

Rio Tinto

New Zealand Aluminium
Smelters Ltd

2025

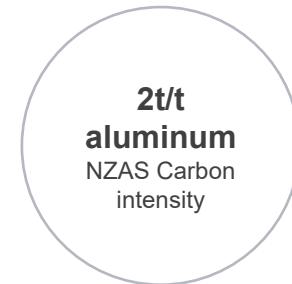
NZAS Overview



People



Planet

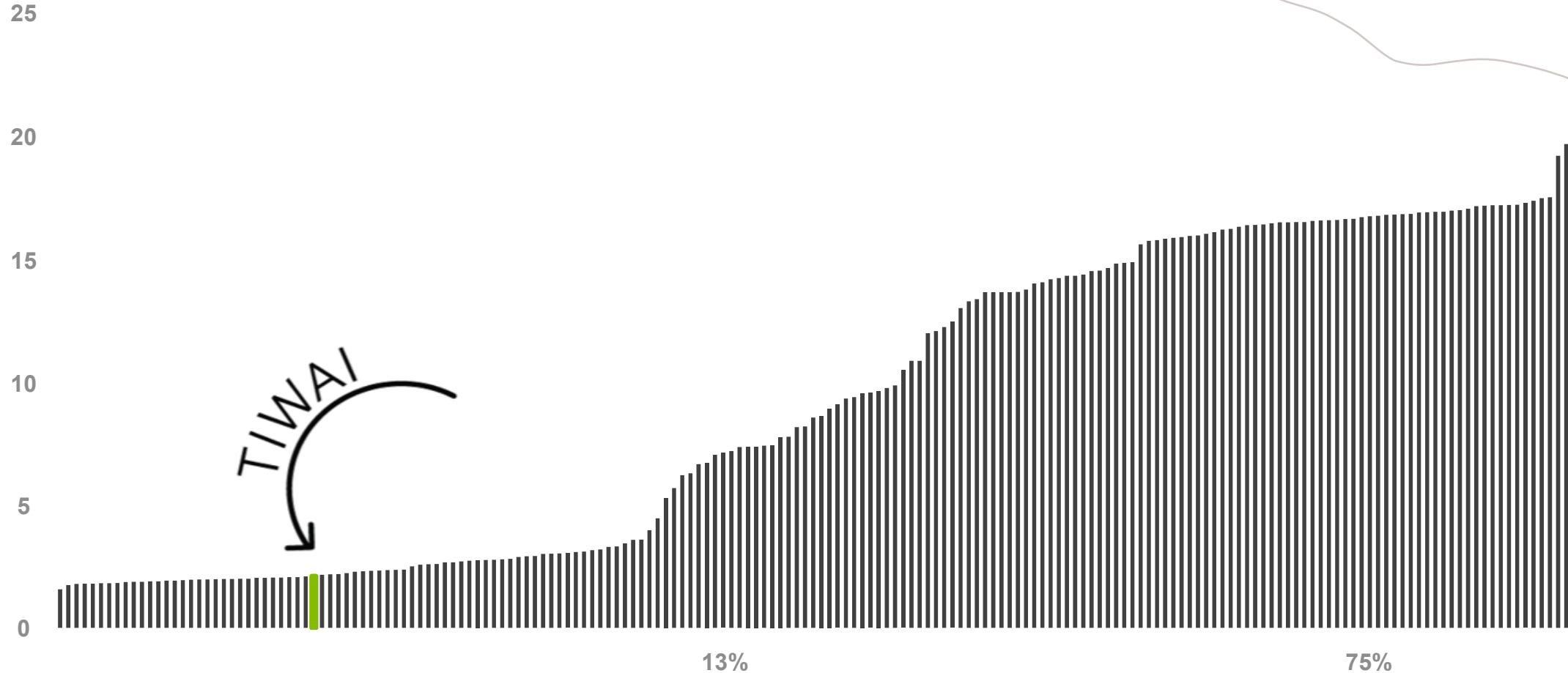


Numbers



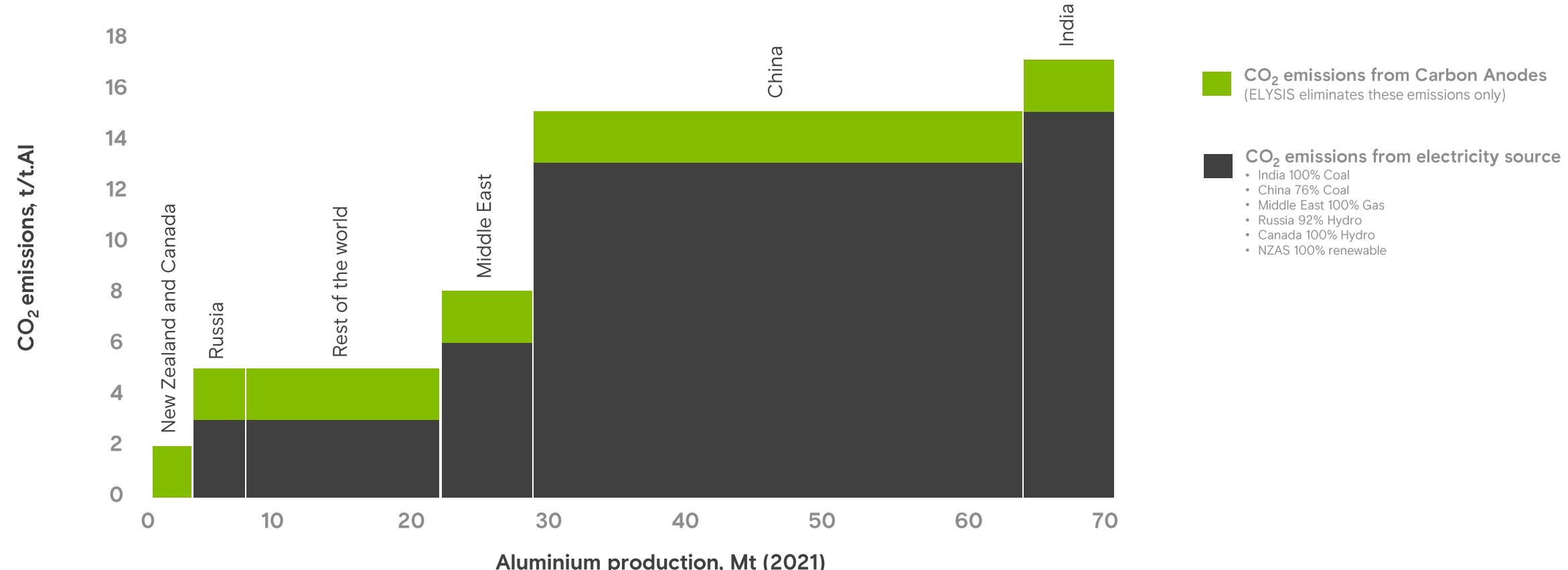
Carbon Our place in the world

Scope 1 and 2 Emissions tCO₂/t



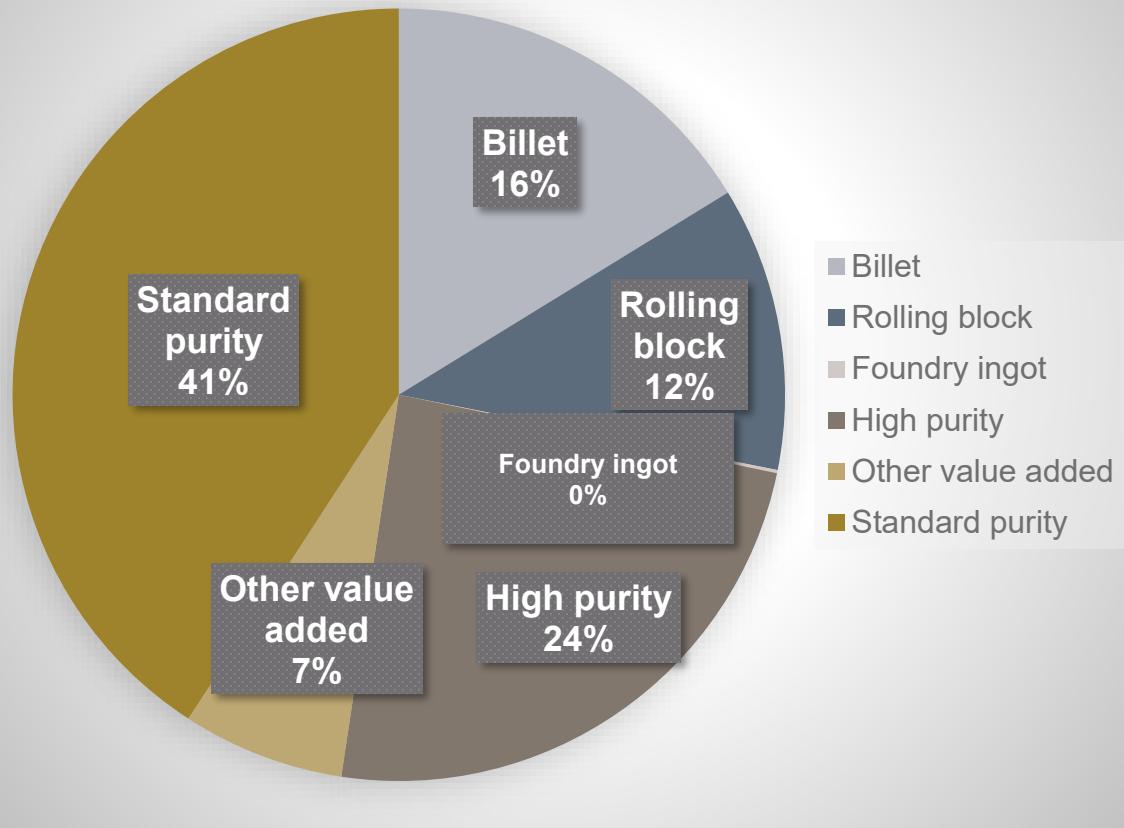
Carbon Smelters in the world

- Smelter CO₂ emissions are dominated by the CO₂ emissions of the electricity source.
- Renewable energies is a solution to reduce global CO₂ emissions and is available now.
- ELYSIS is a trial technology that proposes to eliminates the CO₂ emissions from the use of carbon anodes in the smelting process – it is currently in trial phase.
- A move to renewable energies would reduce global CO₂ emissions by ~610million tonnes per year compared to ~168 million tonnes per year using ELYSIS.

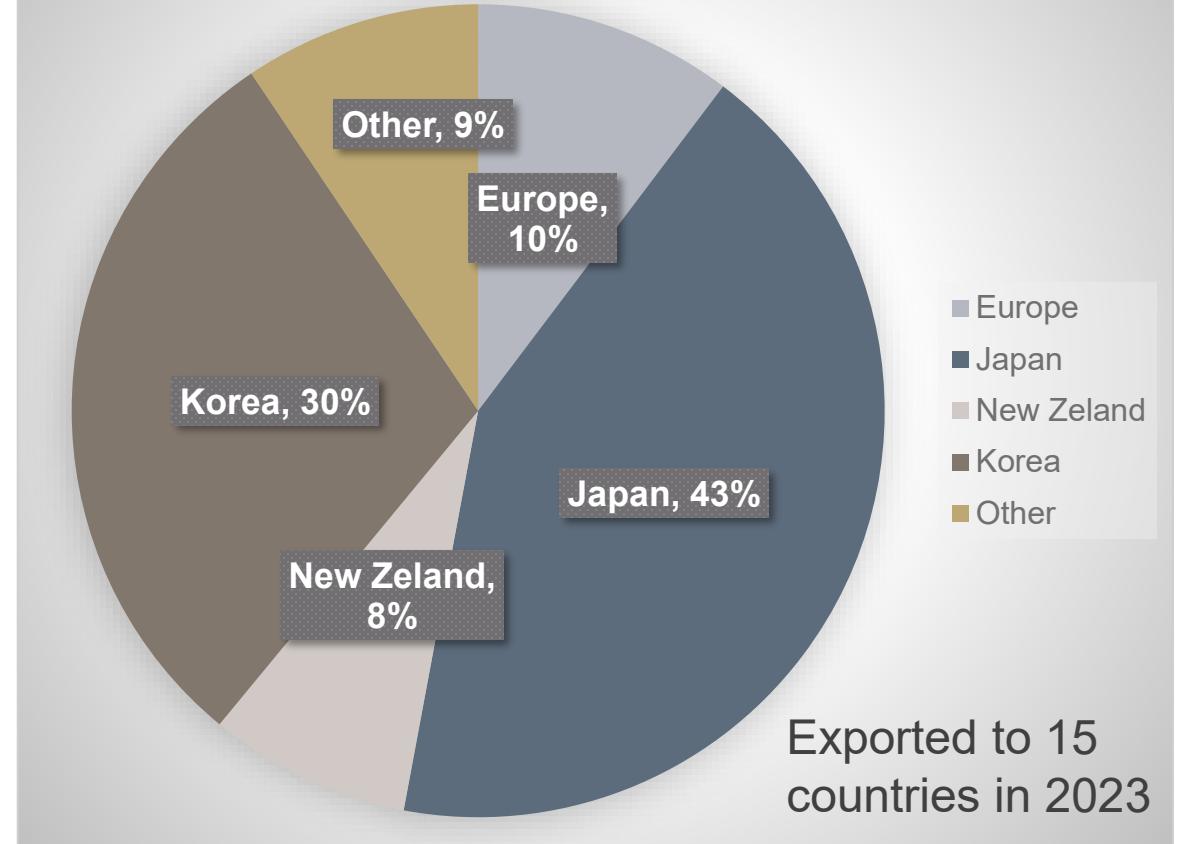


NZAS Metal Products

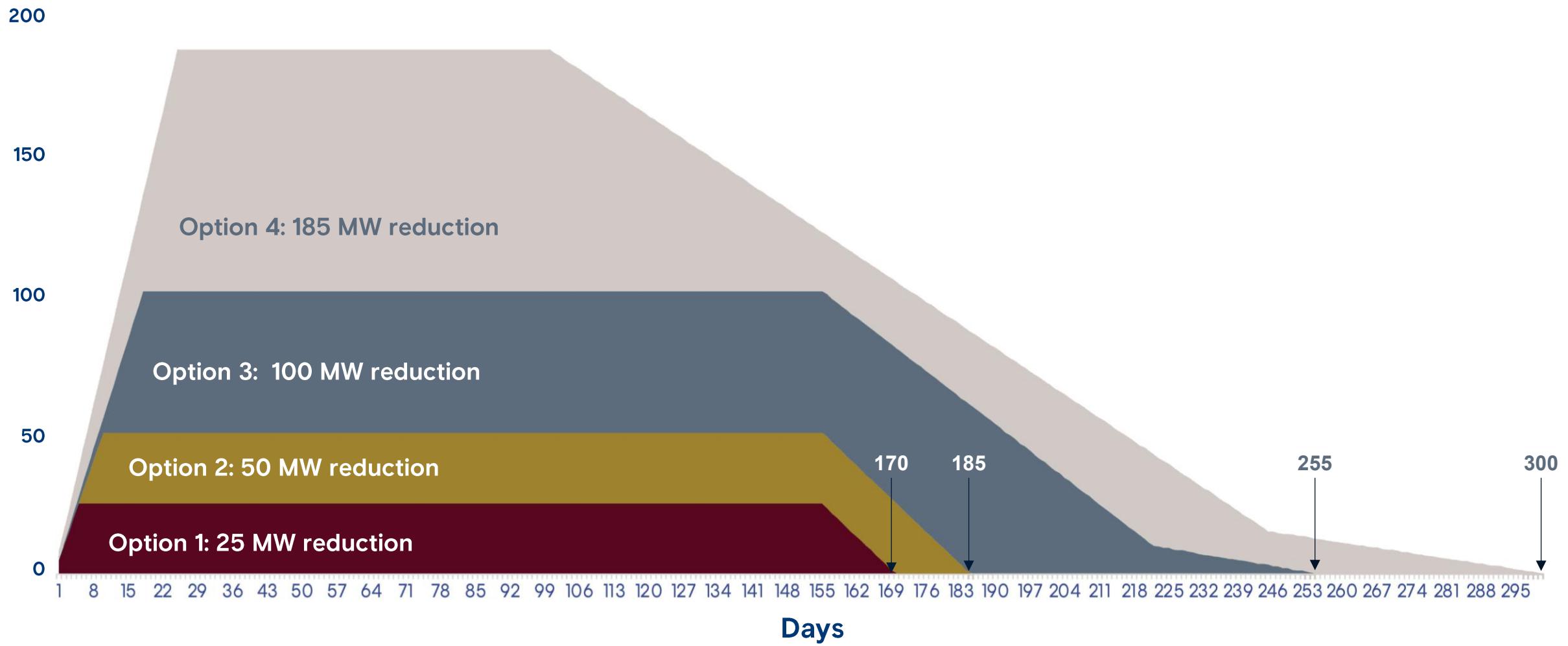
2023 NZAS Product Profile



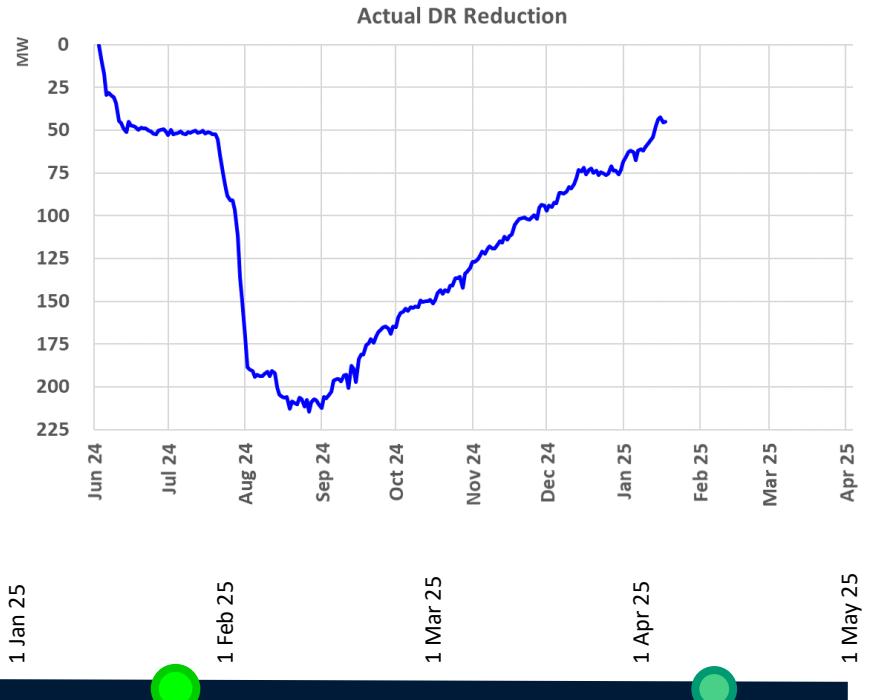
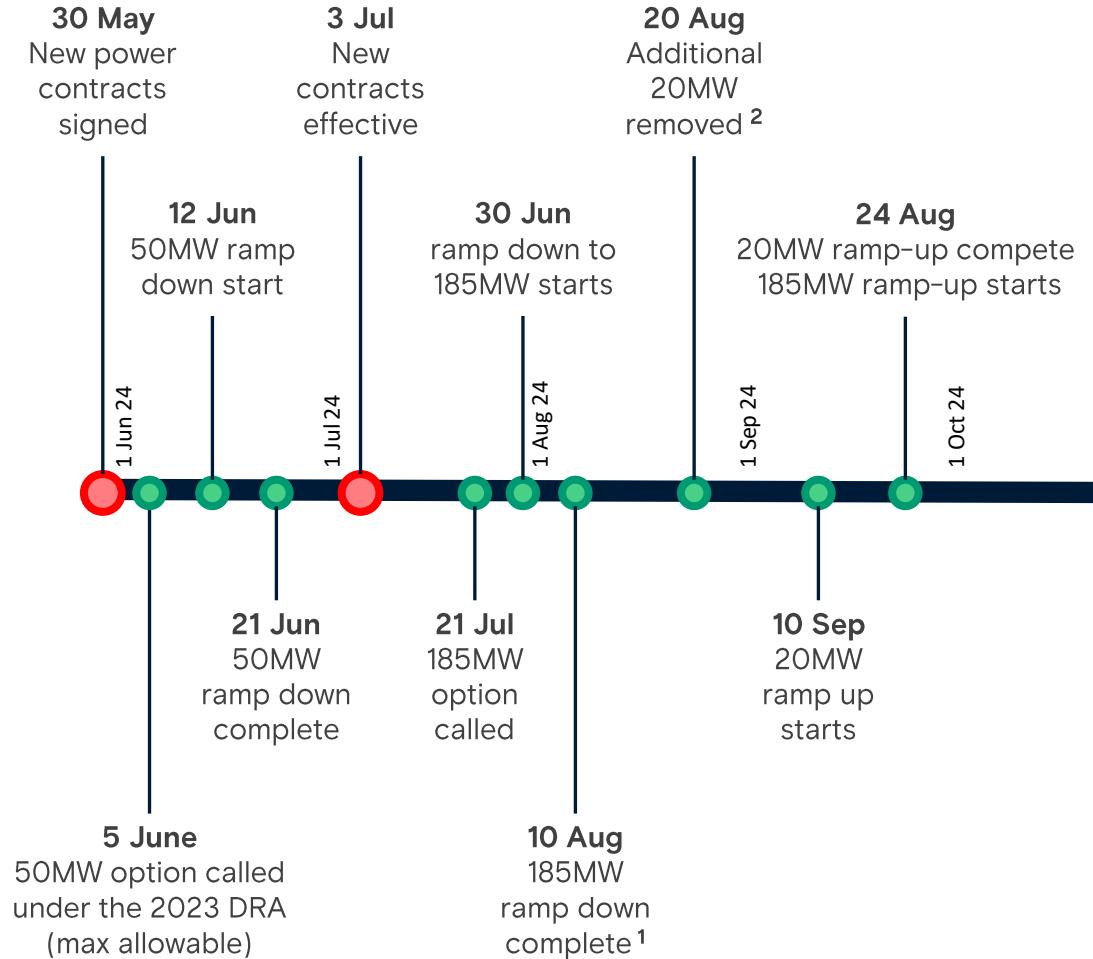
2023 NZAS market



DR MW Profiles MW at maximum call duration



Timeline of 2024 DR Calls

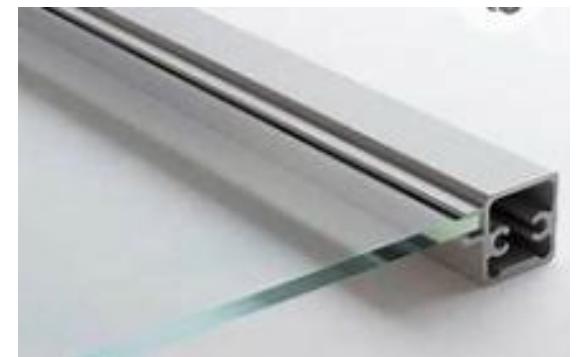
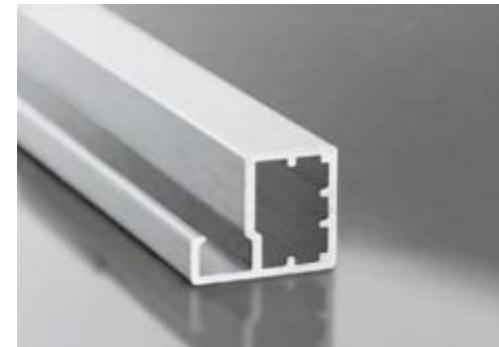
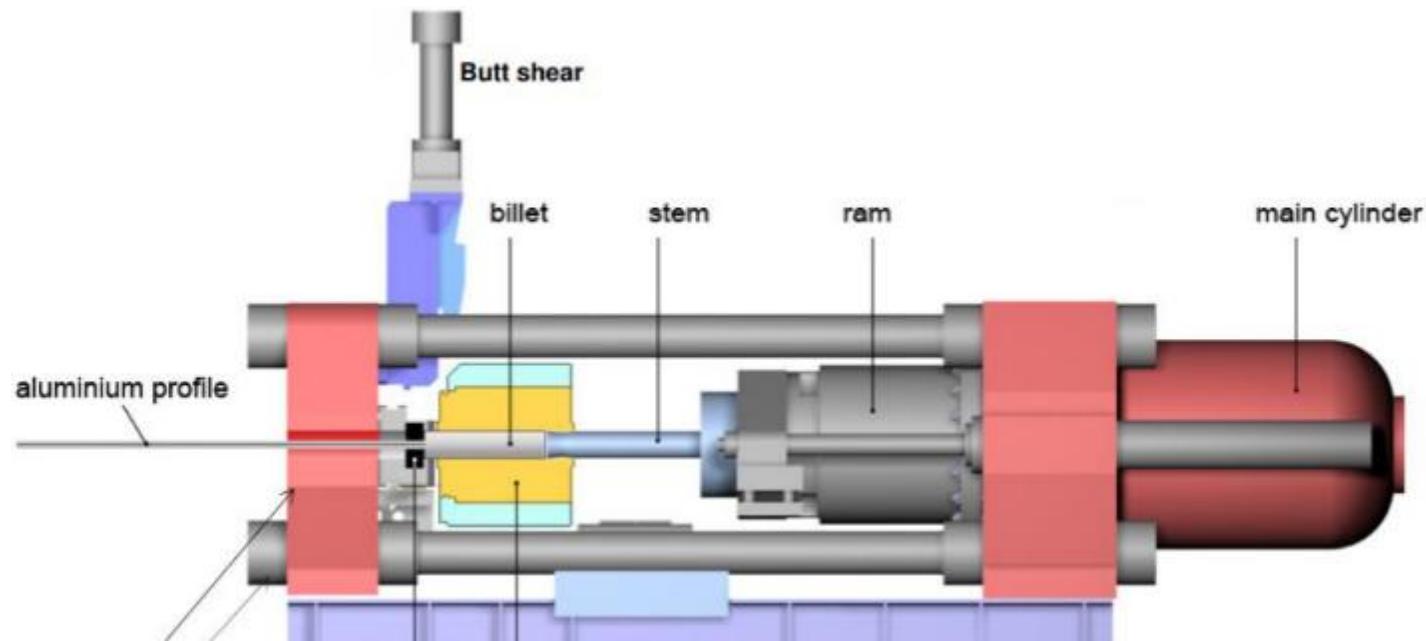


¹ 9 days earlier than specified in DRA following MEL request for NZAS to accelerate due to worsening storage situation. Meridian paid NZAS a significantly higher strike price for 100% of the accelerated portion of the reduction.

² MEL requested an additional 20MW reduction over and above the max reduction contracted. Meridian paid a significantly higher strike price for 100% of this additional volume.

Billet

- Around 45% of the billet we cast is sold in NZ
- This is all 178 /203mm and sold to 1 of 4 extruders in NZ
- Majority of this goes into the B&C sector
(90% of aluminium windows and doors in NZ from NZAS metal)



Extrusion Billet

Increasing use in demanding transport applications



ABS brake system pump body



Multiport condenser tubing for air conditioners

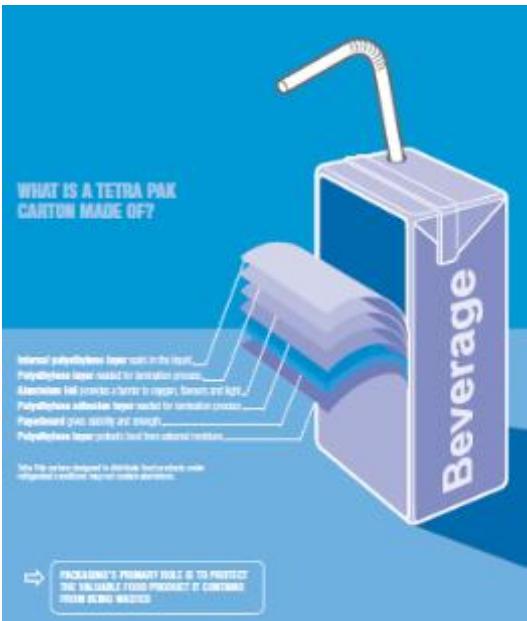


Shinkansen side panel extrusion profile

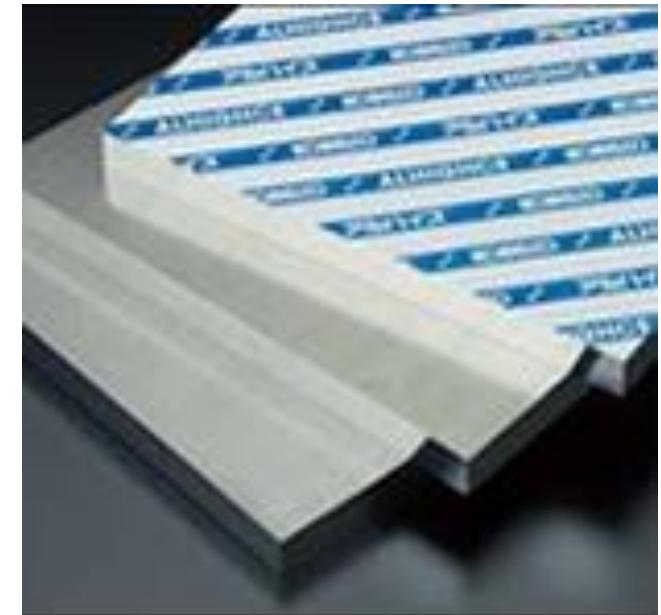


JR Central N700 series set Z28 on the Sanyo Shinkansen,
April 2009

Rolling Slab



Light gauge (6 micron)
Tetrapak foil



High Purity Ingot - Electronics Applications

Highest purity grades (99.96 to 99.98% Al) are mostly used in computer hard drive disks

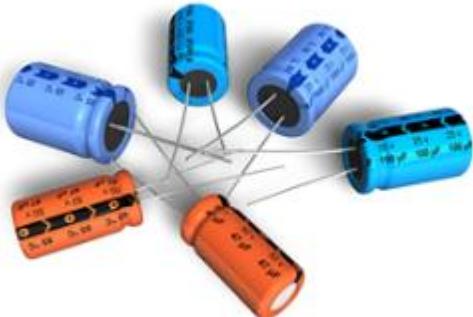


From computer desktop encyclopaedia reproduced with permission



Inside view of a hard disk

Other purity grades (99.90 to 99.96% Al) are used for low and high voltage capacitor foil



Miniature low-voltage capacitors (next to a cm ruler)

Foundry Ingot



Automotive and Motorcycle Wheels



Hamilton Jet Components



Aftermarket Auto Components

HSE Framework within RT NZAS

Delivering next level performance



Safety Overview

5.5 sMM

6.0 Plan

0.00 AIFR YTD

0.20 Plan 0.21 12m average

11.30 TCIFR (3MMA)

Plan decreasing 3MMA

0 PFI

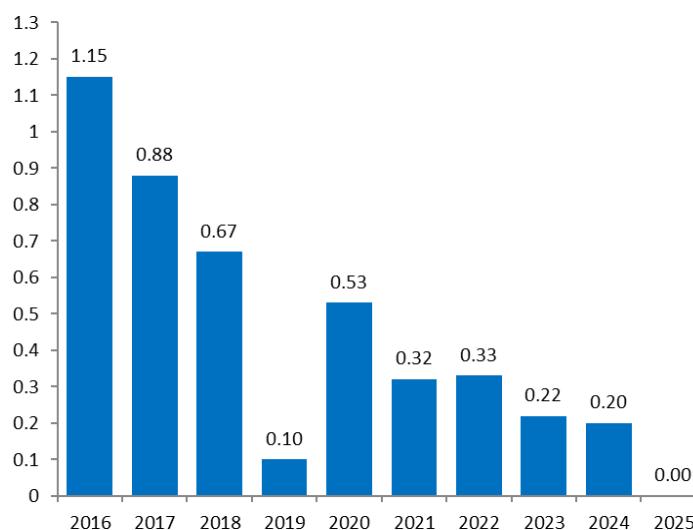
0 Plan

0 Occupational Illnesses

0 Plan

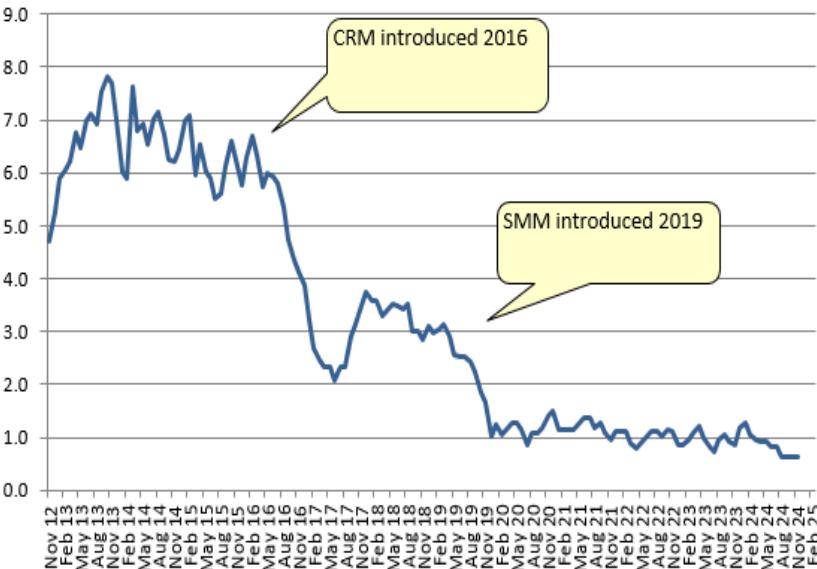
Our AIFR Journey

Sustained year on year improvement



Our Significant Incident Journey

Sustained focus on learning and elimination



2024 was a year for breaking records

410 days Injury free

Previous record 301 days

A rolled ankle in October 2024 brought our record-breaking run to an end, marking 410 days injury free.

The previous record of 301 had stood for over 20 years.

6 CRM Maturity

Maintained CRM Maturity

Tiwi maintained its CRM maturity score of 6.0 in 2024, placing us equal 3rd globally out of 48 operations and the highest ranked site in Pacific Operations on this key metric.

We will not let complacency be an outcome.

We treat each day as a new day and remain vigilant on removing the risks to our people, place and plant.

1004 days env incident free

Previous record 974 days

Not to be out done, our record for environmental performance was also broken recently. An exceedance of our drain license for fluoride concentration, the first in many years, brought that run to an end.

Operated by
Rio Tinto



SUMITOMO CHEMICAL

OUR SAFETY CHOICES HAVE RESULTED IN

Consecutive Days

Best Ever Performance

Safe Days

410

410

Clean & Green

1004

1004

Year to Date Events

Lost Time Injuries **0** Medical Treatment Injuries **0** Environmental Incidents (≥Cat 2) **0**
and RWDI

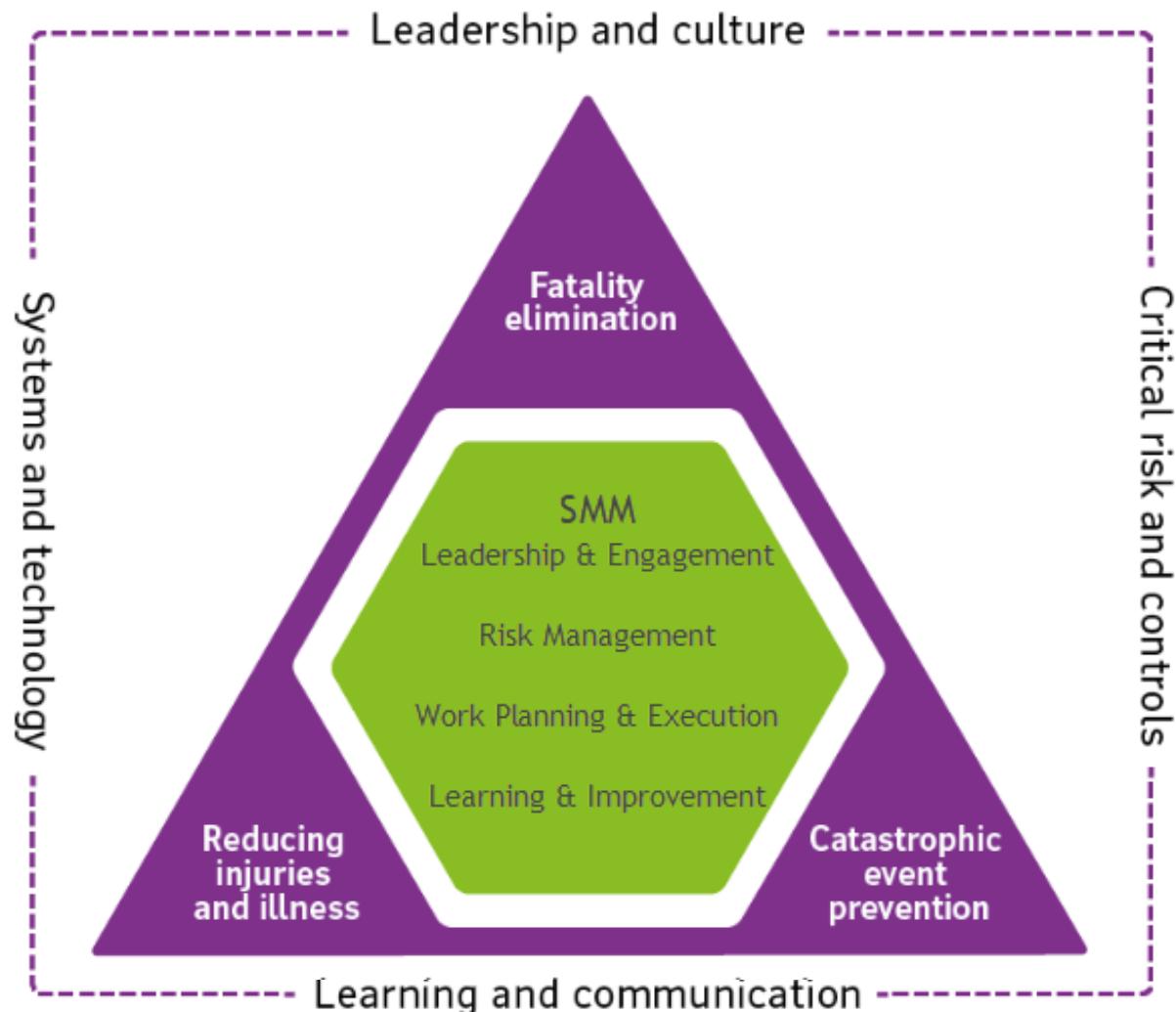
"If it's not safe don't do it that way"



A Balanced Approach to Risk

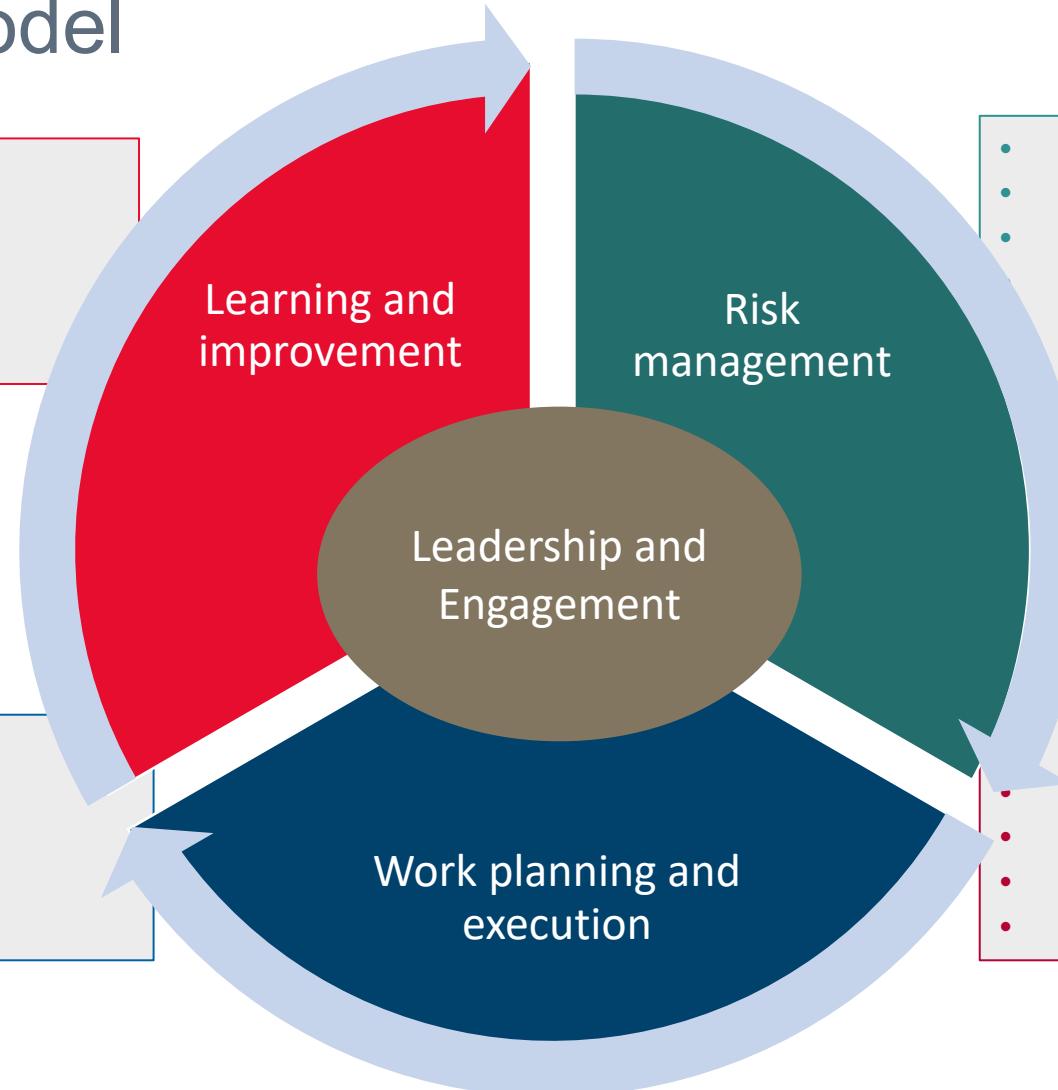
A balanced approach to risk ensures all aspects of risk are covered in our operations including:

- Safety
- Psychosocial
- Health & hygiene
- Environment
- Communities
- Security
- Major hazards process safety



Leadership in HSE Safety Maturity Model

- Data insights
- Incident reporting and investigation
- Actions follow up
- Replication
- Timely sharing



- Risk knowledge and process
- Fatality prevention (CRM)
- Risk reduction
- Process Safety Management (PSM) implementation
- Injury management and reduction

Safety Leadership

Excelling in safety leadership is critical, especially during difficult times

The 'Safety Maturity Model' was introduced in 2019

Annual external assessments.



Safety Maturity Model | Criteria

Leadership & Engagement	<p>L1.1 - Leadership competencies, behaviours and genuine care Focus areas: Field time, leader rituals including genuine care attributes</p> <p>L1.2 - Pre-shift meetings Focus areas: Quality pre-shift meetings driving team engagement and ownership</p> <p>L1.3 - Coaching Focus areas: Technique, effectiveness and feedback and future leaders</p> <p>L1.4 - Communication, recognition and performance feedback Focus areas: Communicating safety performance, cascading safety information, addressing unwanted/undesired behaviours (including sexual harassment, racism and bullying) and recognising/rewarding desired behaviours</p>
Risk Management	<p>R2.1 - Balanced approach to risk Focus areas: Balanced risk management, Understanding your risks and hierarchy of control</p> <p>R2.2 - Health and environment operational ownership Operational ownership of Health and Environment: guidance, communication and rituals (move from compliance to excellence)</p> <p>*R2.3 - Maintaining CRM maturity Focus areas: CRM system and governance, quality verifications, data analysis, CRM non-conformances, (share, learn and improve)</p> <p>R2.4 Risk Systems Focus areas: Core systems supporting risk and control knowledge - first party assurance & change management</p>
Work Planning & Execution	<p>W3.1 - Work planning, management and operational discipline Focus areas: Conformance to plan, contractor management, PPE, housekeeping and maintenance health</p> <p>W3.2 - Pre-task risk assessments Focus areas: Quality pre-task risk assessments and effectiveness of controls</p>
Learning and Improvement	<p>*I4.1 - Incident reporting and investigations Focus areas: Incident reporting, investigations and action management</p> <p>I4.2 - Critical learning and replication* Focus areas: Learning critical lessons and replicating learnings</p>

Basic

Evolving

Advanced

Leadership in the Field

Dedicated time in field every shift

“Visible Engaging Leadership”

Coaching

Safety interactions

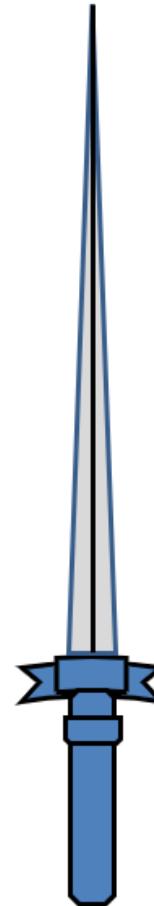
Critical control verifications

Potential upside when done well

- Leaders have engaging conversations with people feeling supported and listened to
- Previous conversations are followed through (we do what we say we will do)
- Leaders can identify & give positive tokens in the workplace when people go above & beyond
- Leaders identify and challenge non-conformance and call out regression
- People feel leaders care about them beyond the context of the work environment
- Leaders take the time to explain the linkages between great work to the vision and purpose
- Leaders give feedback on the status of actions and improvement work before being asked
- Leaders take the time to coach and develop people in the workplace

Traps to avoid

- Leaders only see & talk to people when something is wrong
- Previous conversations/promises are never referred too by leaders
- Leaders walk past less safe acts effectively condoning them
- Leaders don't identify or say anything when people go the extra mile
- Leaders fail to acknowledge team members as they walk around the plant
- Discussions centre only on the task at hand giving people a feeling that they are appreciated for their physical presence as a set of arms and legs not unique & talented individuals
- Leaders reward behaviours that are known by the crew to be a racket
- Leaders acknowledge and reward hero productivity behaviours



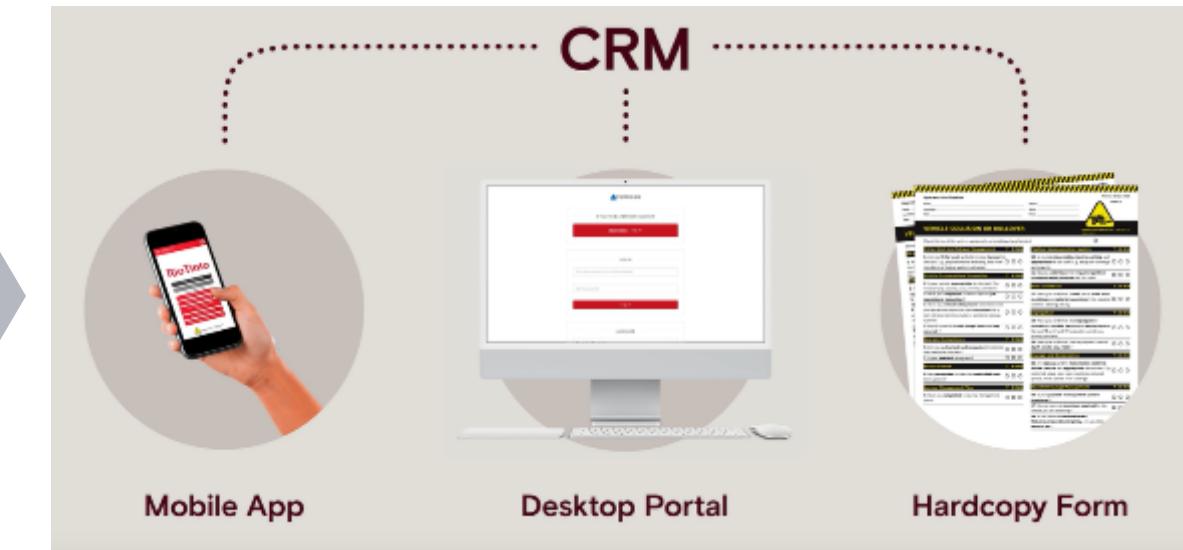
Double edged sword analogy

Eliminating Fatality Risks

Critical Risk Management



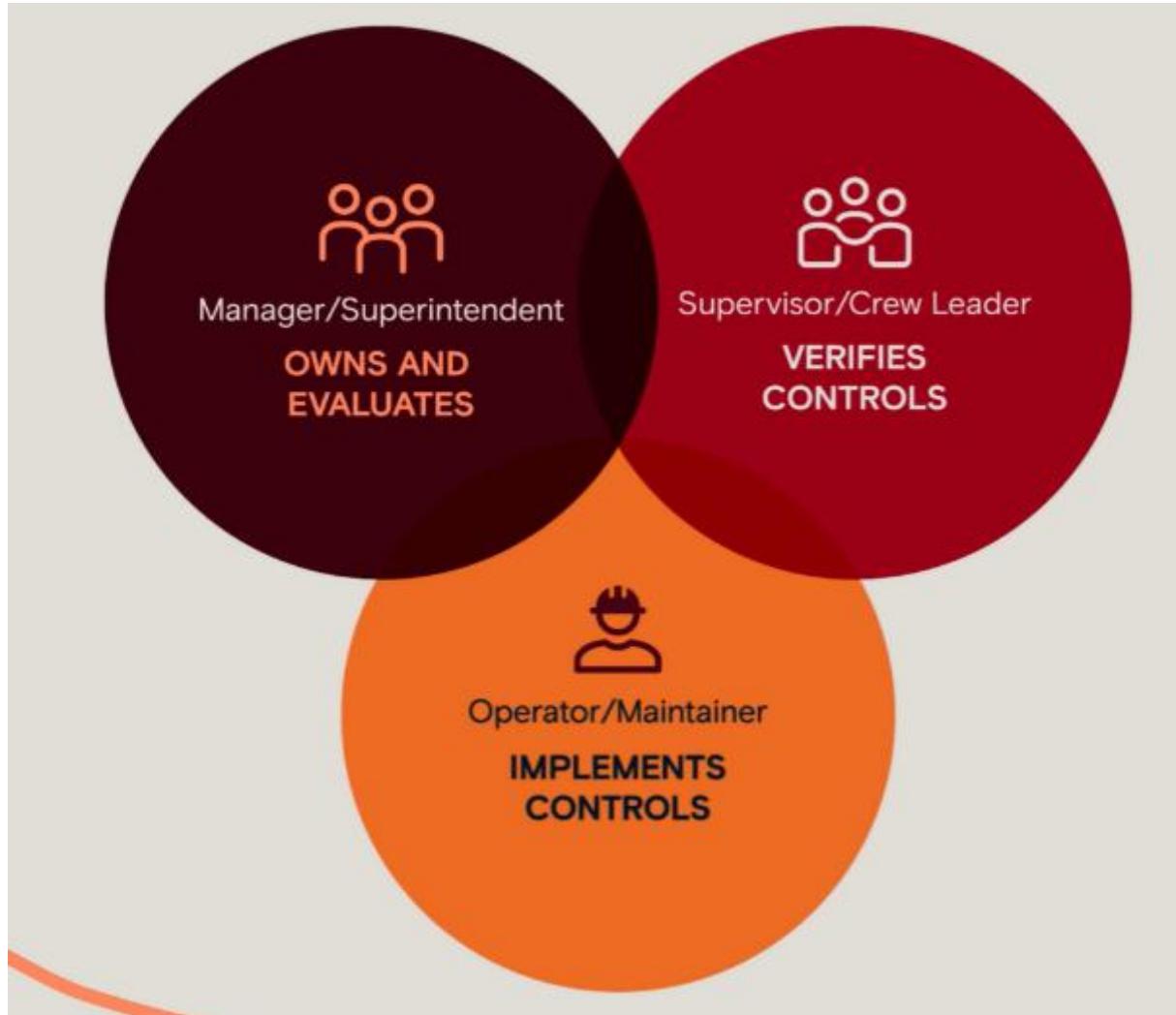
Critical Controls identified for all Critical Risks



Critical Controls verified in field

Eliminating Fatality Risks

Critical Risk Management



Senior leaders own the system and evaluate its effectiveness

Crew Leaders perform Critical Control verifications during shift based on risk

Operator / maintainers implement critical controls in the field and verify using Critical Control Checklists

Critical Risk Management

Frontline Teams

Am I working safely?

Operator Verification																																															
Task: _____	Name: _____	Printed: 8 Aug 2025																																													
Location: _____	Date: _____	95833 2																																													
Site: _____	Time: _____																																														
FALL FROM HEIGHT																																															
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Frontline Supervisors

Is my team working safely?

Supervisor Verification																																											
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Physical Location: _____	Date: _____																																										
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Critical Control Owner

Are my critical controls effective?

Manager Verification																																																
Task: _____	Name: _____																																															
Location: _____	Date: _____																																															
Site: _____	Time: _____																																															
Critical Risk: Fall from Height																																																
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Safety begins at Shift Start

Global shift start standard

Safety begins at Shift Start

Global shift start standard

Best Practice Process | Shift Start

Safety



Purpose

- Team honestly reflects on safety performance from last shift
- Reflection includes safety focus from last shift
- Use this information to improve or sustain future safety

HSE cross

- Team reflects on the safety performance and provides a rating
- Multiple people sharing views using the language of the rating not just a colour ("blue day")
- Able to talk to the improved process or behaviour and how it will be sustained

What good looks like

- Leader uses genuine inquiry to understand
- Team members reflect on their own behaviours and are willing to share
- Honesty is celebrated
- Team owns safety performance and doesn't focus on external factors
- Team members show ownership rather than assigning blame or excuses
- Open discussion on safety behaviours with a focus on learnings to drive improvement

Improved Safe Shift

All criteria for a Safe Shift were met **and** a sustained safety improvement has been made. E.g. there has been:

- A long-term fix has been implemented for a hazard, CRM non-conformance or an incident, **or**
- Procedure change that improves safety, **or**
- An effective solution implemented for the root cause of a safety problem

Even Better If (EBI) Shift

All criteria for a Safe Shift were met **and** a personal near miss has been shared and embraced. E.g. there has been:

- An "I" statement from a team member displays vulnerability and provides an opportunity for the team to learn and improve, **or**
- Team identifies and embraces a less safe behaviour as a learning EBI

Safe Shift

The shift is not an Unsafe Shift and

- All equipment checks and pre task risk assessments have been completed, **and**
- All critical controls have been implemented for Critical Risks, **and**
- There have been no near misses, **and**
- Team adheres to the daily safety focus

Unsafe Shift

A shift that didn't adhere to the requirements of a safe shift. E.g.

- A near miss / hit occurred where a critical control wasn't in place or being utilised during the shift
- Equipment / environmental damage sustained
- A physical or psychological injury to a person
- A significant incident
- Operating while fatigued

Learn & Improve

Leadership Participation

Verification Summary

Operating Responsibility
Multiple selections

Structure Level (CRM Portal)
All

Operating Responsibility
Aluminium (Op Resp Level 1) + Pacific Operations (Op Resp Level 2) + Operatio...

Structure Level (CRM Portal)
All

Site Levels (Physical Location)
All

Date
From 2018
01/01/2024 | 08/04/2024

Verification Type
All

Vendor
All

Verifications by count

Verifications by %

Critical Risk & Control by count

Compliances **Non-Compliances**

	Compliances	Non-Compliances
Karen Short	26	24
Andrew Williams	3	12
Bernie Carter	11	12
John Brumhall	892	20
Andy Jenkins	390	13
	386	12
	353	2
	310	20
	306	13
	217	7
	201	11
	181	13
	140	5

Top 3 Non-Compliant Risks

Critical Risk	NC#	Total#	%NC
Contact with Molten Material	20	330	6.06%
Exposure to Dust and Fumes	13	194	6.70%
Falling Objects	13	319	4.08%

Top 3 Non-Compliant Controls

Critical Control	NC#	Total#	%NC
Barriers and Segregation	9	143	6.29%
Guards, Barriers and Barricades	6	83	7.23%
Molten Material Exposure Protection	6	79	7.59%

Top 3 Non-Compliant Questions

Questions	NC#	Total#	%NC
Is the parked vehicle fundamentally stable, i.e. with no risk of uncontrolled movement?	4	108	3.70%
Has the correct Pre-operational checklist been completed for the specific vehicle?	6	24	16.67%
Are the lifting equipment and lifting points safe for use? i.e. inspected with no defects	4	68	5.88%
Are personnel and vehicle operators following segregation rules?	4	19	23.81%

Verification Question Comments

Q.No.	Question Comments
1	-
1	no other method available
3	1 New starter still undergoing training on safe zones while load is being restored to reduce lines
1	3 x Inalco Team members and 3 x different truck drivers (FHL)
1	A work plan had been established before entering the store especially with visibility once product starts to be loaded as it is very dusty.
1	A P issued and controlled although ticked N/A by operator. had discussion as to why that choice was made and agreed should be a yes.
1	Access Permit

Verification Type by Operating Responsibility

Op Resp Level 1	CCC	CCFV	CCVS	TBCCFV	Total
Aluminium	455	2,487	338	403	3,683
Pacific Operations	455	2,487	338	403	3,683
Total	455	2,487	338	403	3,683

Verification Type

Compliances Non-Compliances

	CCVS	CCFV	CCC	TBCCFV
CCVS	284	54	62	1
CCFV	2,425	62	1	9
CCC	454	1	394	9
TBCCFV	394	9	454	1

RioTinto

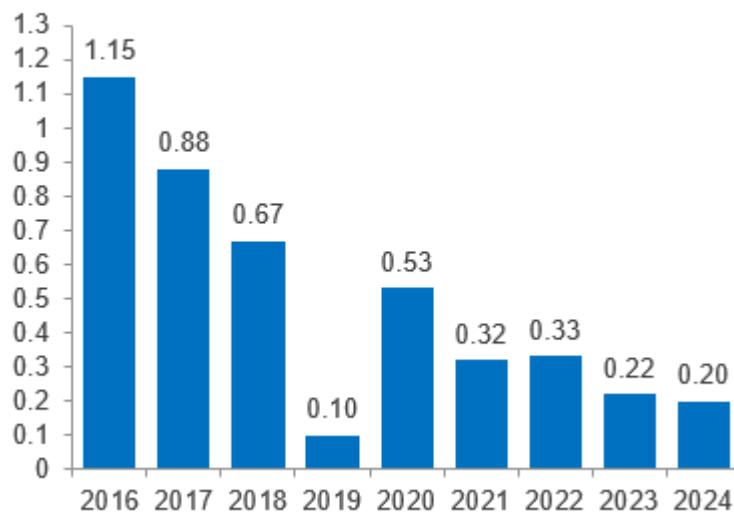
<Footer>

25

Where are we now?

2024

AIFR



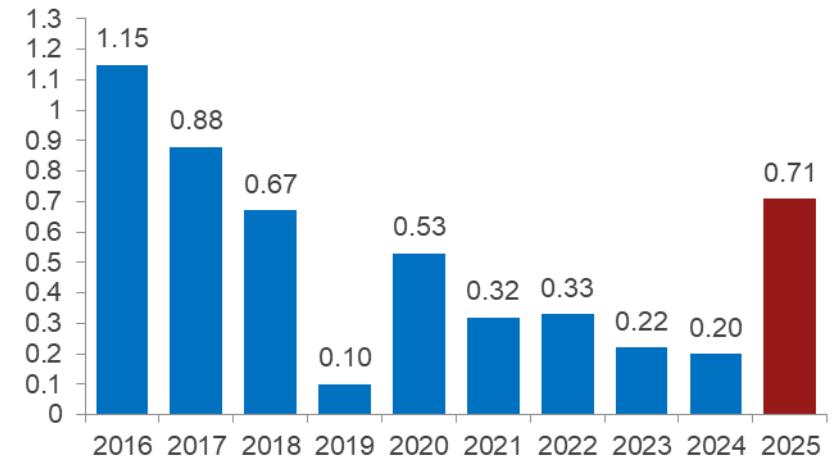
410 days injury free

A rolled ankle in October 2024 brought our record-breaking run to an end, marking 410 days injury free.

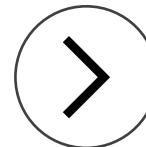
Previous record 301 days which stood for over 20 years.

2025

AIFR



What changed ?



We will not let complacency be an outcome.

We treat each day as a new day and remain vigilant on removing the risks to our people, place and plant.

