

28 February 2023

Lithium Australia Sustainability Report

Lithium Australia Limited (ASX: LIT) (**'Lithium Australia'**, or **'the Company'**) is pleased to advise the publication of its inaugural Sustainability Report for the year ended 30 June 2022.

A copy of the Sustainability Report is attached and can be viewed on the Company's website.

ACN: 126 129 413
ASX: LIT

Level 1
677 Murray St
West Perth WA 6005

PO Box 1088
West Perth WA 6872

P: +61 (0) 8 6145 0288
F: +61 (0) 8 9475 0847

info@lithium-au.com
lithium-au.com

Authorised for release by the Board.

Simon Linge

Chief Executive Officer

Mobile +61 (0) 438 721 280

Simon.Linge@lithium-au.com

Stuart Tarrant

Chief Financial Officer

Mobile +61 (0) 467 817 005

Stuart.Tarrant@lithium-au.com

Forward-looking statements

This announcement contains forward-looking statements. Forward-looking statements are subject to a variety of risks and uncertainties that it is beyond the Company's ability to control or predict and which could cause actual events or results to differ materially from those anticipated in such forward-looking statements.

About Lithium Australia

Lithium Australia (ASX:LIT) is at the forefront of advanced materials development to ensure an ethical and sustainable future for the global battery industry. Lithium Australia is achieving this via its business divisions:

Envirostream (100%-owned LIT subsidiary): Envirostream, which is leading Australia's battery recycling industry, is at the cutting edge of delivering safe and innovative management solutions to one of the Australian waste industry's biggest (and getting bigger) challenges – battery disposal.

Its state-of-the-art Victorian-based battery processing facilities are providing a sustainable solution by collecting, sorting and processing critical battery metals from all types of spent batteries to power the batteries of tomorrow.

With battery recycling partnerships alongside some of Australia's leading brands (including Bunnings, Officeworks and Battery World), Envirostream benefits from the Australian government-backed battery recycling scheme which is providing rebates across collection, sorting, and processing of batteries. These combined provide the platform for national expansion.

VSPC (100%-owned LIT subsidiary): With over 20 years' experience, VSPC develops leading-edge materials for e-mobility and energy storage applications and, ultimately, a zero-carbon economy. Its patents cover the production of advanced powders for next generation lithium-ion batteries, especially lithium ferro phosphate ('LFP').

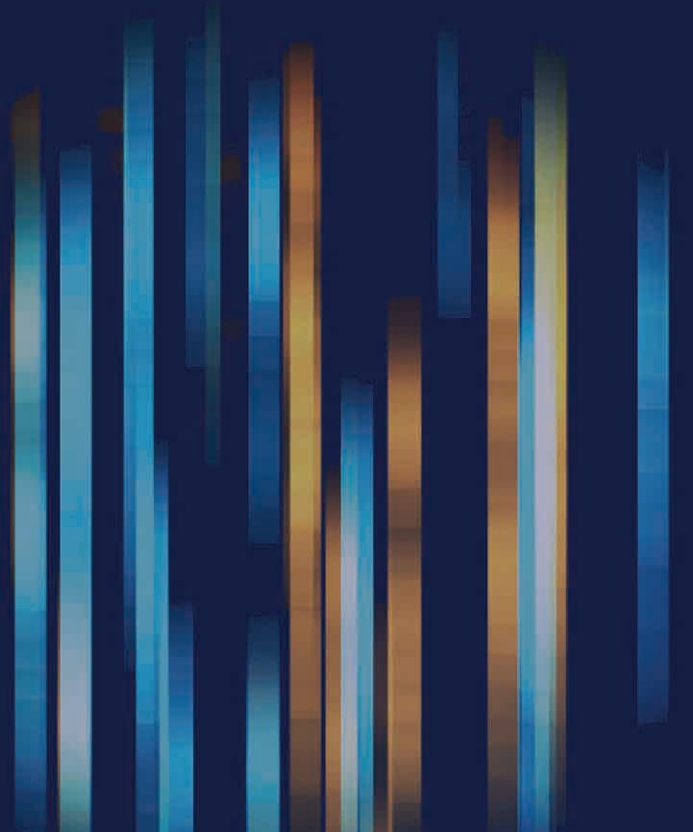
Currently, demand for LFP represents more than half the global market for lithium-ion battery materials. The Company is one of only a few entities outside of China with the technical expertise to manufacture LFP powder of the highest quality to meet those burgeoning market pressures.

VSPC is now on a clear path to production. With a Research & Development (R&D) facility (pilot plant) located in Queensland, a Definitive Feasibility Study ('DFS') for an initial 10,000tpa LFP manufacturing facility is well underway, and with customer offtake discussions advancing in parallel, VSPC is positioning for its first commercial footprint.

Lithium
Australia



Sustainability Report 2022





Acknowledgement of Country

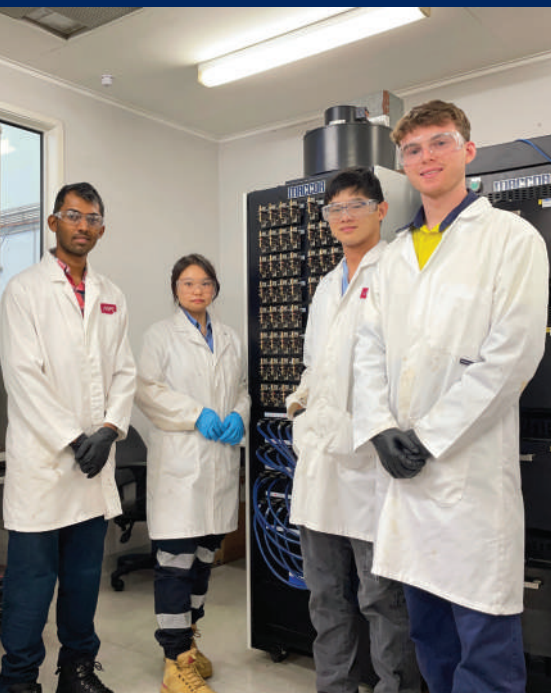
Lithium Australia acknowledges First Nations peoples as the Traditional Owners of Country throughout Australia. We recognise the unique cultural heritage of First Nations peoples and their continued connection to lands, waters and communities. We pay our respects to all First Nations peoples, and to Elders past, present, and emerging. We also offer our acknowledgements to the First Nations Peoples of the Country's in which our operations belong: The Whadjuk Noongar People, the Yugara and Turrbal People, and the Boonwurrung People.

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Left: Max Lane, Right: Andrew Mackenzie at Envirostream's Laverton Facility.



Left to Right: Thushan Pathiranalage, Yujia Liu, King Foong, Jack Buchanan



VSPC's Pilot Plant, Wacol QLD



Highlights FY22

We are proud to share our environmental, social, and corporate governance ('ESG') performance for 2022 and disclose our efforts towards a sustainable future.

Established
National network
of over

700

B-cycle drop off locations with partners **including Bunnings and Officeworks**

Joined the **Global Battery Alliance**



Received

\$470k

funding in research

100%

ownership of Envirostream
in 2022



Inaugural reporting of baseline **GHG emissions** and **energy consumption**

Accredited

Envirostream's revolutionary battery recycling technology **ISO 9001, 14001, 45001 and AS/NZS 5377:2013**



1086

tonnes of end-of-life batteries **diverted from landfill** to Envirostream's facilities.

Initiated process for a **company-wide review** of our Vision, Values and Mission Statements to be communicated in our FY23 Sustainability Report



Zero

non-compliance and regulatory violations across the Group

99-year operating licence granted for Envirostream's **battery recycling activities** in Campbellfield, Victoria



25kL

of wastewater produced by VSPC is **reused in its operations**



Zero

lost-time injuries across all operations in FY22



Zero

LTI maintained since 2018 for VSPC



Installation of **measures to mitigate stormwater contamination** at Campbellfield site

Australian standard patent issued for **LieNA®** the revolutionary process to treat fine **waste spodumene**

Chief Executive Officer's Letter

Sustainability at Lithium Australia

Dear Stakeholders

It is with pleasure that I present Lithium Australia's (the 'Company's') Sustainability Report for the 2022 Financial Year. I have joined the Company at an exciting time where our technology platforms of battery recycling, cathode powders and lithium chemicals have all come to the forefront of helping the world to decarbonise through a circular battery industry.

This inaugural Sustainability Report summarises our areas of focus which are material to our stakeholders and our ongoing improvements related to Environment, Social and Governance (ESG) matters.

We are at the start of our ESG reporting journey, however, due to the nature of our business, ESG obligations have been and will continue to be core to our organisation. These obligations start with our Board's commitment and works its way through the business. We see sustainability as an essential part of our history and our future.

Key ESG highlights for the 2022 financial year were:

- Improved safety performance – Zero reportable injuries.
- 1,086 tonnes of end-of-life batteries diverted from landfill and our contribution of repurposing materials to generate new batteries.

- Development of improved safety systems at our at our battery recycling facilities.
- Development of cathode powders which have the potential to underpin decarbonisation through electrification.
- Focus on LFP / LMFP cathode products which avoid potential conflict metals such as cobalt.
- Determination of the Scope 2 carbon footprint for the group.
- Increased employment of 11 people.

Our commitment to sustainability performance and reporting is aligned to our values which seek to achieve zero harm to our people, minimal environmental impact, and drive towards a zero-carbon environment.

For myself, ESG means being a good and ethical citizen. This shows up in the way we are judged to engage with

all the stakeholders who are part of or associated with our business.

The Company is advancing its goal of an ethical and sustainable supply of energy metals for the battery industry. Diverting toxic battery chemicals from landfill, through Envirostream, increasing the availability of safe, low-cost cathode powders for the electrification of mobility, through VSPC, and the reduction of the environmental footprint of the mining industry, through LieNA[®], confirming our intentions.

We have strengthened our environmental, social and governance systems this year and will continue to do so over time as the Company moves into the next phase of development.

We are currently redefining our company strategy, including our purpose/mission, vision and values. This process has already confirmed that safety, sustainability and being a people centered organisation are core values.

Looking ahead to 2023 and beyond, we are focusing on further developing safety systems as battery volumes increase, seeking to reduce waste, as well as preparing to commercialise cathode powder technology to assist in the energy transition. The collection and reporting of key ESG metrics and policy reviews against industry standards will support our efforts. Our Board, through our Audit and Risk Committee, will provide oversight.

I would like to take this opportunity to thank our employees, management team and directors for their hard work and commitment to contributing to our first Sustainability Report and their ongoing commitment to improving our ESG performance.



Simon Linge
Chief Executive Officer
Lithium Australia

About this Report

This sustainability report, approved for release by the Company's Board of Directors, covers the period from 1 July 2021 to 30 June 2022 ('FY2022'). The report covers the sustainability progress and performance of Lithium Australia which is based in Perth, Western Australia, and its associated divisions: Battery Recycling (through Envirostream Australia Pty Ltd, located in Melbourne Victoria); Battery Materials (through VSPC Pty Ltd, located in Brisbane, Queensland); and Lithium Chemicals (located in Perth, Western Australia), (the Group). This report complements Lithium Australia's FY2022 Annual Financial Report.

The currency used throughout this report is Australian Dollars, unless otherwise stated.





About
Lithium
Australia

Sustainability approach

Lithium Australia Limited ('Lithium Australia' or 'the Company') strives to operate at the industry standard levels of Environmental, Social & Governance ('ESG') performance and is committed to continuous improvement. This year, we have continued to develop and advance our sustainable processes.

The focus of Lithium Australia remains that of ensuring an ethical and sustainable supply of energy metals to the battery industry. The Company's ESG Framework will adhere to the best-practice standards, ensuring that outcomes are delivered in the most sustainable manner.

Lithium Australia

At Lithium Australia, we strive to reduce our environmental footprint, as we drive the development of a sustainable battery business. This will be achieved through our primary activities of battery recycling, development of cathode active materials, and lithium extraction technologies.

All our activities are in response to the rapidly increasing demand for electric vehicles and battery energy storage



Lithium Australia was inducted into the Global Battery Alliance (GBA). This brings a commitment to establish a sustainable battery value chain by 2030 on a global scale.

The Australian federal government has recognised Lithium Australia's progress through the award of substantial research grants designed to progress the nation's advanced battery capabilities.

In this Financial Year, Lithium Australia received a research grant for A\$71,434

- ultimately the global push for a decarbonised economy. Our activities will help meet these industry demands by enhancing sustainable energy sources and resource efficiency.

Although Lithium Australia's individual business units are complementary, they are independently operated and include:

- Collecting and recycling of end-of-life batteries;
- Development of advanced cathode materials; and
- Refining technologies for the recovery of lithium chemicals from waste (LieNA® and SiLeach®).

The Company also holds certain investments and joint ventures with other companies focused on the extraction of lithium from primary resources.

Lithium Australia's research into, and the development of, proprietary extraction processes for the conversion of all lithium silicates (including mine waste), and of

finer generally discarded during conventional spodumene conversion, to lithium chemicals, was awarded a CRC-P grant to pilot the process. This grant project has numerous partners including:



Lithium Australia has also utilised lithium chemicals generated through its extraction processes to produce advanced cathode material.

Investments and joint ventures

Lithium Australia holds certain investments in Australian and Canadian-listed shares.

The Company also holds joint venture holdings of 30% with Charger Metals NL (ASX:CHR) for certain tenements managed by Charger.

These tenements include the Coates and Bynoe projects.

These exploration assets will aim to preserve access to lithium deposits that may provide raw materials for future Company mineral processing and chemical production activities.

More information on these assets can be found within the FY2022 Financial Report.

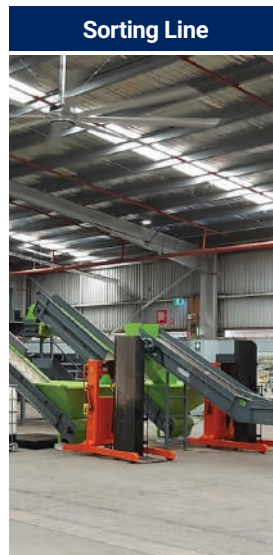


Envirostream

Launched in 2017, Envirostream Australia Pty Ltd ('Envirostream') has developed safe and innovative management solutions for one of the Australian waste industry's biggest challenges – battery disposal. Early this year, Envirostream became a 100% owned subsidiary of Lithium Australia.

Envirostream is based in Melbourne, Victoria. We are the national leader in mixed-battery recycling. Using international best practice, we provide sustainable solutions for the disposal

of end-of-life ('EOL') batteries and the recovery of critical energy metals which are used to manufacture new lithium-ion batteries ('LIBs'). Presently, only about 10% of EOL LIBs in Australia are made available for recycling with the remaining 90% sent to landfill. LIB waste is estimated to grow by 20% per annum and could exceed 100,000 tonnes ('t') by 2036 (Source: CSIRO <https://www.csiro.au/en/research/technology-space/energy/energy-storage/battery-recycling>). This poses a significant potential for additional recycling volumes at Envirostream.



To manage the increasing volume of EOL batteries, Envirostream offers a range of battery collection and disposal services. These include collection units, numerous drop-off locations and full battery processing at its highly advanced Victorian-based battery processing facility. This year, a new site in Laverton North has also been launched to complement the existing Campbellfield facility. The past year also saw the Victorian EPA issue Envirostream with a 99-year operating licence which allows us to process in excess of 500 tonnes per annum ('tpa') of specified electronic waste. The new Laverton North site and EPA licence will ensure our operative capacity continues to grow. We have reported an increase in collection and processing of EOL batteries since the commencement of B-cycle – the Australian government-backed battery recycling scheme.

In this Financial Year, Envirostream received a research grant for A\$30,000

Envirostream has quickly grown a national network of over 700 accredited B-cycle drop-off locations through our partners who supply EOL batteries for recycling. The business also supplies services to other scheme collectors who sort and recycle batteries. At Envirostream, we are actively growing the network of B-cycle drop-off locations and partners and will keep the market informed as progress occurs. We also continue to explore opportunities with electric vehicle and energy storage system manufacturers throughout Australia, seeking EOL solutions for their batteries.

Envirostream's network of reputable partners:



VSPC

VSPC Pty Ltd

VSPC Pty Ltd ('VSPC') is based in Brisbane, Queensland. We have over 20 years' experience in researching, developing, and patenting the production of nano particles, high-purity, high-performance battery materials and derivatives. At VSPC, we have a strong focus on safety, cost, and sustainability, and we are 100% owned by Lithium Australia.

Presently, VSPC is commercialising leading-edge materials for e-mobility and energy storage applications, helping the transition to a zero-carbon economy. Our patents cover the production of advanced powders for next generation lithium-ion batteries, especially lithium ferro phosphate ('LFP'). These powders are necessary to power lithium-ion batteries for, among other things, electric vehicle and energy storage applications.

Currently, the demand for LFP represents more than 30% of the global market for lithium-ion battery cathode materials. VSPC is one of only a few entities outside of China, with the technical expertise to manufacture LFP powder of the highest quality at our Research & Development (R&D)



100% owned battery minerals pilot plant, Brisbane QLD

and pilot plant facility ('pilot plant'). Currently, a Definitive Feasibility Study ('DFS') for an initial 10,000tpa LFP manufacturing facility is in progress, with customer offtake discussions advancing in parallel. At VSPC, we are well positioned for our first commercial development.

VSPC's core technology enables efficient production of high-performance cathode powders – LFP, and lithium manganese ferro phosphate ('LMFP'). Demand for LFP continues to grow due to its superiority over nickel-based cathode

In this Financial Year, VSPC received a research grant for A\$368,775

materials. During the year, VSPC announced several advancements in relation to obtaining VSPC-related patents worldwide. These patents will further strengthen our ability to produce LFP and LMFP in the future.



Lithium Chemicals

Lithium Chemicals is a division of Lithium Australia that is focused on developing a suite of disruptive extraction and refining technologies for the recovery of lithium chemicals from various waste materials. This includes current mine waste materials such as lithium micas, fine lower grade spodumene, and EOL lithium-ion batteries.

These processes have a common thread - the recovery of lithium as

lithium-phosphate ('LP'), for use as a direct-feed chemical in the production of lithium ferro phosphate battery cathode powders using VSPC's processing technology.

This helps avoid the need to produce an intermediate chemical such as lithium hydroxide or carbonate.

Lithium Australia's proprietary extraction process, LieNA®, is specifically designed for energy-efficient processing of fine low grade spodumene material that is currently discarded as waste. The process intends to deliver critical chemicals to the battery industry in an ethical and sustainable manner. This will improve the feasibility of existing mining operations by extending

resource life and enhancing energy security in areas where critical battery minerals are scarce or non-existent. By providing a pathway for fine spodumene feed, that concentrate producers currently discard as waste, LieNA® has the potential to significantly increase lithium recovery and the sustainability of conventional hard rock lithium mineral processing.

During the year, the final component required for the construction and commissioning of our LieNA® pilot plant was assembled and pre-commissioned. Equipment certification for the pilot plant is also well advanced and is a critical step for final commission.

LieNA® Pilot Plant Autoclave installed at ANSTO



FY2022

Milestones and Achievements



MILESTONES & ACHIEVEMENTS

QTR	INVESTMENTS AND JOINT VENTURES	ENVIROSTREAM	VSPC	LI CHEM
July - September	<p>Completed sale and joint venture agreement with Charger Metals NL for the tenements associated with the Coates, Lake Johnston and Bynoe projects.</p> <p>This transaction complements the previous deal with Galan Lithium Limited which acquired 80% of the Greenbushes South lithium project from Lithium Australia.</p>	<p>Research into fire-resistant containers for EOL battery collection.</p> <p>International patent applications submitted.</p> <p>Investment in infrastructure expansion in Melbourne, Victoria in preparation of increased volumes.</p>	<p>Received Australian patent for 'Method of making lithium metal phosphates' giving 20 years of IP protection.</p> <p>New Executive Director, Andrew Skalski, appointed from within the Company.</p>	<p>Continued research into and development of its LieNA® process.</p>
October - December	<p>Exploration continued by joint-venture partners at Bynoe (Northern Territory) and Greenbushes South (Western Australia).</p>	<p>A 99-year operating licence for battery recycling activities in Campbellfield was granted by EPA Victoria.</p> <p>Granted land-use permit from Council for new Materials Recycling' facility in Laverton North, Victoria.</p> <p>Commenced a partnership with Bunnings for battery collection.</p>	<p>Applied for a Modern Manufacturing Initiative – Collaboration Stream grant to facilitate development of an LFP cathode plant in Australia.</p> <p>Committed \$250,000 in funding for Australian Research Council Grant, helping to promote innovation in the industry.</p>	<p>Standard Australian Patent granted for the second generation LieNA® technology.</p> <p>First-generation SiLeach® patent application granted in Canada.</p>
January - March		<p>Materials Recycling facility at Laverton North site is fully commissioned and operational.</p> <p>Lithium Australia acquires final 10% interest – now owns 100% of Envirostream</p>	<p>Commenced DFS for VSPC's planned lithium ferro phosphate manufacturing facility.</p> <p>A final international patent application ('PCT') for 'Production of iron (II) oxalate' was filed.</p>	<p>Completed assembly and pre-commissioning of the LieNA® autoclave pilot plant at ANSTO.</p>
April - June		<p>Receives first cash rebate from the B-cycle Scheme for collecting, sorting and recycling end-of-life ('EOL') batteries.</p> <p>National network of over 700 B-cycle drop off locations with partners.</p> <p>Established relationships with electric vehicle (EV) manufacturers for EOL battery solutions.</p>		

ESG Roadmap

Lithium Australia recognises that ESG measurement and performance will require long-lasting commitment over several years. In response, we have developed a three-year roadmap to guide strategic direction. The ESG roadmap will ensure that the development of company projects takes place in a responsible and balanced manner, with appropriate resources and focus allocated to our material topics.



ESG
ROADMAP

FY21



- ESG project team formed
- Peer and industry sustainability review
- Key stakeholders mapped
- Material topics identified
- Sustainability positioning articulated
- ESG roadmap
- Carbon footprint project kicked off

FY22



- Use of GRI and WEF framework to set scope and capture data baselines across all material topics
- Complete carbon footprint project
- Publish inaugural sustainability report

FY23



- Stakeholder engagement and materiality reassessment
- Assess Modern Slavery risk requirements
- Review all current LIT policies
- Publish climate risk strategy and TCFD roadmap
- Second sustainability report, aligned to either WEF or GRI frameworks

GRI: Global Reporting Initiative

WEF: World Economic Forum

TCFD: Task Force on Climate-Related Financial Disclosures

Production



1086t

of EOL
batteries
diverted from
landfill

270t

of lithium
batteries
processed

116t

of recovered
anode and
cathode
(black mass)
materials sold

64t

of copper foils
recovered and
sold



161kg

of lithium ferro
phosphate cathode
powder produced

10kg

of lithium
manganese ferro
phosphate cathode
powders produced

Laboratory scale
volumes of lithium
titanium oxide
(‘LTO’) anode
powder were also
synthesised

Note: Production capacity at VSPC’s Wacol pilot plant is approximately 1-2 tpa of lithium ferro phosphate. The above volumes were primarily generated to allow testing by third parties. As we move towards commercialisation of our technology, higher volumes are required to satisfy the pre-qualification processes of the battery industry.

Stakeholders and Materiality

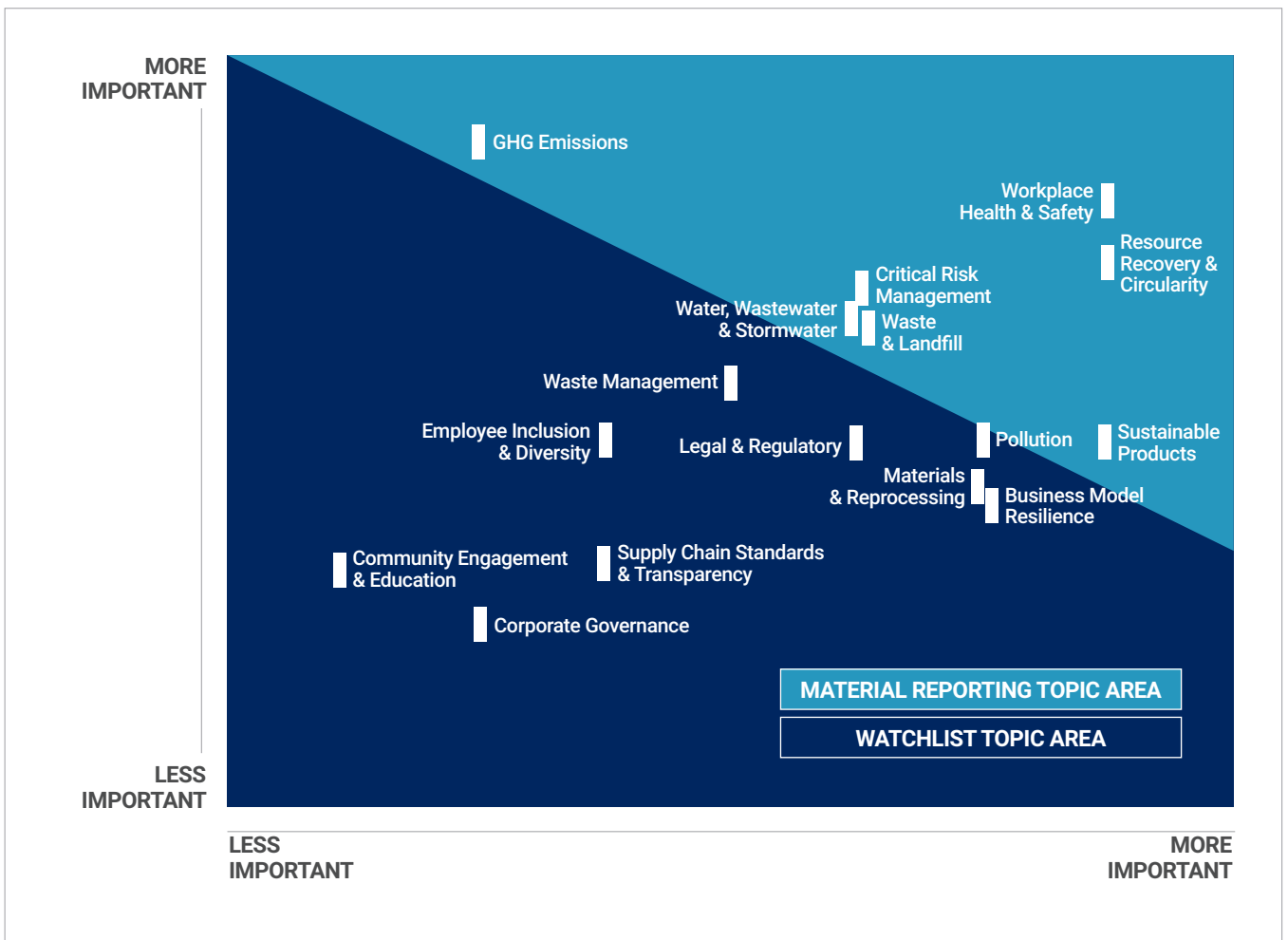


At Lithium Australia, close collaboration with stakeholders is essential for our business and we are committed to early, active, and continuous engagement. We rely on strong and open dialogue with our stakeholders to access resources, obtain and maintain our regulatory and social licence to operate, as well as deliver mutual benefit to our communities.

The Global Reporting Initiative ('GRI') framework defines stakeholders as those people or organisations who are directly or indirectly affected by, or have an interest in, our business. We prioritise stakeholders based on their ability to impact our business and our ability to impact their lives or activities. Significant identified stakeholders are summarised below:

Employees	Board of directors	Peers & competitors	Shareholders and investors
Industry	Local communities	Creditors, insurers and grant providers	Brokers, advisers and institutions
Customers	Government departments	Industry groups and influencers	Suppliers and partners

Lithium Australia Materiality Matrix



In 2022, the Company continued to measure the performance against the material topics established in last year’s materiality assessment. These material topics ensure that the content of our reporting meets the information needs of our stakeholders and reflects our most significant impacts. Each topic falls under the sustainability pillars of ‘Environment, Social, and Governance’. Our material topics are outlined in the materiality matrix below. The topics plotted within the shaded area are most material to the company.









SUSTAINABLE DEVELOPMENT GOALS

The 17 Sustainable Development Goals (SDGs) and 169 targets as agreed by the United Nations in the 2030 Agenda for Sustainable Development, aim to wipe out poverty, fight inequality and tackle climate change by 2030.

The SDGs are a call for action by all countries and companies to promote prosperity while protecting the planet. To achieve this, there must be cooperation in developing strategies that encourage economic growth and address a range of social needs such as education, health, human rights, and job opportunities, while tackling climate change and environmental security. The goals address the needs of people in both developed and developing countries, emphasising that no one should be left behind.

Our business and sustainability activities are aligned to contribute to the SDGs. The SDGs are a key inspiration for the future prosperity of our stakeholders. We are currently focussed on making significant impact on four SDGs, 7, 9, 12 and 13 and will subsequently grow our impacts to more of the 17 goals as our projects further develop.



Lithium Australia Activity	SDG	SDG Heading	Specific Indicator or Target
Increasing the availability of battery metals to meet future demand		Affordable and clean energy	7.1 – By 2030, ensure universal access to affordable, reliable, and modern energy services
Developing innovative techniques that enhance lithium extraction capabilities and improve resource efficiency		Industry innovation and infrastructure	9.4 - By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities
Reducing disposal of EOL batteries to landfill		Responsible consumption and production	12.5 – By 2030, substantially reduce waste generation through prevention, reduction, recycling, and reuse
Committed to aligning with the Task Force on Climate-related Financial Disclosures (TCFD) to ensure climate-related measures are integrated into our strategic planning		Climate action	13.2 - Integrate climate change measures into national policies, strategies, and planning



Governance

Implemented critical risk review process
to be conducted annually

Zero Regulatory breaches and non-compliance incidents across the Group

Developing a Crisis Management Plan
for the entire Group

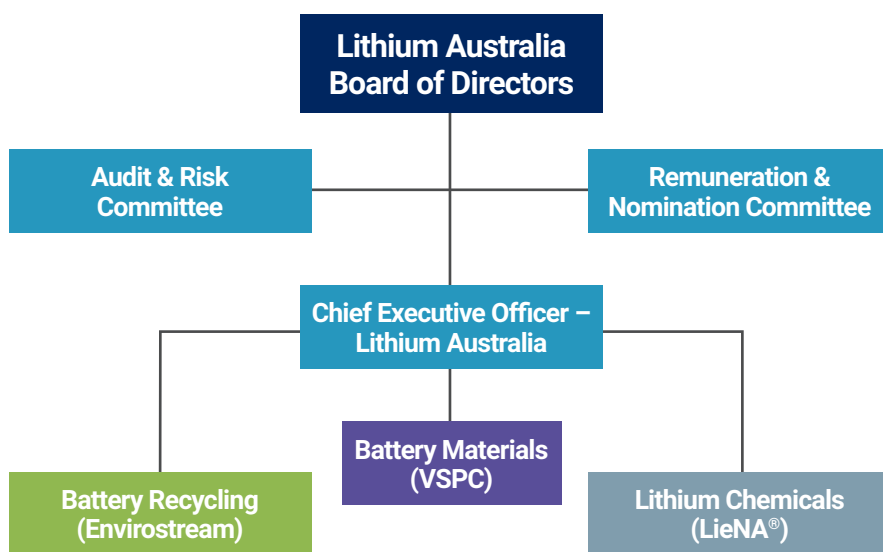
Crisis Management Team training
undertaken



Governance at Lithium Australia

Lithium Australia aspires to the highest standards of corporate behaviour, accountability, and support, and has adhered to the principles of sound corporate governance. The Company's [Corporate Governance Plan](#) forms the basis of this comprehensive system of standards, principles and policies.

The Board is committed to administering the policies and procedures with openness and integrity, pursuing the true spirit of corporate governance commensurate with the Company's needs. To the extent they are applicable to the Company, the board has adopted the ASX Corporate Governance Council's Corporate Governance Principles and Recommendations 4th Edition ('the Principles and Recommendations'). This approach sets a blueprint for the Company to follow as it continues to introduce elements of the governance process. More information on how Lithium Australia adheres to the Principles and Recommendations can be found in the [Corporate Governance Statement](#) on the Lithium Australia website.



Lithium Australia's Board strives to conduct business in a responsible manner and is tasked with driving high levels of performance across the Group. The Board maintains oversight of all activities and risk, including those related to sustainability. In carrying out its role, the Board must ensure that the Company complies with all its contractual, statutory, and other legal obligations, including the requirements of regulatory bodies. Subsidiary governance is primarily undertaken by the Board of Lithium Australia.

To ensure the Company is operating appropriately, the Board will review and approve the Company's financial position, systems of risk management and internal compliance and control. Formalised policies and procedures have been approved by the Board and are consistent with the Company's objectives of acting ethically and responsibly in all areas of business. The Audit and Risk Committee (ARC) and the Nomination and Remuneration Committees has been set up as a sub-committee to

the Board, helping to carry out some of its responsibilities.

The Company's Code of Conduct Policy ensures that a culture of fairness, respect, and encouragement exists within the workplace. These attributes help to enhance teamwork and the continual development of Lithium Australia's people.

During FY2022, several new management appointments were made within the Group. Mr Adrian Griffin retired from the position of Managing Director effective May 2022 and moved into a Technical Advisor role on a consulting basis. Over the past 10 years as Managing Director, Mr Griffin was instrumental in repositioning the Company from a junior resource exploration entity to one that sits at the forefront of the global lithium battery industry.

Following a global search, Mr Simon Linge was appointed CEO of Lithium Australia in September 2022, commencing in January 2023. Mr Linge brings significant senior executive experience to the Company. The year also saw the appointment of Ms Catherine Grant-Edwards and Ms Melissa

Chapman as Joint Company Secretary following the resignation of Mr Barry Woodhouse.

Critical Risk Management

Critical risk management helps to facilitate more defined outcomes and the delivery of Company ambitions.

The Lithium Australia Board has ultimate responsibility for risk management. This includes:

- Approving the Company's policies on risk oversight and management, internal compliance and control, and legal compliance
- Ensuring senior management has developed and implemented a sound system of risk management and internal control in relation to financial reporting risks and reviewed the effectiveness of the operation of that system
- Assessing the effectiveness of senior management's implementation of systems for managing material business risk, including the making of additional enquiries, and to request assurances regarding the management of material business risk, as appropriate

Critical risk reviews are undertaken at least annually. During the risk review, critical risks are grouped into 6 categories: Financial, Health and Safety, Operational, Project, Reputation, and Compliance. The results of risk reviews are included in the Corporate Risk Register. Any risks ranked as 'High' for the Group, require immediate intervention from Senior Management to eliminate or reduce impacts by the introduction of control measures.

The risk register is presented to the Audit and Risk Committee (ARC), as a subcommittee of the Board, on a quarterly basis. The management system for critical risks and the hierarchy of controls is currently being implemented. It will aim to achieve a quarterly review of the risk environment by risk owners to

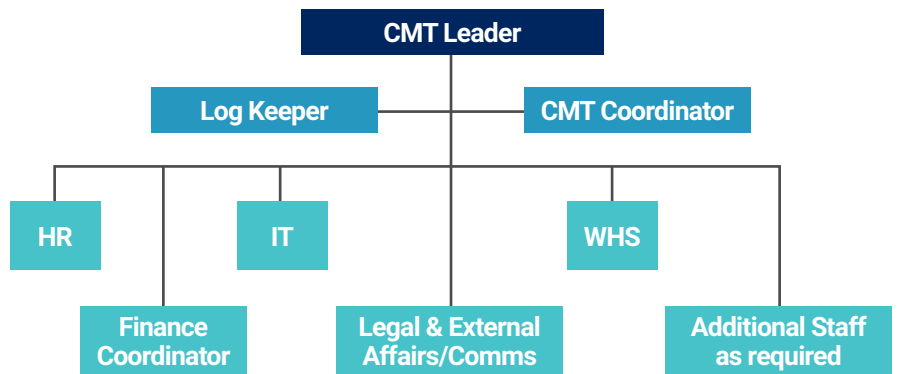
determine if underlying risks have changed, or if new risks have been identified based on internal and / or external factors.

Lithium Australia's Risk Management Policy was approved by the Board and delegates day-to-day risk management to the Chief Executive Officer. It also contains the Company's risk profile and describes some of the policies and practices the Company has in place to manage specific business risks. The Chief Executive Officer is required to report on all matters associated with risk management including the effectiveness of the Company's management of its material business risks.

The quality of risk management processes is ensured by the competency of persons who carry them out. The ARC consists of the entire Board who collectively have significant experience across project development, operations, and broader

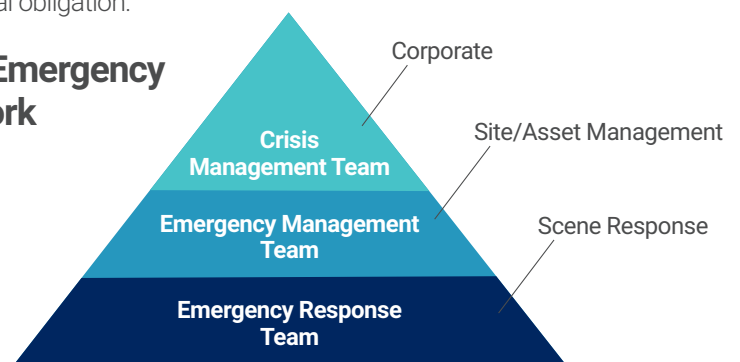
governance matters, such as risk. From a management perspective, Stuart Tarrant, Chief Financial Officer of Lithium Australia, leads risk management practices for the Company. Stuart developed his risk management experience within BHP and assisted with the development of the risk management framework at his prior employer, Danakali Limited.

Lithium Australia is in the process of developing a Crisis Management Plan ('CMP') to describe the Lithium Australia response and management architecture and to provide the Crisis Management Team ('CMT') with a standardised process to respond to incidents. The CMT is led by the Crisis Manager (typically the Chief Executive Officer (CEO) or their nominee) and consists of members of Management based in the Perth Corporate Office (or virtually) and supported by administrative staff and / or external contractors. The structure of the CMT can be seen below:



The CMT falls under the Company's Crisis & Emergency Framework of which there are three levels. The CMP will be maintained at corporate level and integrate with the site Emergency Management Plan ('EMP'). The CMP will apply to all Lithium Australia sites, subsidiaries, and operations and any other area for which there is a legal obligation.

Crisis & Emergency Framework



Social

Lithium Australia values inclusive sustainability and believes that together we achieve more. We form honest and fair relationships with all our stakeholders, encourage collaborative and lateral thinking in our people, and strive for zero-harm in the workplace.



Front L-R (standing): David Glazner, Azmi Arif M, Trevor Sutcliffe, Andrew Capri, Sapir Bar, Rey John Tumbaga, Marionette Grull, Max Lane, Sai Aravind.

Rear L-R (on stairs): Kimaata Malua, Elaine Chua, Irene Samaniego, Divid Zaya.

Workplace Health and Safety

Lithium Australia is committed to ensuring the health, safety, and wellbeing of all employees. This includes the prevention of injury and ill health, both in the course of their duties and in any Company activities. The Company also has a duty to ensure the health and safety of any person who may be affected by our activities; this extends to contractors,

customers, neighbours, visitors, and members of the public.

Lithium Australia's commitment to health and safety extends to its divisions. The Battery Recycling, Battery Materials and Lithium Chemicals divisions all regard workplace health and safety ('WHS') as fundamental to the success of each business. The Group acknowledges the importance of continuously striving to improve WHS

Zero
lost-time injuries
recorded across
all operations in
FY22

Zero
LTI maintained
since 2018 for
VSPC

All Envirostream
activities and sites
are **ISO 45001**
accredited

Developed
fire-resistant
containers for
EOL batteries
throughout the
collection network

standards, meet and where possible exceed legislative obligations, prevent injury and ill-health, and demonstrate WHS leadership. Each business recognises the legal requirement to comply with the Work Health and Safety Act 2022 (previously the Occupational Health & Safety Act 1984) and ensure that the Act is made available to all parties.

Envirostream have several health and safety management systems in place. These include health monitoring through medical examinations, risk identification, and investigation processes that help make up our internal risk register. Periodic audits are in place that can be triggered by non-conformance, near-misses, and other hazard-related incidents. During FY 2022, all Envirostream activities and sites obtained the certification ISO 45001 Occupational health and safety management systems, valid from October 2022 to November 2025. During FY2022, research was continued into the development of fire-resistant EOL battery containers for use throughout our collection network, minimising safety risks throughout the value chain.

VSPC manages WHS through ensuring that appropriate systems and resources are in place. The most senior leader responsible for risk management is the Plant Manager and Executive Director. Employees are trained to perform their tasks safely and are encouraged to actively contribute to continuously improving



All Envirostream activities and sites are accredited by ISO 45001 - Occupational health and safety management systems.

WHS. Procedural Compliance Checks are used to validate competency of personnel. All VSPC employees are part of the WHS committee that meets monthly with the support of a WHS consultant. This provides a forum for sharing and actioning any WHS concerns. All standard operating procedures ('SOP') are underpinned by a Job Safety and Environment Analysis ('JSEA') risk assessment with personnel expected to sign-off on the SOP's prior to performing activities. A 'Take 5' or JSEA process is used to ensure non-routine activities are performed safely. Hazard identification and incident reporting measures are also in place, as are regular housekeeping inspections. Our health and safety measures go beyond the minimum requirements of Australian and Queensland ('QLD') WHS legislations.

Lithium Chemicals is currently in the process of updating our Employee Handbook and Safety Policy. Despite there being no formal WHS committee in place at this stage, management is responsible and accountable for protecting employees and assets.

Health and Safety Risk Identification

Risk identification and investigation is crucial to ensure risks are mitigated appropriately, and if incidents occur, there are steps in place to amend the effects. At Envirostream, appropriate forms are available to report incidents, with employees also having the opportunity to discuss with the WHS Officer or send an email anonymously through the compliance email service. Envirostream recorded one notifiable WHS incident (sharps injury) in FY22. The sharps incident involved an unusual object being found whilst sorting through spent batteries. The incident was reported to Worksafe Victoria and following an investigation, mitigation measures were implemented to prevent the incident from reoccurring. The main issue detected was an unsupervised battery collection point at a council site.

VSPC has developed a WHS Manual based on the foundation of safety-first where employees are trained to stop a job if someone's health and safety is at risk. Our employees are protected against reprisals through a workplace culture that encourages all employees to actively contribute to reporting and improving safety in the workplace.

H&S Statistics		Corporate*	Envirostream	VSPC	Total
Metric	Unit	FY22	FY22	FY22	FY22
Total Recordable Injury Frequency Rate (TRIFR)[^]	Rate	0	57.62	0	29.13
Lost Time Injury Frequency Rate (LTIFR)	Rate	0	0	0	0
Total number of hours worked	Number	19,515	31,240	11,037	61,792
Total number of employees covered by OHS management system	%	100	100	100	100

* Corporate data includes Lithium Chemicals

[^] TRIFR = No. of recordable injuries * 200,000/ Total man hours for the period^{^^}

^{^^} LTIFR = No. of recorded LTI * 1,000,000/ Total man hours for the period

We use a Risk Matrix to ensure that the measures have mitigated the risk to the lowest practicable residual risk. Tools, including JSEA and hazard and operability ('HAZOP') studies are used as a part of the hierarchy of controls to develop risk mitigation measures.

At Envirostream, we have a safety and compliance officer in place with experience in safety management and incident investigation. Work related hazards and incidents/accidents are logged and reported to the officer who works with personnel to develop and implement mitigative measures. Once root causes are found, mitigation measures are discussed at a senior level and later presented to the employees for consultation. If agreed and approved, modifications are implemented.

Health and Safety Training and Promotion

Lithium Australia recognises the importance of WHS training and promotion. The Company provides training to employees ensuring an understanding of good WHS practices, procedures, and regulatory requirements.

At Envirostream, we have completed a training needs analysis to evaluate what training is required for our personnel. This has resulted in the development of a training matrix. It lists the training required for each individual role and ensures all personnel are provided the required training necessary, to undertake their daily tasks safely and effectively. The matrix records and tracks when training is undertaken and when a refresher course is required.

At VSPC, regular training is provided on key risks and hazards with all personnel having access to safety data sheets, chemical labels, and personal protective equipment ('PPE'). Monthly training on topics such as electrical safety, mental health, and fatigue are carried out by management and VSPC's WHS consultant. A full day of training in

Risks and Mitigation Strategies across the Group



Fire

- Employee training and inductions
- Visitor signing in/out
- Appointment of fire marshals
- Site specific evacuation plans
- First mover EOL battery collection and storage processes



Sharps

- Implementation of technology to control exposure
- Personal protective equipment (PPE)



Chemical

- Eliminating/substituting use of some chemicals eg, VSPC phased out hydrogen peroxide
- Automation of processes
- Provision of dust/fume cabinets
- PPE eg, pressurised air hoods and half canister masks



Electrical

- Electrical equipment regularly tested
- RCD testing by licensed electricians
- Tag-out system for damaged equipment



Dust

- Installation of fume/dust cabinets
- Mobile dust extraction
- High-grade PPE

Zero
fatalities
recorded across
all operations in
FY2022

Zero
LTI maintained
since 2018 for
VSPC

Safety Leadership was undertaken in August 2022.

As a part of the DFS for an initial 10,000 tpa LFP Manufacturing Facility, VSPC focuses safety on design. It includes completion of HAZID (Hazard Identification), HAZOP's (Hazard and Operability Study) assessments and completes specific maintenance and operability reviews as an integrated component of plant layout development. Involvement of operational personnel from VSPC's Wacol pilot plant has been critical to achieving practical input into these safety design activities.

COVID-19 Response

Navigating the ever-changing COVID-19 landscape was a challenge and required the implementation of different procedures across the Group. Working-from-home arrangements were established to ensure the safety of our employees. The requirement for a negative rapid antigen test ('RAT') prior to coming into the office was

also introduced. Appropriate training and information were provided to all personnel and visitors. Procedures for contactless collection and delivery, and how to respond to positive cases in the workplace were developed and implemented. During the year, two employees travelled internationally for work and contracted COVID-19. Upon returning to the country, it was decided that the best outcome for families and work colleagues was for the individuals to quarantine in a hotel, following relevant government guidelines, at that time.



Environment

Through driving circularity in our business model, Lithium Australia will reduce battery and component waste, and promote the use of batteries coupled with renewable energy sources over conventional energy sources. Adequate systems are in place for the management of our environmental obligations and will be developed further as the business grows. The aim remains to ensure the appropriate standard of environmental care is achieved, and the Group complies with all environmental legislation and regulations.



Inaugural reporting of baseline GHG emissions and energy consumption for **Corporate, Envirostream, and VSPC**

25kL of wastewater produced by VSPC is reused in its operations

Zero environmental non-compliances incidents reported

99-year operating licence for Envirostream's battery recycling activities in Campbellfield, Victoria

Installation of measures to mitigate stormwater contamination at Campbellfield site



Due to its operating status, Envirostream currently experiences the highest exposure to environmental risks within the Group. These risks are managed through the Risk Management and Monitoring Program ('RMMP') which was developed to ensure adherence to requirements of Environment Protection Authority Victoria ('EPA') and specifically the General Environmental Duty ('GED'), introduced from 1 July 2021.

GHG Emissions and Energy

Lithium Australia holds the belief that we will minimise our carbon footprint through the operations of the Group. We believe that climate change is the greatest environmental challenge of our time and to be successful as a business, we need to play our part in efforts to combat the threat.

Our carbon footprint and intensity will be a key indicator when analysing and assessing future business opportunities and strategic direction.

VSPC is at the forefront of the Group's mission to make a significant contribution to minimising our carbon footprint by providing quality battery

materials for application in e-mobility and energy storage systems, coupled with the associated uptake of renewable energy including wind and solar. The Company believes that the VSPC Reduced-Cost ('RC') Process will be competitive relative to competing LFP manufacturing processes.

VSPC is a start-up and so we are at the stage of establishing baseline data on RC Process emissions and benchmarking them against other LFP manufacturers. The pilot plant includes suitable emission controls such as a gas scrubber, thermal oxidiser and activated carbon filters.

In FY2022, the Group commenced the reporting of carbon emissions with the help of specialists, Super Smart Energy. An initial GHG assessment was conducted to calculate the Scope 1 and 2 emissions associated with the activities of Lithium Australia and the Group. The assessment covered Envirostream operations, Lithium Australia's Perth office and VSPC's pilot plant. Emission estimates were prepared using methods and emissions factors from the National Greenhouse and Energy Reporting standards ('NGER').

Entity	GHG Emissions FY2022			
	Unit	Scope 1	Scope 2	TOTAL
Perth Corporate	(t CO ₂)	-	21	21
VSPC	(t CO ₂)	5	116	121
Envirostream	(t CO ₂)	21	266	287
TOTAL		26	403	429

Energy Mix	Energy Consumed FY2022				
	Unit	VSPC	Envirostream	Corporate	TOTAL
Diesel combusted	GJ	0	219	0	219
Grid electricity purchased	GJ	523 ^a	996	112	1,631
Liquefied Petroleum Gas (LPG)	GJ	82 ^b	98	0	180
TOTAL		606^c	1,313	112	2,031

a. Purchased from Queensland grid

b. Used for thermal processes

c. Includes 1GJ from combusted gasoline

Data was obtained from Lithium Australia Greenhouse Gas Assessment (August 2022)

Task Force on Climate-related Financial Disclosures

To assist with global efforts in tackling climate change, the Group is planning to commence working towards alignment with the Task Force on Climate-related Financial Disclosures ('TCFD') framework.

The TCFD framework is structured around four important areas: governance, strategy, risk management, and metrics and targets. These disclosure recommendations will provide transparency on our climate-related risk exposure and help us to implement appropriate mitigation measures and capture opportunities. The four recommendations will be implemented in a multi-year roadmap that will see ongoing improvement. The Company plans to add ESG to the responsibilities of the Audit and Risk Committee, as well as having responsibility for approving our future ESG reports. The Company's Audit and Risk Committee's Charter will also be reviewed to ensure ESG matters are included. A Company-wide ESG working group will also be developed comprising of members from the three subsidiaries. This group will help to strengthen ESG performance and ensure effective implementation of the TCFD requirements.

Governance: The organisation's governance around climate-related risks and opportunities.

Strategy: The actual and potential impacts of climate-related risks and opportunities on the organisation's business, strategy, and financial planning.

Risk Management: The process used by the organisation to identify, assess, and manage climate-related risks.

Metrics & Targets: The metrics and targets used to assess and manage relevant climate-related risks and opportunities.

GOVERNANCE

STRATEGY

RISK MANAGEMENT

METRICS & TARGETS

Resource Recovery and Circularity, Waste and Landfill

Increasing resource scarcity and regulations are driving the need for greater materials efficiency with lower energy consumption and emissions.

Therefore, the chemicals industry stands to benefit from developing products that enhance customer efficiency and are cost-effective. Companies that develop these solutions can benefit from increased revenues, market share, stronger competitive positioning, and enhanced brand value. Presently, only about 10% of EOL LIBs in Australia are made available for recycling and most end up in landfill. With support from Lithium Australia, the Group continues to investigate methods to utilise these waste products into sustainable solutions. The Group's main goal is to reintroduce the recycled products as raw material back into the market and help reduce environmental impacts caused by the mining of limited new materials. Improper disposal of EOL batteries also poses a contamination threat to the environment that includes heavy metal migration and fire risks. Recovery of battery metals is important as they are limited resources with rapidly escalating demand that cannot be met solely by mining. Recycling is the key to changing the global practice and reliance on virgin materials only. This will continue to be the Company's focus and will contribute to solving climate-related risks.

At Envirostream, we receive many EOL batteries comprising of different chemistries, shapes, and sizes such as household batteries and electrical vehicle batteries. Lithium-ion batteries are shredded and processed to capture the active metals which are later sold back into the market, refined, and used to produce new lithium-ion batteries.

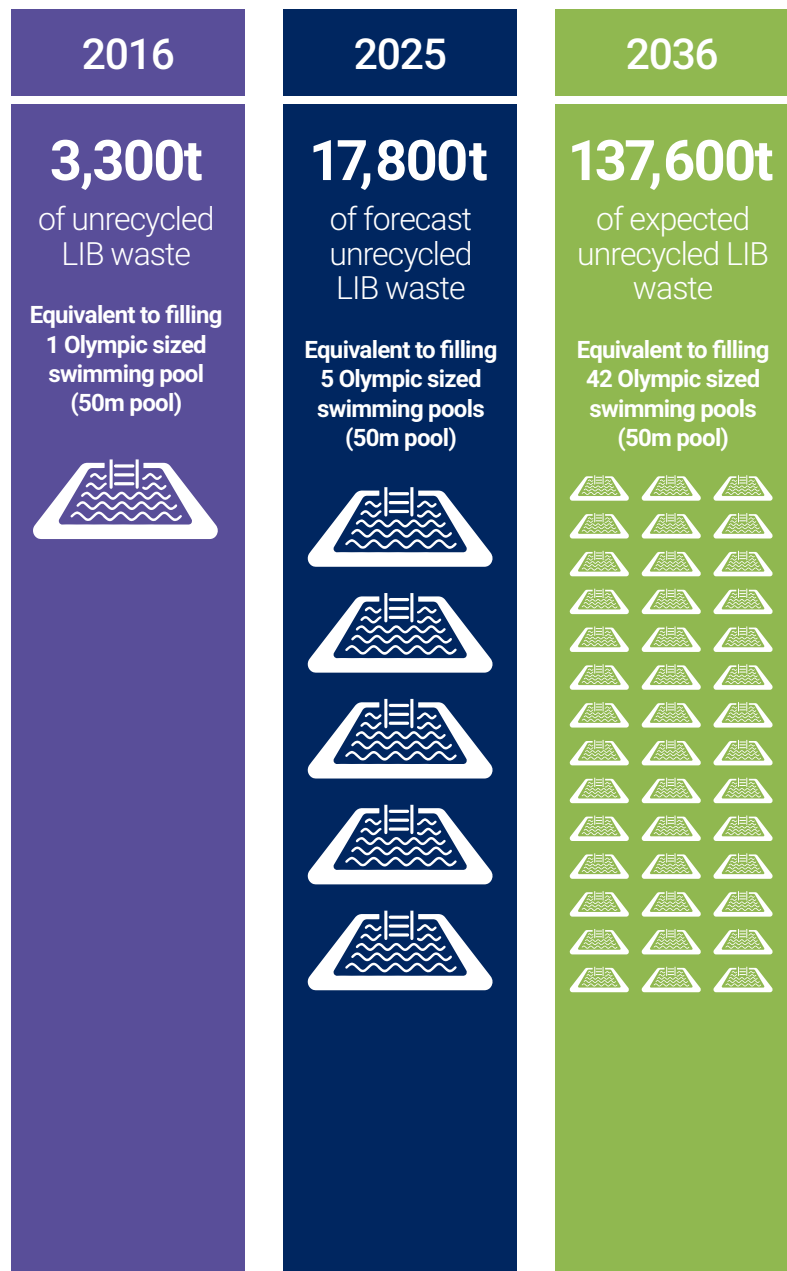
Case Study

LIB Waste Outlook

Lithium-ion batteries (LIB) waste in Australia is set to increase significantly over the next decade. When not in use, LIBs generate large amounts of energy and present a significant fire hazard.

To capture opportunities and avoid hazards, LIBs must be dealt with appropriately through recycling when entering waste streams. In 2016, only 2% of Australia's LIB waste was recycled. It is estimated that LIB waste will continue to grow by 20% per annum and could exceed 100,000t by 2036 (Low Case).

Significant potential exists for additional recycling volumes at Envirostream in the future.



Case Study

Bunnings Collection Bins

Envirostream's national collection scheme with Bunnings - Envirostream executed an exclusive contract with Bunnings for the collection of spent batteries.

In preparation for the Battery Stewardship Scheme (BSS), Bunnings and Envirostream have worked to ensure that drop-off points for spent batteries within the Bunnings infrastructure are not only convenient for customers but also facilitate efficient collection of those batteries by Envirostream.



During FY2022, Envirostream was granted a 99-year operating licence from EPA Victoria for its activity site in Campbellfield, Victoria. The prescribed activities allow Envirostream to reprocess specified electronic waste, including spent batteries, at a capacity exceeding 500 tonnes per annum. By the close of FY2022, we have grown our national network of over 700 accredited B-cycle drop-off locations with its associated partners supplying EOL batteries. This includes its newly executed exclusive contract with Bunnings for the collection of spent batteries. More information on the partnership with Bunnings can be found in the case study.

VSPC regards resource recovery and circularity as one of the keys to sustainable and cost-effective manufacture of LFP. We aim to be a leader in this area through incorporating recycled battery materials such as lithium and waste iron sources into its LFP product and has already demonstrated the suitability of the RC Process to use these materials.

For VSPC, resource recovery involves recovery and utilisation of valuable components from what would conventionally have been regarded

as a waste stream. The recovery of lithium as lithium phosphate from the black mass (cathode & anode materials) produced when EOL batteries are recycled, is a suitable feedstock for LFP manufacture.

In FY2022, VSPC's RC Process successfully manufactured LFP at lab scale from lithium phosphate recovered from Envirostream battery waste and has demonstrated the manufacture of iron (II) oxalate from magnetite waste from Tronox. We also received a patent for our "Method of making lithium metal phosphates" providing 20 years of IP protection in Australia.

The process has the potential to reduce the number of steps from the mining of ore to the production of battery cathode materials and, ultimately, new LIBs. This process requires lower energy consumption overall, creates higher yields from raw materials, and reduces chemical inputs. At VSPC, we also recycle paper, cardboard, plastic, and metal from our site via the municipal recycling bin to minimise waste generation.

The largest risks associated with resource recovery are ensuring the recovered products meet required quality standards and that the

recovery process is economically viable to continue at a large scale. Lithium Chemicals' proprietary extraction process LieNA[®], can repurpose mine wastes arising from current hard rock physical separation methods, by converting them into high quality lithium chemicals.

At present, fine and/or low-grade spodumene is generally discharged to either waste or tailings. LieNA[®] can recover lithium from this type of material, representing an opportunity to increase ore reserves and improve resource sustainability without increasing the scale of existing mining operations.

Successfully demonstrated that the VSPC RC Process can use recycled lithium phosphate and iron wastes to make LFP



Case Study

EV and ESS trials

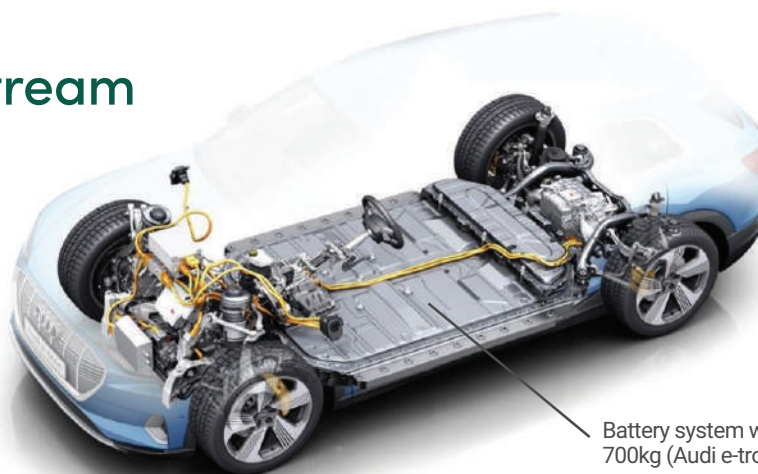
During FY22, Envirostream established relationships with electric vehicle ('EV') manufacturers in Australia seeking end-of-life (EOL) solutions for their vehicle batteries.

Battery volumes available for recycling are expected to significantly increase from EV's and energy storage systems ('ESS') over the balance of the decade. In preparation for this, work has commenced to ensure EV and ESS batteries can be efficiently dismantled and recycled.

Since the start of the year, Envirostream has undertaken trials for several EV manufacturers to recycle their battery packs and report back findings. The knowledge gained by Envirostream is important to ensure readiness for the expected increase in future EV volumes.



Envirostream is also in partnership with Tier 1 EV manufacturers



Battery system weight: 700kg (Audi e-tron)

The Envirostream process



Water and Wastewater Management

Lithium Australia recognises water as a scarce resource and will strive to reduce our freshwater usage and minimise wastewater. This will be achieved through efficient use of water and the recycling or repurposing of wastewater where feasible.

At Envirostream, the wastewater produced is considered reportable priority waste (RPW) and is a requirement of the Environmental Protection Authority (EPA) to be controlled and tracked following the RPW guidelines and requirements. In accordance with the EPA requirements, these systems have been implemented. We are also in the process of developing a water treatment plant that will allow process water to be recycled and reused. We have implemented a plan to improve stormwater management at our Campbellfield site. This plan was endorsed by the EPA. Site tanks are currently in place to capture stormwater and reduce the use of potable water. The stormwater captured is not contaminated with waste from battery recycling activities. This is due to all battery recycling activities being completed undercover, inside the factory, with internals being fully banded.

From August 2021 to June 2022 the Campbellfield facility consumed 417kL of water. This included consumption for process, toilets, kitchen, factory cleaning and dust control. In FY2022 (July 2021 to April 2022), Envirostream produced approximately 36.3kL of wastewater.

VSPC's approach to management of water usage is to further optimise the RC Process by continuously reducing water usage, selecting technologies that allow water use to be minimised through efficient production of demineralised water, and through recycling or repurposing of wastewater streams. The

Approximately
25kL of wastewater
at VSPC was **reused**
in **FY22**



key drivers for this are selecting demineralisation technologies that maximise the recovery of pure water and minimise the reject mineral containing stream. The reject mineral containing stream will be repurposed for cleaning of equipment and plant process use (e.g., cooling tower make-up). The solids content of slurry process steps will be maximised so as to minimise demineralised water requirement and energy use in spray drying. All personnel are trained on the requirements for handling and disposing of wastewater.

At VSPC, approximately 140kL of potable water is purchased each year from Queensland Urban Utilities (QUU). Approximately 50kL of wastewater is generated per year from the demineralisation water plant, of which about 50% is repurposed for cooling tower make-up and off-gas scrubbing. We have a trade waste licence with QUU for the disposal of excess demineralised water reject and rinse water from

cleaning laboratory equipment. Wastewater containing significant levels of chemical contaminants are collected in IBC tanks and disposed of via a licensed waste disposal facility (currently Cleanaway). Approximately 6kL of this contaminated wastewater is generated annually.

Sustainable Products

Provision of sustainable products is one of the main objectives of the Company. VSPC and Envirostream both possess significant business advantages given that lithium-ion batteries are expected to be a key element in society's energy transition to renewables.

Envirostream owns and operates EPA-approved battery facilities in Melbourne. To meet surging demand, plans are underway to expand activities across Australia for all batteries. During the reporting period, the Laverton site in Victoria

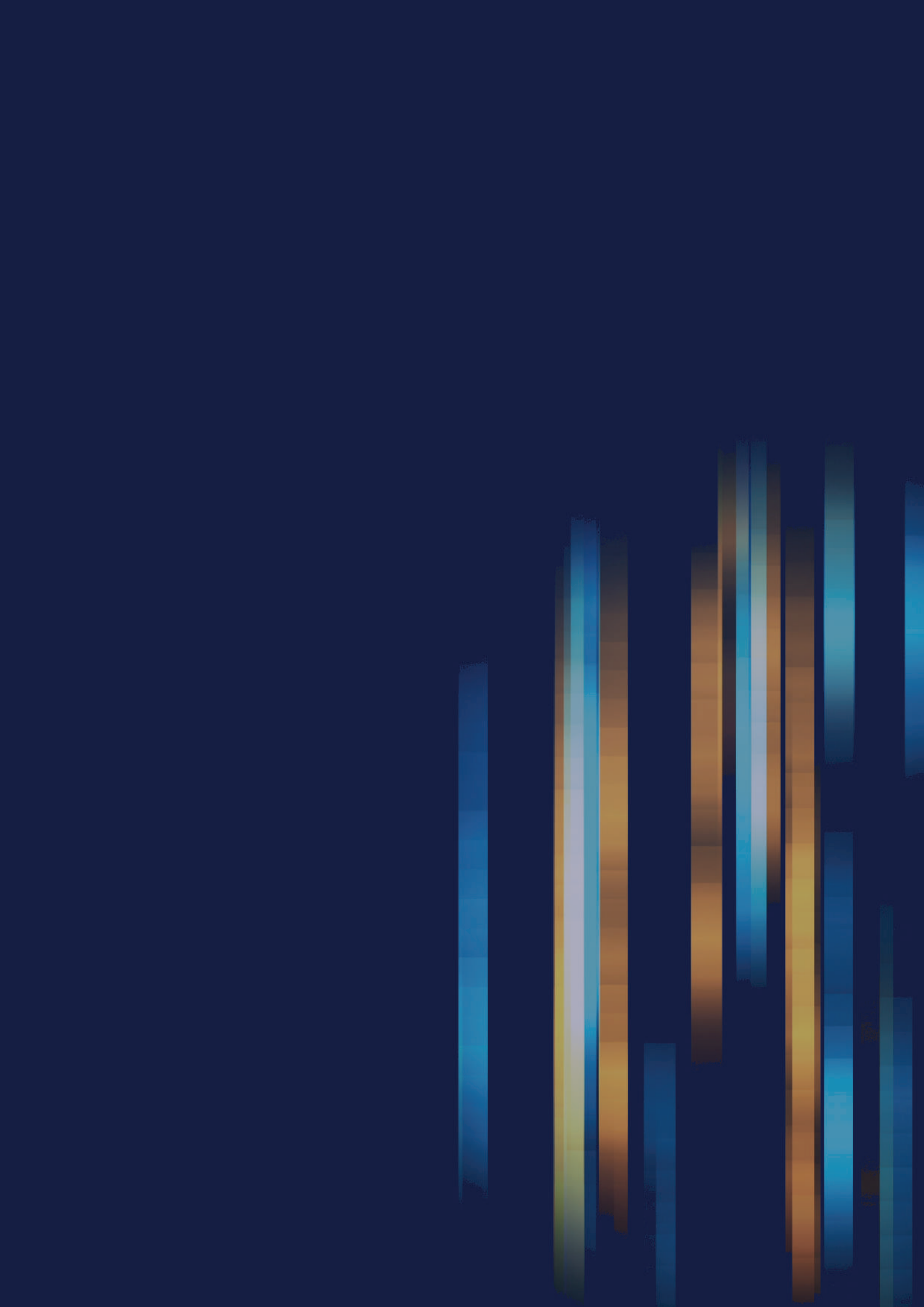
became fully commissioned and operational which will increase storage capacity by 300% and sorting capacity by 100%. International patent applications were also submitted to ensure we can continue to grow our battery recycling capabilities.

VSPC's LFP product is currently at lab and pilot plant scale. From the beginning, our management approach has been to focus on nickel and cobalt free cathode materials and to demonstrate the potential to incorporate lithium, iron and phosphate from recycled batteries and other waste streams into the LFP product. The integration of recycled battery materials and waste iron sources into the LFP, ensures our product is sustainable. This year, a study was conducted that demonstrated the advantages of VSPC's RC Process relative to competing LFP manufacturing processes. The focus for FY2023 is to further optimise the product and process, enhancing sustainability.

Firewalls at Envirostream's Campbellfield Facility.







Lithium Australia

Lithium Australia's FY22 Sustainability Report was prepared in collaboration with sustainability consultants Futureproof Sustainability. For more information, visit their website: futureproofconsulting.com.au

Level 1,
677 Murray Street
West Perth WA 6005
T: +61 8 6145 0288

lithium-au.com