product and process solutions for new markets and supports Novelis’ operations by researching leading technologies and managing pilot programs, along with AI and Advanced Modeling. New Domains is part of our broader global R&D team and includes [ERASE](#). In FY23, New Domains worked on several initiatives to advance our sustainability and recycling objectives, including:



Joint research projects with startups and established companies to explore carbon capture solutions to reduce our emissions.



Partnerships with academic institutions like Georgia Technological Institute and Massachusetts Institute of Technology and their spinout companies, to research salt cake, a waste component generated from the recycling of secondary aluminum, and black dross waste reduction, among other topics. For more about our reduction efforts, see Eliminating Waste section on page 29.



Collaboration with energy partners to explore thermal battery energy storage to power our operations.

New Domains pilots new technologies and aims to expand these across Novelis’ operations. The team collaborates closely with our Net Zero Lab Valais; Ventures; Molten Metal Processing; Environment, Health and Safety (EHS); and Operations teams, as well as other key functions to coordinate targeted, impactful pilot programs. Through partnerships, advanced research, and pilot programs, New Domains helps Novelis innovate for new markets and contributes to our sustainability goals.

Product Sustainability

At Novelis, we are committed to supplying our customers with high-quality, responsibly sourced, and lowest-carbon products possible. Aluminum’s durability, formability, and corrosion resistance make it ideal for numerous applications, including beverage packaging, automobiles, planes, buildings and so much more. We take concerted action across our value chain to enhance aluminum procurement practices, reduce environmental impacts through recycling, and bring aluminum circularity to scale.



See many of the products where you find Novelis aluminum.



Increasing High-Recycled-Content Products

Scaling circularity requires fully integrating recycled materials into our product portfolio. While we averaged 61% recycled aluminum content in FY23, several of our products contain more than 80% recycled content, including those for beverage packaging, food and cosmetics packaging, and various building and construction products.

Recycled Aluminum Supports the Auto Industry

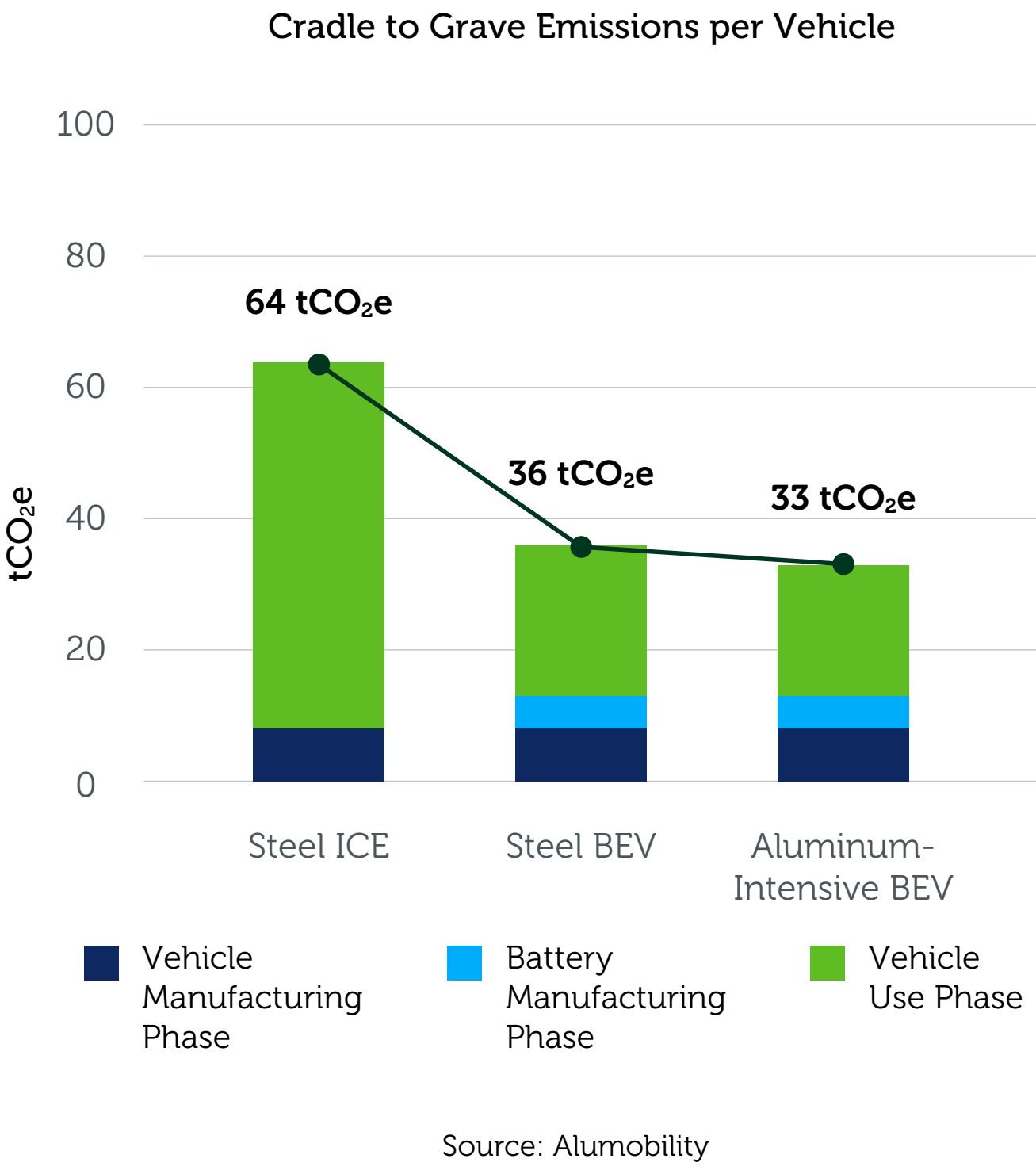
We supply aluminum to the world’s leading automotive manufacturers for both traditional internal combustion engine (ICE) and electric vehicle (EV) models. Lightweight, durable, formable, and recyclable aluminum alloys help automakers increase the efficiency of their cars and reduce waste and carbon emissions. As EVs rise in popularity, Novelis teams in Europe, North America, and Asia are collaborating closely with customers to design structural components and body closures made from more sustainable aluminum alloys.

Product Life Cycle Benefits

Alumobility is a non-profit organization co-founded by Novelis and dedicated to demonstrating the advantages of using aluminum in the automotive industry. In 2023, Alumobility published a study that showed the advantages of using aluminum to lightweight last-mile delivery vehicles (LMDV). The study designed an aluminum-intensive, battery electric vehicle (BEV) LMDV that meets all market requirements, then compared its life cycle assessment to that of a steel-intensive ICE and a steel-intensive BEV.

The analysis showed that the curb weight of the aluminum-intensive BEV is 22% lighter than that of the steel BEV, allowing for a 6-kilowatt hours (kWh) reduction in battery size, less energy consumption, and fewer cradle-to-grave tCO₂e emissions with the same performance. The manufacturing phase emissions of the aluminum-intensive BEV were lower per vehicle than those of the steel equivalent.

Using aluminum to lighten the vehicle body and/or closures creates possibilities for secondary lightweighting, too. A lighter body means a vehicle can achieve the same acceleration, driving performance, and range with smaller brakes, suspension parts, motor, and battery. These secondary weight savings are linked to even more CO₂e emissions savings.



Responsible Sourcing

We seek to create mutually beneficial relationships with our suppliers and mitigate our value chain’s environmental and social risks. Our comprehensive policies and quality controls help us protect the integrity of our business and that of our customers.

Material Sourcing and Supply Chain Transparency

As a United Nations Global Compact Signatory, we endeavor to maintain transparent operations and source our materials responsibly. We work with our suppliers on an ongoing basis. This level of oversight helps us track our sources and avoid buying material from areas at risk of human rights, labor, environmental and anti-corruption violations.

We are working to increase transparency further upstream in our supply chains. For example, in accordance with the German Supply Chain Due Diligence Act, we are implementing a governance program for our German Novelis entities and are looking to replicate the practices across our global supply chain.

Supplier Code of Conduct

As part of the value chain, it’s important to Novelis that our suppliers uphold a stringent standard of ethical conduct. Suppliers must provide goods and services that conform to Novelis’ exacting specifications in line with our values.

As such, we expect our suppliers to:

- | | |
|---|---|
| Comply
with industry standards | Implement
innovative solutions |
| Support
Novelis in our sustainability efforts | Generate
competitive advantages |
| Maintain
ethical business practices | Improve
product performance |
| Foster
mutual reliability and respect | |

Details on our expectations are outlined in our [Supplier Code of Conduct](#), which we publish in seven languages.



Third-Party Certifications

Third-party certifications demonstrate our commitment to transparent and accurate reporting on performance metrics and chain of custody standards.

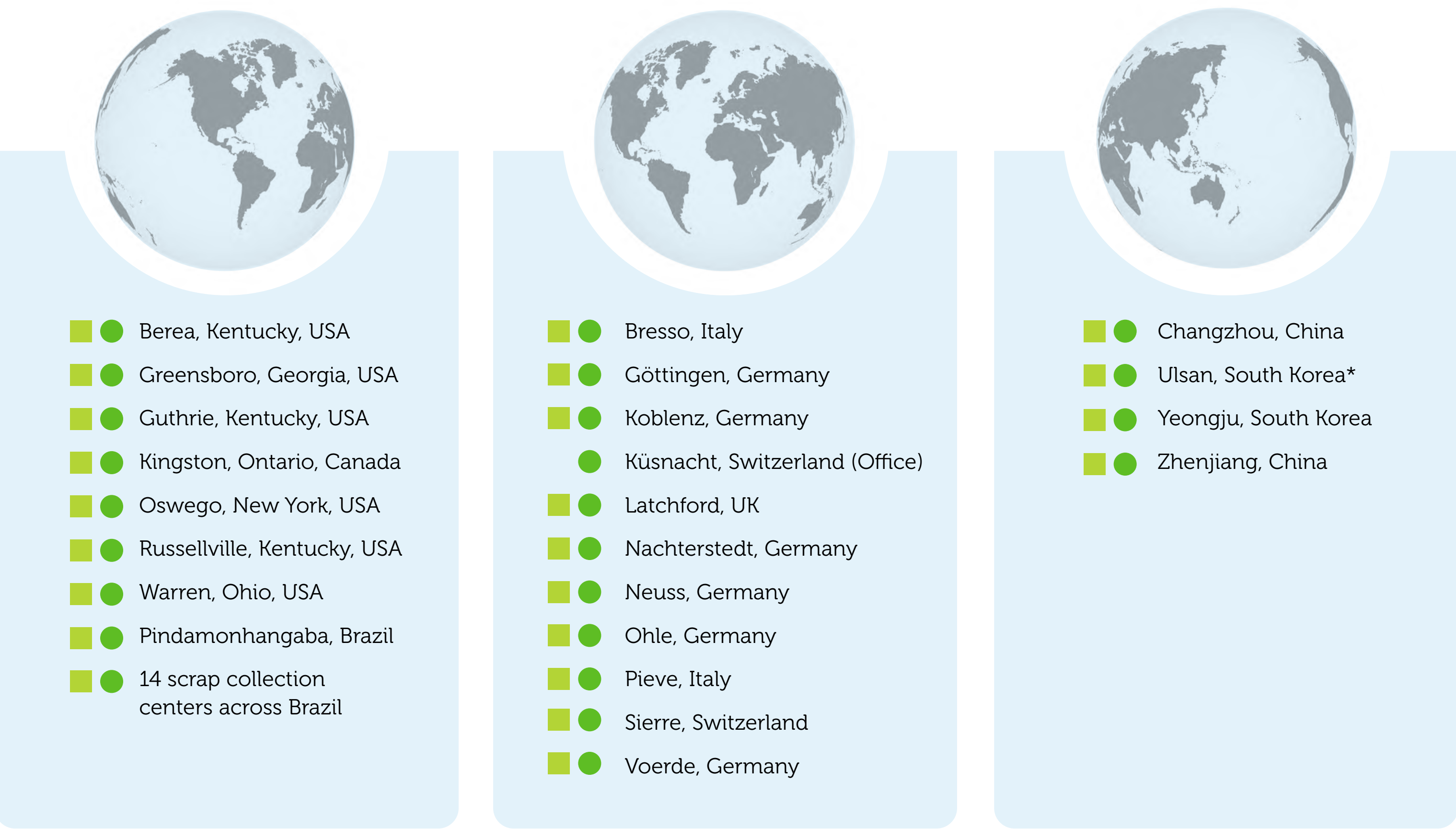
London Metal Exchange (LME) Certified Brands

We specify LME Certified Brands, which meet the LME’s standards for responsible sourcing. This helps us track our sources and avoid buying material from areas at risk of forced or child labor.

Aluminum Stewardship Initiative

We are committed to the Aluminum Stewardship Initiative’s (ASI) responsible production, sourcing, and stewardship standards. The ASI Performance Standard addresses environmental, social, and governance principles for aluminum production. The ASI Chain of Custody (CoC) Standard complements the Performance Standard by certifying production, sourcing, and processing along the aluminum value chain. Having both ASI Performance and Chain of Custody certifications allow an organization to supply independently certified, more sustainable aluminum products. Novelis subject matter experts contribute to several ASI working groups to influence continuous improvement opportunities in the performance standards and to drive greater supply chain transparency and accountability through chain of custody certification.

Aluminum Stewardship Initiative Certified Facilities



● Complete ASI CoC certification ■ Completed the ASI Performance standard

*Joint Venture facility; Novelis processes only

ASI listings are current as of report release date.

GreenCircle Certification

Pursuing GreenCircle certification assures our customers that we are committed to helping them achieve their sustainability goals. Annually, GreenCircle completes a detailed, science-based evaluation to verify the amount of pre- and post-consumer recycled content in products manufactured in our continuous cast facilities in North America.

The certification includes Novelis’ 3105, 3004, and 3025 alloys produced at our Davenport, Iowa; Richmond, Virginia; and Uhrichsville, Ohio, facilities. These continuous cast facilities serve the commercial transportation and building and construction markets, producing flat-rolled aluminum sheet that contains up to 99% recycled content.

Social

The well-being of our employees and communities is of extreme importance to Novelis. We institute programs aimed at not only safeguarding our employees, but also developing their skills so they can build life-long careers at Novelis. We extend our care for employees to our communities through philanthropic and volunteer initiatives.



Promoting a Safe Work Environment

The health and safety of our workforce is critical. Because many of our employees are exposed to processing and manufacturing risks, including heavy equipment and high temperatures, we design programs and initiatives to reduce incidents and injuries. We communicate our commitment to employee, contractor, and supplier safety in our [Environmental, Health, Safety and Quality \(EHS&Q\) Policy](#).

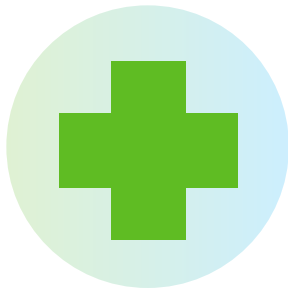
Twenty eight of our sites are certified to the ISO 14001 Environmental Management Standard and 25 are certified to the ISO 45001 Health and Safety Management Standard.

Novelis' Global EHS team ensures compliance with internal and external regulatory standards, supporting our operations worldwide with on-site expertise, and developing and supporting the Novelis Safety System. This system provides a systematic approach to protecting the well-being of our employees and others entering our facilities. Additionally, our seven critical procedures, or Safety Absolutes, help protect against the most serious risks for injury.



In FY23, we experienced zero SIFs across our operations, a 100% decrease from FY22. We also aim to achieve a 30% reduction in total days away from work (DAFW) incident rates by FY24 from a baseline average (FY19 – FY21) of 0.143. In FY23, we had a DAFW rate of 0.12, a 25% improvement from FY22.

Goal: We strive for zero serious injury or fatality (SIF) incidents.



0

SIFs across our operations in 2023

Goal: 30% reduction in total DAFW incidents by FY24 from a baseline average (FY19–FY21) of 0.143



16%

improvement from our baseline DAFW rate in FY23: 0.12

Safety Week

In September 2022, Novelis hosted its inaugural Global Safety Week, an event that encouraged all of our plants, research centers, and offices to reinforce the importance of safety. Education was at the core of Safety Week, which featured hands-on learning opportunities, such as virtual reality simulation training for fork truck drivers; peer-to-peer best practice sharing sessions and incident reviews; and community and family events. Most importantly, Safety Week was an opportunity for the company to come together and focus on the safety measures that help us achieve our safety goals.

Contractor and Supplier Safety

We require all contractors to uphold and comply with our safety initiatives. The Novelis Contractor Safety Process requires contractors to participate in a comprehensive qualification, onboarding, and monitoring program. Additionally, our [Supplier Code of Conduct](#) stipulates the safety expectations, among other topics, for Novelis suppliers.

Safe Workplace Certification

Last year, we announced our Safe Workplace Certification awarded by the Center for Personal Protection and Safety (CPPS). This distinction validates our implementation of a comprehensive violence prevention program. The achievement signifies a long-term commitment to cultivating an organizational culture dedicated to employee health, safety, and security.

To achieve this certification, we worked closely with CPPS to:

- Implement a Workplace Violence Policy prohibiting violence and threats of violence and emphasizing that reports will be treated with the highest degree of discretion
- Provide training for employees and achieve a 75% completion rate, providing awareness about workplace violence, how to recognize and respond to concerning behavior, and how to respond to emergencies like an active assailant
- Enhance training for managerial personnel and achieve a training rate of 75% of managers to teach additional skills to help employees who may be struggling
- Develop and train a multidisciplinary team responsible for overseeing the violence prevention program
- Provide training for executive management to advance violence prevention and intervention efforts



Our Culture

At Novelis, we believe that great cultures drive great results. Our annual People survey is used to gauge our progress in the areas of inclusion, engagement, and living the culture. We used the feedback from our FY23 People survey to create four cultural beliefs, which define the behaviors employees need to demonstrate for Novelis to remain successful.

To instill these beliefs throughout Novelis, we hosted 534 culture workshops throughout FY23, reaching approximately 8,500 employees worldwide, from frontline workers to senior leadership. These workshops aimed to create an open, inclusive dialogue between employees about Novelis’ cultural beliefs and help them understand the cultural beliefs’ connection to our business performance. In FY24, we expect to host more cultural beliefs-based meetings and adjust our employee training programs accordingly.



Cultural Beliefs



In FY23, we employed approximately 13,170 people across four continents:

4,940	4,710
North America	Europe
1,830	1,690
Asia	South America

Company Benefits

Our Total Rewards package is designed to provide individualized support to all employees through the different stages of their life and career. Programs include competitive pay; industry-leading medical, dental, and retirement programs; and generous vacation and paid time off, including parental leave for new mothers and fathers. Employees also have access to a number of wellness programs and support for continuing education.

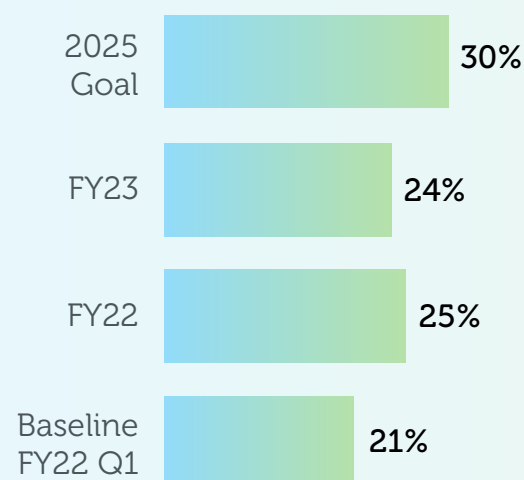
Fostering a Culture of Diversity and Inclusion (D&I)

Our global enterprise spans four continents, representing diverse cultures, ethnicities, and unique perspectives. We want the Novelis career experience to be one in which employees can thrive and bring their authentic selves to work. Fostering a diverse and inclusive workplace can drive innovation, establish a respectful culture within our operations and communities, and attract the brightest talent to our company.

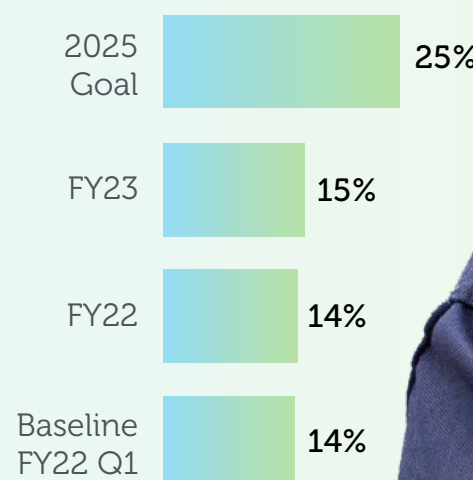
We seek to support our employees and work toward gender parity within our operations. Our goals include increasing female representation in leadership roles to 30% and in technical and operational roles to 25% by 2025. The representation of women in leadership roles decreased slightly from FY22 to FY23, while representation in technical roles increased by 1%.

FY23 Performance

24%
women in
leadership roles



15%
women in technical
and operational roles



Advancing D&I Across Novelis

Our President and CEO chairs our global D&I board, supported by a group of executive leaders. D&I councils in each region support the board, and the respective regional president chairs each council.

We provide support networks across our company to advance diversity and inclusivity in the workplace. Employees actively engage with employee resource groups (ERGs) locally and regionally. Within these ERGs, employees can exchange ideas, gain valuable career development opportunities, forge meaningful relationships, and create a space for belonging and understanding.

WiN Women in Novelis (WiN)

WiN supports the professional development globally and career advancement of female employees at Novelis. This employee-led effort provides our employees a forum to share ideas and network, as well as assists in the recruitment, retention and advancement of women at all levels of our organization.



IGuAI
IGuAI in South America leverages the region's rich differences in backgrounds, expertise, and work styles.

BREATHE Black Representatives Effectively Advocating Toward Human Equality (BREATHE)

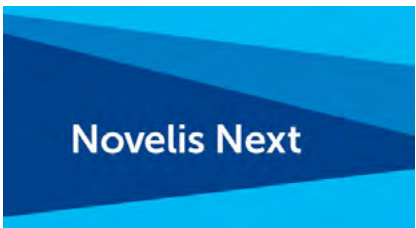
BREATHE focuses on building a sense of belonging for employees by connecting Black employees and allies in social and professional ways to support Novelis' diversity, equity, and inclusion efforts in North America.



¡HOLA!
Provides professional support and engages with the Latinx community at Novelis in North America.



People Respecting Our Unique Diversity (PROUD)
PROUD builds a sense of belonging for employees by connecting LGBTQIA2S+ employees and allies to support diversity, equity, and inclusion at Novelis. We currently have a PROUD ERG in both Europe and North America.



Novelis Next
The Novelis Next ERG in North America focuses on encouraging an atmosphere that promotes employee connection, engagement, and retention through career development, personal growth, and networking.



Making Impact to Support and Sustain Individuals Onward (MISSION)
MISSION connects Novelis' veterans and first responders in North America to discuss topics ranging from how to build and earn trust under pressure to mental health, wellness, service, and overall leadership principles.

Employee Growth and Development

We provide continuous learning and development programs to help employees shape their careers. Our programs focus on helping individuals to advance their careers by developing business and financial acumen, strategic thinking, and leadership skills.

We also support young professionals through early career development programs. Through our 18-month Engineering Development Program, we offer employees an opportunity to learn in-depth about Novelis and its manufacturing processes. This program includes in-depth virtual training combined with hands-on experience in various departments, which helps engineers build solid technical knowledge of our business and operations.



Leadership Programs

We strive to provide our employees with a pathway to success and opportunities to advance their careers. By investing in our employees, we can grow and enhance our business.

We support high-potential employees within the company whom we expect will take over larger-scope responsibilities or be promoted into critical roles over time. Besides general coaching and mentoring, we help them build their leadership capabilities and develop the necessary knowledge and understanding of our business to become successful in their careers at Novelis.

Employees participating in the Novelis Leadership Program learn to progressively manage individual contributors, teams, other leaders, and business functions or units. As individuals progress through the four stages of the Novelis Leadership Program, they gain skills like teamwork, collaboration, risk analysis, and business strategy. We offer a similar program for our operations employees, who learn to become shift leaders, operations leaders, and eventually plant managers. These future operational leaders learn similar skills and focus on safety and sustainability in training sessions.

ROLD Training Program

Novelis' Regional Operations Leadership Development (ROLD) program is designed to provide individualized development opportunities to strengthen the core competencies of our operations leaders. The week-long program combines experiential learning and classroom training to boost:



Safety Expertise



Operations Management Skills



Technical Knowledge



Leadership Skills

Caring for Our Communities

In FY23, the company implemented an enhanced community engagement strategy aimed at increasing our charitable giving in line with our business growth projections. In parallel, Novelis took action to level up strategic partnerships to expand upon models of success and further amplify our impact.

Our approach to charitable investment and volunteering is inspired by our purpose of Shaping a Sustainable World Together.

Science,
Technology,
Engineering and
Math (STEM)
Education

Recycling
Ecosystem
Development

Local
Community
Needs

Year-Round Community Impact

Throughout the year, Novelis volunteers bring our community strategy to life. They spark STEM interest through Career Days and inspire environmental stewardship through dynamic recycling initiatives. Their engagement with schools, NGOs and other stakeholders drive positive local impact.



\$7.5 million

donated by Novelis



350+

community engagements

Amplifying Individual Impact: Matching Gifts Program

Each year, colleagues can request up to \$2,500 in matches to charitable causes important to them.



\$375,000

donated by Novelis employees

Ecosystem Partnerships

Global STEM Education: *FIRST*®

For Inspiration and Recognition of Science and Technology (*FIRST*) introduces pre-K–12 students to engineering, coding, and robotics. This past year, Novelis increased its support by joining as a [Strategic Partner of FIRST](#) and making a \$1.5 million commitment over three years. As a Strategic Partner, Novelis provides holistic support through thought leadership, volunteering, sponsorship, and in-kind donations, inclusive of our aluminum, which all 2,500+ global *FIRST* Robotics Competition teams receive annually.



\$800,000+

Total investment in *FIRST* in FY23

98

Novelis-sponsored teams, including five all-girls teams

2,500

FIRST Robotics Competition teams building robots with Novelis aluminum

10 teams

Received CanBot grants



Championing Talent and Innovation

Through our long-term collaboration with *FIRST*, Novelis is growing a mutually beneficial partnership that is developing diverse talent pipelines, underscoring aluminum as the most sustainable material, and building deeper relationships with customers and stakeholders who value sustainable innovation.

Inspiring Girls in Korea

Since 2019, Novelis has funded and supported robotics workshops in schools near our Yeongju plant in South Korea to bring *FIRST* programming to this community. Today, more than 300 students from 63 teams have benefited, including multiple all-girls teams. In February 2023, two Yeongju teams earned spots at the Korea Robot Championship. The Yeongju Girls' High School team took home the Winning Alliance Award, while the Youngkwang High School team received the Think Award.



Energizing Youth in Europe

In February 2023, Novelis Europe sponsored 31 *FIRST* Lego® League teams near our operations in Germany and Switzerland. Under the challenge theme “Superpowered – the Energy of the Future,” teams researched and presented creative ideas for storing energy. By supporting this hands-on learning opportunity that explored a real-world challenge, Novelis hopes to inspire a sustainability mindset that will help our communities thrive in the future.



CanBot Launch with Ball

We partnered with our customer Ball Corporation to award 10, \$5,000 grants to *FIRST* Robotics Challenge (FRC) teams passionate about sharing the benefits of recycling in their local communities. Using the grant, each team built their own can-crushing “CanBot” to take to *FIRST* competitions and other community events.

Recycling Ecosystem Development

Given the high value of aluminum and its ability to be infinitely recycled, Novelis is actively building upon established relationships to further expand recycling ecosystems. Encouraged by the fact that Brazil has recently achieved a 100% beverage can recycling rate, which is largely credited to recycling cooperatives supported by companies like Novelis, we're working to replicate this success. We envision a world where every can is recycled, and, where possible, its value is used to create sustainable funding sources and livelihoods.

Brazilian Recycling Ecosystem Development: Growing Momentum

Novelis' continued support of recycling cooperatives is not only creating sustainable livelihoods, it is also contributing to Brazil's achievement of a 100% recycling rate for used beverage cans.

Brazil Cooperatives Program Overview

32

cooperatives
supported
since 2013

6,000+

lectures, group sessions,
and tech consulting to
strengthen local operations

2,453

cooperative
members assisted

730 metric tons

of aluminum purchased by Novelis
from cooperatives since FY14

Recycling Expo – Creating New Perspectives

In Brazil, Novelis and our beverage can customer Ball sponsored an exhibition called Expo Reciclos – Creating New Perspectives. The exhibit presented nine art works made from aluminum cans, electrical wires, styrofoam, plastic, cardboard, glass, wood, iron, and other materials to stimulate reflection on consumption, recycling, and sustainability. More than 100,000 visitors in the cities of São Paulo, São José dos Campos and Pindamonhangaba passed by the exhibit.



Using the Power of Sports to Improve Recycling Awareness

Through collaborations with Mercedes-Benz Stadium and State Farm Arena in our headquarters' city of Atlanta, Georgia, Novelis has shared the importance of recycling with millions of sports fans and concert goers annually. We've also worked with the venues to develop the infrastructure needed to make recycling easy for fans. As a result, both facilities are diverting more than 90% of their fan-generated waste from landfills.

The venues have been recognized as leaders in sustainability, with State Farm Arena being the world's first sports and live entertainment venue to receive TRUE Platinum certification for zero waste and Mercedes-Benz Stadium being the first stadium in the world to earn the designation.

Mercedes-Benz Stadium and Novelis have achieved some of this success by linking the value of the aluminum recycled at the venue with the funding of Habitat for Humanity homes. Learn more about this initiative, called "Recycle for Good" on the next page.

“

We are thrilled to maintain partnerships with organizations such as Novelis that highlight the positive impact that sustainability has within our community. We are grateful for our fans' commitment to recycling. Their effort has allowed us to recycle more than 4.5 million beverage cans in the 2022 event season across 50 major events and make a direct impact in Atlanta through the Recycle for Good program.

Adam Fullerton

Vice President, Stadium Operations,
Mercedes-Benz Stadium

”



Building Up Communities with Habitat for Humanity

Novelis has been a proud supporter of Habitat for Humanity since 2011. And our colleagues love to “roll up their sleeves” to build safe, affordable homes for working families. Over the years, Novelis has donated more than \$2.5 million to Habitat for Humanity and built dozens of homes for families around the world.



Recycle for Good

What started as a pilot in Atlanta, Georgia, has resulted in communities across the U.S. and Canada using the value of infinitely recyclable aluminum to create sustainable funding sources to benefit Habitat for Humanity International.

In FY23, more than 60 Habitat affiliates received grants and recycling bins from Novelis and an opportunity to compete for additional funding based on the success of their recycling outreach campaigns focused on aluminum can collection. This annual program is educating communities across North America about the importance and monetary value of recycling aluminum while helping to tackle a growing issue particularly for marginalized communities — affordable housing. With over \$750 million worth of aluminum going to landfills annually in North America, and a great need for making home ownership attainable, our Recycle for Good initiative has continued to grow and scale.



Making an Impact at the Local Level

Novelis desires to be responsive to the unique needs of communities and the interests of our colleagues. To this end, local community engagement site champions are encouraged to identify and provide support for causes that help the communities in which we operate thrive. Our colleagues are especially passionate about community cleanups, tree planting, serving meals, teaching youth about recycling, and supporting local first responders. Additionally, we take time every October during our annual Global Volunteer Month to celebrate all of the ways we give year-round.



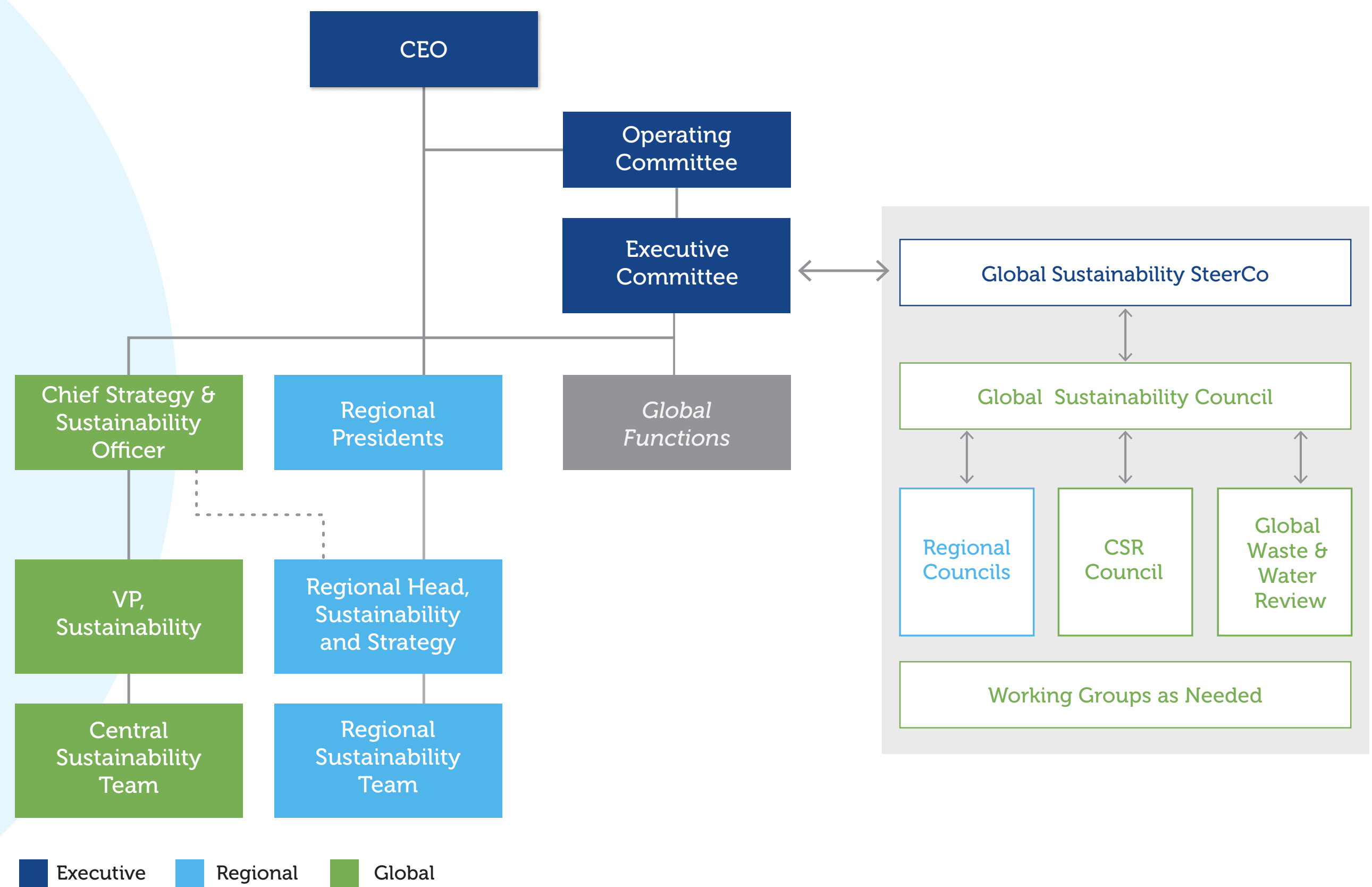
Sustainability Governance

We integrate our sustainability targets into decision-making processes throughout our organization. Our governance model ensures a strategic, comprehensive, and systematic approach to managing progress and achieving our goals.



Global Sustainability Steering Committee

The Global Sustainability Steering Committee, which convenes quarterly, consists of our Chief Strategy and Sustainability Officer, Chief Manufacturing Officer, General Counsel, Chief Procurement Officer, and Chief Technology Officer, as well as our four Regional Presidents and a rotating representation from global value stream leaders (Aerospace, Automotive, and Beverage Packaging). Chaired by our Vice President of Sustainability, the group reviews the progress of top initiatives and guides the overall direction of the sustainability strategy. The committee's organization ensures fast decision-making for all projects and initiatives, as well as proper resource allocation.



Global Sustainability Council

The Global Sustainability Council, chaired by the Director of Global Sustainability, meets monthly and comprises the company's regional Strategy and Sustainability leaders and various subject matter experts. Regional Sustainability Council members set regional-level strategies and define working groups for achieving our targets. Additionally, they cascade local-level metrics to their respective sites.

The Council monitors the progress of all sustainability-related initiatives. When needed, it dives deep into a topic and compiles all necessary information to make recommendations for decisions by the Global Sustainability Steering Committee.

Global Waste and Water Council

Novelis' Global Waste and Water Council comprises global and regional EHS managers, as well as global and regional Sustainability leaders who track waste- and water-related metrics and coordinate improvement projects across the company. The Council works with all of Novelis' manufacturing sites and meets monthly to discuss projects, identify opportunities for new initiatives, and manage the pipeline of projects to be proposed for funding. The Director of Global Sustainability and the Global EHS Senior Manager chair the council.

Green Bond

We aim to finance a lower-carbon, more circular economy through investments aligned with our environmental priorities. As such, in 2021, Novelis issued a €500 million bond to finance projects that advance our sustainability and circularity goals. Our Green Bond Committee approves projects aimed at increasing our aluminum recycling capacity, reducing our primary aluminum usage, increasing our use of renewable energy, and lowering our GHG emissions. Our [2023 Green Bond Report](#) highlights the amount of Green Bond proceeds we have allocated toward recycling technologies and renewable energy projects since issuing the bond.



Green Bond Committee

A Green Bond Committee composed of Novelis' Chief Executive Officer, Chief Financial Officer, Chief Strategy & Sustainability Officer, Regional Presidents, and Vice President of Global Sustainability is responsible for assessing and selecting eligible projects in which to allocate the proceeds from the €500 million Green Bond issued by the company in March 2021.

Operating Ethically

As a responsible corporate citizen, we abide by the laws and regulations of the countries where we operate while showing respect to local communities. Our honest and ethical conduct has earned us a strong reputation for integrity among our customers, suppliers, government officials, community members, and other stakeholders.

Strong ethics oversight and compliance management mitigate risk to our business and employees from labor, safety, harassment, and other human rights violations. We set stringent policies and expect all employees, contractors, and business partners to comply.

Code of Conduct

Separated into 24 guiding principles, our publicly available [Code of Conduct](#) helps employees determine whether their actions align with Novelis’ ethical standards. These written tenets also enable Novelis to respond appropriately when violations of the Code occur.

We organize the guiding principles into five primary categories:

1. Act with integrity and with Novelis’ best interests
2. Promote a desirable work environment
3. Safeguard the company’s assets
4. Engage in ethical interactions with the government
5. Deal fairly with third parties

Each employee must adhere to the Novelis Code of Conduct. Through training, we teach our workforce how to uphold our ethical standards and personify Novelis as a reputable manufacturer, a respected business partner, a good corporate citizen, and a respectful employer.



Ethics Hotline

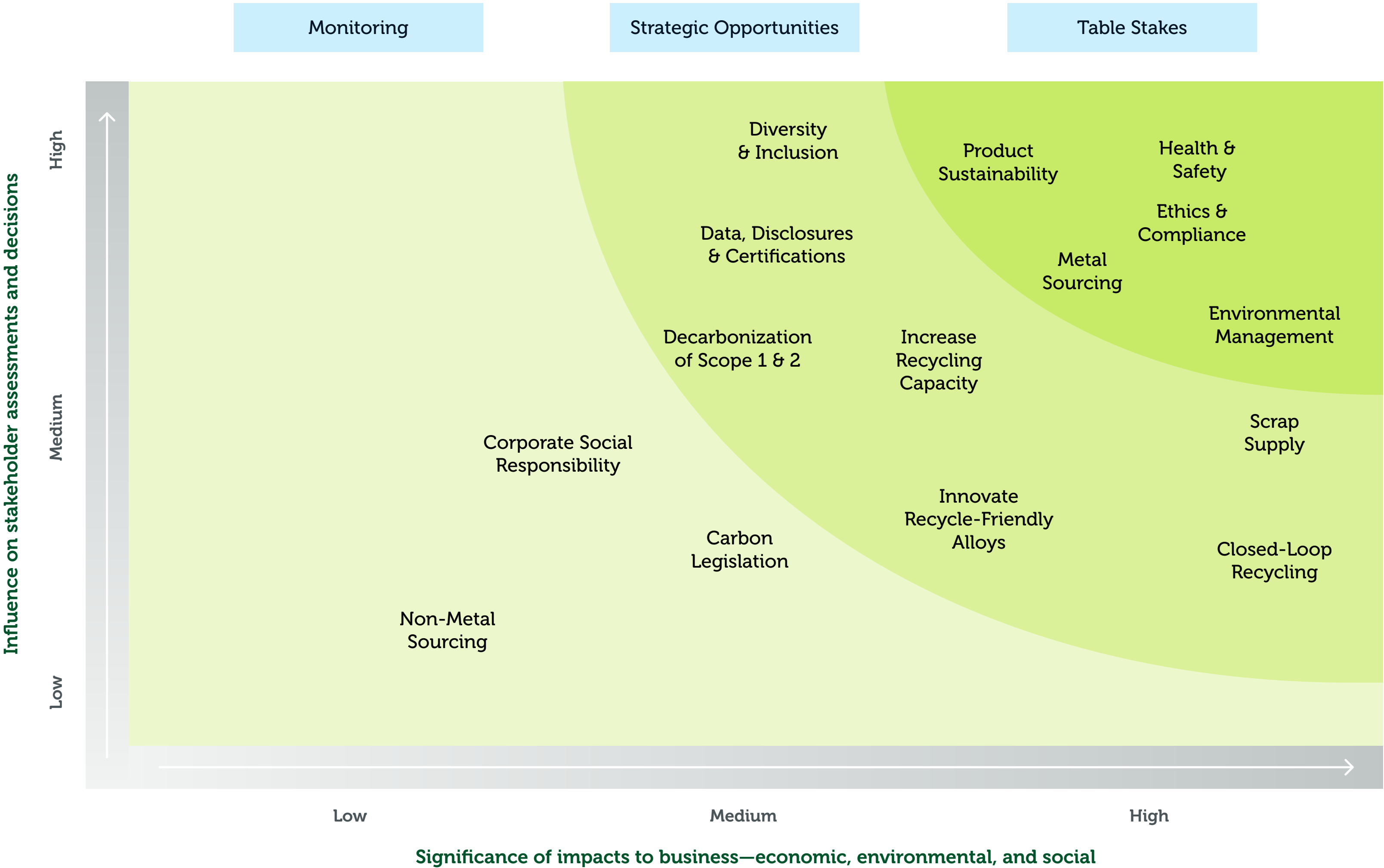
Our Ethics Hotline gives employees an anonymous mechanism to report suspected violations of our Code of Conduct. We encourage employees to speak up and report violations, and our Code of Conduct stipulates that there will be no retaliation for reporting violations. To make it easier for employees to use the hotline, operator support is provided in the local languages of the countries in which we operate.

Appendix



Priority Topics

Novelis performed a topic prioritization to determine issues most relevant to its sustainability efforts. Internal and external stakeholders were interviewed and surveyed regarding how they perceived the importance of various issues. The results are shown in the chart to the right.



Global Reporting Initiative Standards

This report has been prepared in alignment with the GRI Standards: Core option. Novelis’ material issues were mapped to relevant GRI disclosures and those are included in the index where data is available and suitable for public disclosure.

GRI 2: General Disclosures 2021		
Disclosure #	Title	Information/Location in Report
1. The organization and its reporting practices		
2-1	Organizational details	Novelis Inc. 3550 Peachtree Rd NE, Suite 1100 Atlanta, GA, 30326, USA Form 10-K
2-2	Entities included in the organization’s sustainability reporting	The data presented in this report represents all Novelis operations, including directly and indirectly owned subsidiaries and joint ventures, unless explicitly noted otherwise. See Annual Report on Form 10-K for the fiscal year ended March 31, 2023.
2-3	Reporting period, frequency and contact point	Reporting period: 1 April 2022 - 31 March 2023 Reporting frequency: Annual Date of report publication: September 19, 2023 Point of contact: Suzanne Lindsay-Walker, suzanne.lindsay-walker@novelis.adityabirla.com
2-4	Restatements of information	EDFC
2-5	External assurance	Novelis engaged a third party to provide limited assurance over certain greenhouse gas emissions metrics. Find more details in the ‘Third-Party Limited Assurance’ section of this Appendix.
2. Activities and workers		
2-6	Activities, value chain and other business relationships	https://www.novelis.com/about-us Form 10-K
2-7	Employees	Form 10-K

Global Reporting Initiative Standards

3. Governance		
2-9	Governance structure and composition	Form 10-K
2-10	Nomination and selection of the highest governance body	Form 10-K
2-11	Chair of the highest governance body	Form 10-K
2-13	Delegation of responsibility for managing impacts	See page 49
2-14	Role of the highest governance body in sustainability reporting	See page 49
2-15	Conflicts of interest	Novelis Code of Conduct Form 10-K Ethics & Compliance
2-16	Communication of critical concerns	Sustainability Governance
2-17	Collective knowledge of the highest governance body	Sustainability Governance
2-18	Evaluation of the performance of the highest governance body	Sustainability Governance
2-19	Remuneration policies	Form 10-K/A
2-20	Process to determine remuneration	Form 10-K/A
4. Strategies, policies, and practices		
2-22	Statement on sustainable development strategy	See page 11
2-23	Policy commitments	The precautionary principle does not explicitly guide decisions made by Novelis. Novelis' Code of Conduct and ethics and other corporate governance documents are available online at https://www.novelis.com/certifications
2-24	Embedding policy commitments	Code of Conduct
2-25	Processes to remediate negative impacts	Code of Conduct

Global Reporting Initiative Standards

2-26	Mechanisms for seeking advice and raising concerns	Code of Conduct
2-27	Compliance with laws and regulations	Form 10-K, Note 22
5. Stakeholder Engagement		
2-29	Approach to stakeholder engagement	Our stakeholders include customers, suppliers, employees, our parent company and regulars. Stakeholders are selected based upon their interest in Novelis’ activities and their influence on Novelis’ business activities. We regularly engage with stakeholders through a variety of mechanisms including, but not limited to, customer meetings and business reviews, meetings with regulators, community engagement events and employee surveys
2-30	Collective bargaining agreements	See Novelis’ 2023 Form 10-K, page 17
GRI 3: Material Topics 2021		
Disclosure #	GRI Disclosure Title	2023 Direct Response or Location
3-1	Process to determine material topics	By incorporating feedback from our most senior managers and representatives of key stakeholder groups, we identified key issues and determined which topics were most critical to address.
3-2	List of material topics	See materiality chart page 53
GRI 203: Indirect economic impacts		
203-1	Infrastructure investments and services supported	See page 22
GRI 204: Procurement policies		
204-1	Proportion of spending on local suppliers	The majority of materials we use in our recycling operations are sourced locally to the operations. See page 33
GRI 205: Anti-corruption		
205-2	Communication and training about anti-corruption policies and procedures	Novelis’ Code of Conduct and other corporate governance documents are available online at https://www.novelis.com/certifications/ and https://www.novelis.com/suppliers/

Global Reporting Initiative Standards

GRI 206: Anti-competitive behavior		
206-1	Legal actions for anti-competitive behavior, antitrust, and monopoly practices	See Novelis’ 2023 Form 10-K, page 123
GRI 301: Materials		
301-2	Recycled input materials used	See pages 5 and 21
GRI 302: Energy		
302-3	Energy intensity	See pages 10 and 26
302-4	Reduction of energy consumption	See pages 10 and 26
GRI 303: Water and effluents		
303-3	Water use intensity	See pages 10 and 28
GRI 305: Emissions		
305-1	Direct (Scope 1) emissions	See pages 13, 25 and 64
305-2	Energy indirect (Scope 2) emissions	See pages 13, 25 and 64
305-3	Other indirect (Scope 3) emissions	See pages 14, 25 and 64
305-4	GHG emissions intensity	See page 25
GRI 306: Waste		
306-2,3,4,5	Waste generated	See pages 8, 10, 29, 59 and 60
GRI 307: Environmental compliance		
307-1	Non-compliance with environmental laws and regulations	See Novelis’ 2023 Form 10-K, page 123

Global Reporting Initiative Standards

GRI 308: Supplier environmental assessment		
308-1	New suppliers screened using environmental criteria	See pages 3 and 23
GRI 403: Occupational health and safety		
403-9	Work-related injuries	See pages 8, 10 and 37
GRI 405: Diversity and equal opportunity		
405-1	Diversity of governance bodies and employees	See pages 10 and 40
GRI 406: Non-discrimination		
406-1	Incidents of discrimination and corrective actions taken	See Novelis' 2023 Form 10-K, page 34 under Legal Proceedings
GRI 414: Supplier social assessment		
414-1	New suppliers screened using social criteria	See page 33

Aluminum Stewardship Initiative Data

The inclusion of ASI data in our Sustainability report is dependent on each of our region’s needs to comply with the ASI transparency requirements during the current reporting year. We have included FY23 data for all manufacturing sites for compliance with the ASI 2022 Performance Standard.

Plant	FY23 Air Emissions				FY23 Total Landfill Waste	
	Hydrogen Chloride Tonnes	Oxides of Nitrogen Tonnes	Particulate Matter Tonnes	VOC Tonnes	Total kg	Total kg/t
Asia						
Changzhou	0	4.753	0	0.1824	35,250.00	0.14
Ulsan	1.3945	32.509	5.4815	323.483	68,615.00	0.09
Yeongju	3.06	243.5	41.8	106.57	2,318,040.00	0.91
Zhenjiang	0.00096	7.713	1.124	0	166,940.00	0.95
Europe						
Bresso	-	13.3	0.2	1	75,220.00	0.73
Koblenz	0.586	180.38	0.463		0.0.00	0.00
Latchford	3.588	123.418	2.936	19.92	274,930.00	0.24
Norf	1.7535	255.398	8.3565	150.921	1,250,310.00	4.96
Ohle	0	3.567	0.141	0	0.00	0.00
Pieve	0.5	30	3.8	22	5,182,580.00	9.31
Sierre	1.1	45	0.3	21.2	251,645.00	0.10
Voerde	0.23	13.5	2.06	1.4	0.00	0.00
Nachterstedt RC	7.28	58.85	3.28	1.2	55,360.00	0.33
Nachterstedt RO	-	19.7	0.933	96.675	218,550.00	0.23
Göttingen	-	22.629	-	22.257	58,860.00	0.55

Aluminum Stewardship Initiative Data

Plant	FY23 Air Emissions				FY23 Total Landfill Waste	
	Hydrogen Chloride Tonnes	Oxides of Nitrogen Tonnes	Particulate Matter Tonnes	VOC Tonnes	Total kg	Total kg/t
North America						
Ashville	-	14.5	0.9	10.02	234,525.80	2.50
Berea	19.86	81.32	7.82	26.24	12,030,381.10	21.03
Buckhannon	0	0	0	0	74,321.10	2.61
Clayton	-	4.3	4.7	152.1	51,093.70	0.42
Davenport-Casting	8.8443	44.7642	37.761	21.1804	11,201,905.90	42.37
Davenport-Finishing	-	6.6751	0.83978	8.32843	95,918.50	1.24
Fairmont	-	3.94	1.689	210.52	321,252.00	4.14
Greensboro	19.74	73.18	11.64	6.48	7,608,830.80	28.68
Guthrie	0	11.13	0.72	1.51	1,584,807.00	18.46
Kingston	-	8.551	3.492	18.552	148,647.00	0.34
Lincolnshire	0	4.71	11.93	14.95	255,658.00	0.78
Logan	18.095	89.54	53.845	282.535	8,463,974.80	3.83
Oswego	32	220	138	70	11,394,363.80	4.35
Richmond	0.67	12.95	3.52	14.01	2,098,779.40	19.53
Terre Haute	0	-	-	91.76	139,064.00	0.84
Uhrichsville	-	50.55	32	15.27	17,776,776.30	30.84
Warren	-	10.46	0.8	67.88	6,350.40	0.04
South America						
Pinda	2.12	206.12	208.08	3.64	4,029,581.80	1.17
Santo Andre	0	0.57	0	1.1	13,119.00	0.29

Aluminum Stewardship Initiative Data

Plant	FY23 Water Use					
	Ground Water m3	Sea Water m3	Surface Water m3	Public Net m3	Total Water Usage m3	Total Water Usage m3/t
Asia						
Changzhou	-	-	-	249,609	249,609.00	1.00
Ulsan			238,442		238,442.00	0.33
Yeongju	765,269			28,590	793,859.00	0.43
Yeongju RCY					-	-
Zhenjiang				188,850	188,850.00	1.08
Corporate						
Kennesaw	-	-	-	1,299		
Europe						
Bresso	246,530			6,203	252,733.00	2.44
D.C. Italy				1,270		
Göttingen	-	-	-	137,419	137,419.00	0.44
Koblenz	459,742			34,715	494,457.00	0.42
Latchford	-	-	-	99,442	99,442.00	0.39
Nachterstedt RC				172,768	172,768.00	0.31
Nachterstedt RO	-	-	-	135,386	135,386.00	0.15
Norf	651,599	-	-	29,169	680,768.00	0.27
Ohle	339	-	341,781	42,847	384,967.00	1.85
Pieve	112,386			12,050	124,436.00	0.74
Sierre	1,121,930			11,856	1,133,786.00	1.20
Voerde	160,896			1,568	162,464.00	1.53

Aluminum Stewardship Initiative Data

Plant	FY23 Water Use					
	Ground Water m3	Sea Water m3	Surface Water m3	Public Net m3	Total Water Usage m3	Total Water Usage m3/t
North America						
Ashville				41,455	41,455.00	0.44
Berea	-	-	-	238,287	238,287.00	0.42
Buckhannon				1,488	1,488.00	0.05
Clayton				12,406	12,406.00	0.10
Davenport-Casting				143,656	143,656 .00	0.54
Davenport-Finishing				41,588	41,588.00	0.54
Fairmont				27,949	27,949.00	0.36
Greensboro				23,080	23,080.00	0.09
Guthrie	-	-	-	77,771	77,771.00	0.91
Kingston				75,298	75,298.00	0.17
Lincolnshire				11,743	11,743.00	0.04
Logan			654,469	46,675	701,144.00	0.32
Oswego	-	-	2,812,559	888,332	3,700,891.00	1.41
Richmond	-	-	-	32,295	32,295.00	0.30
Terre Haute	683,840				683,840	4.13
Uhrichsville				218,159	218,159.00	0.38
Warren				33,574	33,574.00	0.22
South America						
Pinda	233,725	-	732,387	76,490	1,042,602.00	0.30
Santo Andre	-	-	-	3,659	3,659.00	0.08

Third-Party Limited Assurance



Report of Independent Accountants

To the Board of Directors of Novelis Inc.

We have reviewed the accompanying management assertion of Novelis Inc. (Novelis) that the greenhouse gas (GHG) emissions metrics for the year ended March 31, 2023 in management’s assertion are presented in accordance with the assessment criteria set forth in management’s assertion. Novelis’ management is responsible for its assertion and for the selection of the criteria, which management believes provide an objective basis for measuring and reporting on the GHG emissions metrics. Our responsibility is to express a conclusion on management’s assertion based on our review.

Our review was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants (AICPA) in AT-C section 105, Concepts Common to All Attestation Engagements, and AT-C section 210, Review Engagements. Those standards require that we plan and perform the review to obtain limited assurance about whether any material modifications should be made to management’s assertion in order for it to be fairly stated. The procedures performed in a review vary in nature and timing from, and are substantially less in extent than, an examination, the objective of which is to obtain reasonable assurance about whether management’s assertion is fairly stated, in all material respects, in order to express an opinion. Accordingly, we do not express such an opinion. Because of the limited nature of the engagement, the level of assurance obtained in a review is substantially lower than the assurance that would have been obtained had an examination been performed. We believe that the review evidence obtained is sufficient and appropriate to provide a reasonable basis for our conclusion.

We are required to be independent and to meet our other ethical responsibilities in accordance with relevant ethical requirements related to the engagement.

The firm applies the Statements on Quality Control Standards established by the AICPA and, accordingly, maintains a comprehensive system of quality control.

The procedures we performed were based on our professional judgment. In performing our review, we performed inquiries, performed tests of mathematical accuracy of computations on a sample basis, read relevant policies to understand terms related to relevant information about the GHG emissions metrics, reviewed supporting documentation in regard to the completeness and accuracy of the data in the GHG emissions metrics on a sample basis, and performed analytical procedures.

GHG emissions quantification is subject to significant inherent measurement uncertainty because of such things as GHG emissions factors that are used in mathematical models to calculate GHG emissions, and the inability of these models, due to incomplete scientific knowledge and other factors, to accurately measure under all circumstances the relationship between various inputs and the resultant GHG emissions. Environmental and energy use data used in GHG emissions calculations are subject to inherent limitations, given the nature and the methods used for measuring such data. The selection by management of different but acceptable measurement techniques could have resulted in materially different amounts or metrics being reported.

Based on our review, we are not aware of any material modifications that should be made to Novelis’ management assertion in order for it to be fairly stated.

Detroit, Michigan
August 25, 2023

Management Assertion



Overview

With respect to the greenhouse gas (GHG) emissions metrics in the table below for the fiscal year ended March 31, 2023, management of Novelis Inc. (Novelis) asserts that such GHG emissions metrics are presented in accordance with the assessment criteria set forth below. Management is responsible for the selection of the criteria, which management believes provide an objective basis for measuring and reporting on the GHG emissions metrics and for the completeness, accuracy and validity of the GHG emissions metrics. Novelis’ GHG emissions metrics are rounded to the nearest thousand.

Organizational Boundary

Novelis follows the equity share approach outlined in the GHG Protocol (defined below) to account for and report its GHG emissions metrics. This includes Novelis’ operating plants† (including joint ventures) in the countries in which we are present, as well as Novelis’ global research and technology center located in Kennesaw, Georgia (hereinafter all referred to as “sites” or individually as “site”).

The following are excluded from our overall GHG inventory calculations:

- Offices, owned and leased
- Collection centers, owned and leased
- Research & development facilities, owned and leased (with the exception of Novelis’ global research and technology center located in Kennesaw, Georgia)

In line with the equity share approach, Novelis incorporates the energy consumption of our joint venture (JV) sites as follows:

- 50% energy consumption data related to Aluminum Norf GmbH (Alunorf), a joint venture in Germany where we hold a 50% equity share
- 55% energy consumption data related to Logan Aluminum Inc. (Logan), a joint venture in the USA where we hold 40% of outstanding common shares, but receive on average 55% of plant output due to equipment investments ‡
- 0% energy consumption data related to Alulnfra Services SA (Alulnfra), a joint venture in Switzerland where we hold a 50% equity share. Alulnfra provides wastewater and other utility services to the JV partners located on site in Sierre, Switzerland with the associated energy consumption being insignificant.
- 50% energy consumption data related to Ulsan Aluminum Ltd., a joint venture in South Korea where we hold a 50% equity share

When calculating the emissions for a joint venture site, Novelis multiplies the equity share

GHG EMISSIONS METRIC	DEFINITION OF METRIC ^{1,2,4}	METRIC QUANTITY (in metric tons (or tonne) of CO ₂ equivalent (tCO ₂ e))
Scope 1 emissions	Direct GHG emissions from fuel sources. ^{3,5}	1,389,000 tCO ₂ e
Scope 2 emissions (location-based)	Indirect GHG emissions from the generation of purchased electricity and purchased steam. ^{3,6}	866,000 tCO ₂ e
Total Scope 1 and Scope 2 emissions	Direct GHG emissions generated from Scope 1 and indirect GHG emissions generated from Scope 2 (location-based). ^{3,5,6}	2,255,000 tCO ₂ e
Scope 3 emissions–Category 1: Purchased goods and services	Indirect GHG emissions from goods and services purchased by Novelis for its sites, including ⁷ : • Prime • Sheet ingot	14,529,000 tCO ₂ e
Scope 3 emissions–Category 4: Upstream transportation and distribution	Indirect GHG emissions from transportation and distribution services purchased by Novelis, including ⁸ : • Outbound logistics • Transportation and distribution between sites	488,000 tCO ₂ e

percentage identified above by the energy consumption data for that site.

Emissions Disclosures

1. Novelis considers the principles and guidance of the World Resources Institute (WRI) and the World Business Council for Sustainable Development’s (WBCSD) *The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard, Revised Edition*, *GHG Protocol Scope 2 Guidance: An amendment to the GHG Protocol Corporate Standard*, and *Corporate Value Chain (Scope 3) Accounting and Reporting Standard: Supplement to the GHG Protocol Accounting and Reporting Standard* (together the “GHG Protocol”) to guide the criteria to assess, measure and report GHG emissions.
2. GHG emissions quantification is subject to significant inherent measurement uncertainty because of such things as GHG emissions factors that are used in mathematical models to calculate GHG emissions, and the inability of these models, due to incomplete scientific knowledge and other factors, to accurately measure under all circumstances the relationship between various inputs and the resultant GHG emissions. Environmental and energy use data used in GHG emissions calculations are subject to inherent limitations, given the nature and the methods used for measuring such data. The selection by management of different but acceptable measurement techniques could have resulted in materially different amounts or metrics being reported.

3. Reported Scope 1 and Scope 2 emissions were comprised of less than 1% estimated energy consumption data and approximately 99% actual energy consumption data. In order to provide the most accurate estimate of GHG emissions, primary data collected from third party invoices was used where available. Secondary data in the form of estimates and extrapolations was used when primary data was not available
4. Carbon dioxide equivalent (CO₂e) emissions are inclusive of carbon dioxide (CO₂), nitrous oxide (N₂O), and methane (CH₄). The other GHGs of sulfur hexafluoride (SF₆), perfluorocarbons (PFCs), hydrofluorocarbons (HFCs), and nitrogen trifluoride (NF₃) are either not emitted or not included. Refrigerants and biomass at all sites, as well as two emission sources (diesel and propane) at our global research and technology center located in Kennesaw, Georgia, are excluded as the related emissions are considered insignificant to our overall footprint as they are estimated to represent less than 1% of our reported total Scope 1 and Scope 2 emissions. Emissions data by individual gas is not disclosed as a majority of CO₂e relates to CO₂. These carbon dioxide equivalent emissions utilize Global Warming Potentials (GWPs) defined by the Intergovernmental Panel on Climate Change’s (IPCC’s) Fifth Assessment Report (AR5 – 100 year). Carbon dioxide equivalent emissions are calculated by multiplying energy consumption data by the relevant emission factor and GWP. All emission factors are updated annually, where applicable.

† Novelis has operations in North America (Canada and USA), South America (Brazil), Europe (Germany, Italy, Switzerland, and United Kingdom) and Asia (South Korea and China).
‡ For the Logan JV, the percentage of output depends on current year output levels and may vary accordingly over the years.

Management Assertion

5. Related to Scope 1 emissions:
- Direct emissions from fuel sources (natural gas, propane, heavy fuel oil - residual fuel oil no. 6, kerosene and diesel):
 - Calculated based on monthly energy consumption data collected from third-party invoices or meters.
 - Emission factors:
 - United States (U.S.) Environmental Protection Agency (EPA) 2022 GHG Emission Factors Hub, Emission Factors for Greenhouse Gas Inventories, tables 1 and 2 (April 2022).
6. Related to Scope 2 emissions (location-based only):
- Purchased electricity:
 - Calculated based on monthly energy consumption data collected from third-party invoices or meters.
 - Emission factors:
 - USA: U.S. EPA Emissions & Generated Resource Integrated Database (eGRID) 2020 (January 2022).
 - Canada: Government of Canada National Inventory Report 1990-2020: Greenhouse Gas Sources and Sinks in Canada Part 3 - Annex 13: Emission Factors, Table A13-7 (2022).
 - Brazil: Brazilian Government Ministry of Science, Technology and Innovation, year of data used 2021 (published monthly, with the full 2021 year of data finalized and published in 2022), Average Factor – Corporate Inventories, for CO₂ emission factors only. CH₄ and N₂O emission factors were taken from the International Energy Agency (IEA).
 - South Korea: Korea Energy Agency Guideline for GHG factor for electricity (last updated 2022).
 - All other countries: IEA Emissions Factors 2021, year of data used 2019 (September 2021).
 - Purchased steam:
 - Calculated based on monthly energy consumption data collected from meters.
 - Emission factors:
 - U.S. EPA Energy and the Environment, Combined Heat and Power (January 2023).
 - The GHG Protocol Scope 2 Guidance sets forth reporting under both location-based and market-based methodologies. This management assertion only relates to Novelis' location-based Scope 2 emissions as Novelis is only reporting location-based at this time as management is in the process of collecting information regarding its use of market-based instruments.
7. Related to Scope 3 emissions – Category 1: Purchased goods and services:
- Purchased metal (prime and sheet ingot):
 - Novelis uses the 100:0 method, also known as the “cut-off” approach, to calculate emissions from purchased metals. Our scrap material purchased carries zero burden based on this approach. Transportation of scrap to Novelis sites is considered to be insignificant.
 - Calculated based on metal receipts (weight) that have been validated against internal purchase orders based on delivery date, supplier advanced shipping notices and the recycled content of the metal purchased.
 - Primary aluminum starts with bauxite mining. Once mined, aluminum within the bauxite ore is chemically extracted into alumina, an aluminum oxide compound. In a second step, the alumina is smelted into pure aluminum metal. The following CRU 2021 emission factors for regions-specific smelters and International Aluminum Institute (IAI) 2021 emission factors are applied:
 - For Bauxite-Alumina: IAI Life Cycle Inventory data. The most current data is as of calendar year 2021. The current footprint is 3.89 tCO₂e/t prime.
 - For Smelting-Casting: Novelis uses smelter-specific data (energy mix, emissions) provided by CRU. If a smelter emission factor is not in CRU, smelter emission factors are estimated based on an average of the country’s CRU emission factor.
8. Related to Scope 3 emissions – Category 4: Upstream transportation and distribution (including scrap material transportation):
- Outbound logistics and transportation and distribution between sites:
 - North America and Asia
 - Calculated based on weighted average distance between Novelis site and destination (outbound logistics) or between Novelis sites (transportation and distribution) which is derived based on transaction level shipment data in metric tons (Novelis site to destination or Novelis site to another Novelis site and mode of transport, including the following options: truck, ocean vessel, barge, air, coaster and rail) obtained from Novelis' procurement teams.
 - South America and Europe
 - Calculated based on weighted average distance between Novelis site and destination (outbound logistics) or between Novelis sites (transportation and distribution) which is derived based on shipment data aggregated by mode of transport and route in metric tons (Novelis site to destination or Novelis site to another Novelis site and mode of transport, including the following options: truck, ocean vessel, barge, air, coaster and rail) obtained from Novelis' procurement teams.
 - Emission factors:
 - Department for Energy Security and Net Zero and Department for Business, Energy & Industrial Strategy, UK Government GHG Conversion Factors for Company Reporting 2022, tab “Freighting Goods”, version 2.0 (September 2022).

Disclaimer

About Our Reporting

The information and opinions contained in this Novelis FY23 Global Sustainability Report (the “Report”) are provided as of the dates indicated in this Report and are subject to change without notice. None of Novelis, its subsidiaries, or any of its affiliates assume any responsibility or obligation to update or revise any such statements, regardless of whether those statements are affected by the results of new information, future events, or otherwise. At times, we may revisit our prior estimates and historical data to ensure their accuracy and make any necessary corrections to our public reporting. Although our data has been internally vetted using accepted and relevant scientific and technical methodologies, historical performance data may be revised due to reasons such as new data availability; industry-driven changes to methodologies; improvement in data collection and measuring systems; or activities such as joint ventures, mergers and acquisitions, or divestitures. In addition, certain information in this document comes from third-party sources and operations outside of our control. Any use of the terms “material,” “materiality,” “immaterial,” “substantive,” “significant” and other similar terminology in this report refers to topics that reflect important economic, environmental and social impacts of Novelis or to topics or standards designated as “material” or “substantive” under the GHG Protocol or GRI standards. These terms as used in this report are not used, or intended to be construed, as they have been defined by or construed in accordance with the securities laws or any other laws of the United States or any other jurisdiction, or as these terms are used in the context of financial statements and financial reporting.

This Report represents current Novelis policy and intent and is not intended to, nor can it be relied on, to create legal relations, rights, or obligations. This Report may contain or incorporate by reference public information not separately reviewed, approved, or endorsed by Novelis and accordingly, no representation, warranty, or undertaking, express or implied, is made and no responsibility or liability is accepted by Novelis as to the fairness, accuracy, reasonableness, or completeness of such information.

Forward-looking Statements

This Report contains statements about future events and expectations that are “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are generally identified through the inclusion of words such as “aim,” “anticipate,” “believe,” “drive,” “estimate,” “expect,” “goal,” “intend,” “may,” “plan,” “project,” “strategy,” “target,” and “will” or similar statements or variations of such terms and other similar expressions. Forward-looking statements inherently involve risks and uncertainties that could cause actual results to differ materially from those predicted in such statements. None of the future projections, expectations, estimates, or prospects in this document should be taken as forecasts or promises nor should they be taken as

implying any indication, assurance, or guarantee that the assumptions on which such future projections, expectations, estimates, or prospects have been prepared are correct or exhaustive or, in the case of assumptions, fully stated in the Report. Actual sustainability results, financial results, and capital and other financial conditions may differ materially from those included in these statements due to a variety of factors, including without limitation disruptions or changes in the business or financial condition of our significant customers or the loss of their business or reduction in their requirements; price and other forms of competition from other aluminum rolled products producers and potential new market entrants; competition in our end-markets, and the willingness of our customer to accept substitutes for our products, including steel, plastics, composite materials and glass; our inability to realize the anticipated benefits of strategic investments; increases in the cost of volatility in the availability of primary aluminum, scrap aluminum, sheet ingot, or other raw materials used in the production of our products; rises in energy costs or disruptions to our energy supplies; downturns in the automotive and ground transportation industries or changes in consumer demand; loss of our key management and other personnel, or an inability to attract and retain such management and other personnel; unplanned disruptions at our operating facilities; exposure to economic and political risk associated with our global operations; economic uncertainty, capital markets disruption and supply chain interruptions; risks relating to certain joint ventures, subsidiaries and assets that we do not entirely control; increased freight costs on imported products; timing differences between the prices we pay under purchase contracts and metal prices we charge our customers; a deterioration of our financial condition, a downgrade of our ratings by a credit rating agency or other factors which could limit our ability to enter into, or increase our costs of, financing and hedging transactions; risks related to variable rate indebtedness, including interest rate risk; adverse changes in currency exchange rates; risks related to our global operations, including the impact of complex and stringent laws and government regulations; exposure to significant legal proceedings and investigations; and the other factors and uncertainties summarized under “Forward-Looking Statements” and “Risk Factors” in our most recent Annual Report on Form 10-K and Quarterly Reports on Form 10-Q, which are filed with the Securities and Exchange Commission (SEC) and available on the SEC’s website at www.sec.gov and available on our website at investors.novelis.com/sec-filings. Any such forward-looking statements in these materials speak only as of the date of these materials, and Novelis does not undertake to update forward-looking statements to reflect the impact of circumstances or events that arise after the date the forward-looking statements were made. Statements about future developments and past occurrences are based on information and assumptions available as of the date of publication and are subject to change without notice.