Sustainable lithium technologies
Reducing the environmental footprint of the energy industry

Low emissions
Low cost
Product recycling
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COMPETENT PERSON’S STATEMENT

The information in this report that relates to reporting of Exploration Results is based on and fairly represents information and supporting documentation prepared by Adrian Griffin, a member of the Australasian Institute of Mining and Metallurgy. Mr Griffin is a shareholder in, and managing director of, LIT and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration. He is qualified as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Griffin consents to the inclusion in this report of the matters based on information in the form and context in which it appears.
The lithium power management revolution
What’s it all about?

It’s about the biggest change in energy management since the industrial revolution.

It’s about batteries.

• Renewable power on demand 24/7 thanks to lithium ion batteries (“LIBs”)
• Completely portable energy

Lithium Australia is about environmental stewardship

• Better resource utilisation (less mining)
• Less material movements (less emissions)
• No roasting (less greenhouse gases)

LITHIUM AUSTRALIA is the only company capable of full integration of low-energy processes to convert mine-waste, or primary lithium minerals, to LIB cathode materials.
From mine gate to cathode materials

Lithium Australia to advance commercialization of the SiLeach® and VSPC processes to generate cathode materials from a wide range of lithium sources.

- the only company to recover lithium from all silicates without roasting,
- processing materials that are otherwise not able to be processed,
- positions in most major lithium provinces
The future is about sustainability

Presently more lithium is discharged to waste streams than gets into the supply chain.

In Australian a negligible quantity of expended LIBs returned for recycling.

Lithium Australia recognizes the impediments of a rapidly expanding battery industry:

- susceptibility to supply shortages,
- ethical constraints of conflict metals,
- embedded child labour,
- low recycling rates,
- under-utilized waste streams.

Lithium Australia is striving towards the “circular economy” for the production and utilization of LIBs and is integrating the best technologies to achieve that outcome.
Sadisdorf – the German example

Tin mineralisation as veins in greisen. Pervasive lithium mineralisation.

The means to commercial success:
• Low-cost processing
• Recovery of all metals

Conventional processing for Sn, W

SiLeach® on the tail to recover:
• Lithium
• Potassium
• Silicon
• Aluminium
• Caesium
• Gallium

This diversity will breath life into Sadisdorf and feed the European battery industry – it is resource sustainability!
SiLeach®- superior processing technology

SiLeach® is designed to rapidly digest ANY silicate mineral. It is a hydrometallurgical process that, unlike traditional processes, requires no roasting to recovery lithium and a range of co-products.
Aspirational statement

SiLeach™ has the potential to change the cost curve for hard-rock lithium production.

Global lithium carbonate operating costs (after Roskill, 2017) and target SiLeach® costs after by-product credits.
Development of battery cathodes

Lithium Australia is negotiating procurement of advanced cathode production technology by the acquisition of the Very Small Particle Company Limited (VSPC).

The VSPC advantages:
- innovative, patent protected chemical process,
- delivery of very precise chemistry to complex metal oxides (cathode materials),
- fast track to commercialization of superior cathode production.

Integrating VSPC technology with SiLeach® will create the ability to process waste materials and generate new cathodes for the battery industry. The combined processes will create an unprecedented uplift in value, beyond the production of lithium carbonate, with a low environmental impact.
The Lithium Australia Plan

Evolutionary technology to produce battery chemicals in the lowest cost quartile.

LIT’s principal goal will be achieved by:
• commercialising LIT’s 100% owned SiLeach® lithium extraction technology,
• recommission Brisbane pilot plant,
• develop supply partnerships, and
• integrate with SiLeach®.

Recovery of metals from battery waste.

Regeneration of cathode materials to close the cycle.
The sweet spot in the value chain

SiLeach® plus VSPC can generate lithium cathode compounds from waste materials.

- 1 t of lithium carbonate = $10,000/t
- 1 t of lithium carbonate = 5 t cathode material (LFP)
- Each tonne of LFP sells for $20,000 to $35,000/t
- Value uplift 10 to 15 times

The production of cathode materials provides the highest uplift in the energy metal cycle.

Lithium Australia is the only company with the technology to transition from mine waste to LIB cathode materials.
LIT subsidiary BlackEarth Minerals prepares for IPO

Graphite explorer BlackEarth Minerals NL (BEM) holds a significant exploration portfolio in Western Australia, as well as graphite projects in Madagascar.

BEM will list on the ASX later this year, with LIT as a major shareholder (a priority entitlement will be offered to LIT shareholders).

LIT has assembled an experienced management team for BEM and LIT chairman George Bauk will represent LIT on the BEM board of directors.

While LIT considers graphite synergistic with its other assets, its decision to have BEM operate as a separate entity was made in the interests of maximising the effectiveness of the LIT management team.
Lithium Australia – corporate snapshot

FSE-listed: ticker 3MW
ASX-listed: ticker LIT

BOARD OF DIRECTORS

George Bauk
(non-executive chairman)
Expert in specialty metals, particularly rare earths – project management, marketing and financing.

Adrian Griffin
(managing director)
Exploration, production, mine management, processing technology.

Bryan Dixon
(non-executive director)
Corporate, finance, mine development.

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Price (AU$) as of 13 Nov 2017: 0.25
Market capitalisation (AU$): 87 M
Shares outstanding (LIT): 343M
Partly paid shares (LITCE): 133M
Cash position (AU$): 17 M
Debt position (AU$): NIL

Top 10 holders at 28 July 2017: 24.4%

JP Morgan Nominees: 5.66
Citicorp Nominees: 4.84
HSBC: 3.73
Adrian Griffin: 2.61
Parkway Minerals NL: 2.23
Horn Resources: 1.25
BNP Paribas: 1.04
Alan Jenks: 1.14
Apollinax Inc.: 1.00
TA Securities Berhad: 0.96
Why invest in Lithium Australia?

✓ Contributing to a sustainable, low-emission lithium future through:
  ➢ metal extraction from waste minerals,
  ➢ energy metal recycling from spent batteries,
  ➢ high-quality cathode production.

✓ World-first, 100% owned technology – SiLeach®

✓ Developing the world’s best cathode materials – VSPC

✓ The ONLY company with full process integration

✓ Strategic partnerships & alliances in the world’s major lithium provinces

✓ Experienced management