

2023 Financial Year Annual Results Presentation

use only

Calix Limited 24 August 2023

Important Disclaimer

This presentation has been prepared by Calix Limited (ABN 36 117 372 540) ("Company").

SUMMARY INFORMATION

This presentation contains summary information about the Company and its subsidiaries ("Calix") and their activities current as at 24 August 2023. The information in this presentation is a general background and does not purport to be complete.

NOT FINANCIAL PRODUCT ADVICE

This presentation is for information purposes only and is not a prospectus, product disclosure statement or other offer document under Australian law or the law of any other jurisdiction. This presentation is not financial product or investment advice, a recommendation to acquire Calix securities or accounting, legal or tax advice. It has been prepared without taking into account the objectives, financial or tax situation or needs of individuals. Before making an investment decision, prospective investors should consider the appropriateness of the information having regard to their own objectives, financial and tax situation and needs and seek legal and taxation advice appropriate to their jurisdiction. Calix is not licensed to provide financial product advice in respect of Calix securities. Cooling off rights do not apply to the acquisition of Calix securities.

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 including future share price performance.

FUTURE PERFORMANCE

This presentation contains certain "forward-looking statements". The words "expect", "future", "anticipate", "estimate", "intend", "believe", "guidance", "should", "could", "may", "will", "predict", "plan" and other similar expressions are intended to identify forward-looking statements. Indications of, and guidance on, future earnings and financial position and performance are also 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 as a general guide only and should not be relied upon as an indication or guarantee 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 and its directors) which may cause the actual results or performance 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 and the assumptions on which those statements are based. The forward-looking statements in this presentation speak only as of the date of this presentation. Subject to any continuing obligations under applicable law, the Company disclaims any obligation or undertaking to provide any updates or revisions to any forward-looking statements in this presentation to reflect any change in expectations in relation to any forward-looking statements or any change in events. conditions or circumstances on which any such statement is based. Nothing in this presentation will under any circumstances create an implication that there has been no change in the affairs of Calix since the date of this presentation.

INVESTMENT RISK

An investment in Calix securities is subject to investment and other known and unknown risks, some of which are beyond the control of Calix, including possible delays in repayment and loss of income and principal invested. Calix does not guarantee any particular rate of return or the performance of Calix, nor does it guarantee the repayment of capital from Calix or any particular tax treatment. Persons should have regard to the risks outlined in this presentation and appendices.

NOT AN OFFER

This presentation is not and should not be considered an offer or an invitation to acquire Calix securities or any other financial products and does not and will not form any part of any contract for the acquisition of Calix securities.

This presentation does not constitute an offer to sell, or the solicitation of an offer to buy, any securities in the United States or to. or for the account or benefit of, any 'U.S. person' (as defined in Regulation S under the U.S. Securities Act ("U.S. Person")). The new shares to be offered and sold in the placement ("Offer") have not been, and none of them will be, registered under the U.S. Securities Act or the securities laws of any state or other jurisdiction of the United States. In addition, Calix has not been, and will not be, registered under the U.S. Investment Company Act of 1940, as amended (the "U.S. Investment Company Act") in reliance on the exception from the definition of "investment company" provided by Section 3(c)(7) thereof. The New Shares to be offered and sold in the Offer may not be offered and sold to, directly or indirectly, any person in the United States or any person that is, or is acting for the account or benefit of, a U.S. Person except pursuant to an exemption from, or in a transaction not subject to, the registration requirements of the U.S. Securities Act and applicable U.S. state securities laws and pursuant to an exception from the registration requirements of the U.S. Investment Company Act provided by Section 3(c)(7) thereof. This presentation may not be distributed or released in the United States or to any U.S Person. The distribution of this presentation in other jurisdictions outside Australia may also be restricted by law and any such restrictions should be observed. Any failure to comply with such restrictions may constitute a violation of applicable securities laws. Offers in Australia of the shares are only being made to persons who are "sophisticated investors" or "professional investors" (within the meaning of section 708(8) and section 708(11) of the Australian Corporations Act (Act) respectively) or otherwise pursuant to one or more exemptions under Section 708 of the Act so that it is lawful to offer the shares in Australia without disclosure to investors under Part 6D.2 of the Act.

NO ADVICE

None of Calix's respective advisers or any of their respective affiliates, related bodies corporate, directors, officers, partners, employees and agents, have authorised, permitted or caused the issue, submission, dispatch or provision of this presentation and none of them makes or purports to make any statement in this presentation and there is no statement in this presentation which is based on any statement by any of them. For the avoidance of doubt, the advisers and their respective affiliates, related bodies corporate, directors, officers, partners, employees and agents have not made or purported to make any statement in this presentation and there is no statement in this presentation which is based on any statement by any of them. To the maximum extent permitted by law, Calix and its advisers and their respective affiliates, related bodies corporate, directors, officers, partners, employees and agents exclude and disclaim all liability, for any expenses, losses, damages or costs incurred by you as a result of your participation in the Offer and the information in this presentation being inaccurate or incomplete in any way for any reason. whether by negligence or otherwise. To the maximum extent permitted by law, Calix and its advisers and their respective affiliates. related bodies corporate, directors, officers, partners, employees and agents make no representation or warranty, express or implied, as to the currency, accuracy, reliability or completeness of information in this presentation and Calix's advisers and its affiliates, related bodies corporate, directors, officers, partners, employees and agents, take no responsibility for any part of this presentation or the Offer. Calix and Calix's advisers and their affiliates, related bodies corporate, directors, officers, partners, employees and agents make no recommendations as to whether you or your related parties should participate in the Offer nor do they make any representations or warranties to you concerning the Offer, and you represent, warrant and agree that you have not relied on any statements made by any of them in relation to the Offer and you further expressly disclaim that you are in a fiduciary relationship with any of them. Statements made in this presentation are made only as the date of this presentation. The information in this presentation remains subject to change without notice. Calix reserves the right to withdraw the Offer or vary the timetable for the Offer without notice.



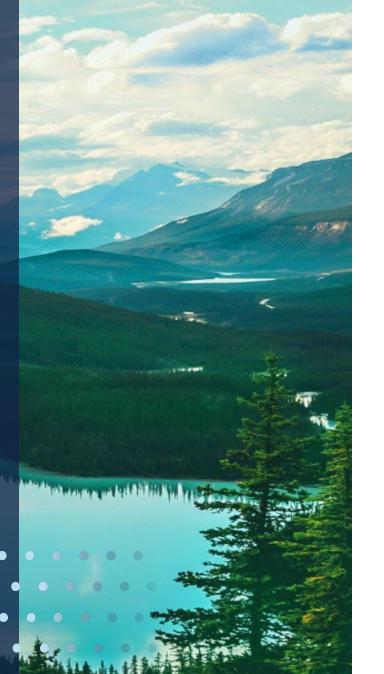
About Calix

Calix is an environmental technology company that is developing a unique platform technology to solve global challenges in industrial decarbonisation and sustainability.

We are building multiple businesses to deliver positive global impact in CO₂ mitigation, sustainable processing, advanced batteries, biotechnology and water treatment.

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

MARS IS FOR QUITTERS.



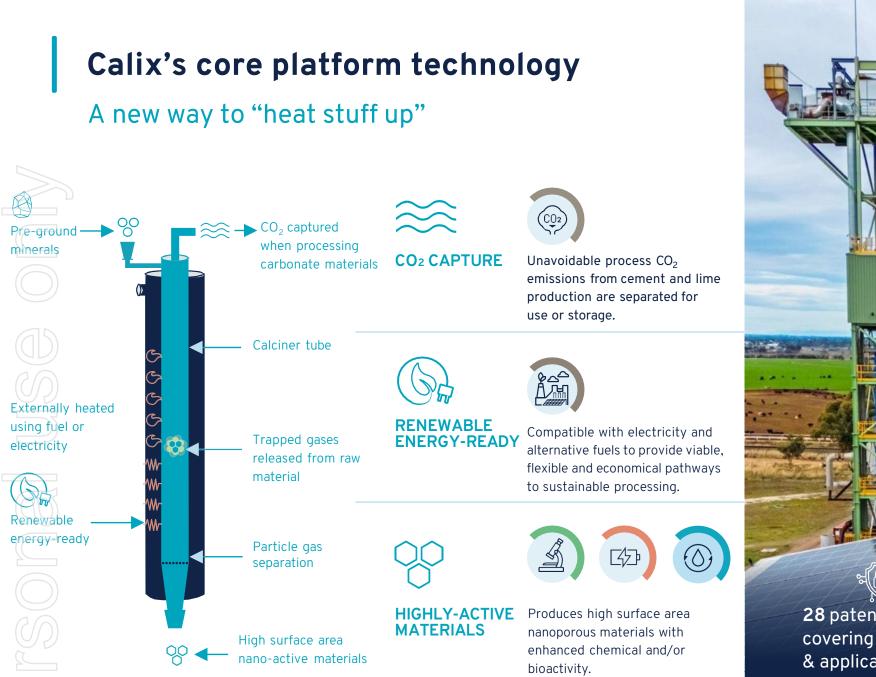
O calix













Solving global challenges

One core platform technology

Multiple environmental business opportunities, each of which must:

- Focus on a significant global challenge;
- Be consistent with our purpose, values & ethos;
- Present significant market and shared value potential;
- Exploit the core technology to sustainable competitive advantage; and
- Deliver scale and speed of impact.



Sustainability

FY23 sustainability achievements:

 Reaffirmed our commitment to the UNGC New Board Sustainability Committee established Greenhouse gas assessment baseline completed

Our sustainability commitments:

Develop an emission reduction roadmap in FY24 Prioritise gender diversity, with an ambition of gender balance at all levels of the organisation by 2030

• Measure and reduce waste, with an ambition of 100% sustainable material inputs by 2030

2023 Sustainability Report coming later this year





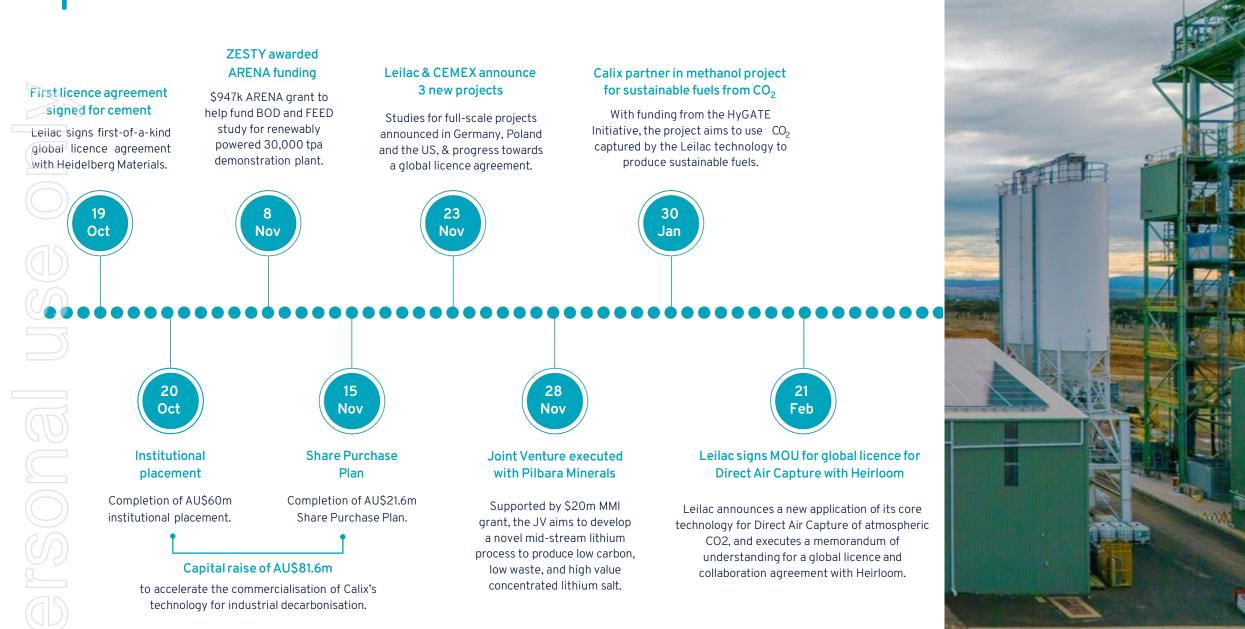




FY23 BHIGHLIGHTS rsonal



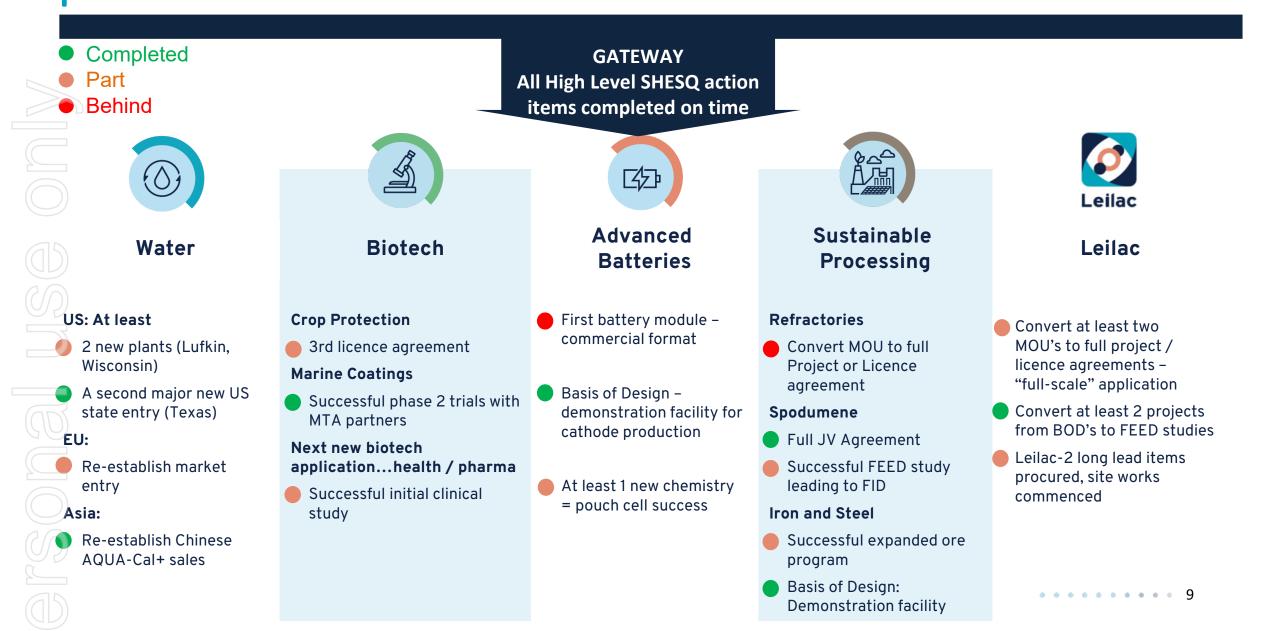
FY23 achievements



() cali

FY23 KPI scorecard





FY23 financial update

Investing for growth

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

- In FY23 Calix continued its planned investment in:
 - 1. **People,** including 32 new engineers, 5 new R&D, and 8 new production;
 - 2. Plant & equipment to enhance and accelerate technology development; and
 - 3. Professional services to advance commercialisation.
- Investment part-offset by \$10.7m in grants and tax rebates.

Solid revenue and margin growth underpinned by new sales in the US water business.

Balance sheet strength supported by a **\$60.0m** private placement and **\$21.6m** Share Purchase Plan.

Support from our shareholders for our growth plans is very much appreciated.

Calix Limited FY23 financial result highlights



\$74.5m Cash on hand (30 June 2022: A\$25.0m)



\$29.6m up 42% FY23 revenue (FY22: A\$20.8m)



\$6.2m up 19% FY23 gross profit (FY22: A\$5.2m)



33% up 18% FY23 gross margin (FY22: 28%)

10

Profit & Loss highlights

Investing in capability to capitalise on technology commercialisation

	FY 23 (\$m's)	FY 22 (\$m's)
Revenue & other income	29.6	20.8
Water revenue & other income	19.7	16.9
Other LoB ¹ 's revenue & other income	9.9	3.9
Gross Profit	6.2	5.2
Operating expenses		
Sales & Marketing expenses	9.5	7.7
R&D	14.5	7.1
Admin	7.7	4.9
Operating result	(14.5)	(12.1)



Key takeaways:

- 42% increase in revenue:
 - strong growth in Water business in 2H
 - positive contribution from grants & rebates for our R&D spend.
- 19% increase in GP of Water business:
 - improving margin through service & quality.
- Focusing investment in people:
 - Specifically, R&D & engineering capability. Our technology teams have doubled in just over 12 months.

Lines of Business

Balance Sheet strength

Balance sheet strength to pursue commercialisation opportunities

	30 June 23 (\$m's)	30 June 22 (\$m's)
Cash & Cash equivalents	74.5	25.0
Total Assets	127.5	61.2
Total Liabilities	22.5	16.4
Net Assets/Total Equity	105.0	44.8
Excluding deferred revenue		
Current assets	89.1	31.6
Current liabilities	7.7	5.8
Net surplus of current assets over current liabilities [ex deferred revenue]	81.4	25.8
Property, plant & equipment	24.4	18.7
Intangible assets, including goodwill	12.7	10.1

O calix

<u>Key takeaways:</u>

- Balance sheet strength:
 - to pursue commercialisation opportunities across multiple lines of business.
- Flexibility retained:
 - to pursue the right capital/funding strategy for each application and investment opportunity.
- Strong cash position:
 - essentially debt free can control our own destiny as we pursue our "multiple shots on goal".

Consolidated cash flows

Balance sheet strength to pursue commercialisation opportunities

	FY 23 (\$m's)	FY 22 (\$m's)
Cash flows used in operating activities	(17.2)	(3.7)
Receipts	26.3	31.1
Payments	(43.5)	(34.8)
Cash flows used in investing activities	(13.0)	(9.0)
Property, plant & equipment	(9.8)	(7.4)
Intellectual property	(3.2)	(1.6)
Cash flows from financing activities	79.8	22.6
Proceeds from issue of shares	79.6	0.8
Proceeds from sale of interest in subsidiary	-	22.8
Movements in loans/borrowings	0.2	(1.0)
Cash at the end of the year	74.5	25.0

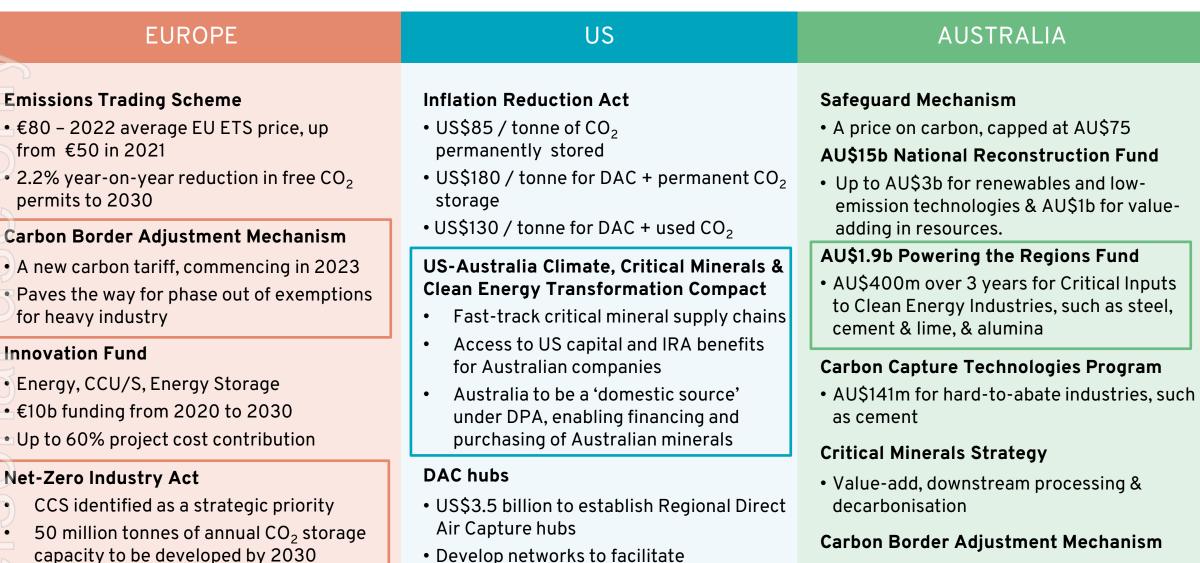
O calix

<u>Key takeaways:</u>

- Working capital for investment in capability will be partially offset through draw down on receivables and working capital in coming months
- Investing in:
 - adding US manufacturing capacity to support growth opportunity
 - Leilac-2 long lead item procurement
 - Midstream pilot plant UJV with PLS (joint operation).
- Placement and Share Purchase Plan have set us up for the next 2+ years including current project commitments.

Policies driving decarbonisation

Carbon penalties, value & support in Europe, US & Australia



sequestration or carbon utilization

Review of an Australian CBAM imminent

() calix

FY23 by line of business

Deilac

only

 $\overline{\mathsf{O}}$

Ņ





Decarbonising cement and lime

Largest single source of industrial emissions:

- ~8% of global emissions.¹
- Unavoidable process emissions released directly from limestone.

Net-zero commitments:

- GCCA member companies covering 40% of global cement production (80% outside of China) have set a net zero by 2050 target.²
- 1.4 billion tonnes of $\rm CO_2$ from cement needs to be captured and stored annually by 2050 to reach net zero.²

"Carbon Capture and Storage (CCS) plays a major role in decarbonizing the industry sector in the context of 1.5°C and 2°C pathways, especially in industries with higher process emissions, such as cement." – IPCC³

Trends in global CO₂ emissions; 2016 Report, The Hague: PBL Netherlands Environmental Assessment Agency Global Cement & Concrete Association. Concrete Future Roadmap.

SDG Impact

SR1.5 Chapter 2. IPCC. 2018

https://carbonpricingdashboard.worldbank.org/

3.





Market drivers



Carbon pricing: 73 carbon pricing initiatives implemented, covering 11.7 GtCO₂e, or 23% of global emissions⁴



>€100/tonne - EU ETS price reached a record high in Feb 2023



US\$85/tonne US tax credit for stored CO₂

Leilac – Scaling up the Leilac technology



A modular design for delivery through a blueprint model

Leilac-1 Pilot plant

CAPTURE CO2

Lixhe, Belgium 2019 CO₂ capacity: 25 ktpa Clinker: 160 tpd ~5% throughput

> TUBE QTY



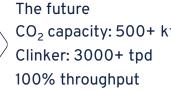
Leilac-2 Demonstration plant

Hannover, Germany CO₂ capacity: 100 ktpa Clinker: 640 tpd ~20% throughput



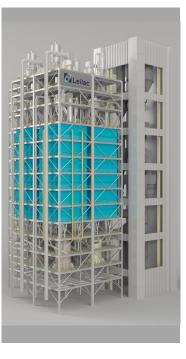


Leilac-3 Full scale



CO₂ capacity: 500+ ktpa



















Leilac's fullscale vision

BUT...we need to mitigate 1.4 billion tonnes per annum of process CO₂ emissions

= up to 3,000 Leilac-3s

~2 built every week from now until 2050!!

and the second s





FY23 – Leilac business model validation

Heidelberg Materials global licence executed

The first-of-a-kind, perpetual licence agreement applies to any Heidelberg Materials facility where the Leilac technology is installed.

- Heidelberg Materials operates 149 cement plants across 5 continents.
- On average, each plant emits 0.5 to 1 million tonnes of CO₂ each year.

A first-of-a-kind technology licence fee for the industry:

- i. A royalty floor
- ii. A variable component linked to the EU ETS price/value
- iii. A royalty cap linked to costs versus alternative technologies.

Calix will retain all improvements to Calix IP.

Further licence agreements are under negotiation with CEMEX and others.





Decarbonising shipping & aviation

<u>Market tailwinds:</u>

International Maritime Organisation targeting net zero by 2050 and 10% clean energy use by 2030.¹

Maersk now has 25 methanol enabled vessels on order.²

Industry, particularly cement, requires offtake for unavoidable CO₂ emissions.

<u>Sustainable fuels from captured CO₂ – the Solar Methanol Project:</u>

Methanol is an alternative fuel for shipping and a precursor to sustainable aviation fuels.

German-Australian HyGATE initiative³ is targeting green methanol to be produced from green hydrogen, renewable energy and CO₂ captured by the Leilac technology.



() cal

20

https://www.maersk.com/news/articles/2023/06/26/maersk-orders-six-methanol-powered-vessels

Calix part of Australian-German consortium awarded funding to manufacture sustainable fuels from captured CO2 4. https://www.iea.org/reports/transport

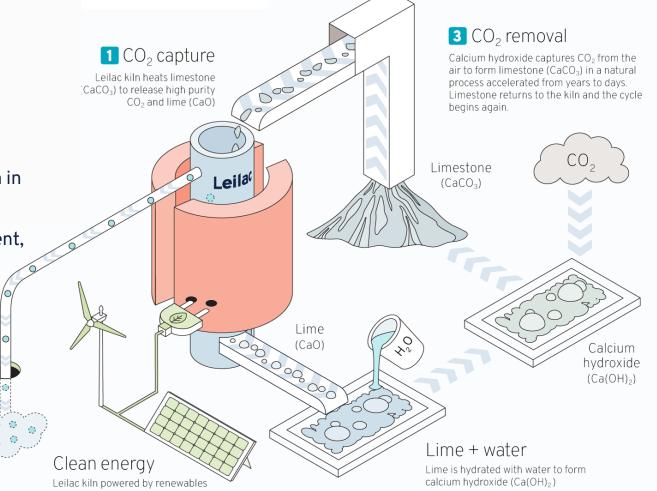
https://www.imo.org/en/MediaCentre/HotTopics/Pages/Cutting-GHG-emissions.aspx





Non-binding MOU for DAC global licence agreement with Heirloom

- Heirloom¹ is a Direct Air Capture (DAC) company with an objective of capturing 1 billion tonnes of CO₂ by 2035.
 - Heirloom part of Project Cypress, one of 2 projects selected for the US Department of Energy's US\$1.2b DAC Hubs program.²
 - The MOU outlines key collaboration terms, including US\$3m in R&D contribution from Heirloom.
 - The MOU also covers key terms for a global licence agreement, which once executed, will apply to any Heirloom facility.
 - The technology licence fee comprises:
 - . A royalty floor of US\$3 per tonne of CO₂ captured; and
 - A variable royalty rate based on the prevailing CO₂ price for lime decarbonisation, less the amortised cost of capital of the Leilac kiln per tonne of CO₂ separated.







	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
Aug 2023	34	25	8			1 Leilac-2	1 Leilac-1	76

Pipeline growth: as at August 2023 there were **76 projects** in the pipeline.

- Projects are ~ 2/3 cement and 1/3 lime, at average capacity of 500kTpa CO₂ for cement and 80 kTpa CO₂ for lime.
- Leilac pipeline represents potential for over **20 Mtpa of CO₂ abatement projects.**

TARMAC project passes UK Govt due diligence: 30kTpa lime facility with partial H₂ firing and CO₂ capture as part of HYNET project, UK.

Three new projects with **CEMEX** announced in Germany, Poland and the US.

Adbri – work continues on pre-FEED for a 20kTpa electric facility with CO₂ capture.

Leilac-2 – site works (demolition) have started after some permitting delays – likely to push completion / commissioning into 2025.

https://arena.gov.au/funding/german-australian-hydrogen-innovation-and-technology-incubator-hygate/

FY23 by line of business

rson





Sustainable lithium demonstration plant

Financial Investment Decision approved

- Calix and Pilbara Minerals (ASX: PLS) have approved the FID on a mid-stream lithium-phosphate demonstration plant.
 - The Demonstration Plant will use Calix's electric calciner and be located at Pilbara Minerals' Pilgangoora Project.
- Project objectives:
 - Reduce carbon intensity, waste and transport costs
 - Demonstrate lower CAPEX and OPEX with electric calcination
 - Create a higher value lithium product at the mine site
 Construction expected to commence in Q4 FY24.
 Targeting production of first lithium salt in Q4 FY25.
 Demonstration Plant CAPEX is ~ AU\$105m
 - Supported by \$20m in Australian Government funding
 - Calix will receive ~24% free carried equity in the facility, targeting \$17.5 CAPEX contribution for 45% equity

At current lithium prices, the demonstration plant could generate ~US\$85m revenue for the JV on an annual basis¹

Calix share is projected to be 45% of the JV. JV total revenue assumes prevailing lithium prices Li-Carbonate-equivalent of ~US\$29k/tonne and targeted lithium phosphate production of ~3,000tpa (source: Trading Economics 23rd August 2023) Minviro Lifecycle Assessment study on the climate change impact of lithium, commissioned by Pilbara Minerals



Carbon emissions savings

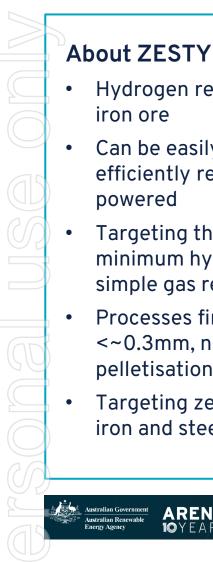
A Life Cycle Assessment study² found that renewably powered electric calcination of spodumene would reduce emissions by:

- ↓ 90% vs a coal-fired rotary kiln
- ↓ 80% vs a natural gas-fired rotary kiln

Zero Emissions Steel TechnologY



Potential lowest cost zero emissions iron & steel



iron ore

powered

Can be easily and

simple gas recycle

Processes fines

<~0.3mm. no

iron and steel*

pelletisation

on ore powders Hydrogen reduction of H₂O removal, H₂ recycle Cyclone efficiently renewably Targeting theoretical Electric minimum hydrogen use -Heating Zone H2----Targeting zero emissions

Hot Sponge Iron Powder

*in conjunction with Calix's "Leilac" zero emissions lime

Development – Phase 1 & 2 completed:

- Theoretical kinetic studies
- Conversion of electric calciner to run hydrogen \checkmark
- Confirmation of electric calciner + hydrogen reduction \checkmark performance
- Successful pilot testing with multiple ores

Phase 3: Pre-FEED / FEED study

- A\$947,035 ARENA grant. •
- Proposed 30,000 tpa, zero CO₂ emissions ZESTY-iron • demonstration plant.
- Study towards final investment decision: including:
 - Testing / confirmation / design input from pilot test runs
 - Beneficiation / passivation / briquetting / smelting trials
 - Multiple ore testing due to demand = expanded program Q1,2 FY24
 - Site determination

25

FY23 by line of business

rson

 $\bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet$



Advanced Batteries

Developing sustainable, low-cost cathode materials

Calix is developing a platform technology for cathode material production:

- Renewably powered
- Energy efficient
- Low cost
- High performance nanostructured materials

Initial focus on Lithium Manganese Oxide (LMO) cathode materials

Targeting a battery chemistry agnostic platform technology



Advanced Batteries

FY23 achievements

Prototype Single Layer Pouch (SLP) cell testing demonstrated Calix LMO's high-power capabilities.

- Identified high-power battery segment as a target beachhead market.
- Produced 4Ah commercial-prototype battery cells using Calix Lithium Manganese Oxide (LMO) cathode powder, in collaboration with UK production partner, AMTE.
- Expanded cathode development to additional battery chemistries favoured by the electric vehicle market:
- Lithium iron phosphate (LFP)
- Lithium nickel manganese oxide (LNMO)



FY23 by line of business





Biotech

Sustainable bioactive materials for multiple global applications

Calix's Biotech business is developing high surface area magnesium oxide materials with bioactive properties for three applications:

- Agriculture: reducing dependence on lethal pesticides with sustainable alternatives that use a non-lethal mode of action
- 2. Marine: reduce use of toxic antifoul paints and coatings with non-toxic bioactive additives
- Antimicrobial Resistance (AMR): Calix's bioactive materials have antimicrobial properties with low resistance development potential, offering an alternative to conventional actives

O calix

Market trends



Demand for non-conventional pesticides predicted to grow at 15% per annum for the next ten years¹



IMO has adopted a new emissions reduction strategy² and is strengthening biofouling measures³



Rise in antimicrobial-resistant bacterial infections is an emerging global crisis³



Insightace analytic 2023 IMO Strategy on Reduction of GHG Emissions from Ships. Draft revised Biofouling Guidelines approved at PPR 10th session

United Nations Environment Programme (2022). Environmental Dimensions of Antimicrobial Resistance: Summary for Policymakers.

Biotech

FY23 achievements

Agriculture:

Continued field trials in the EU in collaboration an agricultural co-operative, following the banning of the fungicide Mancozeb.

Marine:

- Completed phase 2 static tests with global coatings firms.
- Dynamic tests and coatings formulation work underway in sites across North America, Australia, New Zealand and Asia.

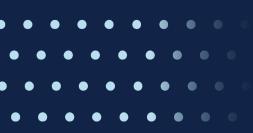
Antimicrobial Resistance (AMR):

- Calix became a Tier 1 partner in Australia's CRC SAAFE¹.
- First project to study application of Calix's bioactive materials in intensive livestock health management commenced.

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



FY23 by line of business only USe $\overline{\mathsf{O}}$ Ň



()

Water



Water

Magnesium Hydroxide Liquid "MHL" – a safe alkali chemical

Calix's water business delivers safe, effective, economical, and sustainable solutions for the treatment of water and wastewater.

Provide an environmentally friendly alternative to existing products, such as caustic soda, for pH and odour control.

Products:

AQUA-Cal+, ACTI-Mag, and ALKA-Mag+.

Industries:

 Water utilities, wastewater treatment, aquaculture, food & drink.

O calix

Market trends

80%

Wastewater that flows back into the ecosystem without being treated or reused



Need for environmentally friendly alternatives to existing products, such as caustic soda



Regulation requires pH control that maintains microorganism activity & minimises water corrosivity

33

SDG Impact



Water

FY23 achievements

- New product, ALKA-Mag+ helped secure new business in the US.
- Revenue growth of 14.2% year-on-year.
- Gross profit of 28.6%.
- Revenue growth accelerating up 28% H2FY23 compared with the same period last year.
- Two new hydration plants progressed:
- Lufkin, Texas is undergoing commissioning.
- Ripon, Wisconsin remains under construction.
- These new plants designed to support sales in new regions, including Wisconsin, Illinois and Texas.



FY24 BRIORITIES ersonal

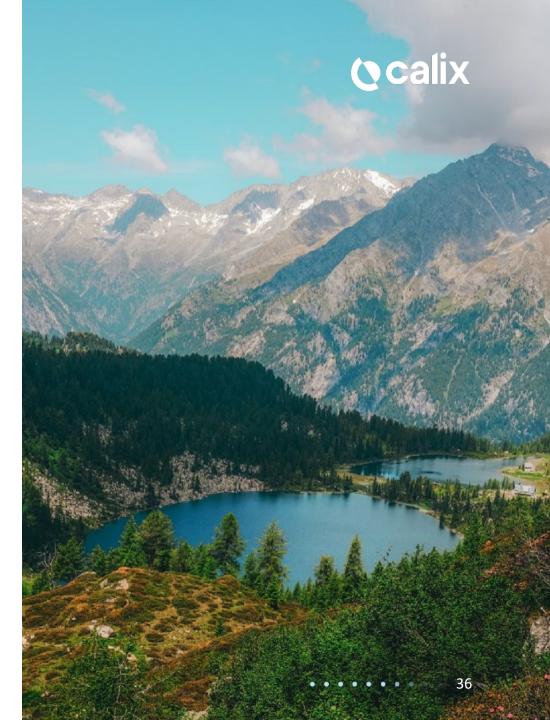


FY24 Priorities

Focus on industrial decarbonisation:

- Electrification of industrial processing;
- Capture of unavoidable carbon emissions.
- Combine Water and Biotech businesses into a new Magnesia line of business to:
 - Increase focus, scale and reach of magnesium-based products and developments;
 - Develop a magnesium metal application.

Continue to develop sustainable and cost-effective highperformance battery materials.



FY24 KPI dashboard



KPI Dashboard for FY24

	Leilac CO ₂ Capture	Sustainable Processing	Advanced Batteries	Magnesia*
GATEWAY 1 All High Level SHESQ action items completed on time	 Leilac-2 all permitting and civil works complete Continue to move projects down the pipeline Basis Of Design for green methanol consortia project 	 Spodumene Spodumene Project Construction commenced Iron and Steel - "ZESTY" Successful expanded ore program Completed FEED study leading to FID Alumina First successful Pre-FEED study 	 First battery module in consumer product format Demonstration facility for cathode production – FEED completed Successful commercial format cell with a new Calix electrode chemistry 	 Water Continued growth US, Asia Mg Metal Basis Of Design for Mg Metal plant Specialties Continued commercialisation of Agriculture, Marine and AMR applications

Calix Limited Annual Results FY2023

24 August 2023



Thank you

Acknowledgement of country

Calix acknowledges the First Nations people and traditional custodians of the lands upon which we live and work. We acknowledge their rich cultures and their continuing connection to land, waters and community. We pay respect to the culture and people, their Elders and leaders, past, present and emerging.

Social inclusion statement

Calix embraces diversity and inclusion. It is one of our core values. We promote an inclusive and safe space for all and proudly welcome and support people of any race, ability, gender and identity.

Sustainability statement

At Calix, sustainability means meeting our own needs without compromising the ability of future generations to meet their own needs. It is deeply embedded in our purpose: Mars is for quitters.



Board of Directors

Equity Structure Glossary



		•	•	•	•	•	•	
•	•	•						
		•	•	•	•	•	•	
•	•							



Board of Directors





Peter Turnbull, AM Non-Executive Chair

Helen Fisher Non-Executive Director



Alison Deans Non-Executive Director



Phil Hodgson Managing Director & Chief Executive Officer



Dr Mark Sceats Executive Director And Chief Scientist

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 Chair of Cochlear Limited (ASX: COH), Non-Executive Director at Ramsay Health Care Limited (ASX: RHC), and Non-Executive Director at Deputy Group Pty Ltd. Ms Deans is also a member of the Investment Committee at Main Sequence Ventures (CSIRO's innovation fund) and a Member of the AICD Corporate Governance Committee. Ms Deans' previous directorships include Westpac Banking Corporation, Insurance Australia Group Limited and Social Ventures Australia.

In her executive career, Ms Deans was previously the CEO of eBay Australia and New Zealand, CEO of eCorp Limited, CEO of Hoyts Cinemas, CEO of netus Pty Ltd, and a consultant with McKinsey & Company. Ms Deans holds a MBA from the Stanford Graduate School of Business and a MA (Physics) from Cambridge University. 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.

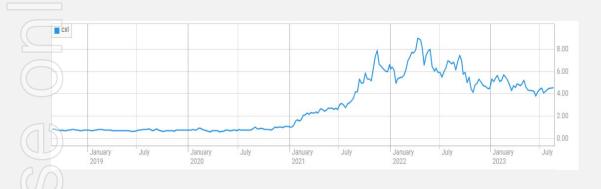
Author of more than 165 academic papers in physical chemistry and inventor of 55 patented inventions.

Listed on the ASX in July, 2018

Q calix

ASX:CXL

Share Price Performance Since Listing



	As at 21 Aug 2023
Shares on issue	~181.2m
Share price on IPO	\$0.53 per share
Current Share price	\$4.56 per share
Market capitalisation	~\$826m

Major shareholders	As at 21 Aug 2023
AustralianSuper Pty Ltd	10.4%
Board & Management	8.3%
Nicholas Merriman and associates	6.0%

Further Equity Detail	As at 21 August 2023
Free Float	181.2m shares
Employee Incentive Scheme Options	5.8m options



Term	Meaning
Aluminium (Al)	Chemical element with the symbol Al
Anode	The negative electrode of a battery
Antimicrobial	Antimicrobial products kill or slow the spread of microorganisms, including bacteria, viruses and fungi.
AMR	Antimicrobial resistance – the development of resistance in bacteria, viruses, fungi and parasites to antimicrobials.
ARENA	The Australian Renewable Energy A
ASX	The Australian Securities Exchange
ΑΡΥΜΑ	Australian Pesticides and Veterinary Medicines Authority
BATMn	Calix's core kiln technology – electrified – for battery and catalyst materials production
BOD	Basis of Design
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
	Carbon Dioxide
Copper (Cu)	Chemical element with the symbol Cu
CRC	Cooperative Research Centre – Australian Government supported industry-led collaborative research centres
CRC SAAFE	Cooperative Research Centre Solving Antimicrobial Resistance in Agribusiness, Food, and Environments
DAC	Direct Air Capture – the extraction of carbon dioxide directly from the atmosphere
EAF	Electric arc furnace – a furnace that heats material by means of an electric arc between two electrodes



Term	Meaning
EAP	Employee Assistance Program
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
FEED	Front-End Engineering Design
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 an electrolyser using renewable energy
Goethite	A mineral that is an ore of iron
НВІ	Hot Briquetted Iron – "bricks" of relatively high purity iron ready for steel-making
H-DRI	The process of reducing iron ore to metallic iron with hydrogen as the reductant
Hematite	A mineral that is an ore of iron
HILT CRC	Heavy Industry Low-carbon Transition Cooperative Research Centre
НРО	"Hierarchical Porous Onion" - a crystal structure of lithium manganese oxide resembling tiny onion layers – allowing both strength and easie passage of lithium ions
Hydrometallurgy	A metal recovery method used to obtain metals from ores and waste materials
lron (Fe)	The chemical element, represented 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
кТра	Thousands of tonnes per annum
Leilac	Calix's core kiln technology for Low Emissions Intensity Lime and Cement production with CO ₂ capture
LFP	Lithium Iron Phosphate – a battery cathode material



Term	Meaning
ЦНМ	Lithium Hydroxide Monohydrate – used in the production of cathode active materials for lithium-ion batteries
Lithium (Li)	Chemical element with the symbol Li
Lithium-phosphate / 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
LMO	Lithium Manganese Oxide – a battery cathode material
LNMO	Lithium Nickel Manganese Oxide – a battery cathode material
LTO	Lithium Titanium Oxide – a battery anode material
Manganese Carbonate (MnCO3)	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
Magnetite	A mineral that is an ore of iron
Metallurgical Coal	Very high carbon coal
MgO	Magnesium Oxide
MHL	Magnesium Hydroxide Liquid
моц	Memorandum of Understanding
Nanoporous	A material with a regular, porous structure, with a pore size generally less than 100 nanometres.
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



Term	Meaning
Potassium (K)	Chemical element with the symbol K
Process emissions	Process emissions are inherent to the chemical reaction and are released directly and unavoidably from the chemical processing of raw material. They are distinct from energy related emissions that may result from the consumption of fuel to heat the reaction.
SDGs	The UN's Sustainable Development Goals or Global Goals are a collection of seventeen interlinked objectives designed to serve as a "share blueprint for peace and prosperity for people and the planet, now and into the future."
Separator	The barrier between the anode and the cathode that prevents them touching, inside the battery
Siderite	A mineral that is an ore of iron
SLP	Single layer pouch cells – a soft battery design where most of the cell components are enclosed in a aluminium-coated plastic film.
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
RDF	Refuse-derived fuel – a fuel produced from various types of waste
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
UNGC	The United Nations Global Compact, the world's largest corporate sustainability intiative
Wh/kWh	Watt-hours / kilowatt-hours - a measure of energy
ZESTY	Calix's Zero Emissions Steel TechnologY

Calix

Phil Hodgson Managing Director & CEO <u>phodgson@calix.global</u> +61 2 8199 7400

Investor relations Investorrelations@calix.global Darren Charles CFO & Company Secretary <u>dcharles@calix.global</u> +61 2 8199 7400

> Media enquiries media@calix.global



Follow us on Twitter @Calixlimited

www.calix.global