

Boyne Smelters Limited sustainable development

2020 Scorecard



Safety

Putting the health and safety of our people first

6 Recordable injuries	3 Recordable occupational illnesses	0.55 All Injury Frequency Rate (AIFR)
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Safety We were rated as one of Rio Tinto's top performers globally with our Safety Maturity Model results. First introduced to all Rio Tinto sites in 2019, the model focuses on leadership and engagement, risk management work planning and execution, and learning and improvement. In 2020 we also achieved a major milestone with the removal of chlorine as a major hazard onsite.

Employee health and wellbeing To support the region's COVID-19 response, BSL introduced a multi-layered screening process as an additional tool to support the health and safety of our workforce and community.

Cash

Maximising cash to increase our resilience

507,236t Aluminium	\$244.4M National spend on goods and services	\$9M Taxes and royalties to local, state and Australian governments
\$49.6M Local spend on goods and services	\$21.6M Capital expenditure	

People

Building a workplace where we all feel valued, connected and can grow

944 Full Time Equivalent (FTE) employees	76 Full Time Equivalent (FTE) contractors	13.4% Female employees (FTE)
36 Apprentices and trainees	\$145.9M Salaries and benefits paid	

Growth

Growing our business responsibly to benefit future generations

Record production Highest metal production since 2017 curtailment with a new record for energy efficiency per tonne of metal.	Aluminium can recycling BSL contributes to the circular economy by recycling, reusing and reducing waste. We recycle around 156 million aluminium cans a year and are Australia's largest aluminium can recycling facility.	Economic contribution (includes salaries, partnerships, in-kind support, taxes, total national supplier spend)	\$400M
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Partnership

Building relationships that enable us to operate and pioneer progress

\$311,656* Community investment <small>(includes in-kind support to EBITs)</small>	18 Community organisations supported	0 Significant community complaints	\$126,940** COVID response investment to local community	Partner to operate BSL supported the Boyne Island Environmental Education Centre's 'Caring for Clownfish' program, addressing the overharvesting of wild clownfish in the reef. We continued to support gifted high school students through the BSL Zenith program, offering students an opportunity to learn beyond the classroom. BSL hosted a community forum , providing an opportunity for our neighbours to provide feedback to our team and listen to site updates.	Environmental stewardship 2 Significant environmental incidents We continue our environmental conservation and hazard reduction initiatives, including feral animal control, weed management, and selective back burning to manage our buffer zone.
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*In addition to Rio Tinto's \$353,048 contribution to the Here for Gladstone program
**Rio Tinto's contribution to the Gladstone region divided per three sites

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Our operation

Boyne Smelters Limited (BSL) has been operating since 1982 and is Australia's second largest aluminium smelter. The operation is located at Boyne Island in Gladstone, Central Queensland. Its activities include manufacturing carbon anodes in the carbon plant, aluminium production (smelting) in reduction lines, and casting of molten metal into aluminium products ready to ship. The smelter is adjacent to, and connected via a conveyor belt, to the Queensland Alumina Limited Refinery for the supply of alumina.

BSL is a joint venture between Rio Tinto, YKK Aluminium, UACJ Australia, Southern Cross Aluminium, Ryowa Development II, Ryowa Development and Sumitomo Chemical.



Case studies

Celebrating 15 years with EBITS

In 2020, BSL celebrated 15 years offering students an authentic workplace learning environment through the EQIP Business, Industry and Tourism Skills (EBITS) program. In partnership with Education Queensland and Industry Partnership Gladstone, EBITS offers structured education and work experience opportunities on site at BSL, helping students achieve certificate qualifications in their chosen pathway, such as business, tourism, the services sector or continuing tertiary studies.

The program supports approximately 60 students each year from local high schools, keeping them engaged in their regular schooling while at the same time offering alternative education opportunities as they reach the end of their secondary education.

Pre COVID-19, students were also heavily involved in the community, attending networking meetings and assisting with local events. Over the past 15 years, approximately 600 students have completed EBITS courses at BSL.

Investing in 4.0 technology

BSL is continuing to invest in a range of 4.0 technologies including automation projects, cold metal pad restarts for reduction lines, reduction of dust emissions and the removal of chlorine from site by installing a 'treatment of aluminium in crucible' (TAC) machine. The TAC system has eliminated the use of chlorine gas at the Vertical Direct Chill casting facility—a major success story in managing our safety risks.

Planning for our future

At the end of 2020, Rio Tinto Aluminium launched its new global vision—Reimagine Aluminium—our pathway to maintaining our competitiveness and industry-leading position. BSL has developed its roadmap, honing in on the social, environmental and financial drivers to achieving a bright future under five key themes:

Future ready workforce

- Diverse and engaged workforce
- Eliminate or best manage health risks
- Employees empowered to be problem solvers

Partnering to operate

- Use best practice waste and emissions management
- Maximise secondary aluminium production
- Remain an integral part of Gladstone community

Future ready workplace

- Simplified and sustainable operating mode
- Eliminate or best manage safety risks
- Modernise equipment and increase automation

Data and systems

- Data-driven decision making
- Paperless workplace
- Integrated technology into routine work practices

Greenhouse gasses and energy

- Best in class GHG emissions
- Non-production areas powered by renewables
- Support decarbonisation of the Queensland grid