2018 SUSTAINABILITY REPORT Salar de Olaroz Lithium Facility





Report Overview

This is Orocobre's second Sustainability Report, covering the second full year of commercial lithium production at the Salar de Olaroz Lithium Facility (Olaroz Lithium Facility).

This report is structured to present the sustainability performance of Orocobre Limited (Orocobre or the Company) as joint venture partner and manager of the Olaroz Lithium Facility. The report has been prepared in accordance with the GRI Standards (Core), our progress with regards to the 10 principles of the UN Global Compact in Environment, Labour, Human Rights and Anti-Corruption, and our contribution to the UN Sustainable Development Goals (SDGs) as an integrated component of our core business activities.

In all we do, we seek to find ways to enhance our contribution to society through commercially beneficial programs and initiatives. As such, our reporting and performance focuses on the three core areas of our contribution:

- Sustainable Product
- Efficient Operations
- Local Development.

Icons will be used to indicate which UN SDGs are directly addressed by our activities and contributions.

As the development and performance of Orocobre's Olaroz Lithium Facility remain the central focus of our investors and shareholders, we continue to focus our reporting on Sales de Jujuy S.A. (the operating company for the Olaroz Lithium Facility) and its activities. Our material issues have been reviewed and updated based on material announcements and developments in 2018 and validated through engagement with our investors.

The data and content provided in this report covers the period 1 July 2017 to 30 June 2018. We are finalising our sustainability reporting systems and processes to ensure data consistency and reliability and will be well-positioned to seek limited report assurance in 2019.

For any questions or feedback regarding this report, please contact our Investor Relations Manager via mail@orocobre.com.

Forward Looking Statements

The 2018 Orocobre Sustainability Report: Salar de Olaroz Lithium Facility contains forward looking statements, including statements regarding plans, strategies and objectives of management; operations or facilities; and regulatory developments.

Forward looking statements may be identified by the use of terminology including, but not limited to, 'intend', 'aim', 'project', 'anticipate', 'estimate', 'plan', 'believe', 'expect', 'may', 'should', 'will', 'continue' or similar words. These statements discuss future expectations or provide other forward looking information.

These forward looking statements are not guarantees or predictions of future performance and involve known and unknown risks, uncertainties and other factors, many of which are beyond our control and which may cause actual results to differ materially from those expressed in the statements contained in this Sustainability Report.

There can be no assurance that forward looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information.

Accordingly, readers should not place undue reliance on forwardlooking information. Orocobre Limited does not undertake to update any forward-looking information, except in accordance with applicable securities laws.

Actual results may differ materially from those expressed in such statements as a result of a variety of factors, including our ability to profitably produce and transport products to applicable markets; the impact of foreign currency exchange rates on market prices of products that we produce; activities of government authorities in the countries where we are exploring or developing projects/ facilities, including increases in taxes, changes in environmental and other regulations and political uncertainty; labour unrest; and other factors identified in the Risk Management section of the 2018 Orocobre Annual Report (see page 46).

Past performance cannot be relied on as a guide to future performance.

For details on approach, boundary and scope of this Sustainability Report, please refer to <u>page 16</u>. To indicate the alignment of our sustainability initiatives and disclosures with the UN SDGs, SDG icons will be posted at the top of each page to highlight the goals being covered.



SDG 14 (Life Below Water) and 16 (Peace, Justice and Strong Institutions) are not included as they have no relevance within the context of our operations.

Orocobre Limited

Orocobre Limited through its role as joint venture partner and manager of the Olaroz Lithium Facility is a dynamic global lithium chemicals supplier. Orocobre is dual listed on the Australian Securities Exchange (ASX:ORE) and the Toronto Stock Exchange (TSX:ORL) and is included in the S&P/ASX 200 Index. Orocobre lithium operations are conducted through:

Sales de Jujuy S.A.

Operating company for the Olaroz Lithium Facility, a large-scale de-novo brine-based lithium project in Jujuy Province of Argentina, Sales de Jujuy (SDJ) is a joint venture (JV) between Orocobre Limited, Toyota Tsusho Corporation (TTC) and the Mining Company of the Argentina provincial government of Jujuy, Jujuy Energia y Mineria Sociedad del Estado (JEMSE).

Orocobre's current focus is the optimisation of Stage 1, the fully funded Stage 2 Expansion at the Olaroz Lithium Facility and progressing plans for a 10,000 tonnes per annum (tpa) Lithium Hydroxide Plant to be built in Naraha, Japan.







Sales de Jujuy

The Company's key properties are owned and held by Argentine operating company Sales de Jujuy S.A. (ORE 66.5%) and contain those properties associated with the Olaroz Lithium Facility.

The Olaroz Lithium Facility Joint Venture is managed through the operating company, SDJ. The shareholders are Sales de Jujuy Pte Ltd (SDJ PTE) and JEMSE, a mining investment company owned by the provincial government of Jujuy, Argentina. SDJ PTE is a Singaporean company that is the JV vehicle for Orocobre and TTC.



Joint Venture Structure

Olaroz Lithium Facility

The Olaroz Lithium Facility is located in Jujuy Province in northern Argentina, approximately 230 kilometres northwest of the provincial capital city of Jujuy. The operations are at an altitude of 3,900 metres above sea level and produce lithium carbonate from the Salar de Olaroz brine resource. The Olaroz Lithium Facility is unique as it incorporates a large-scale purification circuit with the ability to produce 100% battery grade lithium carbonate on site.



Our second full year of production



Record EBITDAIX of

US\$94.6 million

up 33%



Second full year of production totaling

12,470 tonnes

up 5%



Average price received of

US\$12,578

per tonne, up 29%



Record yearly revenue US\$148.9 million



Gross Cash Margin of 67%, delivering

US\$8,384

per tonne, up 39%



US\$40 million

Stage 2 Expansion early works program underway with new boreholes, ponds, roads and camp infrastructure

2018 was the second full year of commercial production at the Olaroz Lithium Facility.

The Olaroz Lithium Facility produces a range of highly sought-after lithium carbonate products that are sold into global markets. Demand for lithium chemicals continues to increase as the world's consumers require high quality lithium batteries in applications that are increasingly dominated by state of the art, high performance electric vehicles (EV) and grid power storage applications at residential and commercial scale. Consumer electronics continue to provide significant underlying demand, but it is the wholesale adoption of EV technology by global auto manufacturers that will drive unprecedented growth in lithium demand over the next decade. We are determined to meet the world's growing demand for lithium through the sustainable development of our assets, including staged expansions of the Olaroz Lithium Facility.

In 2018 we were excited to launch an early works program for the Stage 2 Expansion which included the drilling of new boreholes and construction of new ponds, roads and camp infrastructure. On completion, the Expansion will increase overall nameplate production capacity to 42,500 tpa.

This report provides an overview of our key sustainability challenges and achievements over the past year and sets our areas for focused improvement in coming years.



Contents

 Value Chain
 Long-Term Outlook
 Communities
 Environment

& Capability Culture

OROCOBRE SUSTAINABILITY REPORT 2018 11

Letter From Managing Director, Martín Pérez de Solay



I am pleased to present the 2018 Sustainability Report in relation to the Olaroz Lithium Facility, prepared in accordance with the GRI Standard – a global benchmark for sustainability reporting.

As this is my first opportunity to comment on sustainability, it has quickly become evident that my predecessor Mr. Richard Seville's commitment to the Shared Value program at Olaroz has established an enviable culture based on understanding and analysis, operational excellence and sustainability, something that I am confident I can further develop in the future.

Orocobre is now a participant of the UN Global Compact. This year our report focuses on the social and governance performance of the Olaroz Lithium Facility in its second full year of commercial production. The report seeks to reflect our ongoing commitment to the local communities in which we operate, the environment and responsible management of natural resources and the safety of our people, suppliers and communities.

Based on the quality of our sustainability performance in the first year of operations, I am proud to announce that Orocobre was recently added to the Dow Jones Sustainability Australia Index. The Dow Jones Sustainability Indices are an objective platform through which both Orocobre and our shareholders can monitor, evaluate and benchmark our sustainability performance year-on-year.

I am also pleased to announce that Orocobre is now a participant of the UN Global Compact. This has driven a much stronger focus on Environment, Human Rights, Labour and Anti-Corruption in our governance and management practices and encouraged greater alignment of our core activities with the UN Sustainable Development Goals.

As I settle into the role of Managing Director and CEO, I do so knowing that Orocobre's future is bright, and that there is an unwavering commitment within the organisation to attain and uphold the best standards of social, environmental and governance performance. We are a young organisation that is constantly learning and evolving. We are flexible and adaptive and capitalise on lessons learned to create maximum value for all our stakeholders over the long term.

I would like to take this opportunity to convey my appreciation to the management team and staff, our JV partners, TTC, my colleagues on the Board and all Orocobre shareholders for welcoming me to this new role with generous support and encouragement. I look forward to keeping you all updated on the Company's development throughout 2019.

Martín Pérez de Solay Managing Director



Strategy

Our Corporate Strategy is centred on six strategic priorities and a corresponding set of objectives. The priority areas are mutually dependent and no objective can be achieved in isolation. Ongoing focus and commitment to each and every component of this strategy is critical to our success. Orocobre's sustainability focus areas, directly aligned to our strategic priorities and objectives, were defined as part of a broader materiality process and enable us to more effectively manage, measure, monitor and communicate our sustainability performance.

Corporate Strategic Priorities & Objectives



Meet growing demand through sustainable development

- Grow supply in a sustainable, enduring way
- Deliver quality products that meet client-specific requirements
- Ensure an ethical and responsible supply chain



Create long-term value for shareholders

- Maximise the long-term value of the project through staged expansions and prudent financing and investment
- Develop and maintain strong, strategic partnerships
- Consider interests of all stakeholders



Ensure long & lasting benefits to communities

- Drive community empowerment and integration
- Invest in and deliver collective and individual benefits to our communities
- Improve the quality of life in our communities

Sustainability Focus Areas



Value Chain

- Quality assurance
- Supply chain management



Long-Term Outlook

- Active risk management
- Stakeholder relations



Communities

- Community empowerment
- Community investment
- Human rights



Optimise environmental outcomes

- Optimise lithium recovery through the whole system
- Promote natural resource efficiency and productivity
- Ensure responsible land use and rehabilitation



Develop our People & Capability

- Commit to personal and professional development
- Inspire, value and retain our people
- Be at the forefront of innovation and technology
- Share knowledge and collaborate across departments
- Drive operational excellence through continuous improvement



Prioritise safety

- Continuously improve safety performance
- Embed a safety focused workforce culture



Environment

- Impact of climate
- Energy and emissions
- Water management and quality
- Waste management
- Biodiversity



People & Capability

- Training and development
- Satisfaction and retention
- Innovation
- Collaboration
- Continuous improvement



Culture

- Culture management
- Health and safety
- Reporting, analysis and action

Sustainability Framework

Orocobre is a young company in the early stages of both our operational and sustainability journey.

2018 was our second year of full commercial production and our second year reporting our sustainability performance. This provides a solid indication of our commitment to ensuring strong performance in both areas, and we consider both integral to our overall business success.

We acknowledge, however, that attaining a best practice sustainability management approach will take time, focus, and incremental improvements across every area of the business.

We have defined a Corporate Sustainability Framework and will be systematically strengthening components of this over the coming years. We are taking a staged approach to sustainability management and reporting: establishing solid management fundamentals as a priority, and then developing meaningful metrics and controls. This way we can ensure targeted, accurate and consistent monitoring of sustainability performance across the organisation.

We understand the importance of quantitative targets and Key Performance Indicators (KPIs), and we are committed to setting these at the appropriate time. As we are still refining and stabilising our production processes, expanding our operations, and implementing centralised sustainability reporting systems, our targets and KPIs will remain action rather than results oriented until our assured baseline is defined in 2020.



5-Year Plan

To provide our investors with a clear indication of the activities and timelines we envisage for complete implementation of our Sustainability Framework, as well as the external benchmarks that we will be using to objectively evaluate our progress, we have developed the following 5-year plan.

	Activity	External Benchmark				
2018	 Benchmark Sustainability Performance Evaluate Sustainability Strengths and Weaknesses 	 Establish Sustainability Management Framework Develop Strategy and Roadmap 	 DJSI Australia CDP Response (limited) GRI (Core) UNGC CoP (Learner) 			
2019	 Implement Enterprise Management System Refine Policies, Guidelines and Performance Standards 	 Undertake specific Sustainability Risk and Opportunity Assessments Assurance Readiness 	 CDP Response (detailed) UNGP Report (limited) GRI (Core) UNGC CoP (Active) 			
2020	 Establish Quantitative Targets and KPIs Set Limits and Controls 	 Refine Plans and Procedures Establish Assured Sustainability Baseline 	 Improve DJSI & CDP UNGP Report (detailed) GRI (Comprehensive) UNGC CoP (Advanced) 			
2021	 Conduct Regular Audits and Assessments Implement Continuous Improvement Initiatives 	 Commence Social Impact Reporting Implement Renewable Energy Projects 	 DJSI Asia Pacific LBG Report IRMA Certification 			
2022	 Objective External Review of Sustainability Performance Explore Integrated Reporting 	 Redefine Sustainability Strategy and Roadmap 	 Improve DJSI, CDP, LBG Integrated Reporting Pilot 			

Highlights & Commitments



Achieved

••• Progressing

× Not achieved



Optimise environmental outcomes Focus area: Environment



Develop our People & Capability Focus area: People & Capability



Status	Target	Status	Target	Status	Target
✓	Increase local representatives in participatory monitoring	~	Formalise industry-specific training into certified course	~	0 fatalities
	Pouse and recycle water			×	Zero harm
~	to minimise extraction	✓	programs to address		
√	Implement emissions reporting framework		Identified capability gaps		Reduced TRIFR
~		~	educated to secondary level	\checkmark	from 3.9 to 3.3
×	Reduce water intensity by 15%	\frown		\frown	
	Environmental Management System recertified to		No days lost due to industrial action		Audit and Certification of Integrated Management System (including OHSAS18001)
	15014001.2015 Standard	(1-)	Turneyer below 15%		
	Participatory Environmental Monitoring Program		Turnover below 15%		
recognised by UNDP			Employee satisfaction above 95%		
lyr	Integrate energy and emissions performance into corporate and	lyr	Increase participation in employee engagement survey	lyr	Implement integrated data management and reporting system
-	operational KPIs		Increase % of workforce		Conduct safety culture
	Assurance of environmental data		with technical qualifications		change program using the DuPont Safety System
-			Incorporate KPIs and		
	environmental performance		performance review		system in plant
	based on assured data				

Set short-and long-term targets for energy and emissions intensity reduction

3yr

Establish targeted development and succession plans

Complete cultural review program

3yr

Undertake contractor safety

Prepare and train emergency

training and awareness

response brigade

3yr

Our Focus

To determine the material topics and issues for disclosure in this report the following process was undertaken:



Stakeholder Engagement

Investor and other stakeholder consultations and analyses used to review and update key interest areas.



Five-Part Materiality Test

Detailed analysis of internal and external sources to determine list of material issues.



Validation & Prioritisation

Executive review, validation and prioritisation of Sustainability Focus Areas and specific 2018 Financial Year (FY18) disclosures.



Outcomes

Our materiality process enabled us to reaffirm, update and reprioritise our Sustainability Focus Areas: the topics of ongoing relevance to our operations based on their significance to our stakeholders and our business.

Through the materiality process we also identified a series of discrete issues of specific relevance to our performance during the reporting year. This Sustainability Report covers these discrete FY18 Focus issues specifically.



Prioritisation of Sustainability Focus Areas

Relevance to Orocobre

FY18 Focus





Developing community capability to participate in project and non-project related activities



Aligning our community investment strategy with the UN SDGs and evaluating the social impact

Shared Value Case Studies

Environment

Impact of Climate

Managing the impact of climate on production and expansion activities

Impact on Environment

Better understanding our energy and emissions profile and water consumption across our operations

Myth-Busters

People & Capability



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Changing Nature of our Workforce

Recruiting specialists to assume strategic functions and highlyskilled project work

Employee Satisfaction & Morale

Maintaining positive morale in the workforce through a period of structural and leadership changes People Data

Culture

Culture Management

Reinforcing our code of conduct and anticorruption procedures

Health & Safety

Analysing and enhancing our health and safety approach Health & Safety Performance



Future Commitments



ΠP.

Capacity Building for Community Suppliers



Conduct and schedule Climate Risk Assessments



Conduct and schedule Human Rights Risk Assessments

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Develop systems for Supplier Monitoring and Compliance

Suppliers

We prioritise local suppliers for the provision of services to the project and source as many materials as we can from the local region and/or other provinces of Argentina. That said, there are certain critical production inputs (e.g. soda ash) and services that we can only source at appropriate quality from overseas.



National suppliers make up **94%** of services and materials

Customers

Lithium carbonate from the Olaroz Lithium Facility is sold to a range of markets across a spread of geographies.



End users

Lithium-ion batteries provide power for: Smartphones, tablets, laptop computers, power tools.

Larger format Lithium-ion batteries provide power for: Electric cars, scooters, electric bikes, buses,

forklifts & other forms of transportation.

A significant driver of lithium consumption is the world-wide adoption of electric vehicles (EVs) encouraged by government incentives and infrastructure, falling costs of battery packs, improved performance of rechargeable batteries and a greater range of EV models to suit end-consumer needs. While EV penetration was approaching 1% worldwide in 2016, in certain countries in Europe penetration is as high as 25% and the general consensus is global EV penetration will be at approximately 4.5% by 2020.

Similarly, forecast lithium demand from the energy storage systems (ESS) segment varies widely with growth between 20% to 25% p.a. being recorded in

the past 3 years. As renewable energy targets are more likely to be achieved when renewable energy sources are combined with ESS, Orocobre believes ESS development will continue and exceed 30% p.a. growth by 2020.

EV and ESS together with healthy baseload demand in line with GDP growth will require at least 350 ktpa of lithium carbonate equivalent (LCE) production by 2020. While there are concerns regarding significant lithium carbonate supply shortage given market tightness, Orocobre is well positioned to bring new resource online in coming years to address the surge in demand.

Product Optimisation

Tailoring our product to meet customers' specifications

As a lithium producer, we are often categorised as a mining company. However, mining companies extract and process mineral/ore which is then sold based on an established commodity price, with degrees of variance based on mineral/ore grades.

Lithium production is different: it is a chemical process, not a mineral extraction and refining process.

Our lithium products vary in both physical and chemical composition. We produce micronised lithium for batteries and compacted lithium for the ceramic and glass industries. Detailed chemical specifications are defined by each client based on their specific needs.

In addition to lithium carbonate, our products may also contain varying quantities of other chemical elements as highlighted in the periodic table below.

Quality assurance is not just about ensuring we achieve the required lithium carbonate percentage in the final product, but also ensuring we meet the specific parts per million (PPM) limit for each additional chemical in the product, as defined by the customer. This PPM breakdown is commonly referred to as the 'impurity profile'.

When we discuss quality assurance, we are referring to the process by which we can ensure that the lithium carbonate and its impurity profile consistently meets the specific client specifications. Additional considerations include moisture content, magnetic particles, loss on ignition values, and physical form.

In this sense, lithium production from brine is a more complex operation than traditional mining extraction and processing. Customer specifications change and evolve. To continually and effectively tailor our products to meet customer requirements we must be able to constantly adapt and ensure the quality of our production processes.

In 2018 we enhanced consistency across the impurity profile, reducing the standard deviation by half on our primary lithium carbonate product on a bag-by-bag basis.

1				Atomi	c Number -	_> 1											
Hydrogen				7.00111	o rumber												Helium
1,008	4	1						— Symbol				5	6	7	8	9	4.002602
Li	Be				Name -	→ Hyd	lrogen	— Atomic	Weiaht			B	C	N	0	F	Ne
Lithium 6.94	Beryllium 9.0121831	Jilum Carbon Nitrogen Orygen Fluorine 1283 1407 15,999 15,999 15,999 15,999													Neon 20,1797		
¹¹ Na	¹² Mg												¹⁴ Si	¹⁵	¹⁶ S		
Sodium 22,98976928	Magnesium 24,305											Aluminium 26,9815385	Silicon 28,085	Phosphorus 30,973761998	Sulfur 32,06	Chlorine 35,45	Argon 39,948
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
K		SC		V	Cr	Mn	Fe		NI		Zn	Ga	Ge		Se	Br	Kr
Potassium 39.0983	Calcium 40.078	Scandium 44.955908	Titanium 47.867	Vanadium 50.9415	Chromium 51.9961	Manganese 54,938044	Iron 55,845	Cobalt 58.933194	Nickel 58,6934	Copper 63.546	Zinc 65.38	Gallium 69.723	Germanium 72,630	Arsenic 74.921595	Selenium 78,971	Bromine 79,904	Krypton 83.798
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
Rb	Sr	Y	Zr	Nb	MO	TC	Ru	Rh	Pd	Ag		l In	Sn	Sb	Te		Xe
Rubidium 85,4678	Strontium 87,62	Yttrium 88,90584	Zirconium 91,224	Niobium 92,90637	Molybdenum 95,95	Technetium (98)	Ruthenium 101,07	Rhodium 102,90550	Palladium 106,42	Silver 107,8682	Cadmium 112,414	Indium 114,818	Tin 118,710	Antimony 121,760	Tellurium 127,60	lodine 126,90447	Xenon 131,293
55	56		72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
	Ba	57 - 71 Lanthanoids	Ht	Ta	W			Ir	Pt	Au	Hg		Pb	B	Po	At	Rn
Caesium 132,90545196	Barium 137,327		Hafnium 178,49	Tantalum 180.94788	Tungsten 183.84	Rhenium 186,207	Osmium 190.23	Iridium 192,217	Platinum 195.084	Gold 196,966569	Mercury 200,592	Thallium 204.38	Lead 207.2	Bismuth 208,98040	Polonium (209)	Astatine (210)	Radon (222)
87	88		104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
Fr	Ra	89 - 103 Actinoids	Rf	Db	Sg	Bh	Hs	Mt	DS	Rg	Cn	Nh	FI		LV	TS	Og
Francium (223)	Radium (226)		Rutherfordium	Dubnium (268)	Seaborgium	Bohrium (270)	Hassium (269)	Meitnerium (278)	Darmstadtium (281)	Roentgenium	Copernicium (285)	Nihonium (286)	Flerovium (289)	Moscovium (289)	Livermorium (293)	Tennessine (294)	Oganesson (294)

La	58 Ce	59 Pr	⁶⁰ Nd	⁶¹ Pm	⁶² Samarium	63 Eu	Gadelinium	⁶⁵ Tb	⁶⁶ Dynamium	67 Ho	68 Er	69 Tm	⁷⁰ Yb	Lu
138,90547	140,116	140,90766	144,242	(145)	150,36	151,964	157,25	158,92535	162,500	164,93033	167,259	168,93422	173,045	174,9668
Ac	[®] Th	Pa	⁹² U	⁹³ Np	Pu	⁹⁵ Am	°Cm	⁹⁷ Bk	°°Cf	⁹⁹ Es	Fm	Md	¹⁰² NO	103
Actinium (227)	Thorium 232.0377	Protactinium 231.03588	Uranium 238.02891	Neptunium (237)	Plutonium (244)	Americium (243)	Curium (247)	Berkelium (247)	Californium (251)	Einsteinium (252)	Fermium (257)	Mendelevium (258)	Nobelium (259)	Lawrencium (266)

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Leveraging product optimisation opportunities along our value chain

Recognising the change in battery technology to high nickel based cathodes which require lithium hydroxide, Orocobre and JV Partner TTC have accelerated plans for development of a 10,000 tpa lithium hydroxide plant to be built in Naraha, Japan.

The project is also expected to enhance margins on the volume of Olaroz lithium carbonate production used as feedstock, diversify Orocobre's lithium product range and enhance Orocobre and TTC's relationships with key lithium end users in Japan. The proposed location is well situated near potential customers and reduces the risks of caking and degradation of product when lithium hydroxide is transported and exposed to humidity and atmospheric air. The proposed Naraha Lithium Hydroxide Plant will have a production capacity of 10,000 tpa of lithium hydroxide.

Test work has demonstrated that a very high-quality, battery grade, lithium hydroxide can be produced.





Value Chain Optimisation

Enhancing control & efficiency of the value chain

In 2018 the structure of the supply chain function at SDJ was redefined to enhance control and efficiency across our broader value chain.

Inbound supply chain activities including purchasing, contracts and inbound logistics now report to the General Manager of Business Services, who is equally responsible for the oversight of finance and controls. This enables greater effectiveness and efficiency in the procurement and delivery of goods and services to the operation.

Outbound supply chain activities including liaison with customers via TTC (exclusive sales agent) and outbound logistics associated with the delivery of lithium carbonate to port now report through to our General Manager of Operations. This enables greater alignment between production, operations and customer delivery, ensuring the integration of contractual obligations into operational controls.

Over the coming 12 months, the focus for our inbound supply chain will remain on assuring continuity of supply and reducing the costs and demand for materials and services.

This includes improvements to decision-making and delegation at the line-management level; capacity building in SAP; increasing the level of spend-undercontract; contract administration and commercial skills; the implementation of bar-coding technology in our warehouses and an evaluation of the use of third-party site services and labour.

For our outbound supply chain activities, the focus over the coming 12 months will be on assuring the quality of the product in line with customer specifications (see page 26) and defining and integrating a delivery performance measure to ensure greater integration and accountability across our production and sales functions.

Promoting the performance of our suppliers

One of the strategic initiatives in the supply chain area for 2018 has been a comprehensive review of SDJ's truck-transport operations. This commenced with definition of operating standards that establish SDJ's minimum requirements for safe, reliable and sustainable transport operations. These standards have subsequently been taken to market and transport contracts will be established for SDJ's inbound and outbound supply chains. These will only be with those transport companies that meet the minimum standards.

The requirement for these standards was reinforced by an incident in early 2018 with a transport supplier spilling hydrochloric acid between Susques and Olaroz. The new operating standards establish (amongst other requirements) that yearly testing be carried out on the integrity of all tanker vessels, in order to avoid any similar incidents. Other areas of focus within the standard are ensuring adequate controls over key risks such as driver fatigue and emergency response procedures.

The review of transport operations also places a special focus on local community transport service providers. These companies currently undertake a considerable portion of SDJ's transport services and are recognised as important to SDJ's ongoing community investment commitment. The challenge will be to ensure that these community companies comply with the established operating standards and to this end SDJ looks to work directly with them to identify their current gaps and opportunities for improvement. This will then be the focus of a targeted capacity building program for community transport suppliers in 2019.

Local Suppliers



Procurement by region* (by value)







*This excludes soda ash. Soda ash is a critical production component that can only sourced at the appropriate quality internationally. Given its unique nature and value, it has been removed to provide a more representative breakdown of our elective procurement spend.

Long Term Outlook



Future Commitments



Establish metrics to demonstrate long-term value generation



Deliver the Stage 2 Expansion within budget



Successfully deliver the Naraha Lithium Hydroxide Plant with TTC within budget



Improve position on the Dow Jones Sustainability Indices



Advance Cauchari Lithium Project Joint Venture to Feasibility Study

Shareholder Composition

2018 Financial Highlights



Second full year of production totaling

12,470 tonnes

up 5%



Record yearly revenue

US\$148.9 million up 24%



Record EBITDAIX of

up 33%

US\$94.6 million



Average price received of

US\$12,578

per tonne, up 29%



Gross Cash Margin of 67%, delivering

US\$8,384

per tonne, up 39%



Solidifying long-term relationship with TTC

2018 was a hallmark year for the JV Partnership between Orocobre and TTC. In February 2018, Orocobre announced the finalisation of a 15% strategic placement to TTC, granting the JV Partner 37,544,920 shares at an issue price of \$7.50 Australian Dollars (A\$) per share.

This strategic placement (valued at A\$281.6 million) coupled with a pro rata entitlement offer, which allowed existing shareholders to participate at A\$6.55 per share (ultimately valued at A\$79.3 million), generated the funds required to progress with Stage 2 Expansion at Olaroz and the construction of the Naraha Lithium Hydroxide Plant.

Under the terms of the strategic placement, TTC was entitled to nominate one non-executive director to the Orocobre Board. This entitlement remains valid for as long as TTC retains at least 10% of Orocobre shares. Accordingly, in April 2018 Mr Masaharu Katayama from TTC was officially appointed to the Orocobre Board. A two-year standstill agreement caps TTC's relevant interest in Orocobre shares at 15% with anti-dilution rights for two years subject to TTC having a relevant interest in at least 10% of the shares.

Building on the successful JV Partnership already in place, it was agreed that Orocobre and TTC would have joint control over strategic marketing, the allocation of volume to customers and commercial terms of sale contracts with TTC to remain the exclusive sales agent for Olaroz Stage 2. Joint control will enable greater support and development of the sales function so it can successfully manage a potential 42,500 tonnes of annual production.

Details of the Strategic Placement between Orocobre and TTC can be found on the Company website <u>www.orocobre.com</u> (see ASX Release 'Recent Strategic Placement and Entitlement Offer Finalised' dated 28 February 2018).

With regards to the Naraha Lithium Hydroxide Plant development, TTC will have operational control with support and oversight from the Orocobre Board and nominated executive resources.



Former Orocobre Managing Director and CEO Mr Richard Seville and Mr Masaharu Katayama from Toyota Tsusho Corporation.

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2018 was a hallmark year for the Joint Venture Partnership between Orocobre and TTC. -

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Preparing for the Future

Bringing new capacity online to gain price & market advantages

Based on strong demand observed by both Orocobre and TTC, the Olaroz JV agreed to undertake an extension to the Olaroz Stage 2 Expansion.

Bringing the expanded resource online quickly and effectively will enable Orocobre to capitalise on existing lithium prices, expand market share and position the company effectively for future growth.

The Olaroz Stage 2 Expansion will add 25,000 tpa of lithium carbonate production capacity to the Olaroz Lithium Facility, taking total nameplate capacity to 42,500 tpa. This will position Orocobre as one of the world's largest and lowest cost lithium chemical producers, with lower Stage 2 operating costs further enhancing Orocobre's low cost base.

Long lead time activities including the construction of new roads, new evaporation and harvest ponds, a secondary liming plant, boreholes, the expansion of existing site infrastructure and camp accommodation commenced in FY18. Commissioning of the Stage 2 Expansion is expected in H2 CY20.

Working collaboratively to manage & mitigate collective impact

As one of several brine-based lithium producers operating and/or developing operations in the region, we acknowledge the importance of collective impact on the local social and environmental frameworks.

Last year we raised the importance of effective Basin Management, recognising that the long-term health of our brine resource and its surrounding ecosystem could not be monitored or managed by us in isolation.

Following further discussions with the provincial government and local peers in 2018, it was agreed that extraction data of all operators would be submitted to and monitored by the provincial government to ensure flow rates and extraction limits are respected and remain within sustainable parameters.

In addition to environmental and resource considerations from a risk perspective, we also acknowledge the potential for positive collective impact within the local communities, particularly through the establishment of shared regional development programs and initiatives.

Working collaboratively with Advantage Lithium on topics of social and environmental significance is facilitated by our JV partnership. For other operators in the region, establishing a collaborative approach will be more complicated, particularly given the differing stages of project development.

We are confident that through further discussion and engagement with these players, and with the local and provincial governments and authorities, we can develop a system for effectively monitoring and managing our collective impact on the social, environmental and economic wellbeing of all stakeholders in the region.

Stakeholder Engagement

Stakeholders

Orocobre's success as an organisation is grounded firmly in the quality of our relationships with numerous, diverse stakeholder groups locally, nationally and internationally.

Ensuring we have the systems, processes and resources to effectively monitor, engage, understand and respond to these various stakeholder groups is paramount. Currently, stakeholder relationships are managed directly and independently by diverse teams across the organisation.

In coming years, we will seek to establish common systems and frameworks for stakeholder management across the organisation. This will enable us to enhance the consistency and transparency of our engagement and, in turn, strengthen the quality of our relationships with all stakeholders.



Engagement Methods

Internal

Employees

- Induction workshops
- Ongoing direct personal dialogue
- Employee consultation meetings
- Suggestions box
- Annual performance reviews
- Employee satisfaction surveys

Director visits to site

- Reporting channel for unethical behaviour
- Intranet, newsletters, emails, billboards

Contractors

- Induction workshops
- Ongoing direct personal dialogue
- Suggestions box
- Reporting channel for unethical behaviour
- Intranet, newsletters, emails, billboards

Operational

Suppliers

- Supplier survey
- Annual breakfast with vendors/meetings
- Annual performance assessment
- Suggestions box

Customers

- Customer relationships directly managed by TTC
- Regular confirmation of customer needs
- Customer satisfaction surveys

Regulatory Bodies

and submissions

- Audits
- Monthly and annual reportsPermit and licence requests

- Communities
- Ongoing dialogue via Shared Value team
- Program development and evaluation activities
- Monthly assemblies, cultural and religious events
- Monthly Town Hall meetings
- Participation in environmental monitoring
- Direct face to face communication
- Telephone communication
- Meetings with community institutions

NGOs

- Meetings on request, as required
- Mail, phone, direct engagement

Local Government

- Meetings and presentations
- Spaces for debate and public-private dialogue
- Public-private linkage programs
- Emails, phone calls and direct engagement

Unions

- Regular face-to-face meetings
- Formal negotiations and approvals for changes
- Union representative within workforce
- Emails, phone calls
External

Industry Peers

- Communication via email/ forums
- Dinners/events with industry peers
- Emails and discussions re topics of relevance

Future Generations

- Precautionary principle
- Ensure best possible environment (physical and socio-economic) for future wellbeing

Institutional

Investors

- Continuous disclosure via website and emails
- Periodic disclosures via quarterly, half and full-year reporting and the Annual General Meeting
- Specific Information Disclosures via ASX Release.
- Meetings, interviews and surveys

Shareholders

- Online: Toronto + Australian stock exchanges
- Road shows
- Shareholder meetings
- Statutory reporting
 and accounts

National Government

- Meetings with government representatives and ministries
- Involvement in industry and policy focused working groups

JV Partners

- Regular ongoing meetings with TTC
- Technical assistance
- Meetings with business representatives

Trade Associations

- Memberships
- Regular meetings and events
- Contribution to advocacy platforms

Universities

- Course development
- Training programs
- Internships
- Research collaborations

Media

- Press releases
- Interviews
- Mail, phone and face-to-face engagement

The issues raised by our stakeholders in FY18 were incorporated into the Materiality Assessment which determined the focus topics for this report.

Communities

Future Commitments



Establish baseline for community wellbeing across our local communities



Work with Jujuy Government to maximise distribution of benefits



Promote transparency of royalty distribution



Strengthen strategic partnerships to advance Sustainable Development in the region

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38 COMMUNITIES

Our Communities



Approach to Community Engagement



Our Approach for Maintaining Strong Relations with our Community



Provide regular opportunity for engagement and consultation



Understand community expectations and demands



Deliver targeted support initiatives in the communities



Work with employees in the community (see People & Capability on page 74)



Work with community suppliers (<u>see Value</u> <u>Chain on page 26</u>)

Community Empowerment

Developing community capability to participate in project activities

SDJ is committed to the socio-economic development of our local communities. To achieve this, we promote local economic development initiatives that are independent from our activities and also capacity building initiatives to enable community involvement in project-related activities (see Empowerment and Education Case Studies on page 46).

In addition to capacity building to enable the creation of new community businesses and suppliers, we also appreciate the importance of supporting and developing existing community suppliers to ensure they are able to operate in accordance with the standards and requirements defined by SDJ.

Throughout 2017-2018, we developed and delivered a targeted supplier development program with INTI (the National Institute of Industrial Technology).

The program identified the key services that the community-based small-medium enterprises (SMEs) tend to provide (general services, civil works and transportation) and then worked with individual SMEs to identify specific improvement opportunities.

Several topics were considered relevant for all suppliers and were incorporated into the development program for all participants. These included:

- Cost Management
- Quality
- Handling of Chemical Products
- Safety
- Stock Management
- Human Resources.

Of the 16 local community SMEs, 14 participated in the training programs, with an average 22 man-hours of training delivered per month. INTI spent an average of 70 hours a month working directly with the suppliers on the project.

All participants reported improvements in their organisation following the training and one third indicated that further training was desired.

A review of our supply chain in 2018 identified the need to improve the social and environmental performance of our transport suppliers. Given that a large proportion of our transport suppliers are from the local communities, we will be delivering a targeted capacity building program for community transport suppliers in 2019.

Managing increased expectations due to expansion

The nature of site-based activity differs significantly during development and operations.

Throughout project development there are a lot of low-skill employment and supply opportunities. During operation there tends to be fewer, more highly-skilled roles.

It was therefore not surprising to see an increase in local community expectations following announcement of the Olaroz Stage 2 Expansion, as they know that development activity presents more opportunities for them to engage.

The focus for SDJ's Shared Value program team in FY18 was therefore on both capacity building and the effective management of expectations.

While we are committed to developing capacity and capability to ensure that local communities can engage as fully as possible with project activities, we also acknowledge that there is a limit to the number of low-skilled supply and employment opportunities available.

Additional resources have been assigned to manage expansion-related community engagement.



Community Investment

Aligning our community investment strategy with UN SDGs

Over the past decade, our community investment strategy has been centred on the five pillars of our Shared Value strategy: Education, Empowerment, Transparency, Production and Natural Resources and Health.

Given the increased focus from all sectors over the past few years on the United Nations' Sustainable Development Goals (SDGs), we appreciate the value of aligning our community investment strategy to these global goals and targets. Not only will it facilitate the identification of cross-sectoral partnerships and collaboration opportunities, it will also enable us to more effectively track our contribution to broader global development goals.

In 2018 we undertook a detailed process of alignment, which combined the objectives of the UN SDGs with the core components of Porter and Kramer's Shared Value model (i.e. local cluster development, value chain productivity, product and market innovation) to provide a consolidated framework for managing, monitoring and measuring our performance against the UN SDGs.

- 1. For each SDG, identify the social issues of relevance to our local operating context;
- 2. Categorise the social issues within the five pillars of Shared Value;
- 3. Define specific sub-categories within each pillar to reflect the social issue;
- 4. Identify the business relevance for each;
- 5. Prioritise focus areas for community investment based on social and business relevance; and
- 6. Define the social indicators to evaluate performance.

Working through this process enabled us to gain greater insight into the role of our community investment strategy within our broader contribution to shared value and the SDGs. It also prompted us to consider the most effective structures and vehicles to manage and maximise our overall contribution to society.

As such, in 2019 our focus will be on establishing the internal and external structures to more effectively administer and evaluate our community investment strategy.

Evaluating the impact & effectiveness of our investment

Over the past year we have worked to prepare our community investment data in accordance with the established global standard for community investment reporting: the London Benchmarking Group (LBG) Framework. This has enabled us to categorise our community contributions by type and by input and to identify gaps in our approach. It has also highlighted areas requiring additional data collection and management.

Currently we can report on the outputs and outcomes of our community activities, such as the number of participants in our education programs, or the number of community employees with secondary school qualifications. Impact metrics at a community level are a little more complex as we do not necessarily have the appropriate social baseline data to evaluate this effectively across all our program areas.

A social baseline study was conducted in 2010. This provided a base set of community data and indicators on which our community investment strategy was founded. That said, the data and indicators generated in that baseline study do not provide the level of detail required to enable the effective monitoring and evaluation of impact across our communities.

In 2019, the focus will be on defining a solid Theory of Change for the organisation, to provide additional strength and rigour to our community investment strategy and to facilitate the identification of suitable short, medium and long-term indicators for social impact.



- Charitable donations*
- Community investment
- Commercial initiatives**
- * Charitable Donations were made by SDJ in 2018 to support communities in the Jujuy province that were affected by heavy rains. As these were not donations made to our 10 local communities we did not capture the payments as part of our community spend. We will be revising our systems in 2019 to ensure all charitable contributions (including those administered beyond our community and Shared Value strategy) are captured.
- ** In FY18 we included our sponsorship of industry events supporting sustainable mining in the region in Commercial Initiatives



Management costs

* We do not currently have a system in place to track time invested by employees volunteering in community initiatives. There is no formal volunteering program in place. Employee time is contributed on an as-needs basis based on the activity and skills required.

** Tracking of in-kind donations has prover complicated in 2018 due to changes in internal reporting. We will be seeking to establish more robust tracking and measurement of in-kind donations across departments in coming years

Government Payments

Royalty and other Government Payments	USD
Provincial Royalty	1,641,172
Other provincial and municipal taxes	132,995
Other national taxes	849,644
Employment taxes paid by SDJ	1,486,995
Total Paid by SDJ	4,110,806
Total Paid by SDJ Provincial withholding tax to local business	4,110,806 582,780
Total Paid by SDJProvincial withholding tax to local businessNational withholding tax on salaries	4,110,806 582,780 550,341
Total Paid by SDJProvincial withholding tax to local businessNational withholding tax on salariesNational withholding tax to local business	4,110,806 582,780 550,341 5,265,468

Royalty Payments in Argentina

The payment of royalties in Argentina is determined by law. As such, Orocobre pays 3% of the 'mine mouth' value of the mineral extracted to the Provincial Government of Jujuy, who is then legally required to distribute that amount evenly across all 61 municipalities in the Province.

While Argentina is not an Extractive Industries' Transparency Initiative (EITI) nation, we are committed to ensuring transparency and will continue to disclose our payments to local government and communities as we develop.

In 2018 we have paid approximately 47 million Argentinian Pesos (ARS) or US\$1.6 million dollars in royalties to the Government of Jujuy.

Corporate Taxes

Orocobre's current operations are focused solely in Argentina. Orocobre is committed not only to full compliance with the tax laws of Argentina but also to ensuring all profits from its Argentina operations are taxed in Argentina.

SDJ does not currently pay corporate tax due to the carried forward tax losses incurred during construction and commissioning of the project. However, at current Lithium Carbonate selling prices, corporate tax is projected to be paid from FY20 onwards. In determining its taxable income SDJ does not participate in any transfer pricing arrangements with export selling prices being on a Free On Board (FOB) basis.

In September 2018, the Argentine Government introduced an export duty of ARS\$3 per US\$1 exported. Based on the exchange rate at that time (~ARS\$37.5/US\$1), the company estimated the duty would result in a cost of approximately 8% of its sales revenues. This export duty will remain in place until December 2020.

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The provincial government continues to benefit from the increasing value of the Olaroz asset through an 8.5% holding in SDJ by their mining and investment entity (JEMSE).

Shared Value

Outcomes & Impact



Case Studies

-



Empowerment

Community Microcredits Program - Case Study 1

SDJ made a commitment to our local communities, indigenous people of the Atacama, to support the development of new businesses within the region that are independent of the company's operations to help nurture sustainable socio-economic development.

A support plan for entrepreneurs was created, which provides Community Microcredits to help locals implement small business ideas.

It is important to note that the purpose of the Community Microcredit Program is to support ventures that are not related to mining, to assist in the comprehensive growth and development of local economies.

The first round of credit instalments was distributed in October 2017 with the second round being distributed in December 2017.

Beneficiaries

To begin the evaluation process of potential community microcredit beneficiaries, SDJ held workshops in each of the 10 communities to support the development of business ideas. From this, 64 business plans were presented to SDJ for evaluation with 24 successfully meeting SDJ's investment evaluation requirements. The 64 business plans were evaluated on the following criteria:

- Personal Entrepreneurial Skills (40%)
- Potential of the Business Idea (35%)
- Technical and Economic Feasibility of Implementation (25%).

Distribution of Community Microcredit beneficiaries are outlined below:

Community	Workshop Participants (Business Plan)	Projects Delivered	Selected Beneficiaries
Olaroz	8	5	1
Susques	15	8	3
Coranzuli	28	9	4
San Juan	12	6	1
El Toro	7	6	2
Catua	17	7	4
Puesto Sey	12	1	1
Pastos Chicos	6	6	2
Jama	23	10	4
Huancar	7	6	2
TOTAL	135	64	24



Invested/Recovered Amounts

As of 30 June 2018, the total amount invested via the Community Microcredits Program totaled ARS 872,970 (approximately US\$25,000). While there was a budget of ARS 100,000 per community, funds were only presented to viable ideas that met SDJ's investment evaluation requirements.

Businesses from each of the 10 communities that met the investment evaluation requirements are outlined below:

Community	Business	Operational	Comments
Olaroz	Grocery Store	✓	Benefiting from the population increase in Olaroz due to SDJ expansion.
	Hardware Store		
Susques	Personal Protective Equipment Store		
	Bookstore/Religious	✓	Successful business selling religious images and souvenirs. Hopes to expand.
	Restaurant		
Coranzuli	Butcher	✓	Going well and is now exploring the potential of opening a restaurant.
	Quinoa Production		
	Quinoa Production		
San Juan	Entertainment Venue	✓	Increasing clientele, focused on fun for children and adolescents, looking to improve the infrastructure.
El Toro	Entertainment Venue	✓	Has become meeting point for the small community, fast food and refreshment spaces included to boost the business.
	Hostel		
	Photocopy Services		
	Clothes Store		
Catua	Bakery	v	Produces and sells to the community directly and supports the café business of fellow Catua beneficiary.
	Café	~	Complemented by the new local bakery, the café is operating successfully in the community.
Puesto Sey	Grocery Store		
Dastas Chicas	Laundry		
Pastos Chicos	Tyre Repairs		
	Artisan - Wool Production		
Jama	Hostel	v	Working well and used frequently by SDJ contractors and suppliers.
	Tyre Repairs		
	Mechanic		
Huapcar	Restaurant		
Tudillar	Grocery Store		



Education

Certification & Infrastructure - Case Study 2

SDJ's Education Plan aims to improve the level of education of operating personnel, promoting autonomy as the personal competence from which all other qualities and abilities are developed.

The plan was developed in accordance with the compulsory primary and secondary education legislation in Argentina, together with various training specialisations helping support each operator's specific role while developing their skillsets to allow for future promotions.

The three core objectives of SDJ's Education Plan are:

- To align SDJ's growth and expansion with the educational development of its employees
- To work collaboratively across sectors, engaging proactively with communities, government agencies and other organisations
- To improve the level of education for the entire SDJ workforce, in accordance with the legislation of Argentina.

Baccalaureate Program

In 2014, SDJ worked collaboratively with the provincial government and our 10 local communities to develop a Regional Baccalaureate Program.

Classes began in February 2015 with 25 students attending. Classes were run by a professor appointed

by the Jujuy Ministry of Education's Distance Learning Coordinator. Classes were given Tuesday to Thursday from 5:00 pm to 7:00 pm and 7:00 pm to 9:00 pm to afford both night and day shift SDJ employees the opportunity to attend.

The Baccalaureate was offered not only to SDJ employees seeking to obtain a secondary degree, but also to the employees of contractor companies working with SDJ.

In December 2016, the Baccalaureate Program reached its first milestone with 19 students graduating from the program. The ceremony was held in Susques and was attended by key representatives of SDJ and the Provincial Government. The Baccalaureate Program runs from February to December each year. In 2018, SDJ's Baccalaureate Program had 27 students: 19 at Level 1, two at Level 2, and six at Level 3.

Since the program began, classes continue to run on schedule and the level of enthusiasm amongst students remains high. It is expected that enrolment in the program will continue to grow and, based on the progress of current students, SDJ is expecting more graduates this year.

Since the SDJ Education Plan was implemented we've seen the percentage of local employees with secondary education increase to 40%. Our objective is to reach 66% by 2020 and 100% by 2025.







Community Workforce Education Levels



*Target figures





Additional Training Programs

Additional courses that were delivered in the reporting period include:

- **Craft Bakery Courses** delivered collaboratively with Cookins (SDJ's catering supplier) across three communities. There were two classes per community, with over 200 people participating.
- Introduction to Chemistry Course ran from July to September 2017, with 13 classes per community. Upon completion of the course, three students with the best average grades were invited to join the SDJ workforce as operators in the salt harvest area.

Education Infrastructure

In 2018, the Technical School of Chemistry was inaugurated in Olaroz. This school was developed collaboratively with SDJ contributing project funds, the community constructing the school and the local government defining course content and its delivery in alignment with regional education priorities. Throughout FY18 SDJ has been working with the Olaroz community to construct a chemistry lab that will complement the facilities provided at the Olaroz Technical School of Chemistry.

Production & Natural Resources

Artisan Development Project - Case Study 3

In support of the SDJ's commitment to sustainable development, we seek to nurture sustainable, socio-economic development activities within our local communities that are independent of the company's operations.

In 2018, proposals to develop and implement a local economic development project were requested from a range of local consultants. The National Institute of Industrial Technology (INTI) was selected as project partner.

The Artisan Development Project was launched in April 2018 with a workshop that sought to align the individual, community and institutional objectives with the overarching objective of the project:

 Stimulate production and commercialisation of local entrepreneurs, developing their capability to work sustainably and without dependence on public or private institutions.

It was determined that for the Artisan Development Project to successfully achieve this objective it would require:

- Development of sustainable businesses that leverage traditional cultural activities
- Development of tools and capabilities at SDJ that enable the replication of similar socio-economic development projects in other communities.

The community of Huancar's llama fibre spinning was selected as the pilot project and the model for future local economic development projects in other communities.

When developing a sustainable business model, market constraints were analysed in relation to the artisanal products that the Huancar community's llama fibre spinning project could produce.

Due to the high variability in the quality of the yarn that each artisan produced, a textile design style training process was not viable. A new yarn production scheme was developed to standardise and optimise the yarn manufacturing process, enabling the Huancar community to establish solid foundations for long-term growth.

While the ultimate objective is the production of quality garments, focusing on yarn production in the initial stages will enable production of a transitional product that garners high market demand. It would also ensure uniformity of raw material for future production and enable greater productive synergy with artisans achieving higher production volumes working as a group.

The project thus set out to provide essential support equipment to produce yarn without losing the 'artisanal' character. Given that the production equipment will reduce water consumption in the washing process by at least 60%, the sustainability benefits of the project have extended well beyond the financial investment.

Once the group of artisans agreed to establish a yarn production facility, three goals were established:

- Acquisition of physical space for the installation of equipment
- Acquisition of all necessary equipment
- Technical training for artisans in production management.

The goal that created the greatest difficulty and delay was the acquisition of a physical space for equipment. With that space now finalised, it is anticipated that the equipment will be operational by November 2018, by which stage the artisans will have completed their production training and be targeting initial product sales in December.



Raising Recycled Walls - Case Study 4

The Raising Recycled Walls Project supports the construction of greenhouses in the local communities of Pastos Chicos and Huancar using plastic bottles recycled from the Olaroz Lithium Facility.

The project was developed to address malnutrition, which was identified as a particular health issue in these communities.

The project is designed to provide future agricultural production facilities for local communities. It also provides an effective way to recycle plastic bottles used on site and in the community, with the bottles serving as the fundamental construction material for the greenhouses.

The project is rolled out over the following stages:



bottles from Olaroz



with earth

construction site

greenhouse



Any additional construction materials are sourced and transferred to the construction sites through collaboration with suppliers and the Municipal Commission of Susques.

Pastos Chicos

The greenhouse at Pastos Chicos is complete and the following crops have been planted: lettuce, swiss chard, zucchini, pomegranate, aloe vera, strawberry and pine in a pot.

The owner of the Pastos Chicos greenhouse has great expectations that it will enable him to sow crops and consume fresh fruit and vegetables all year round. He is very grateful to have been involved in the Raising Recycled Walls Project.

He is the President of the local producers' groups and has shared his experience with other producers, helping to generate great interest in delivery of similar projects.



Huancar

Another greenhouse located in Huancar is nearing completion. The roof structure is in place awaiting installation of translucent sheets of plastic. To strengthen the overall structure during construction, sections of the walls were plastered with mud and a structural support post was placed in the centre of the greenhouse floor.



Environment



Future Commitments



Integrate energy and emissions performance into corporate and operational KPIs



Assurance of environmental data



Establish solid baseline for environmental performance based on assured data



Set short-and long-term targets for energy and emissions intensity reduction



Environmental Impacts

Impact of Environment on our Operations



Impact of our Operations on the Environment





Impact of Climate

Climatic variables & their impact on production volumes

Our production process utilises natural solar energy to evaporate brine extracted from the salar and concentrate the lithium content before it enters the processing plant. Because natural evaporation forms a critical part of our production process, our productivity is dependent on contributing climatic variables.

In the March quarter of 2018, we were forced to revise our annual production guidance due to unfavourable climatic conditions in the region. The February mean evaporation rate was the lowest recorded since 2011 and less than half of February 2017. This resulted in lower than expected brine concentrations at the beginning of March.

Brine concentrations were dually affected by both the reduction in solar radiation due to cloudy conditions and the above normal rainfall. While concentrations improved during March, they did not recover to the level expected, affecting production performance in the final half of the financial year.

While we acknowledge the impact of adverse climatic conditions on our operations, data indicates that these conditions are not representative of a regular climatic pattern or trend in the region. We are exploring ways to improve pond management and reduce losses in the event of unfavourable climatic conditions. This includes the potential adoption and implementation of new technology (including a large crystalliser) to stimulate the evaporation process in periods of low solar radiation. Maintaining higher pond inventory levels and increasing overall pond evaporation area are also being investigated as potential mitigation methods.

Impacts on our evaporation process place greater demands on our production process, requiring greater energy and material inputs to compensate for reduced brine concentration levels.

In this regard, climatic variables impact not only our productivity and operational efficiency, but also our environmental performance.

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Our production process utilises natural solar energy to evaporate brine extracted from the salar and concentrate the lithium content before it enters the processing plant.

Impact on Environment

Improving our energy productivity & carbon emissions profile

Energy

We have a relatively clean energy profile. While we are yet to develop any renewable energy sources, our operations are based predominantly on natural gas with diesel (and in rare cases petrol) being used for some stationary and transport equipment.

We use natural gas for two primary purposes: generation of electricity for our operations and the generation of heat in our production process.

In 2018 our total energy consumption increased 8%. But given increased production volumes our total energy intensity only increased by 3%. Electricity consumption increased 18% which reflects increased production, the adoption of additional chillers in our purification circuit and the shift from gravity transfer to electric pumps in our pond system.

There was no change in heat energy consumption in the plant in 2018, though we did see a 5% improvement in heat intensity due to increased production volumes.

With the commencement of Stage 2 Expansion activities in 2018, there was an increase in the number of people and activities on site which equally increased the demands for electricity across our operations. We are currently exploring initiatives that will reduce the demand for heating in our processes including the use of more efficient heat exchangers and the recapture and reuse of vapor to capitalise on existing heat in the system.

As part of our expansion activities we are also exploring renewable energy alternatives to power our remote well-sites and to provide electricity to the operations. We are also investigating new technology leveraging solar thermal generation to reduce the consumption of natural gas in the generation of heat for production processes.





Energy Consumption (MWh)

Emissions

In 2018 we commissioned an external consultancy to prepare a thorough emissions inventory for our SDJ operation. Data was collected from both the Olaroz Production Facility and our office in Jujuy, with a view to reporting completely on our Scope 1 and Scope 2 emissions and, where possible, our key Scope 3 emissions.

The inventory provided us not only with a robust baseline, but also a documented methodology and procedures based on the GHG Protocol. This will ensure that the data we are collating and reporting is an accurate and consistent representation of our performance year on year.

This was the critical initial step towards enabling assurance of our data in future years. In the coming year we will be implementing a cloud-based data management system that will capture and control critical data points across the organisation and automatically calculate our emissions performance using pre-defined methodologies and emissions factors.

With both the methodology and data management system established, we will be well placed to assure our data on an annual basis, and thus provide greater confidence to our investors and the global community regarding our commitment and contribution to reducing global GHG emissions.

We submitted our first report to the Carbon Disclosure Project in 2018, disclosing our 2017 emissions performance and broader climate risk information.

We will continue to disclose to CDP over coming years and, as with the DJSI, see CDP as an opportunity to objectively evaluate and benchmark our carbon and broader climate risk management performance over time.





Understanding & managing our consumption

Water

In 2017 we identified that while we had visibility of our overall water consumption, we did not have a clear way of identifying in which parts of our operations that water was being consumed and in what quantity.

In 2018 we installed a series of meters to provide a clear break-down of consumption across our operations. This affirmed the high consuming areas of the plant and identified areas where consumption was higher than anticipated, allowing us to initiate targeted reduction campaigns. It also highlighted some inefficiencies in the piping infrastructure that we will be working to address in the coming year.

Water extraction

Water extraction remains the best indicator of our total water consumption. We do not extract water from any surface or fresh water sources. The water we extract is industrial groundwater which must be treated onsite prior to use in our operations. The low quality of this water means that it is not used for any other means by any other groups or industries.

Source	2016	2017	2018	% Change
Industrial Water Extraction (m ³)	371,096	485,300	607,608	25%



Industrial Water Consumption

Water intensity

We had a target to reduce water intensity by 15% in 2018. This target was set in 2017 based on our forecast production figures for 2018.

Given climatic conditions negatively impacted our production levels in Q3, we were required to use more water to generate product from less concentrated brine. Our final production output was also less given the additional processing time required. As a result, rather than decreasing by 15% our water intensity increased by 18%.

It should be noted that in Q2 we also brought online an additional boiler within the plant which resulted in greater water intensity per tonne of lithium produced across both our prime and purified products. We have identified opportunities to increase efficiencies in production through the capture and reuse of water and vapor in our processes.

That said, preparing and installing the necessary infrastructure to capitalise on that opportunity is not a quick and easy process. Having developed the project plan and acquired the budget, the procurement and installation of equipment may take anywhere from 6-12 months.

These lessons learned in current production are being integrated into the design and development of the new lithium carbonate plant to be constructed as part of the Stage 2 Expansion.

	2016	2017		2018		% Change	
Intensity (m³/t)	Prime*	Purified	Prime	Purified	Prime	Purified	Prime
Water Intensity by Product	53.76	58.9	36.8	66.5	44.2	13%	20%
Water Intensity - Total Production	53.76	41.6		49.1		18%	



Water Intensity by Product

*We did not produce a purified lithium carbonate product in 2016.



Water Intensity - Total Production

Waste water

For water consumed in non-production-related activities, we have waste water treatment facilities on site. Once treated and quality tested, the water is reused for certain operational tasks including dust suppression and watering of roads.

Treated water that is not recycled on site is sent to the provincial water treatment facility for further treatment and recycled at a provincial level. Unlike traditional mining operations, and even some of the existing brine-based operations, we do not have any waste water discharges from production.

Any water used in production is either vaporised or discharged back to the pond system for evaporation and concentration, so we do not have tailings dams (see Debunking Myth #4 on page 68).

Waste

Waste at the Olaroz Lithium Facility is classified and treated according to its type and associated handling risks. Each area is responsible for classifying their waste, managing waste disposal in containers that are sufficiently and appropriately labelled and organising timely and efficient waste collection from their respective areas.

SDJ is a registered generator of hazardous waste and all hazardous waste is managed and transported in accordance with the standards set by National Law 24.051. Organic and non-recyclable waste is sent to Jujuy's Provincial Waste Facility in Palpalá and recyclable waste is either stored on site and reused or sent to specific recycling facilities.

Given the high proportion of organic and recyclable waste, we are continuing to explore disposal opportunities that minimise the amount of waste being sent to landfill.



By Type Waste (t)

By Disposal Method



Hazardous Waste (t)



Biodiversity

As part of our broader commitment to the environment and natural resource management, Orocobre is committed to maintaining, enhancing and conserving local biodiversity and ecosystems.

While the Olaroz Lithium Facility is not located within a national or international protected area, the 18,000 ha site is located within the Olaroz-Cauchari Reserve.

The Reserve was created in 1981 by the Jujuy provincial government to protect the vicuña, which had become a threatened species. Art. II of the Provincial Law 3820 established the reserve as a multi-use area in which agricultural, mining and scientific-technical research programs could be carried out. Any activity related to hunting or the introduction of exotic fauna and flora is prohibited. Given the minimal biodiversity impact identified for our operations in the short, medium and longterm, it is not a high-priority issue for our operations, but it does remain a constant focus. We are committed to preserving local biodiversity and to ensuring controls are in place to monitor and maintain potential impacts.

The project's main biodiversity impact relates to the risk of vehicular movement on fauna. We have various precautionary measures in place to manage this including restrictions on vehicular circulation, employee training on wildlife preservation and warning signs and maximum speeds in sectors with animal presence.

Our pond system was designed to conform with the local topography to minimise land-use impact and facilitate future remediation. Other practices we adopt to ensure minimal land-use impact include restrictions on surface-level intervention, strict requirements for new road construction and preventive maintenance of roads to avert erosive processes.

A biodiversity baseline was conducted in 2010 as part of the project's detailed Environmental Impact Assessment. In the four subsequent EIA updates (conducted biennially) there has been no identified impact on biodiversity or ecological processes. We regularly evaluate our impacts with monitoring undertaken quarterly over a defined series of data points and locations.





Myth-Busters

Debunking Myth #1: Soda Ash & Emissions

We have found that in many investor and analyst reports, our emissions risk is considered quite high. Given the low emissions profile of both our operations and our product we have never really understood why.

Undertaking the emissions inventory, we learned that the use of soda ash (otherwise known as sodium carbonate - Na_2CO_3) in production generally constitutes a large source of Scope 1 emissions. For this reason, consumption per ton of soda ash is assigned a specific value of CO_2 and emissions are calculated on that basis. If calculated on this basis, our CO_2 emissions from soda ash would have been equivalent to the emissions associated with the generation of electricity on site.

Fortunately for the environment, the use of soda ash in the production of lithium carbonate does not produce CO_2 emissions.

Soda ash is added in the form of a solution and mixed with lithium in the brine, precipitating Li_2CO_3 (as solids) and leaving sodium ions as solution. As the addition of soda ash is chemically proportional to the concentration of lithium present in the brine, there are no CO_2 emissions. And if there is an excess of soda ash, the sodium and carbonate ions remain in solution, so there are no CO_2 emissions in that case either.

What we do consider in our emissions inventory, however, are the Scope 3 emissions relating to the production of soda ash that we consume in our operations. And the soda ash that we use in our operations is the natural form of soda ash that has a lower emissions profile than some other forms of soda ash used by companies in production.





Debunking Myth #2: Water Stress in the Puna

We have found that in many investor and analyst reports, we are considered high risk with regards to water stress.

This seems unusual to us given the relatively low water intensity of our operations, the fact that we do not draw from any surface water sources and that the groundwater we consume is from the Archibarca Basin in the province of Jujuy (a well-managed basin with adequate water resources and draw-downs monitored and managed by the provincial government). We acknowledge the realities of a changing global climate, so decided to explore future scenarios to identify and evaluate the exact nature of the perceived water stress risk.

We identified the exact location of our water sources and referred to <u>World Resource Institute's AQUEDUCT</u> <u>Water Risk Atlas</u>, which enables visualisation of current and future water stress risks to identify which of our sources were currently impacted or could be impacted in future.



Figure 1: WRI AQUEDUCT Water Stress Risk Map (General) for Olaroz: Low Risk (0-1)

The project zone demarcated indicates SDJs current EIS extraction areas.



Figure 2: WRI AQUEDUCT Water Stress Risk Map (Mining) for Olaroz: Low Risk (0-1)

Figure 3: WRI AQUEDUCT Water Stress Risk Map, 2040 forecast: No change



The project zone demarcated indicates SDJs current EIS extraction areas.

Debunking Myth #3: Archibarca Basin & Coranzuli

There was some commentary in the past 12 months regarding Orocobre's use of a basin near Coranzuli as a source of water for our operations.

To ensure transparency and clarity regarding our water sources, we would like to present a graphic representation of our wells and groundwater sources relative to the communities that are local to our operations.



Debunking Myth #4: Mineral Waste & Tailings

Unlike traditional mining operations and the operations of some of our brine-based peers, we do not require tailings facilities. Liquid waste from our production process is immediately fed back to the pond system, therefore we do not require a tailings management system.

In terms of mineral waste, we manage salt (mainly halite and sylvite) buildup in our evaporation ponds. This is done through a process of salt harvesting, which is conducted every three years.

Salt harvesting involves sequential draining of certain ponds and the removal of the majority of contained salts. These salts are then transferred to a harvested salt stockpile, where leaching and drainage enables the recovery of highly concentrated lithium brine.

So not only do our waste minerals (salts) mirror those naturally occurring in the local environment, they also provide an additional, high-quality source of lithium for use in production.





People & Capability

Future Commitments



Increase participation in employee engagement survey



Increase % of workforce with technical qualifications



Incorporate KPIs and objectives into annual performance review



SHITE DE

Establish targeted development and succession plans



Complete cultural review program

Workforce Breakdown					😑 Senior Managers 🌘 Middle Managers 🌘 Operator				Operators	
	Total	Male	Female	Local	Provincial	National	International	<30	30 - 50	>50
	9	7	2			7	2		2	7
16	64	50	14	4	26	32	2	13	48	3
20	178	160	18	91	57	30		95	78	5
	251	86%	14%	38%	33%	27%	2%	43%	51%	6%
	8	6	2			6	2		3	5
17	67	53	14	21	23	22	2	7	54	7
20	207	180	27	121	53	32		112	83	11
	282	85%	15%	50%	27%	21%	2%	42%	50%	8%
	11	9	2			8	3		8	3
18	92	78	14	5	40	44	3	8	77	7
50	206	176	30	133	48	25		88	108	10
	309	85%	15%	45%	28%	25%	2%	31%	62%	7%





Changing Workforce

Transitioning from general to specialist workforce

As our project matures and evolves, so too does the demand for specialist staff to undertake more highly skilled, strategic functions within our operations.

We have attracted skilled labour regionally, nationally and internationally, with the relocation of key managerial staff from Australia to Argentina to assume strategic operational roles.

We have also placed increasing focus on the identification and development of high-potential employees, providing tailored development programs that support their progression into specialist and leadership roles.

In addition to meeting the capability demands of our rapidly maturing lithium operation, in 2018 we were required to recruit a highly skilled project team to manage the Stage 2 Expansion.

The project team has drawn talent nationally and internationally to fill lead roles in project management, engineering, hydrogeology, finance and contracts management.

Leveraging synergies across our operational and development activities has been achieved through the provision of detailed shared services and matrix reporting structures. This has enabled expertise and capability to be effectively leveraged and supported across both sides of the business.

Having recruited and developed such high calibre people to these specialist and leadership roles, our focus remains on employee satisfaction and retention.

We have increased our target turnover rate to under 15% in the short to medium term, acknowledging that a higher turnover rate is inevitable as we resource the company more effectively for future growth.

In the future we will seek to drop this rate to 10-12% once we have achieved greater stability and maturity in our operations.

Maintaining commitment to local employment

Developing and retaining our workforce for the long term has always been a key focus for the Company and it will become increasingly more significant in future years as other large-scale operators move into the region.

Given the need for an increased percentage of highly skilled labour across the Company's operations, we acknowledge that maintaining our commitment to local employment will require a greater focus on local education and skills development.

As part of our community agreement with Olaroz Chico, we committed funds for the construction of a Technical College (Chemistry) to serve as a tertiary training facility for local communities that specialises in chemical processing.

The construction was funded by SDJ, the building was constructed by local communities, with a curriculum and training program that was developed by the provincial government to promote capability development in the province in alignment with local career opportunities.

The newly constructed facility will provide space for five classrooms, administrative area, multimedia room, library, laboratory, health services, disabled toilets, full kitchen, dining room, covered patio and recreational area for cultural and sports activities.

The Secondary School and Technical College (Chemistry) in Olaroz Chico will both operate in the same facility. There are also plans to construct a neighbouring student residence for students who have travelled from other communities in the region to attend the college.
Employee Satisfaction

Leadership changes & impact on employee morale

In 2018, two core leadership changes were announced which had the potential to generate uncertainty and insecurity within the SDJ workforce.

The first leadership change was the replacement of SDJ's General Manager (GM) with two new, discrete General Manager roles focused on Operations and Shared Services (March 2018).

As the new GMs already held responsibility in part for these respective areas, the transition was smooth. The Company's COO assumed a more prominent role in SDJ throughout the transition period to support the new GMs and ensure seamless business continuity.

The second leadership change was the announcement by Orocobre CEO that he would be stepping down (see ASX Release dated 17 April 2018). This came very soon after the changes at SDJ and so managing employee perceptions and morale through this period was fundamental.

A continuing focus on our values and engagement with employees and workers unions throughout this period enabled the Company to maintain a strong morale in the workplace.

We had no lost days due to union activity during the reporting period and while employee results from our engagement survey remained high at 99%, we acknowledge that the percentage of employee participation is dropping each year with only 53% participating in 2018. In 2019 we will work to determine whether this reduction in employee participation is due to logistical considerations such as access and availability of the survey, or if it is itself an indication of a decreasing level of engagement within the workforce.

Implementing systems for employee management

To enable SDJ's People Development team to focus more intently on ensuring the satisfaction, development and productivity of the workforce, the Company deployed a dedicated IT system in 2018 which automated some aspects of employee administration.

The new system enables SDJ to more easily manage and support employees by liberating resources within the People Development team to focus on staff development and delivery rather than basic employee administration.

The facilitated entry, monitoring and evaluation of employee-related metrics provides a valuable platform through which the Company can develop and implement more robust managerial approaches to employee engagement, career development, succession planning and objectives-based performance evaluation and remuneration.



Engagement Survey Results



Retention Rates

New Hires

	Total	Male	Female	Local	Provincial	National	International	<30	30 - 50	>50
2016	55	50	5	9	22	22	2	23	27	5
	22%	91%	9%	16%	40%	40%	4%	42%	49%	9%
17	42	40	2	27	6	8	1	24	16	2
20	15%	95%	5%	64%	14%	19%	2%	57%	38%	5%
018	63	47	16	18	23	21	1	17	44	2
50	20%	75%	25%	29 %	37%	33%	2%	27%	70%	3%

Turnover







Remuneration Ratios

We have a unionised workforce and as such, salaries are standardised based on function, regardless of sex, age or any other characteristic.



Gender Salary Ratio



	2016	2017	2018
Senior Managers	1.01	1.00	0.91
Middle Managers	0.90	0.96	0.97
Operators	1.11	0.92	0.92
Total	1.01	0.96	0.93

Executive Employee Ratio

	2016	2017	2018
Ratio of the annual total compensation for the organisation's highest-paid individual in the country to the median annual total compensation for all employees in the country	5.16	5.04	4.78
Ratio of percentage increase in annual total compensation for the organisation's highest-paid individual to the median percentage increase in annual total compensation for all employees	1.24	1.19	0.68

Parental Leave







Culture Management

Reinforcing our values & culture

Guiding Principles



Responsibility

We assume responsibility for our actions and commitments



Respect

We recognise and promote all without distinction of age, sex or position, maintaining attitudes and actions that help our community and improve our environment



Honesty

Commitment

We behave and engage with sincerity and consistency



We convert our different opinions into shared convictions to achieve a common vision



Integrity

We act with integrity in every situation



Solidarity

We strive for the common good, acknowledging that we are all responsible for our collective wellbeing

Code of Conduct

Orocobre's code of conduct defines the standard with which our board, management and employees are to comply when dealing with each other, with shareholders and with the broader community. It affirms our commitment to human rights, to the ideal of equal employment opportunity and to providing a safe workplace that is free of harassment and discrimination.

In accordance with the Code, Orocobre's Board and Management comply with all legal obligations and act ethically and responsibly in all their dealings. We take a strong stance against corruption in all its forms including extortion and bribery and have had a zero-tolerance approach to corruption since the initiation of our activities in Argentina. We acknowledge that bribery and corruption can occur at all levels of the organisation and across all departments and dealings, both internal and external, and are working to systematically embed our zero-tolerance policy. We respect and value the competitive advantage of diversity and the benefit it brings to our organisation, recognising that diversity enriches our perspective, improves corporate performance, increases shareholder value and maximises the probability of us achieving our goals. Our operations in Argentina boast a diverse workforce in terms of culture and gender, and we look forward to further strengthening this diversity in future.

We act with honesty, integrity and fairness in all dealings with the community. We respect the cultural heritage of our local and indigenous communities, and act responsibly towards the environment, acknowledging the strong connection between land and peoples. Any non-compliance with the code of conduct is reported directly to the Chief Operating Officer/Managing Director or Chairperson, as appropriate, and may result in disciplinary action. There is a whistleblower program in place across all our operations, enabling anonymous reporting of breaches at all levels of the organisation.

Culture Management

Code of Conduct & Culture Review

In FY18 an employment contract was terminated due to a breach of our code of conduct. This prompted a review of the implementation of our code of conduct to understand how well it is understood and upheld by members of our workforce.

It also prompted a review of Orocobre's Whistleblower Policy and its effectiveness as a trusted channel for reporting concerns. Following the review, a new Orocobre Whistleblower Policy (available on the Company website <u>www.orocobre.com</u>) was drafted which provided distinct communication channels for both Australia and Argentina to confidently, effectively and anonymously report issues as they arise.

The Code of Conduct review prompted a more in-depth review of organisational culture and the norms and behaviours that have become part of the way people work at SDJ.

A program was initiated, with Stage 1 diagnostics launching in early FY19, to provide a holistic view of established and aspirational cultural norms across the organisation. More information on the outcomes of this program will be reported in next year's sustainability report.

Anti-Corruption: Reinforcing Zero-Tolerance

Orocobre upholds a zero-tolerance approach to bribery and corruption and this has been a core pillar of the culture and values espoused by the Orocobre Board and Executive over the past decade.

Becoming participants of the UN Global Compact in 2018 encouraged us to focus more intently on the practical realities of this zero-tolerance approach and on the effectiveness of our internal policies and processes to ensure that it was ingrained, respected and enforced at all levels of the organisation.

A standalone Anti-Bribery and Corruption Policy (available on the Company website <u>www.orocobre.</u> <u>com</u>) was prepared and approved by the Board which outlines the responsibilities of Orocobre's Directors, employees, contractors and agents in observing and upholding Orocobre's zero-tolerance position on bribery and other forms of corrupt behaviour.

The policy defines the Company's approach to bribes, political and charitable contributions/sponsorships, gifts and hospitality and dealings with third parties. It also outlines the consequences of policy breach for employees and agents, including termination of employment or contract.

Training on the policy has been integrated as part of the induction process for all employees, with existing employees receiving regular training on the implementation of and compliance with the policy.

Over the coming 12 months we will seek to establish systems and processes to evaluate and monitor high risk areas within the organisation.

We will draw on the tools provided by the UN Global Compact to implement more robust approaches at both a corporate and operational level.

Health & Safety Performance

Consolidating Health & Safety

Orocobre fosters a 'zero harm' approach when it comes to the safety of our employees and project contractors. We are committed to reducing workplace risks and incidents, and consistently review our management and reporting systems to enhance the safety of our operations.

In 2018 we consolidated our health and safety teams to enable a more cohesive and integrated management approach. The restructure saw a Health, Safety and Environment Manager appointed to the Leadership Team, reporting directly to the General Manager of Operations, with responsibility for the ongoing management of SDJ's health, safety and environmental performance.

Health services have always been provided as part of our employee benefits, and as such were being managed by our People Development Department. Safety, on the other hand, was managed by our Risk Management Department. Given the success witnessed in 2017 through greater collaboration between these two areas, it was acknowledged that an integrated health and safety approach would enable greater visibility of emerging trends and, in turn, more targeted and effective training and prevention initiatives.

Thus far, the results have been positive with improvements in both preventive and responsive areas of performance. This is evidenced by the reduction of our TRIFR from 3.9 to 3.3 in the reporting period.

We have also implemented safety campaigns which extend to the families of our employees and contractors and expand key health and safety messaging beyond the context of our operations.

Health & Safety Highlights

- Reduction of the TRIFR from 3.9 to 3.3
- Recertification audit of our Integrated Management System (in accordance with new versions of the ISO standards of Environment and Quality).

CONTRACTORS	2017	2018
LTIFR*	3.5	1.7
TRIFR	3.5	3.5
EMPLOYEES	2017	2018
LTIFR	3.9	3.0
TRIFR	3.9	3.3

*LTIFR: Lost Time Injury Frequency Rate.

Health & Safety Performance

Assessing Improvement Opportunities

An in-depth Safety Audit was conducted by DuPont in January 2018 which evaluated SDJ's safety performance using the DuPont[™] Bradley Curve[™] (see page 83). This has provided a critical baseline and tool to objectively benchmark our journey to world-class safety performance.

Over the coming years, we will be undertaking a comprehensive safety culture change program, to support our progression towards benchmark best safety performance.

An improvement roadmap was developed to address the key risks and priorities identified during the audit, and this has formed the foundation for detailed improvement planning.

The following five areas have been selected for targeted improvement initiatives:

- Visible Leadership
- Behavioural Observations
- Risk Identification, Evaluation and Control
- Incident Management
- Training and Capacity Building.

To optimise resource allocation and guarantee effective implementation of improvement initiatives, a Safety Management Committee (SMC) was formed to develop and implement a 2-year change program, prioritising initiatives that would have the greatest impact and coverage.

In the first year, the priority is reinforcing management commitment through visible leadership and transforming safety behaviours across the site-based workforce, with the SMC ensuring actions and KPIs are clearly defined and respected.

In the second year, the focus will be on enhancing procedures relating to the identification, evaluation and control of risks, improving communication of lessons learned as part of the incident management process, and the inclusion of targeted safety content in site induction and leadership training.

A 6-month plan was also developed for the Expansion to ensure effective safety controls and systems, particularly focusing on contractor management.

Future Commitments



Incorporate fire protection system in plant



Prepare and train emergency response brigade



Conduct safety culture change program using the DuPont Safety System



Undertake contractor safety training and awareness



Implement integrated data management and reporting system

DuPont Safety System

"In a mature safety culture (interdependent stage), safety is truly sustainable, with injury rates approaching zero. People feel empowered to act as needed to work safely. They support and challenge each other. Decisions are made at the appropriate level and people live by those decisions. The organisation realises the significant business benefits through higher quality, greater productivity and increased profits" DuPont Sustainable Solutions.



DuPont[™] Bradley Curve[™]



SDJ Safety Culture Change Program



and incident reporting system

Risk & Opportunity Management



We continue to identify and monitor the social, environmental and economic risks and opportunities associated with our activities and implement action and initiatives accordingly.

We acknowledge that many of these risks and opportunities are dependent on, or affected by, third part activity - be it government, suppliers, or other operators in the region.

As such, a central component to our risk and opportunity management approach lies in regular and proactive engagement with third parties.

Environment



Low carbon operations

Reduce energy consumption per unit of production.

Manage/mitigate associated emissions.



Energy, water & biodiversity

Develop and leverage strong local partnerships to enhance community access to clean and affordable energy, clean water, and biodiversity.



Low carbon future

Produce battery grade lithium for clean transport options and energy storage.

Environmental impact on production

Increase operational buffers.

Prioritise process innovation to mitigate impact of climate on production.

Environmental integrity of the Basin

Prioritise, adopt, and promote a proactive approach to Basin Management.

Environmental impact on communities

Constant monitoring of environmental impacts.

Perceptions of our impact on environment

Enhanced communications; Community participation in environmental monitoring.

Government licenses & permits

Ensure compliance with environmental regulations; demonstrate best practice.

Environmental impact on distribution

Identify, evaluate and mitigate climate risk along our value chain.

A Climate Risk Assessment will be conducted in 2020.

Risk

Social





Community development

Work with government to support and complement development initiatives.

Implement strategic community investment strategy to ensure enduring Shared Value.



Enhance supplier performance

Deliver training and compliance programs for our suppliers.

and work-life balance arrangements.

Diversity

Promote diversity in employee/supplier

training and selection. Responsive benefits,

Capacity Building

Identify capability gaps, provide training and development programs.

Health & Safety

Health and safety management system (ISO18001), reporting and training programs.

Industrial Action

Work closely with AOMA* and maintain focus on employee engagement and satisfaction.

Employee Retention

Monitor voluntary turnover rates.

Promote employee satisfaction.

Managing Community Expectations

Open and honest engagement with our communities; direct community agreements; community involvement in the project; and shared ownership of project outcomes.

Community Safety

Community training and awareness, increased signage, supplier standards and community whistleblowers.

Customer Satisfaction

Rigorous product quality testing.

Industrial Action

Contingency measures in place to ensure alternate import/export routes.

A Human Rights Risk Assessment will be conducted in 2019.

Opportunity

Economic



Increasingly competitive market as new projects come online.

We realise that some of these challenges are going to require a long-term approach, while others we can start to address immediately. We also acknowledge that this is only our second year of production and as such there is still much to learn, adapt and refine over the coming years.

While we may not have all the answers now, we are firmly committed to effectively minimising and mitigating these risks (and any others that may arise) whilst capitalising on opportunities to deliver transformative societal change, be it in the support of global energy transitions, or local socio-economic development.

Governance

La constantion of the second second



Board of Directors

At June 30 2018, Orocobre's Board comprised eight Directors: seven Non-Executive and our Managing Director and Chief Executive Officer. Each of the Board's Committees – Audit and Risk Committee, Remuneration Committee, and Related Party Committee – are made up of three Non-Executive Directors.¹

In addition to these Directors, Orocobre also has three Key Management Personnel (KMP) who have the authority and responsibility for planning, directing and controlling the activities of the organisation. These are our Chief Financial Officer and our General Counsel (joint Company Secretaries), as well as our Chief Operating Officer.



The Audit and Risk Committee

is responsible for monitoring public reporting, risk management processes, corporate conduct and compliance with laws and regulation. Identifying stakeholders and associated risks and reviewing the effectiveness of communication regarding risk to those stakeholders is also a core component of the Audit and Risk Committee's responsibilities.

The Remuneration Committee

works to develop remuneration policies which motivate Directors and Management to pursue long-term value creation. This ensures the focus of the Orocobre management team on those areas of sustainable development key to long-term value creation.

The Related Party Committee

is responsible for reviewing transactions between Orocobre, its related parties and any shareholder having a substantial shareholding. The Committee's role is to ensure transactions are in the best interests of Orocobre and its shareholders as a whole; fall within the ambit of a normal business relationship; and contain terms no more favourable than those negotiated on an arm's length basis. The Committee also advises whether shareholder approval of the transaction is necessary or appropriate.

Orocobre's Governance Framework, including the code of conduct, charters for the operation of the Board and its committees, and other matters relevant to the Governance Framework, are fully disclosed on the Company website <u>www.orocobre.com</u>.

¹ Detailed information regarding Board Composition, attendance and Committee Charters can be found in our 2018 Annual Report - Directors' Report.

Performance against our strategic objectives and our commitment to Sustainable Development is managed at all levels of the organisation via our Balanced Scorecard, which comprises four core categories:



Economic/Financial

Includes issues related to sales, investments, costs, income, expenses and returns to shareholders



Continuous Improvement

The virtuous circle of planningaction-review which applies to performance of people, process and equipment across all areas of our operations



Customer

Relates to the satisfaction of our current and future customers

Sustainability

Pursuing best practice in production, community engagement, resource utilisation, health and safety, quality and environment. These elements ensure first rate operations and are fundamental to the pursuit of excellence

The remuneration policies of Orocobre and its application to Key Management Personnel were fully disclosed in the 2018 Annual Report which can be found on the Company website <u>www.orocobre.com</u>.

Incentive plans are biased to the long term and share price appreciation rather than short-term cash rewards. The cash short-term incentive component of executive incentives was reduced in proportion to the increase in the long-term incentive component in 2018 (see page 54 of the Company's 2018 Annual Report).

The drivers of the STI now more substantively reflect individual goals of Executive KMPs integral to achieving the strategic corporate objectives of Orocobre and its annual business plan and budget. The Balanced Scorecard format remains with variable weightings for each KMP across the Group and Individual Performance components in accordance with their capacity to exert greatest influence.

OROCOBRE SUSTAINABILITY REPORT 2018 91

Memberships & Affiliations

In addition to its current involvement with industry bodies and associations, Orocobre seeks to align with recognised external initiatives that will support a robust and holistic approach to sustainability management and disclosure.

External Initiatives

ROBECOSAM () We are Sustainability Investing.













Memberships & Associations



Consejo Empresario Argentino para el Desarrollo Sostenible







Dow Jones Sustainability Indices In Collaboration with RobecoSAM (Orocobre operates in accordance with industry standards, and maintains certified management systems for Environment, Quality and Health & Safety.

Management Systems Certified







Other





UNGC & GRI Contents Indexes

UN Global Compact Principles

Human Rights	Section	Page
Principle 1	Human Rights Policy	website
Businesses should support and respect the protection of internationally	Communities Policy	website
proclaimed numan rights	Culture Management	79
	Risk & Opportunity Management	84
Principle 2	Value Chain	28
Businesses should make sure they are not complicit in human rights abuses	Risk & Opportunity Management	84
Labour		

Principle 3	People & Capability	75
Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining	Human Rights Policy	website
Principle 4	People & Capability	71-73
Businesses should uphold the elimination of all forms of forced and compulsory labour	Value Chain	24, 28
Principle 5	People & Capability	71-73
Businesses should uphold the effective abolition of child labour	Value Chain	24, 28
Principle 6	People & Capability	74
Businesses should uphold the elimination of discrimination in respect of employment and occupation	Culture Management	79

Environment		
Principle 7	Environmental Policy	website
Businesses should support a precautionary approach to environmental	Environment	54-63
challenges	Risk & Opportunity Management	85
Principle 8	Environmental Policy	website
Businesses should undertake initiatives to promote greater environmental responsibility	Environment	57-63
Principle 9	Sustainable Development Policy	website
Businesses should encourage the development and diffusion	Communities	38
of environmentally mendly technologies	Value Chain	28
	Environment	57

Anti-Corruption		
Principle 10	Anti-Bribery & Corruption Policy	website
Businesses should work against corruption in all its forms, including extortion and bribery	Culture Management	79-80

GRI Index

GRI Standard	Disclosure		Page number(s) / URL(s)	
General Disclo	osures		Section	Page
Organisationa				
	102-1	Name of the organisation	Orocobre Limited	4
	102-2	Activities, brands, products, and services	Orocobre Limited	4
	102-3	Location of headquarters	Orocobre Limited	4
	102-4	Location of operations	Orocobre Limited	5
	102-5	Ownership and legal form	Orocobre Limited	4
			Sales de Jujuy	7
	102-6	Markets served	Value Chain	25
	102-7	Scale of the organisation	Orocobre Limited	4
			Long Term Outlook	30
	102-8	Information on employees and other workers	People & Capability	71, 74-75
	102-9	Supply chain	Value Chain	27-29
	102-10	Significant changes to the organisation and its supply chain	Value Chain Long Term Outlook	27-29 32
	102-11	Precautionary Principle or approach	Environmental Policy	website
			Environment	54-68
			Risk & Opportunity Management	84
	102-12	External initiatives	Memberships & Affiliations	93
	102-13	Membership of associations	Memberships & Affiliations	93
Strategy				
	102-14	Statement from senior decision-maker	Letter from Managing Director	12
	102-15	Key impacts, risks, and opportunities	Risk & Opportunity Management Highlights & Commitments Our Focus	84 18-19 20-21
Ethics & Integ	rity			
	102-16	Values, principles, standards, and norms of behaviour	Culture	79-80
	102-17	Mechanisms for advice and concerns about ethics	Culture	79-80
Governance				
	102-18	Governance structure	Governance	89
Stakeholder E	ngagement			
	102-40	List of stakeholder groups	Stakeholder Engagement	35-37
	102-41	Collective bargaining agreements	People & Capability	75
	102-42	Identifying and selecting stakeholders	Stakeholder Engagement	35-37
	102-43	Approach to stakeholder engagement	Stakeholder Engagement	35-37
	102-44	Key topics and concerns raised	Our Focus	20-21
Reporting Pra	ctice			
	102-45	Entities included in the consolidated financial statements	2018 Annual Report	75, 113
	102-46	Defining report content and topic Boundaries	Report Overview	2
	102-47	List of material topics	Report Overview	2
	102-48	Restatements of information	Report Overview	2
	102-49	Changes in reporting	Report Overview	2
	102-50	Reporting period	Report Overview	2
	102-51	Date of most recent report	Report Overview	2
	102-52	Reporting cycle	Report Overview	2

GRI Standard	Disclosure		Page number(s) / URL(s)	
Reporting Pra				
	102-53	Contact point for questions regarding the report	Report Overview	2
	102-54	Claims of reporting in accordance with the GRI Standards	Report Overview	2
	102-55	GRI content index	GRI Content Index	96
	102-56	External assurance	Report Overview	2
Material Topic	:s			
200 - ECONO	міс			
201 - Econom	ic Performan	nce		
	103-1	Explanation and Boundaries	Communities	39, 41
	103-2	Management Approach	Communities	40, 42-43
	201-1	Direct economic value generated and distributed	Long-Term Outlook Communities	30 43
	201-2	Financial implications and other risks and opportunities due to climate change	Environment Risk & Opportunity Management	55-56 85
	201-4	Financial assistance received from government	Value Chain	27
202 - Market I	Presence			
	103-1	Explanation and Boundaries	People & Capability	72
	103-2	Management Approach	People & Capability	72-73
	202-1	Ratios of standard entry level wage by gender compared to local minimum wage	People & Capability	75
	202-2	Proportion of senior management hired from the local community	People & Capability	71, 74
203 - Indirect	Economic In	npacts		
	103-1	Explanation and Boundaries	Communities	39, 41
	103-2	Management Approach	Communities	42-43
	203-1	Infrastructure investments and services supported	Communities	43, 46-53
	203-2	Significant indirect economic impacts	Communities	46-53
204 - Procure	ment Practic	ces		
	103-1	Explanation and Boundaries	Value Chain	25, 28-29
	103-2	Management Approach	Value Chain	25, 28-29 41
	204-1	Proportion of spending on local suppliers	Value Chain	25, 29
300 - ENVIRC	ONMENTAL			
302 - Energy				
	103-1	Explanation and Boundaries	Energy	55
	103-2	Management Approach	Energy	57
	302-1	Energy consumption within the organisation	Energy	57
	302-3	Energy intensity	Energy	57
	302-4	Reduction of energy consumption	Energy	57
303 - Water				
	103-1	Explanation and Boundaries	Water	59-60
	103-2	Management Approach	Water	59-60
	303-1	Water withdrawal by source	Water	59
	303-2	Water sources significantly affected by withdrawal of water	Water	60
	303-3	Water recycled and reused	Water	61

GRI Index

GRI Standard	Disclosure		Page number(s) / URL(s)	
304 - Biodive	ersity			
	103-1	Explanation and Boundaries	Biodiversity	63
	103-2	Management Approach	Biodiversity	63
	304-1	Operational sites in/near areas of high biodiversity value	Biodiversity	63
305 - Emissio	ns			
	103-1	Explanation and Boundaries	Emissions	58
	103-2	Management Approach	Emissions	58
	305-1	Direct (Scope 1) GHG emissions	Emissions	58
	305-4	GHG emissions intensity	Emissions	58
	305-5	Reduction of GHG emissions	Emissions	58
306 - Effluent	ts & Waste			
	103-1	Explanation and Boundaries	Waste Water	61
	103-2	Management Approach	Waste Water	61
	306-1	Water discharge by quality and destination	Waste Water	61
	306-2	Waste by type and disposal method	Waste	61
	306-3	Significant Spills	None to report	-
	306-4	Transport of Hazardous Waste	Waste	62
	306-5	Water bodies affected by water discharges / runoff	Waste Water	61
307 - Environ	mental Comp	pliance		
	103-1	Explanation and Boundaries	2018 Annual Report	47
	103-2	Management Approach	2018 Annual Report	47
	307-1	Non-compliance with environmental laws and regulations	2018 Annual Report	47
308 - Supplie	r Environmer	ntal Assessment		
	103-1	Explanation and Boundaries	Value Chain	28-29
	103-2	Management Approach	Value Chain	28-29
	308-1	New suppliers that were screened using environmental criteria	Value Chain	28
	308-2	Negative environmental impacts in the supply chain and actions taken	Value Chain	28
400 - SOCIA	L			
401 - Employi	ment			
	103-1	Explanation and Boundaries	People & Capability	71-76
	103-2	Management Approach	People & Capability	71-76
	401-1	New employee hires and employee turnover	People & Capability	74
	401-3	Parental leave	People & Capability	76
403 - Occupa	ational Health	n & Safety		
	103-1	Explanation and Boundaries	Health & Safety	81-83
	103-2	Management Approach	Health & Safety	81-83
	403-1	Workers representation in formal joint management-worker health and safety committees	Health & Safety	81-82
	403-2	Types of injury and rates of injury, occupational diseases, lost days, and absenteeism, and number of work-related fatalities	Health & Safety	19, 81

GRI S	tandard	Disclosure		Page number(s) / URL(s)	
403 -	- Occupa	tional Health	& Safety		
		403-3	Workers with high incidence or high risk of diseases related to their occupation	Health & Safety	81-82
		403-4	Health and safety topics covered in formal agreements with trade unions	Health & Safety	81-82
404 -	- Training	& Education	1		
		103-1	Explanation and Boundaries	People & Capability	72
		103-2	Management Approach	People & Capability	72-73
		404-1	Average hours of training per year per employee	Not reported in 2018: revising data collection methodology for 2019	
		404-2	Programs for upgrading employee skills and transition assistance programs	Communities	48-50
		404-3	Percentage of employees receiving regular performance and career development reviews	People & Capability	74
405 -	- Diversit	y & Equal Op	portunity		
		103-1	Explanation and Boundaries	Culture Management	79
		103-2	Management Approach	People & Capability	72-73
		405-1	Diversity of governance bodies and employees	People & Capability	71
		405-2	Ratio of basic salary and remuneration of women to men	People & Capability	75
411 -	Rights of	Indigenous	Peoples		
		103-1	Explanation and Boundaries	Culture Management	79
		103-2	Management Approach	Culture Management	79
		411-1	Incidents of violations involving rights of indigenous peoples	None to report	
412 -	Human F	Rights Assess	sment		
		103-1	Explanation and Boundaries	Culture Management	79
		103-2	Management Approach	Culture Management	79
		412-1	Operations that have been subject to human rights reviews or impact assessments	Risk & Opportunity Management	86
		412-2	Employee training on human rights policies or procedures	Culture Management	79-80
413 -	Local Co	mmunities			
		103-1	Explanation and Boundaries	Communities	39-40
		103-2	Management Approach	Communities	39-44
		413-1	Operations with local community engagement, impact assessments and development programs	Communities	40-53
		413-2	Operations with significant actual and potential negative impacts on local communities	Risk & Opportunity Management	86
414 -	Supplier	Social Asses	sment		
		103-1	Explanation and Boundaries	Value Chain	28-29
		103-2	Management Approach	Value Chain	28-29
		414-1	New suppliers that were screened using social criteria	Value Chain	28
		414-2	Negative social impacts in the supply chain and actions taken	Value Chain	28

Glossary

A\$	Australian Dollars
Advantage Lithium	Advantage Lithium Corp.
ARS	Argentinian Pesos
Asociación Obrera Minera Argentina	Mining Union of Argentina
ASX	Australian Securities Exchange
ASX:ORE	Orocobre Limited share code for the Australian Securities Exchange
Audit and Risk Committee	Responsible for monitoring public reporting, risk management processes, corporate conduct and compliance with laws and regulation
Cauchari Lithium Project	Cauchari Lithium Project is a joint venture between Advantage Lithium Corp. (who hold 75% of Cauchari) and Orocobre Limited (who owns 33.5% of Advantage Lithium's issued capital and 25% directly in the joint venture)
CDP Response	The Carbon Disclosure Project (CDP) is an organisation based in the United Kingdom which supports companies and cities to disclose the environmental impact of major corporations. It aims to make environmental reporting and risk management a business norm and drive disclosure, insight and action towards a sustainable economy.
CDP UNGP Report	Carbon Disclosure Project - United Nations Guiding Principles Report
CEO	Chief Executive Officer
CFO	Chief Financial Officer
CO ₂	Carbon Dioxide
СОО	Chief Operating Officer
Cookins	Sales de Jujuy's Catering Supplier
Core	see: GRI Standard
Corporate Sustainability Framework	Orocobre Limited are taking a staged approach to sustainability management and reporting: establishing solid management fundamentals as a priority, and then developing meaningful metrics and controls. This ensures targeted, accurate and consistent monitoring of sustainability performance across the organisation.
CY17	Calendar Year 2017
CY18	Calendar Year 2018
CV19	
0115	Calendar Year 2019
CY20	Calendar Year 2019 Calendar Year 2020
CY20 DJSI Asia Pacific	Calendar Year 2019 Calendar Year 2020 see: Dow Jones Sustainability™ Australia Index
CY20 DJSI Asia Pacific DJSI Australia	Calendar Year 2019 Calendar Year 2020 see: Dow Jones Sustainability™ Australia Index see: Dow Jones Sustainability™ Australia Index
CY20 DJSI Asia Pacific DJSI Australia DJSI UNGP Report	Calendar Year 2019 Calendar Year 2020 see: Dow Jones Sustainability [™] Australia Index see: Dow Jones Sustainability [™] Australia Index Dow Jones Sustainability [™] Australia Index - United Nations Guiding Principles Report
CY2O DJSI Asia Pacific DJSI Australia DJSI UNGP Report Dow Jones Sustainability™ Australia Index	Calendar Year 2019 Calendar Year 2020 see: Dow Jones Sustainability [™] Australia Index see: Dow Jones Sustainability [™] Australia Index Dow Jones Sustainability [™] Australia Index - United Nations Guiding Principles Report The Dow Jones Sustainability [™] Australia Index is composed of sustainability leaders as identified by RobecoSAM through a corporate sustainability assessment. The index represents the top 30% of companies in the S&P/ASX 200 based on long-term economic, environmental, and social criteria.
CY20 DJSI Asia Pacific DJSI Australia DJSI UNGP Report Dow Jones Sustainability™ Australia Index DuPont Safety System	Calendar Year 2019 Calendar Year 2020 see: Dow Jones Sustainability [™] Australia Index see: Dow Jones Sustainability [™] Australia Index Dow Jones Sustainability [™] Australia Index - United Nations Guiding Principles Report The Dow Jones Sustainability [™] Australia Index is composed of sustainability leaders as identified by RobecoSAM through a corporate sustainability assessment. The index represents the top 30% of companies in the S&P/ASX 200 based on long-term economic, environmental, and social criteria. see: DuPont [™] Bradley Curve [™]
CY2O DJSI Asia Pacific DJSI Australia DJSI UNGP Report Dow Jones Sustainability™ Australia Index DuPont Safety System DuPont™ Bradley Curve™	Calendar Year 2019 Calendar Year 2020 see: Dow Jones Sustainability [™] Australia Index see: Dow Jones Sustainability [™] Australia Index Dow Jones Sustainability [™] Australia Index - United Nations Guiding Principles Report The Dow Jones Sustainability [™] Australia Index is composed of sustainability leaders as identified by RobecoSAM through a corporate sustainability assessment. The index represents the top 30% of companies in the S&P/ASX 200 based on long-term economic, environmental, and social criteria. see: DuPont [™] Bradley Curve [™] A proven, proprietary system designed to businesses comprehend and benchmark the journey toward world-class safety performance
CY20 DJSI Asia Pacific DJSI Australia DJSI UNGP Report Dow Jones Sustainability™ Australia Index DuPont Safety System DuPont™ Bradley Curve™ EBITDAIX	Calendar Year 2019 Calendar Year 2020 see: Dow Jones Sustainability [™] Australia Index see: Dow Jones Sustainability [™] Australia Index Dow Jones Sustainability [™] Australia Index - United Nations Guiding Principles Report The Dow Jones Sustainability [™] Australia Index is composed of sustainability leaders as identified by RobecoSAM through a corporate sustainability assessment. The index represents the top 30% of companies in the S&P/ASX 200 based on long-term economic, environmental, and social criteria. see: DuPont [™] Bradley Curve [™] A proven, proprietary system designed to businesses comprehend and benchmark the journey toward world-class safety performance Earnings before interest, taxes, depreciation, amortisation, impairment and foreign currency gains/(losses)
CY2O DJSI Asia Pacific DJSI Australia DJSI UNGP Report Dow Jones Sustainability™ Australia Index DuPont Safety System DuPont™ Bradley Curve™ EBITDAIX EBITIX	Calendar Year 2019 Calendar Year 2020 see: Dow Jones Sustainability [™] Australia Index see: Dow Jones Sustainability [™] Australia Index Dow Jones Sustainability [™] Australia Index - United Nations Guiding Principles Report The Dow Jones Sustainability [™] Australia Index is composed of sustainability leaders as identified by RobecoSAM through a corporate sustainability assessment. The index represents the top 30% of companies in the S&P/ASX 200 based on long-term economic, environmental, and social criteria. see: DuPont [™] Bradley Curve [™] A proven, proprietary system designed to businesses comprehend and benchmark the journey toward world-class safety performance Earnings before interest, taxes, depreciation, amortisation, impairment and foreign currency gains/(losses)
CY20 DJSI Asia Pacific DJSI Australia DJSI UNGP Report Dow Jones Sustainability™ Australia Index DuPont Safety System DuPont [™] Bradley Curve™ EBITDAIX EBITIX EBTIX	Calendar Year 2019 Calendar Year 2020 see: Dow Jones Sustainability [™] Australia Index see: Dow Jones Sustainability [™] Australia Index Dow Jones Sustainability [™] Australia Index - United Nations Guiding Principles Report The Dow Jones Sustainability [™] Australia Index - United Nations Guiding Principles Report The Dow Jones Sustainability [™] Australia Index is composed of sustainability leaders as identified by RobecoSAM through a corporate sustainability assessment. The index represents the top 30% of companies in the S&P/ASX 200 based on long-term economic, environmental, and social criteria. see: DuPont [™] Bradley Curve [™] A proven, proprietary system designed to businesses comprehend and benchmark the journey toward world-class safety performance Earnings before interest, taxes, depreciation, amortisation, impairment and foreign currency gains/(losses) Earnings before interest, taxes, impairment and foreign currency gains/(losses)

EITI	Extractive Industries' Transparency Initiative
English-speaking	Investors, Customers and other Stakeholders
stakeholders	
ERP	Enterprise Resource Planning
ESS	Energy Storage Systems
EV	Electric Vehicles
Five Pillars of Shared Value	Over the past decade, Orocobre Limited's community investment strategy has been centred on the five pillars of our Shared Value strategy: Education, Empowerment, Transparency, Production and Natural Resources, and Health
FOB	Free On Board
FY17	Financial Year 2017
FY18	Financial Year 2018
FY19	Financial Year 2019
FY20	Financial Year 2020
GDP	Gross Domestic Product
GHG Emissions	Greenhouse Gas Emissions
GM	General Manager
GRI	Global Reporting Initiative
GRI Standard	Global Benchmark for Sustainability Reporting
Gross Cash Margin	Orocobre's total sales revenue minus cost of goods sold
Groundwater	Industrial Water
H1	Half One (Financial Year First Half)
H2	Half Two (Financial Year Second Half)
Impurity Profile	Parts Per Million (PPM) Breakdown
INTI	National Institute of Industrial Technology
IRMA	Initiative for Responsible Mining Assurance - IRMA seeks to drive positive change in industrial-scale mining using credible certification: a tool that has been proven to deliver better social and environmental outcomes in industries such as agriculture, forestry and fishing
IRMA Certification	see: IRMA
ISO	The International Organisation for Standardisation
ISO14001:2015	Internationally recognised standard that specifies requirements for an effective environmental management system (2015 standard)
ISO18001	Occupational Health and Safety Assessment Series (officially BS OHSAS 18001) is a British Standard for occupational health and safety management systems
ISO26000	Internationally recognised standard developed to help organisations effectively assess and address social responsibilities that are relevant and significant to their mission and vision; operations and processes; customers, employees, communities, and other stakeholders; and environmental impact
ISO31000	Internationally recognised standard of Risk Management that includes guidelines, principles, framework and a process for managing risk
ISO9001:2015	Internationally recognised standard of Quality Management System (2015 standard)
JEMSE	Jujuy Energia y Mineria Sociedad del Estado (Mining Company of the Argentina provincial government of Jujuy)
JOGMEC	Japanese state-owned Japan Oil, Gas and Metals National Corporation

Glossary

JV	Joint Venture
KMP	Key Management Personnel
KPIs	Key Performance Indicators
LBG	London Benchmarking Group - The global standard in measuring and managing corporate community investment
LBG Report	see: LBG
LCE	Lithium Carbonate Equivalent
Li ₂ CO ₃	Lithium Carbonate
LTIFR	Lost Time Injury Frequency Rate
m ³	International Bureau of Weights and Measures definition of a Cubic Metre
m³/t	Cubic Metre per Tonne
MD	Managing Director
Mizuho	Mizuho Bank, Ltd. (Japanese bank)
MWh	Megawatt Hour
MWh/t	Megawatt Hour per Tonne
Na ₂ CO ₃	Sodium Carbonate
NGOs	Non-Governmental Organisations
OHSAS18001	see: ISO18001
Olaroz Lithium Facility	Orocobre Limited's Salar de Olaroz Lithium Facility
Olaroz Stage 2 Expansion	The Olaroz Stage 2 Expansion will add 25,000 tpa of lithium carbonate production capacity to the Olaroz Lithium Facility, taking total nameplate capacity to 42,500 tpa
Orocobre	Orocobre Limited
PPM	Parts Per Million
Q1	First Quarter (Jan - Mar)
Q2	Second Quarter (Apr - Jun)
Q3	Third Quarter (Jul - Sept)
Q4	Fourth Quarter (Oct - Dec)
QMS	Quality Management System
QOQ	Quarter-On-Quarter
Related Party Committee	Responsible for reviewing transactions between Orocobre, its related parties and any shareholder having a substantial shareholding
Remuneration Committee	Works to develop remuneration policies which motivate Directors and Management to pursue long-term value creation
RobecoSAM	The RobecoSAM Corporate Sustainability Assessment (CSA) is an annual evaluation of companies' sustainability practices
Sales de Jujuy S.A.	SDJ S.A. (Operating company for the Olaroz Lithium Facility)
SAP	Systems, Applications and Products Enterprise Resource Planning (ERP) Software
SDG	Sustainable Development Goals
SDG 1	Sustainable Development Goal 1: No Poverty
SDG 2	Sustainable Development Goal 2: Zero Hunger

SDG 3	Sustainable Development Goal 3: Good Health and Well-being
SDG 4	Sustainable Development Goal 4: Quality Education
SDG 5	Sustainable Development Goal 5: Gender Equality
SDG 6	Sustainable Development Goal 6: Clean Water and Sanitation
SDG 7	Sustainable Development Goal 7: Affordable and Clean Energy
SDG 8	Sustainable Development Goal 8: Decent Work and Economic Growth
SDG 9	Sustainable Development Goal 9: Industry, Innovation and Infrastructure
SDG 10	Sustainable Development Goal 10: Reduced Inequality
SDG 11	Sustainable Development Goal 11: Sustainable Cities and Communities
SDG 12	Sustainable Development Goal 12: Responsible Consumption and Production
SDG 13	Sustainable Development Goal 13: Climate Action
SDG 14	Sustainable Development Goal 14: Life Below Water
SDG 15	Sustainable Development Goal 15: Life on Land
SDG 16	Sustainable Development Goal 16: Peace and Justice Strong Institutions
SDG 17	Sustainable Development Goal 17: Partnerships to achieve the Goal
SDJ	Sales de Jujuy
SDJ PTE	Sales de Jujuy Pte Ltd
SMC	Safety Management Committee
SMEs	Small-Medium Enterprises
t	Tonnes
t LCE	Tonnes of Lithium Carbonate Equivalent
The Company	Orocobre Limited
tpa	Tonnes Per Annum
TRIFR	Total Recordable Injury Frequency Rate
TSX	Toronto Stock Exchange
TSX:ORL	Orocobre Limited share code for the Toronto Stock Exchange
TTC	Toyota Tsusho Corporation
UN	United Nations
UN Global Compact	The United Nations Global Compact is a non-binding United Nations pact to encourage businesses worldwide to adopt sustainable and socially responsible policies, and to report on their implementation
UN Sustainable Development Goals	United Nations Sustainable Development Goals
UNGC CoP	United Nations Global Compact Communication on Progress
UNGP	United Nations Guiding Principles
UNGP Report	United Nations Guiding Principles Report
US\$	see: USD
USD	United States Dollars
WRI	World Resource Institute
YOY	Year-On-Year

