

16 November 2022

Calix AGM 2022 Presentation Pack

Sydney, Australia | **16 November 2022** – Australian environmental technology company, Calix Limited (ASX: CXL) ("Calix" or "the Company") is pleased to provide a copy of the presentation materials for the 2022 Annual General Meeting to be held at 9.00am this morning.

Shareholders and guests can participate in the meeting:

- **Online**: via the Lumi platform using a computer or mobile device at web.lumiagm.com/326600530
- In Person: at the offices of Hamilton Locke, Level 42, Australia Square, 264 George Street, Sydney.

-ENDS-

This announcement has been authorised for release to the ASX by:

Phil Hodgson Managing Director and CEO Calix Limited 9-11 Bridge Street Pymble NSW 2073 Ph +61 2 8199 7400

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About Calix

Calix is a team of dedicated people who are urgently developing great businesses, leveraging our patented technology, that deliver positive global impact.

The core technology is being used to develop more environmentally-friendly solutions for water treatment, CO₂ mitigation, biotechnology, advanced batteries, and more sustainable mineral and chemical processing.

Calix develops its technology via a global network of research and development collaborations, including governments, research institutes and universities, some of world's largest companies, and a growing customer base and distributor network for its commercialised products and processes.

Because there's only one Earth - Mars is for Quitters.

Website: https://www.calix.global/

Twitter: @CalixLimited
YouTube: <u>CalixLimited</u>

For more information:

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Media enquiries media@calix.global Darren Charles **CFO and Company Secretary** dcharles@calix.com.au +61 2 8199 7400



Calix Limited
Annual General Meeting
16 November 2022



Introduction to the Lumi platform Darren Charles



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Online attendees - text question process



Select the messaging tab and type your question in the Ask a question box.

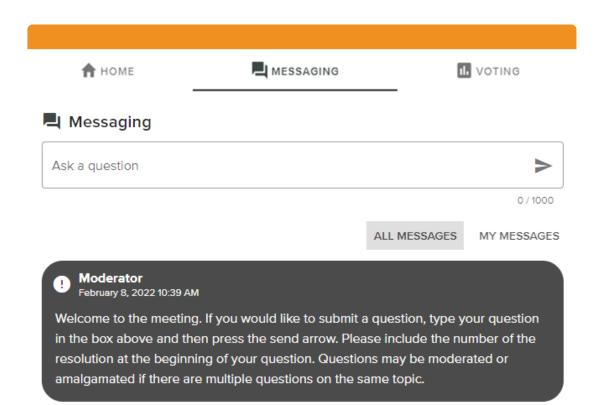


Press the send arrow to submit your message for review.





Your submitted questions along with any written responses from the meeting team can be found by selecting My Messages.







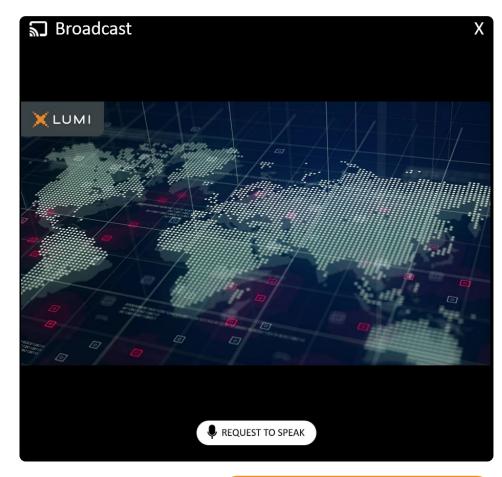
Online attendees - audio question process



Click on the REQUEST TO SPEAK button at the bottom of the broadcast window. The meeting broadcast will be replaced with the audio questions interface.

Confirm your name, enter the topic of your question and click **Submit Request**.

Follow the instructions to grant access to your microphone and join the queue.







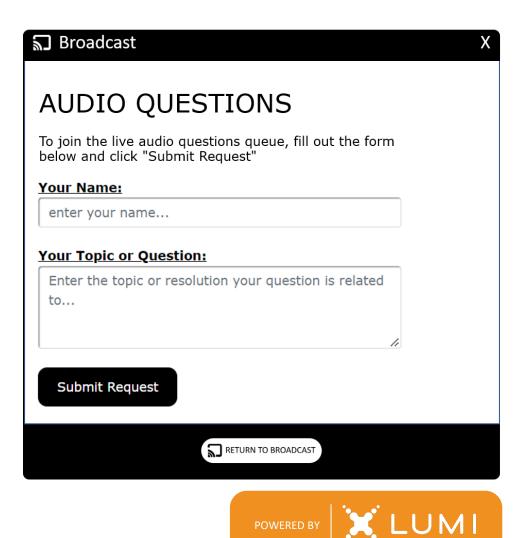
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Online attendees - voting process



When open, the vote will be accessible by selecting the voting tab at the top of the screen.



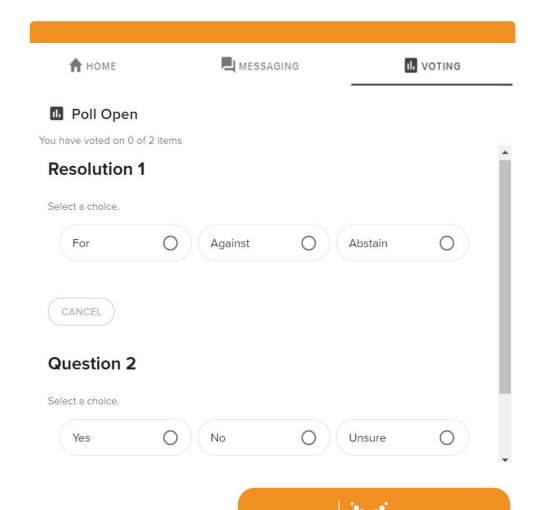
To vote, simply select the direction in which you would like to cast your vote. The selected option will change colour.

For

Against

Abstain

There is no submit or send button, your selection is automatically recorded. You can change your mind or cancel your vote any time before the poll is closed.







Welcome & introduction to the AGM Peter Turnbull, AM



Calix Limited
Annual General Meeting
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Board of Directors





Peter Turnbull, AM Non-Executive Chair



Helen Fisher
Non-Executive
Director



Jack Hamilton Non-Executive Director

Experienced Chair and Non-Executive Director with significant board and senior executive experience in the Australian and global resource, energy and technology commercialisation sectors.

Non-Executive Director of Karoon Energy Ltd. (ASX: KAR), Chair of medtech Auxita Pty Ltd, Chair of Airlie Energy, Chair of QADO Group/QADO Ventures and President of the Chartered Governance Institute (London).

Chair of Calix Remuneration and Nomination Committee, and Member of Audit and Risk Management Committee. CEO and Managing Director of Bio Capital Impact Fund (BCIF), a Non-Executive director and Chair of the Audit and Risk Management Committee of Paradigm Biopharmaceuticals Ltd (ASX:PAR) and Chair of the Victorian branch of AusBiotech.

Previously a partner of Deloitte for over 11 years, and led Deloitte's life sciences practice in Australia for 5 years, specialising in the financial services sector, with significant M&A transactions and strategic tax advice to publicly listed and large multinational companies.

Chair of Calix Audit and Risk Management Committee and member of the Rem and Nom Committee 30 years multidisciplinary experience in local and overseas energy industries, including as a Director of NWS Ventures (Woodside North-West Shelf project).

Currently a Non-Executive Director of Hazar Group (ASX:HZR). Previous Non-Executive Director positions include AnteoTech Ltd (ASX:ADO), Renu Energy (ASX:RNE) and DUET Group (ASX:DUE).

Chair of Calix Technology Committee, and member of Audit and Risk, and Rem and Nom Committees.



Phil Hodgson Managing Director & Chief Executive Officer



Dr Mark Sceats Executive Director And Chief Scientist

14 years of multidisciplinary experience with Shell, including as the General Manager and Alternate Director of its subsidiary Fuelink Pty Ltd, a \$700m revenue, 300-employee distribution and sales subsidiary.

7 years running a private consultancy providing strategy and M&A services across energy, food, infrastructure and water sectors.

Joined Calix in 2013 as CEO, became a Director in 2014 and is a member of Calix's Technology Committee. Co-founder of Calix, and a member of Calix's Technology Committee.

Qualified physical chemist with over 52 years' experience, numerous academic roles, and numerous fellowships and recognitions.

CEO of the Australian Photonics CRC for 14 years.

Author of more than 165 academic papers in physical chemistry and inventor of 55 patented inventions.

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Industrial decarbonisation

Calix's mission is being propelled by net-zero commitments

Government policy

~90% of global GDP now under net zero

commitments.1

Investor activity

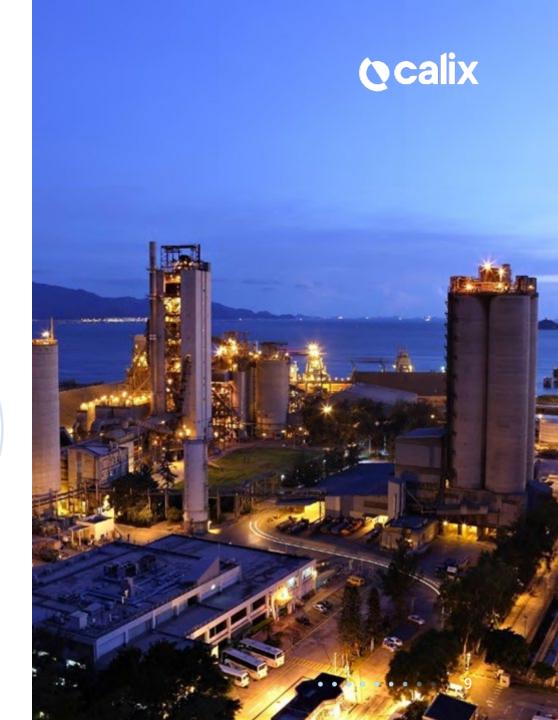
Net zero spending

US\$42tn

assets of signatories to the '2022 Global Investor Statement to Governments on the Climate Crisis'.² US\$275tn

Estimated spend required by 2050 to fund the global energy transition.³

- https://zerotracker.net/
- 2. 2022 Global Investor Statement to Governments on the Climate Crisis. The Investor Agenda
- 3. The net-zero transition: What it would cost, what it could bring. McKinsey Sustainability.



FY22 financial highlights

Investment in growth

In FY22 Calix invested significantly in:

- 1. **People**, including ten new engineers, six people in R&D, and one person in finance and business development;
- 2. Capital items to enhance and accelerate technology development; and
- 3. **Professional services** to advance commercialisation.

The combined focus on people and ongoing fiscal prudence has enabled Calix to grow multiple successful lines of business simultaneously into large addressable markets.



Calix Limited FY22 financial result highlights



A\$25m cash on hand 30 June 2022 (2021: A\$15.1m)



A\$18.5m FY22 Sales revenue(2021: A\$19.2m)



A\$5.2m FY22 Gross profit(2021: A\$5.0m)



28% FY22 Gross margin (2021: 26%)

Solving global challenges

Ocalix

One core technology platform

Five lines of business

Multiple environmental business opportunities



Water

treatment &

aquaculture

BECAUSE MARS IS FOR QUITTERS Sustainable **Processing**

Spodumene, iron, steel & others

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Advanced **Batteries**

> Advanced cathode & anode materials

Biotech

Crop protection, marine coatings, health & pharma







Accelerating the transition to net zero by seeking to provide the most compelling decarbonisation solution for global cement and lime

Market trends

- >€80/tonne average EU carbon price for H1 2022.¹
- U\$\$85/tonne US tax credit for stored CO₂.
- **1.4 billion tonnes** of CO₂ from cement will need to be captured and stored annually by 2050 to reach net zero. ²

FY22 achievements

- €15m (7%) equity deal with Carbon Direct.
- Financial Investment Decision (FID) passed for Leilac-2.
- 63% growth in project pipeline.



Global Cement & Concrete Association. Getting to net zero



Sustainable Processing

Decarbonisation solutions for chemical and mineral processing

Market trends

- Electrification of industry
 - 45% by 2035: industrial manufacturing target.¹
- Increasing demand for green minerals
 - 6x growth in lithium carbonate and equivalents market expected this decade.

FY22 achievements

- \$20m grant for sustainable lithium salt JV with Pilbara Minerals
- Zero Emissions Steel TechnologY (ZESTY) development
 - Multiple iron ore types successfully processed with hydrogen

SDG Impact











2. Lithium mining: How new production technologies could fuel the global EV revolution - McKinsey Apr 2022



(calix

Advanced Batteries

Novel structured high power electrode materials

Market trends

- Increasing demand for economical and sustainable energy storage options.
- Shift to simple, affordable and safe battery chemistries.

FY22 achievements

- From prototyping to pilot production of up to 200kg of Lithium Manganese Oxide (LMO) material.
- Novel material testing shows:
 - Suitability to high power applications.
 - Stable structure and performance after >5500 cycles.



Biotech

Novel bioactive materials for multiple global applications

Market trends

- Demand for non-chemical alternative crop protection products.
 - Existing chemicals and pesticides are being deregistered.
- Need to reduce use of copper based marine coatings
- Rise in antimicrobial-resistant bacterial infections.

FY22 achievements

- BOOSTER-Mag approved by APVMA
- Trials show strong efficacy of MgO based marine coatings
- Bioactive materials found to suppress antibiotic resistant bacteria
 - Tier 1 partner in \$112m funded project to develop and commercialise antimicrobial resistance solutions.¹



1. Cooperative Research Centre (CRC) Solving Antimicrobial Resistance in Agribusiness, Food and Environments (SAAFE) project

Water

Magnesium Hydroxide Liquid "MHL" – a safe alkali chemical

Market trends

- Wastewater discharge limits are becoming tougher.
- Need for environmentally friendly alternatives to existing products, such as caustic soda.

FY22 achievements

- Improved gross margins.
- Continued entry into new USA markets.
- Positive results from trials in targeted Asia growth markets.







Calix's sustainability commitments

To improve environmental, social and governance practices, Calix has:

- Reaffirmed its commitment to the UNGC;
- Committed to measuring, monitoring and reducing its carbon footprint;
- Installed solar panels at Bacchus Marsh to power the BATMn all electric calciner; and
- Committed to measuring and reducing waste.

BECAUSE MARS IS FOR QUITTERS.

Governance structure and practices

To further strengthen Calix's governance structure and practices, in FY23, the board will:

- Introduce a new Code of Conduct and Board Charter;
- Establish a new Sustainability Board Committee; and
- Update the charters for the Audit and Risk Committee, Remuneration and Nomination Committee, and Technology Committee.

The board continues to maintain a proactive and prudent process of board renewal, with the next stage of board renewal well underway:

- Appointment of additional directors, with the requisite skills and experience to bolster Calix's growth strategies.
- Commitment to meet or exceed the ASX Corporate Governance Council guidelines with respect to diversity.





Thank you

Calix Limited
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16 November 2022





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Items of Business - Item 1



Financial Report

Consideration of Financial Report:

"To consider and discuss the Financial Report, including the Directors' Report and the Auditor's Report, for the year ended 30 June 2022."

There is no vote on this item.

21

Items of Business - Resolution 1



Remuneration Report

To consider and, if thought fit, to pass the following Resolution as an ordinary resolution:

"That the Remuneration Report of the Company for the financial year ended 30 June 2022, which forms part of the Directors' Report, be adopted."

For Resolution 1, the proxy votes received are as follows:

Proxy votes: Resolution 1

For	67,594,938
Against	987,264
Open	1,908,030
Exclusions	23,562,917
Abstained	1,423,924

Items of Business - Resolution 2



Re-election of Peter Turnbull

To consider and, if thought fit, to pass the following Resolution as an ordinary resolution:

"That Peter Turnbull, who retires under the Constitution and, being eligible, stands for re-election, be re-elected as a Director."

For Resolution 2, the proxy votes received are as follows:

Proxy votes: Resolution 2

For	82,484,274
Against	3,997,212
Open	8,841,802
Exclusions	-
Abstained	153,785

Items of Business - Resolution 3



Non-Executive Director Fee Pool

To consider and, if thought fit, to pass the following Resolution as an ordinary resolution:

"That for the purposes of ASX Listing Rule 10.17 and Clause 13.19 of the Company's Constitution, the maximum aggregate amount of directors' fees that may be paid to the Company's Non-Executive Directors per annum is increased by \$400,000, from \$500,000 per annum to \$900,000 per annum."

For Resolution 3, the proxy votes received are as follows:

Proxy votes: Resolution 3

For	64,523,245
Against	5,469,589
Open	10,373,575
Exclusions	8,790,074
Abstained	6,320,590

Online attendees - voting process



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To vote, simply select the direction in which you would like to cast your vote. The selected option will change colour.

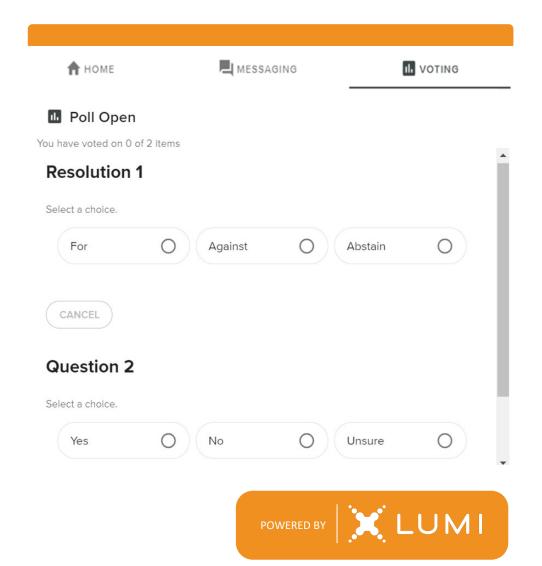
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Calix Limited
Annual General Meeting
16 November 2022

Important Disclaimer



This presentation has been prepared by Calix Limited (ABN 36117372540) ("Company").

SUMMARY INFORMATION

This presentation contains summary information about the Company and its subsidiaries ("Calix") and their activities current as at 16th November, 2022. The information in this presentation is a general background and does not purport to be complete.

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FINANCIAL DATA

All dollar values are in Australian dollars (\$ or A\$) and financial data is presented as at or for the full financial year ended 30 June 2021, unless stated otherwise.

PAST PERFORMANCE

Past performance information given in this presentation is given for illustrative purposes only and should not be relied upon as (and is not) an indication of the Company's views on its future financial performance or condition. Investors should note that past performance, including past share price performance, of Calix cannot be relied upon as an indicator of (and provides no guidance as to) future Calix performance.

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This presentation contains certain "forward-looking statements". The words "expect", "future", "anticipate", "guidance", "guidance", "should", "could", "may", "will", "predict", "plan" and other similar expressions are intended to identify forward-looking statements. Forward-looking statements, opinions and estimates provided in this presentation are based on assumptions and contingencies which are subject to change without notice, as are statements about market and industry trends, which are based on interpretations of current market conditions. Forward-looking statements, including projections, guidance on future earnings and estimates are provided in a quarantee of future performance. Such forward-looking statements are by their nature subject to significant uncertainties and contingencies and are based on a number of estimates and assumptions that are subject to change (and in many cases are outside the control of Calix to be materially different from any future results or performance expressed or implied by such forward-looking statements. The forward-looking statements should not be relied on as an indication of future value or for any other purpose. No representation, warranty or assurance (express or implied) is given or made in relation to any forward-looking statement by any person (including the Company). In particular, no representation, warranty or assurance (express or implied) is given that the occurrence of the events expressed or implied in any forward-looking statements in this presentation will actually occur. Actual results, performance or achievement may vary materially from any projections and forward-looking statements are based. The forward-looking statements in this presentation on which those statements in this presentation to any forward-looking statements or any continuing obligations under applicable law, the Company disclaims any obligation or undertaking to provide any updates or revisions to any forward-looking statements or any change in events, conditions or circumstances or wh

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Calix at a glance

















28 patent families covering core technology & applications



Because Mars is for quitters.





Electrifying industrial processing 334KW solar installation



A\$25m Cash on hand









Industrial decarbonisation



Cement & lime decarbonisation

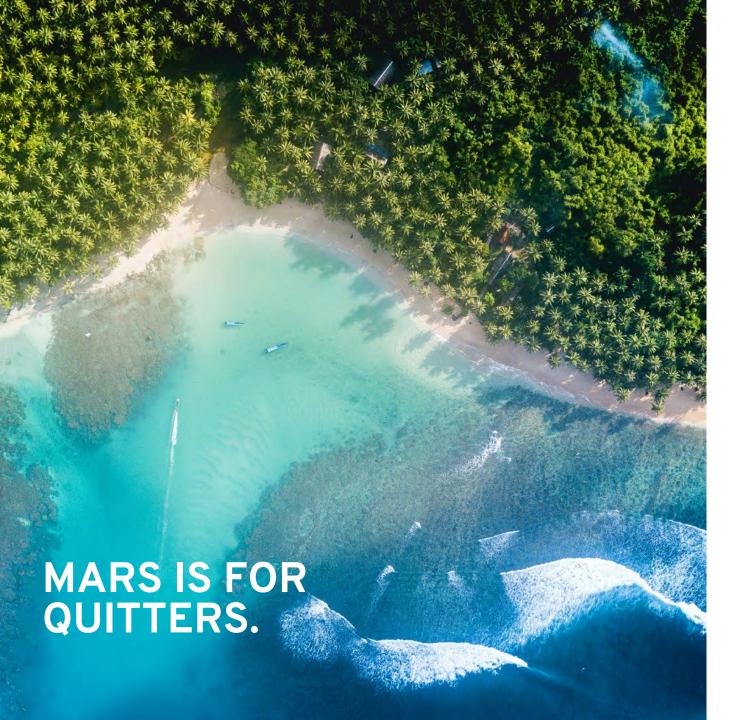


Green iron & steel

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8% of global emissions

7% of global emissions





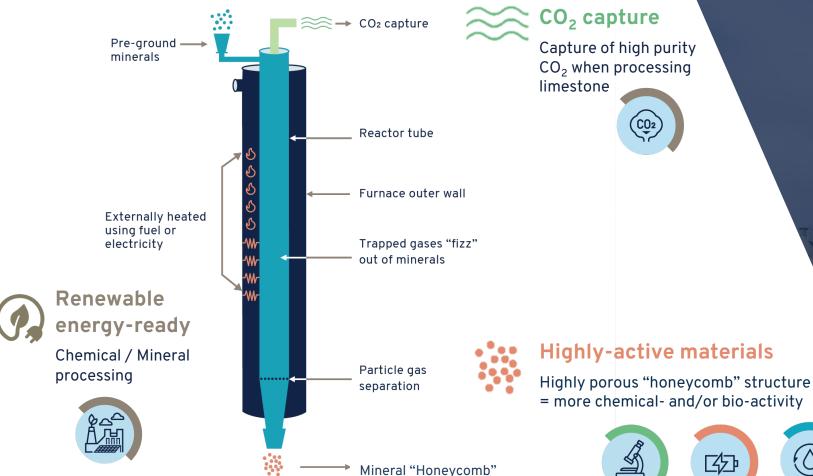
We believe our responsibility starts at home.

That's why we're driven to use our unique technology to repair and prevent future harm to it.

Because there's only one Earth, and it's already ours.

Calix's core technology platform

Industrial decarbonisation and environmental solutions



A new way to "heat stuff up"



28 patent families covering core technology and applications

Ocalix



>A\$120m has been invested to date in developing the technology



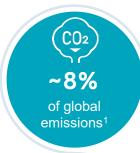




Industrial decarbonisation

Indispensable, carbon-intensive and hard-to-abate.





Cement & lime

- Over 4 billion tonnes global annual production.⁴
- Unavoidable emissions released directly from limestone.
- 1.4 billion tonnes of CO₂ from cement needs to be captured and stored annually by 2050 to reach net zero.⁴

~7% of global emissions²

Iron & steel

- 53% of global iron ore supplied by Australia.⁵
- 96% of Australian iron ore is haematite.6
- Decarbonisation solutions need to be resource efficient & compatible with various ore grades.



Materials for a clean economy

- Sustainable supply of essential minerals.
- 45% electrification of industrial manufacturing by 2035.⁷
- Reduced waste and CO₂ footprint.
- 1. Trends in global CO2 emissions; 2016 Report, The Hague: PBL Netherlands Environmental Assessment Agency
- 2. Climate change and the production of iron and steel. World Steel Association. 2021
- 3. Lithium mining: How new production technologies could fuel the global EV revolution McKinsey Apr 2022
- 4. Global Cement & Concrete Association. Concrete Future Roadmap.

- . www.statista.cor
- . Iron Ore Geoscience Australia
- 7. Electrification in Industrials. Deloitte Insights. August 2020
- 8. https://zerotracker.net/



Our industrial decarbonisation solutions

Calix's unique calcination technology separates the heat source from the chemical reaction, providing three pathways to industrial decarbonisation:



1. Enabling the electrification of industry

Energy agnostic and electrification ready, providing flexible and economical pathways for industrial processes to enter the electric age.



2. Enabling efficient capture of unavoidable emissions

With no additional chemicals or processes, Calix's technology is being developed to efficiently separate process CO₂ for low cost abatement of unavoidable emissions in cement and lime.



3. Enabling green industrial processing

Zero Emissions Steel TechnologY (ZESTY) uses renewable power and hydrogen for green iron and steel.

Innovative renewably powered, at-mine refining solutions enhance recovery of ore and create near zero-waste products.



Multiple environmental business opportunities



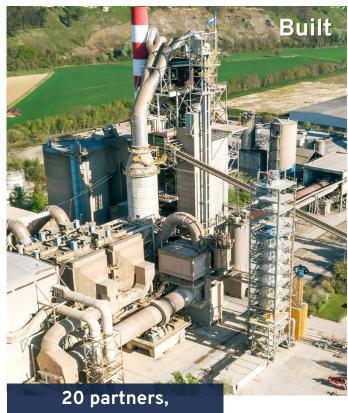
JV, licensing and spin-out strategies: value creation and fast-tracked commercialisation

		区位		CO ₂	Leilac
Water	Biotech	Advanced Batteries	Sustainable Processing	CO ₂ Mitigation	Leilac
Water treatment Aquaculture	Crop protection Marine coatings Health and pharma	Advanced cathode & anode materials	Renewable-powered mineral and chemical processing (Spodumene, iron, steel etc)	Cement Lime	CO ₂ mitigation for cement & lime
Common technology platform					
Growing direct / JV / licensing and / or equity farm-in / spin-out					7%, €15m equity farm-in CARBONDIRECT

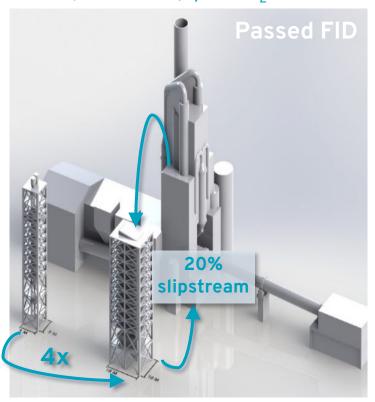
Leilac: Scaling Up Calix's Leilac Technology



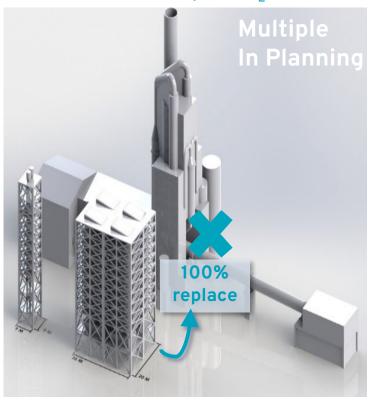
Leilac-1, Belgium 2019 25,000 tonnes / year CO₂



Leilac-2, Hanover 100,000 tonnes / year CO₂



Leilac-3 500,000 tonnes / year CO₂





















FY23 - material updates



Heidelberg Materials global licence executed

 The licence agreement applies to any Heidelberg Materials facility where the Leilac technology is installed.

- Heidelberg Materials operates 149 cement plants across five continents.

• The technology licence fee is a first-of-a-kind for the industry, comprising:

i. A royalty floor;

ii. A variable component linked to the European carbon price/value; and

iii. A royalty cap linked to costs versus alternative technologies.

 The agreement requires the royalty quantums to remain commercial-inconfidence.

• The technology licence is a perpetual licence with Heidelberg Materials.

Calix will retain all improvements to Calix IP.







	Project discussions	Initial scoping	Detailed scoping / MOU	Pre-FEED / BOD	FEED	FID + construction	Operational	Total
Aug 2021	21	7	4	1			1	34
Aug 2022	25	13	9	5		1	1	54
Nov 2022	33	15	9	O ADBRI 6 B≎RAL	TARMAC	1 Leilac-2	1 Leilac-1	67

- Pipeline growth: there are now 67 projects in the pipeline
 - Projects are $\sim 2/3$ cement and 1/3 lime, at average capacity of 500kTpa CO_2 for cement and 80 kTpa CO_2 for lime.
 - Leilac pipeline represents potential for over 20 Mtpa of CO₂ abatement projects.
- TARMAC project moves into FEED phase: 30kTpa lime facility with partial H₂ firing and CO₂ capture as part of HYNET project, UK.
- Adbri work continues on pre-FEED for a 20kTpa electric facility with CO₂ capture; Boral up to 120kTpa facility under review following cancellation of CCUS Hubs & Technologies program.¹

FY23 - material updates



<u>Pilbara Minerals JV and development of lithium salt</u> project

- Full Documentation is in final form for JV agreement with Pilbara Minerals (ASX:PLS) for mid-stream lithium refining project.
- The JV is supported by A\$20m in Australian Government funding announced under the Modern Manufacturing Initiative.
- The project aims to demonstrate significant benefits of Calix's renewably powered calcination technology for lithium refining, including:
 - Reduced product cost
 - Reduced carbon emissions
 - Reduced waste and CO₂ footprint
- At current lithium prices, the demonstration scale plant could generate ~US\$190m revenue for the JV¹ on an annual basis (Calix share ~US\$86m).
- Financial Investment Decision targeted H1 2023.
- 1. Trading Economics https://tradingeconomics.com/commodity/lithium as at 17 October 2022 @ 0.14 Yuan / USD = ~\$US74,610 per tonne Lithium Carbonate (LCE). Assumed Lithium Phosphate price = 85% LCE. Calix share of JV 45%



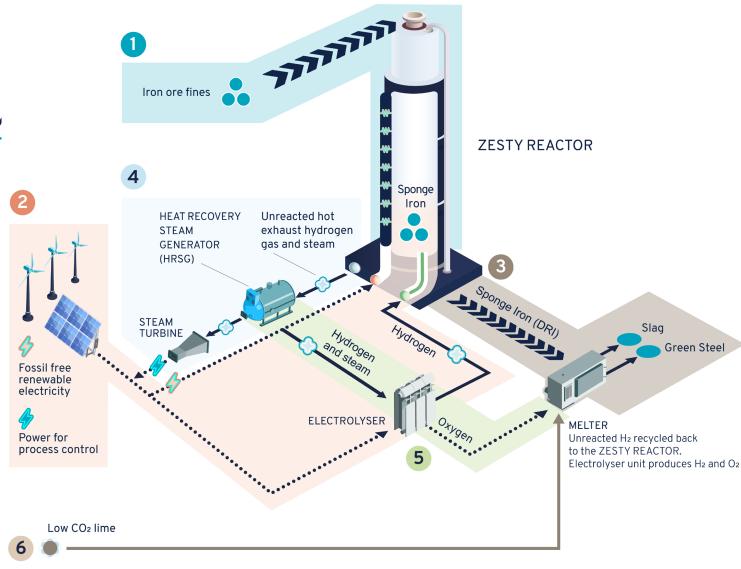
FY23 - material updates

Zero Emissions Steel TechnologY (ZESTY)

Calix awarded ARENA funding for ZESTY development

- Proposed 30,000 tpa annum, zero CO₂ emissions
 ZESTY-iron demonstration plant.
- A\$947,035 ARENA grant towards BOD & FEED study.
- About ZESTY:
 - Renewably powered
 - Hydrogen reduction
 - Compatible with multiple ore types
 - Compatible with fines
 - Targeting zero emissions Iron and Steel



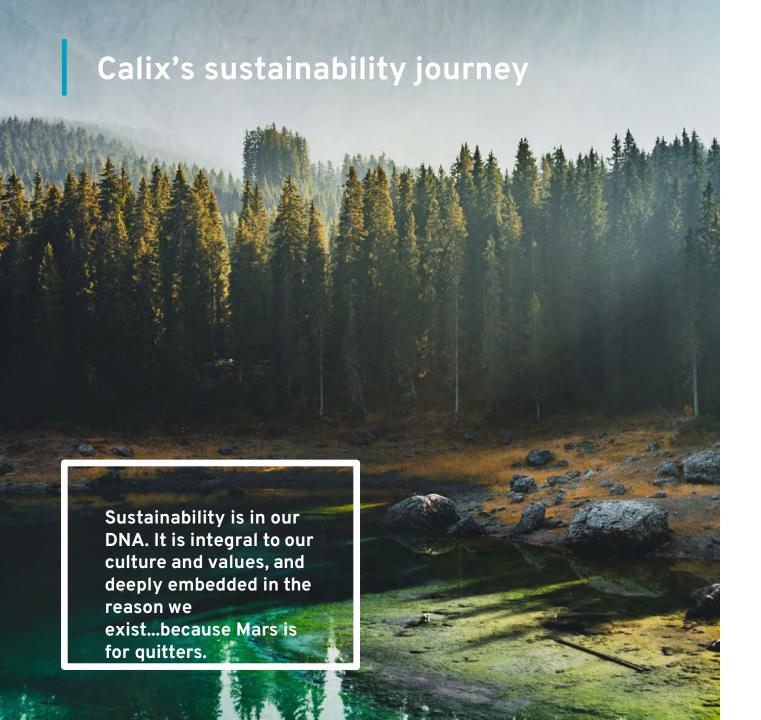


FY23 Material Updates

Equity raise: A\$60m institutional placement and A\$20m share purchase plan (SPP) to accelerate technology commercialisation

Application	A\$m
1. Accelerate commercialisation of Leilac's cement and lime decarbonisation technology.	38.0
2. Construct a lithium salt demonstration processing plant in JV with Pilbara Minerals.	17.5
3. ZESTY Green Iron / Steel – plant modifications, further trials and a FEED Study for 30kTpa Demonstration Facility	2.5
4. Transaction costs	~2.0
5. (SPP) Accelerate electrification and alternative fuels development	20
TOTAL	80.0







In FY22, Calix:

- Reaffirmed our commitment to the UNGC and integration of its Ten Principles.
- Continued to integrate the Sustainable Development Goals in our lines of business.
- Installed 334KW of solar power to cover our energy consumption in Bacchus Marsh.
- Committed to measuring and reducing our impact.

Calix's sustainability ambitions:

- Diversity across all levels of management.
- Ensure human rights are strictly upheld throughout our supply chain and operations.
- Zero incidents of bribery and corruption.
- 100% sustainable material inputs by 2030.

Calix's FY23 priorities...

Continued acceleration – especially decarbonisation projects...

- Successfully completed
- On track
- Watch point





Water

Water treatment Aquaculture

US: At least

- 2 new plants
- A second major new US state entry

China:

Re-establish market entry

EU:

Re-establish market entry



Biotech

Crop protection Marine coatings Health & pharma

Crop Protection

• 3rd licence agreement

Marine Coatings

- Successful phase 2 trials with MTA partners
- Next new biotech application...health/pharma
- Successful initial in-vivo studies



Advanced Batteries

Advanced cathode & anode materials

- First battery module commercial format
- Basis of Design demonstration facility for cathode production
- At least 1 new chemistry = pouch cell success



Sustainable Processing

Renewable-powered mineral & chemical processing

Refractories

 Convert MOU to full Project or licence agreement

Spodumene

- Full JV agreement
- Successful FEED study leading to FID

Iron and Steel

- Successful expanded ore program
- Basis of Design: Demonstration facility



CO₂ mitigation for cement & lime

- Convert at least two MOUs to full project / licence agreements – "full-scale" application
- Convert at least 2 projects from BODs to FEED studies
- Leilac-2 long lead items procured, site works commenced



Thank you

Calix Limited
Annual General Meeting
16 November 2022



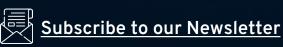
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Board of Directors, Equity Structure



Glossary



Board of Directors





Peter Turnbull, AM Non-Executive Chair



Helen Fisher
Non-Executive
Director



Jack Hamilton Non-Executive Director

Experienced Chair and Non-Executive Director with significant board and senior executive experience in the Australian and global resource, energy and technology commercialisation sectors.

Non-Executive Director of Karoon Energy Ltd. (ASX: KAR), Chair of medtech Auxita Pty Ltd, Chair of Airlie Energy, Chair of QADO Group/QADO Ventures and President of the Chartered Governance Institute (London).

Chair of Calix Remuneration and Nomination Committee, and Member of Audit and Risk Management Committee. CEO and Managing Director of Bio Capital Impact Fund (BCIF), a Non-Executive director and Chair of the Audit and Risk Management Committee of Paradigm Biopharmaceuticals Ltd (ASX:PAR) and Chair of the Victorian branch of AusBiotech.

Previously a partner of Deloitte for over 11 years, and led Deloitte's life sciences practice in Australia for 5 years, specialising in the financial services sector, with significant M&A transactions and strategic tax advice to publicly listed and large multinational companies.

Chair of Calix Audit and Risk Management Committee and member of the Rem and Nom Committee 30 years multidisciplinary experience in local and overseas energy industries, including as a Director of NWS Ventures (Woodside North-West Shelf project).

Currently a Non-Executive Director of Hazar Group (ASX:HZR). Previous Non-Executive Director positions include AnteoTech Ltd (ASX:ADO), Renu Energy (ASX:RNE) and DUET Group (ASX:DUE).

Chair of Calix Technology Committee, and member of Audit and Risk, and Rem and Nom Committees.



Phil Hodgson Managing Director & Chief Executive Officer



Dr Mark Sceats Executive Director And Chief Scientist

14 years of multidisciplinary experience with Shell, including as the General Manager and Alternate Director of its subsidiary Fuelink Pty Ltd, a \$700m revenue, 300-employee distribution and sales subsidiary.

7 years running a private consultancy providing strategy and M&A services across energy, food, infrastructure and water sectors.

Joined Calix in 2013 as CEO, became a Director in 2014 and is a member of Calix's Technology Committee. Co-founder of Calix, and a member of Calix's Technology Committee.

Qualified physical chemist with over 52 years' experience, numerous academic roles, and numerous fellowships and recognitions.

CEO of the Australian Photonics CRC for 14 years.

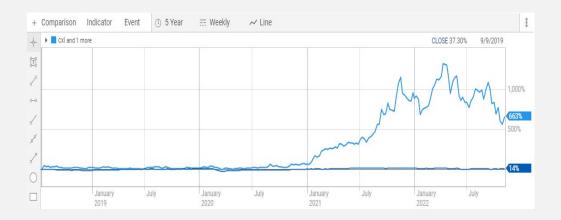
Author of more than 165 academic papers in physical chemistry and inventor of 55 patented inventions.

Listed on the ASX in July, 2018

ASX:CXL

Ocalix

Share Price Performance Since Listing



Further Equity Detail	As at 11 Nov 2022
Free Float	175.5m shares
Employee Incentive Scheme Options	6.0m options

	As at 11 Nov 2022
Shares on issue	~161.6m
Share price on IPO	\$0.62 per share
Current Share price	\$4.81 per share
Market capitalisation	~\$842m

Major shareholders	As at 11 Nov 2022	
Board & Management	13.4%	
Australian Super Pty Ltd	10.7%	
Nicholas Merriman and associates	6.3%	

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Glossary



Term	Meaning
Aluminium (AI)	Chemical element with the symbol Al
Anode	The negative electrode of a battery
APVMA	Australian Pesticides and Veterinary Medicines Authority
BATMn	Calix's core kiln technology – electrified – for battery and catalyst materials production
C, 2C, 4C, D	Charge rate, 1 C = charge in 1 hour, 2C charge in 30 min, 4C charge in 15 min etc. D is discharge – same metrics
Calcium (Ca)	Chemical element with the symbol Ca
Carbonation	The capture of carbon dioxide by contacting with lime (calcium oxide), to form limestone (calcium carbonate)
Cathode	The positive electrode of a battery
ccs	Carbon Capture and Storage
ccus	Carbon Capture, Utilisation and Storage
CO ₂	Carbon Dioxide
Copper (Cu)	Chemical element with the symbol Cu
EBITDA	Earnings Before Interest, Tax, Depreciation and Amortisation
Electrode	The material that stores the lithium ions in a charged (anode) or discharged (cathode) state in a lithium ion battery
Electrolyte	The medium that allows ions to move between the battery electrodes, via the separator
ESG	Environment, Social and Governance considerations
FID	Final Investment Decision
Fines	Small particles, which are usually very difficult to handle in kilns etc as they simply get blown out
Green Hydrogen	Hydrogen that is produced from and electrolyser using renewable energy
НВІ	Hot Briquetted Iron – "bricks" of relatively high purity iron ready for steel-making
НРО	"Hierarchical Porous Onion" - a crystal structure of lithium manganese oxide resembling tiny onion layers – allowing both strength and easier passage of lithium ions

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Glossary



Term	Meaning	
Iron	The chemical element, represent by "Fe" on the periodic table	
Iron Ore	Iron oxide mixed with various other minerals, as mined and "pre-processed" (purified) as best as possible	
LFP	Lithium Iron Phosphate – a battery cathode material	
LMO	Lithium Manganese Oxide – a battery cathode material	
Lithium (Li)	Chemical element with the symbol Li	
Lithium Concentrate / Lithium Salt / "Mid-Stream" Lithium	A form of lithium that is high in lithium content, to be shipped and utilised by battery producers	
Lithium ion	The ionic form of lithium (Li+) – a positively charged atom of lithium	
LTO	Lithium Titanium Oxide – a battery anode material	
LEILAC	Calix's core kiln technology for Low Emissions Intensity Lime and Cement production with CO ₂ capture	
Manganese Carbonate (MnCO ₃)	Form of manganese used mainly in agriculture as a fertiliser supplement	
Magnesium (Mg)	Chemical element with the symbol Mg	
Manganese (Mn)	Chemical element with the symbol Mn	
Metallurgical Coal	Very high carbon coal	
MgO	Magnesium Oxide	
MHL	Magnesium Hydroxide Liquid	

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Glossary



Term	Meaning
Nickel (Ni)	Chemical element with the symbol Ni
NCA	A battery cathode material made from nickel, aluminium and cobalt
NCM, or NMC	A battery cathode material made from nickel, manganese and cobalt
Pelletisation	The formation of pellets from finer materials to aid in handling
Potassium (K)	Chemical element with the symbol K
Separator	The barrier between the anode and the cathode that prevents them touching, inside the battery
Sodium (Na)	Chemical element with the symbol Na
Spodumene	A high lithium-containing ore, and the source of the majority of the world's lithium supply
α -Spodumene	A tight Li-crystal formation, from which extraction of Li is difficult
β-Spodumene	A loose Li-crystal formation, from which extraction of Li is much easier than the alpha-form
Reduce / Reduction	The process by which oxygen is removed
Reductant	A material that, through its chemical properties, carries out reduction
Sponge Iron	Iron Ore that has been reduced (had the oxygen removed)
Steel	Mainly iron, with some carbon and other trace metals such as nickel, manganese etc depending upon the grade of steel being made
Sulphur (S)	Chemical element with the symbol S
Тра	Tonnes per annum
Wh / kWh	Watt-hours / kilowatt-hours - a measure of energy

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