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About Calix

Calix Limited is an environmental technology company solving urgent global challenges in industrial decarbonisation and sustainability.

Calix's unique patented core platform technology delivers indirect heating of raw materials to enable efficient, precise, flexible and renewably powered mineral processing and capture of unavoidable industrial emissions.

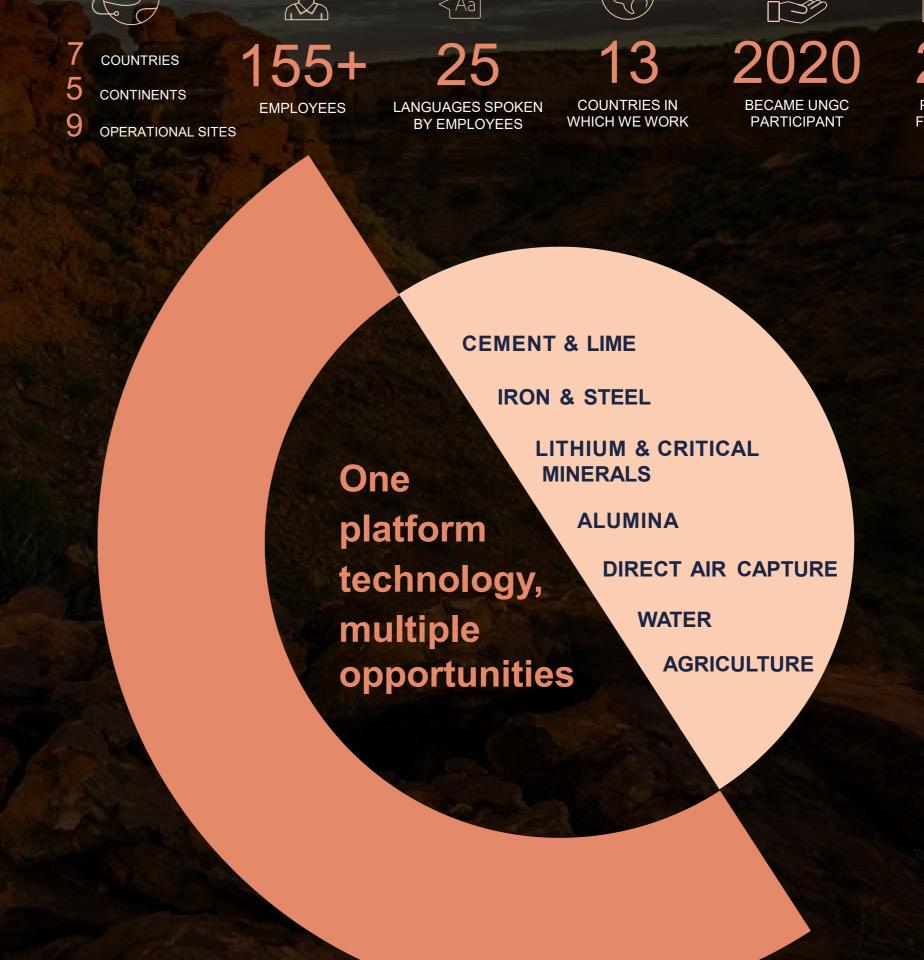
With strong and increasing demand driven by global decarbonisation commitments, Calix is applying its platform technology to the cement, steel, alumina, and critical minerals industries, as well as the direct air capture of atmospheric carbon dioxide, and the production of sustainable environmental products.

Leveraging its core platform technology and a global network of partners, Calix is urgently developing multiple businesses that deliver positive global impact. Because there's only one Earth.

MARS IS FOR QUITTERS

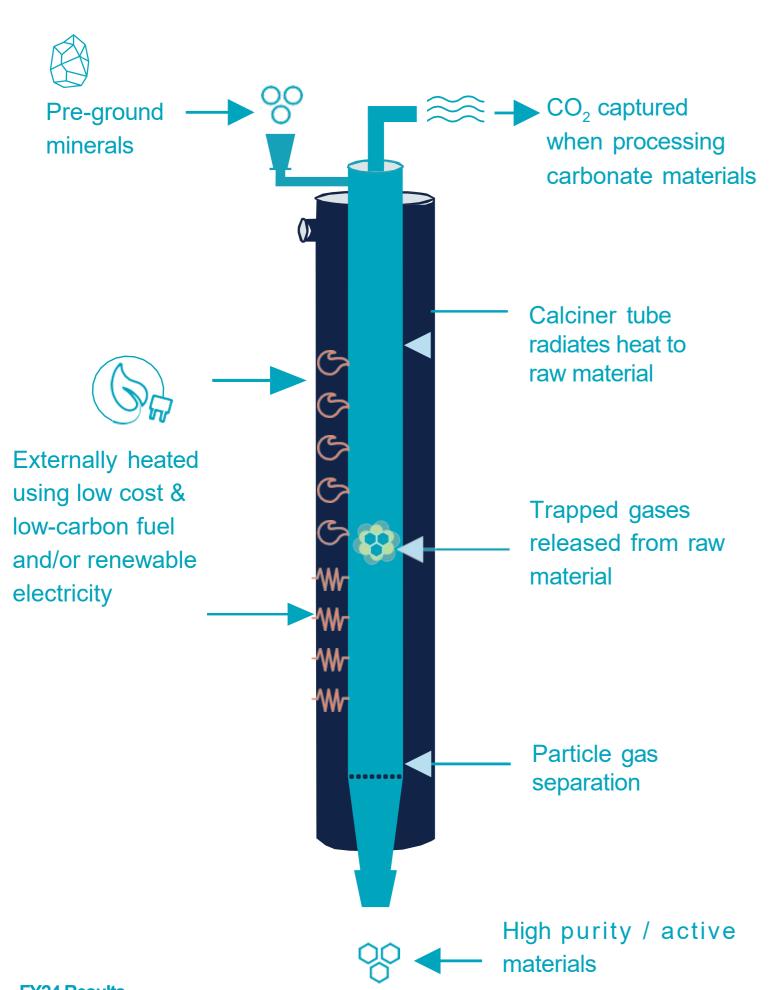
Solving global challenges

Electrification of industrial processing | Capture of unavoidable emissions | Sustainable environmental solutions



Calix's core platform technology

A new way to "heat stuff up"





Carbon Capture

Unavoidable process CO₂ emissions from cement & lime production & CO₂ from the atmosphere are captured for use or storage.



Sustainable Processing

Compatible with electricity & alternative fuels to provide viable, flexible and economical pathways to sustainable processing.



Magnesia

Produces high purity / active materials with enhanced chemical and / or bioactivity.





Calix's structure underpins a solid foundation for growth



One core platform technology with multiple applications for global industries

Platform		02				ST.	
output	Carbo	n Capture	Susta	inable Proce	ssing	Magr	nesia
Business subsidiary	Le	ilac	Pilbara Minerals UJV	ZEAL	Zesty	ÓIER	
Application	Cement & lime	Direct Air Capture	Lithium	Alumina	Iron & steel	Water	Agriculture / Marine coatings / Biotech
Market Size	1.4 BTpa CO ₂ ¹	Targeting > 1 BTpa CO ₂ ⁷	US\$7Bpa ²	US\$45.5Bpa ³	US\$640Bpa ⁴	~US\$100m ⁵	Multi-US\$Bpa ⁶
Partners	Heidelberg Materials + multiple others	# Heirloom	Pilbara Minerals Powering a sustainable energy future	HILTCRC	HILTCRC		SAAFE Solving Antimicrobial Resistance in Agribusiness, Food & Environments Centre for Environmental and Agricultural Solutions to Antimicrobial Resistance
Revenue model	Licence fees (\$ per tonne CO ₂)			Licence fees % Total Revenues)		Growing direct /	distributor sales



^{2.} Estimated as 50% of total lithium market as measured by lithium carbonate equivalent (LCE) derived from spodumene - https://www.mckinsey.com/industries/metals-and-mining/our-insights/australias-potential-in-the-lithium-market
3. Alumina global market revenue estimated at https://www.precedenceresearch.com/press-release/alumina-market#:~:text=The%20global%20alumina%20market%20size,combination%20of%20aluminum%20and%20oxygen.

Estimated as US\$400 per tonne of iron @ 1.6BTpa https://www.statista.com/statistics/589979/metal-content-of-the-global-iron-ore-production/

i. — Estimated as 035400 per torme of from the 1.0BT partitips://www.statista.com/statistics/309919/metal-content-of-the-global-from-ofe-production. 5. — US magnesium hydroxide market management estimate, caustic replacement market likely several multiples of this

^{6.} Frost and Sullivan – Independent Market Report – Calix IPO Prospectus 2018

^{7.} Heirloom statement in press release https://fox40.com/news/local-news/san-joaquin-county/heirloom-carbon-technologies-tracy-co2/

FY24 Financial highlights

Growing & diversified revenue streams delivered cash support in advance of licensing royalties

Revenue growth & diversification

- Product & services revenue up 30% to \$24.2m
 - Magnesia revenue increased 14% to \$21.0m
 - Leilac revenues increased to \$3.2m (FY23: \$0.1m), driven by advancing pipeline to paid engineering studies
 - \$12.2m gain realised from IP contribution to PLS UJV
- Gross profit up 66% to \$10.3m

Diligent investment

- Opex of \$42.1m (FY23: \$31.7m) is an investment in capability & capacity building for commercialisation
- Additional research, development & engineering accounted for 67% of the total increase in operational expenditure
- Investment partially offset by \$5.2m (FY23: 10.7m) in grants & tax rebates

Capital strategy

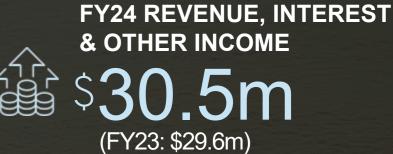
- Cash balance of \$43.0m at 30 June 2024, down just 10% from 31 December 2023
- Balance sheet, growing revenue streams & cost management discipline to support current operations & technology development
- Capital management & funding strategy continues to focus on opportunities to secure capital in the form of equity, debt or grants at the subsidiary & project level to fund projects & accelerate industry application



FY24 PRODUCT & SERVICES REVENUE



(FY23: \$18.6m)



LEILAC SERVICES REVENUE



FY24 GRANT FUNDING & TAX INCENTIVES



\$5.2m

FY24 GROSS MARGIN



(FY23: 33%)

FY24 GROSS PROFIT



PLS UJV GAIN



INVESTMENT IN PROPERTY, PLANT & EQUIPMENT



\$15.1m

CASH ON HAND



(31 Dec 2023: \$47.8m) (30 June 2023: \$74.5m)



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Statement of profit or loss

	FY 24 (\$m's)	FY 23 (\$m's)
Revenue	30.5	29.6
Magnesia revenues	21.0	18.5
Leilac revenues	3.2	0.1
Grants, other income and interest income	6.3	11.0
Cost of sales	(13.9)	(12.4)
Gross profit and other income	16.6	17.2
Sales & marketing expenses	(10.7)	(9.5)
Research & development expenses	(21.4)	(14.5)
Administration & other expenses	(9.9)	(7.7)
Depreciation, amortisation & impairment expenses	(7.4)	(5.9)
Share based payments expense	(5.1)	(2.7)
Other expenses	(0.6)	(0.4)
Gain on investment in UJV	12.2	-
Loss from ordinary activities	(26.3)	(23.5)
Income tax benefit	0.1	0.1
Loss for the year	(26.2)	(23.4)



Key takeaways

- Growing & diversified revenue streams
 - Growing revenue through Leilac customer engineering studies
 - Continued revenue & margin growth in Magnesia business
 - Additional revenues from customer material testing
- Gain resulting from co-investment with Pilbara Minerals UJV
- Focused investment
 - Investment in capability & capacity building for commercialisation
 - Key projects were supported by grant funding & paid engineering
- Refer to slide 21 for indicative timelines for revenue generation by business line



Statement of financial position

	June 24 (\$m's)	June 23 (\$m's)
Cash and cash equivalents	43.0	74.5
Trade, other receivables and other assets	4.3	10.3
Inventories	5.4	4.3
Current assets	52.7	89.1
Trade, other receivables, other assets & right of use asset	2.8	1.2
Intangible assets	12.6	9.1
Goodwill	3.6	3.6
Property, plant and equipment	40.6	24.4
Non-current assets	59.7	38.4
Trade & other payables	12.2	5.3
Borrowings	0.8	0.3
Current lease liabilities	0.8	0.3
Provisions	1.9	1.7
Deferred revenue	10.1	13.3
Current liabilities	25.8	20.9
Non-current lease liabilities	1.7	0.6
Provisions	0.5	0.5
Deferred tax	0.4	0.5
Non-current liabilities	2.6	1.6
Net Assets	84.0	105.0



Key takeaways:

- Balance sheet remains strong & essentially debt free
- Flexibility retained to pursue the right capital & commercialisation strategy at the subsidiary level.
- Cash position at 31 Dec 2023 was \$47.8m, therefore, cash decreased by 10% in the second half to \$43.0m



Statement of cash flows

	June 24 (\$m's)	June 23 (\$m's)
Receipts from customers	22.7	18.6
Receipts from government bodies	10.8	7.4
Payments to suppliers and employees	(48.2)	(43.2)
Interest received	1.1	0.3
Interest paid	(0.1)	(0.3)
let cash used in operating activities	(13.7)	(17.2)
Receipts from government bodies	2.1	-
Purchases of property, plant & equipment	(15.1)	(9.9)
Purchase of intangible assets	(4.3)	(3.2)
Payments for loans to directors	(0.3)	-
Receipts of repayment of loans to directors	0.1	1.2
let cash used in investing activities	(17.5)	(11.9)
Proceeds from issue of shares	-	81.6
Payment for transaction costs related to issue of shares	-	(2.0)
Payment for lease principal	(0.7)	(0.4)
Proceeds from borrowings	1.6	1.7
Repayment of borrowings	(1.2)	(2.3)
let cash (used in) / provided from financing activities	(0.3)	78.6
Net movement in cash	(31.5)	49.5
Cash at the beginning of the year	74.5	25.0
Cash at the end of the year	43.0	74.5



Key takeaways:

- Healthy cash position to pursue our opportunities
- Net cash movement in 1H was (\$26.7m) and in 2H was (\$4.8m)
- Investment in property, plant & equipment to drive future growth:
 - Two new US manufacturing plants
 - Built and successfully commissioned a nextgen electric calciner at Bacchus Marsh
 - Investment in Mid-Stream Demo Plant together with Pilbara Minerals

FY24 Operational Achievements



Focused delivery across all lines of business

KPI Dashboard for FY24

- Competed
- Part completed
- Pivot
- Not delivered

GATEWAY
All High
Level SHESQ
action items
completed
on time



Carbon Capture 6.7 / 10

- Leilac-2 all permitting & civil works complete¹
- Continue to move projects down the pipeline
- BOD for green methanol consortia project



Sustainable Processing

8.0 / 10

Spodumene

 Spodumene Project construction commenced

Iron & Steel

- Successful expanded ore program
- Completed FEED study leading to FID

Alumina

First successful pre-FEED

Advanced Batteries

 First battery module in consumer product²



Magnesia

9.5 / 10

Water

Continued revenue growth US, Asia

Mg Metal

BOD for Mg metal plant

Specialities

Continued commercialisation of Agriculture, Marine Coatings and Biotech applications



10





 Project
 Partner
 Partner funding support
 Industry
 Market size

 Heirloom − LA, USA
 Heirloom
 Image: Partner funding support
 Direct Air Capture
 >1 BTpa CO₂¹

Objectives

- Build Leilac's electric calcination and carbon capture technology at Heirloom DAC facilities in Shreveport, Louisiana, USA.
- A first facility aims to enable CO₂ removal of ~17,000 tons per year
- A second, co-located facility aims to add an additional ~300,000 tons per year of CO₂ removal capacity as a part of Project Cypress²

FY24 achievements

- Signed a global & perpetual licence agreement for the exclusive use of Leilac's technology by Heirloom³, US\$3 / tonne CO₂ base royalty rate
- Commenced paid engineering for the design of electric single & multi-tube modules for Heirloom's DAC process
- Conducted a second successful R&D campaign with Heirloom using Calix's BATMn electric calciner

Targeted next steps

- Continue to deliver paid engineering services to complete detailed engineering & design work
- Construct a ~17,000 tons of CO₂ per annum facility, with operations targeted to commence in 2026
- Construct a ~300,000 tons of CO₂ per annum facility, with operations targeted to commence in 2027





3. ASX Announcement. Calix announces Heirloom licence agreement. 30 Oct. 2023

4 ASX Announcement. Calix announces update on DAC projects. 25 Jun 2024





Market size Project Partner Funding support Industry Heidelberg Materials Leilac-2 Cement & lime 1.4 BTpa CO₂1

Objectives

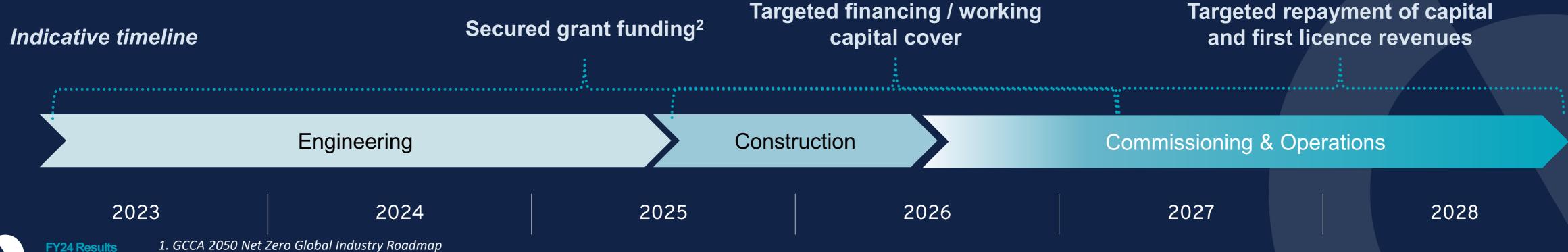
- Demonstrate a replicable module that can efficiently capture up to 100ktpa of unavoidable process emissions
- Successfully retrofit the Leilac module to an operational cement plant with minimal downtime
- Demonstrate the ability to use low-cost and lowcarbon fuels

FY24 achievements

- Project successfully relocated to Heidelberg Materials' Ennigerloh cement plant, following closure of Hannover plant³
- JV formed with Heidelberg Materials for the construction, operation & future ownership of the Leilac-2 plant, subject to performance testing
- Upon transfer of ownership, Heidelberg Materials would repay Leilac's capital contribution, less depreciation

Targeted next steps

- Complete permitting process
- Commence construction in 2025
- Begin commissioning & operations in 2026



27 August 2024

4. ASX Announcement. Calix announces Leilac and Heidelberg Materials JV for L-2 . 11 Jun 2024





 Project
 Partners
 Funding support
 Industry
 Market size

 Project ZETA
 ♦ VAST
 VAST
 Cement & lime
 1.4 BTpa CO₂¹

Objectives

- Build a commercial demonstration electric calciner for near zero emissions lime & cement
- Sell captured process CO₂ emissions to the Solar Methanol 1 project³ to produce green methanol
- Sell decarbonised lime products in collaboration with partners
- Develop a novel zero emissions cement making process that reduces cost, energy consumption & footprint

FY24 achievements

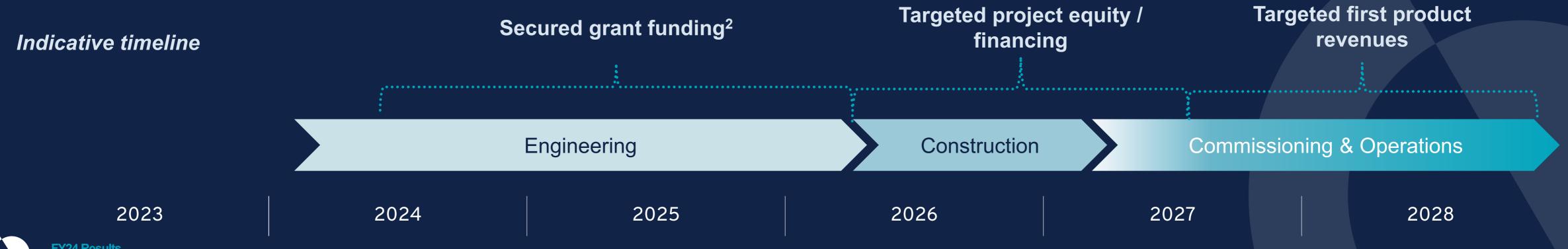
- Strengthened collaborations & partnerships in first-of-a-kind Carbon Capture & Use project
- Progressed engineering & design of the plant

July 2024

Awarded a \$15m grant from the Australian Government

Targeted next steps

- Complete pre-FEED study
- Progress FEED study to enable a Final Investment Decision





Leilac-3: Full-scale cement & lime deployment



Projects	Partners	Funding support	Industry	Market size
Multiple in development	Heidelberg Materials + others	TBC	Cement & Lime	1.4 BTpa CO ₂ ¹

Objectives

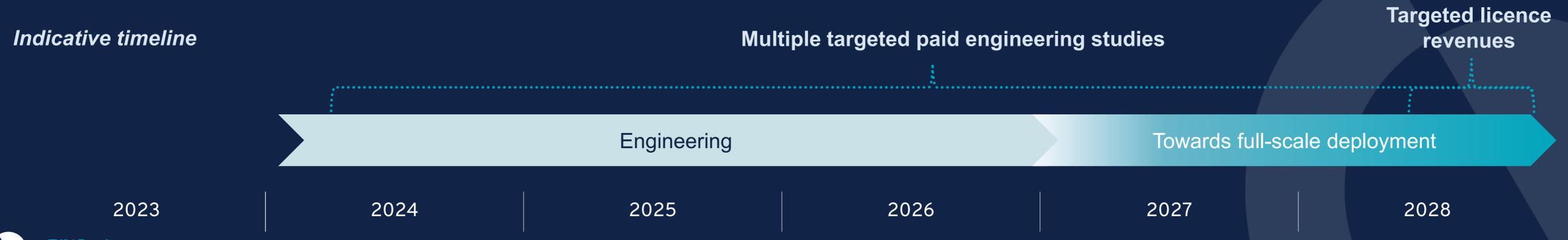
- Deploy Leilac's technology at full-scale with multiple partners in the cement & lime industry
- Commercial demonstration of Leilac's technology as the leading decarbonisation solution in key target markets

FY24 achievements

- Heidelberg Materials & Leilac committed to explore the development of a full-scale commercial installation²
- Progressed multiple projects in the pipeline
- Progressed technology development & engineering work for full-scale designs

Targeted next steps

- Continue to progress commercial partnerships for full-scale applications of the Leilac technology
- Pursue funding support in target markets
- Continue to progress technology development & engineering work for full-scale designs





Mid-stream demonstration plant with Pilbara Minerals UJV



Project	Partner	Funding support	Industry	Market size
PLS UJV Mid-Stream	Pilbara Minerals	Australian Government Department of Industry,	Lithium	Royalty % of US\$7Bpa1

Objectives

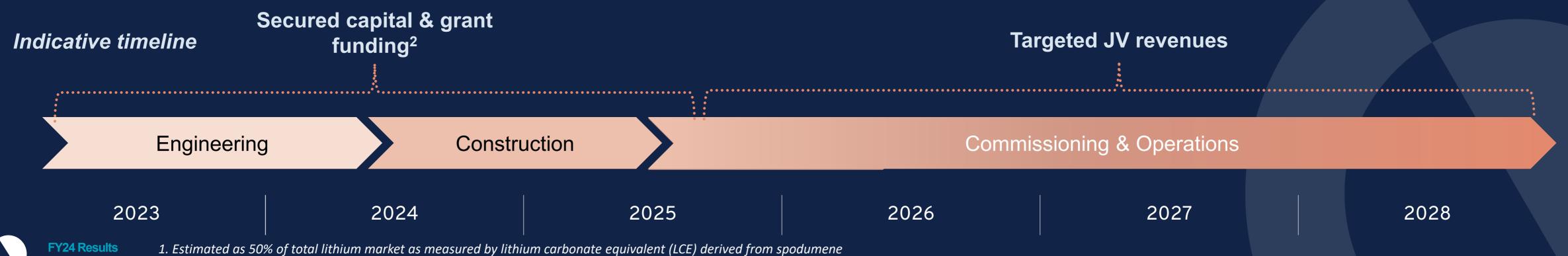
- Demonstrate lower CAPEX & OPEX for mineral processing with electric calcination
- Create a concentrated & low-carbon lithium product at the mine site
- Demonstrate the ability to simplify supply chains and unlock logistically challenging ore deposits

FY24 achievements

- Project remains on time & budget³
- Construction commenced bulk earthworks complete & preferred contractors selected
- Off-site fabrication of key equipment well progressed

Targeted next steps

- Commissioning due to commence in the March Quarter 2025
- First lithium salt production targeted for the June Quarter 2025







Project Partner **Funding support** Industry **Market size** Royalty % of HILTCRC Australian Government **ARENA ZESTY Green Iron Demo** Iron & Steel US\$640Bpa¹

Objectives

- Develop industry leading H₂-DRI technology
- Demonstrate green iron production from Australian ores & fines
- Minimise hydrogen use & green iron costs
- Enable multiple decarbonisation pathways for iron & steel

FY24 achievements

- ZESTY proven at pilot scale, with metallisation rates up to 98% from Australian hematite/goethite ores²
- First green iron briquettes produced
- FEED Study completed²
- Prospective techno-economic findings²
- Progress towards FID³

Targeted next steps

- Finalise commercial & financing contracts for **ZESTY Demo plant**
- Reach FID
- Continue to test & develop the technology

Indicative timeline

Secured grant funding⁴

Target grant funding / financing / paid engineering

2026

Target first tolling revenues

Engineering

Construction

Commissioning & Operations

2023 2024 2025

2028

27 August 2024



^{2.} Calix ASX Announcement. ZESTY FEED study results published. 12 Feb 2024

2027





Product	Partners	Funding support	Industries	Market size
Magnesium Hydroxide Liquid	Centre for Environmental and Agricultural Solutions to Antimicrobial Resistance SAAFE CRC Solving Antimicrobial Resistance in	N/A	Water, Agriculture, Bio	Multi US\$Bpa¹

Objectives

- Grow sales of MHL products for sustainable water
 & wastewater treatment
- Develop crop protection products using Calix's safe
 & sustainable bioactive materials
- Develop non-toxic marine coatings solutions
- Develop non-lethal control of pathogens to help prevent antimicrobial resistance

FY24 achievements

- \$21.0m revenue (\(\gamma\)14%)
- \$7.0m gross profit (↑16%)
- Opened 2 new hydration facilities, increasing U.S. production capacity by up to 50%
- Excellent results for BOOSTER-Mag in the control of fungal disease in olive trees in Greece
- CRC SAAFE study confirmed control of drugresistant animal & human bacteria
- Long-term testing of marine coatings continued successfully
- New Patent filed for magnesium metal process

Targeted next steps

- Accelerating revenue growth in Calix's Water business
- Completing the pre-FEED study for a magnesium metal plant
- Continuing to develop and commercialise Calix's platform technology for applications in agriculture, marine coatings & biotech



Growing direct sales

2025 2026

17

2024

Sustainability | FY24 Key Achievements

AMBITION

FY24 KEY ACHIEVEMENT

Minimise impacts on the environment

Decarbonise operations

Reduce emissions in line with a 1.5-degree pathway

Completed a more robust and accurate greenhouse gas emissions footprint, including detailed Scope 3

Address resource consumption

Addressing the sustainability of the materials and resources we use in our business

Distributed 38 Intermediate Bulk Containers (IBCs) for reuse and trialled cardboard IBCs for recycling

Protect and invest in people

Increase diverse representation

Achieve gender balance of 40:40 at all levels of the organisation by 2030

Launched our first Diversity, Equality and Inclusion (DE&I) series

Ensure zero harm

Realise zero harm through a safe workplace

Enhanced company-wide Health & Safety management system to improve usability & effectiveness













Calix supports the Sustainable Development Goals





















FY25 SUMMARY & OUTLOOK





FY25 KPI Dashboard Targets



Key priorities – Initiatives driving revenue growth

KPI Dashboard Targets for FY25

Corporate 10%

 Corporate Affairs, Sustainability, People & Culture KPIs

GATEWAY
All High
Level SHESQ
action items
completed
on time



Carbon Capture 30%

- Leilac-2 Ennigerloh site works commenced
- Pipeline at least 3 x Scoping / BOD complete leading to contracted pre-FEED studies
- Heirloom Project DOS construction commenced
- Pre-FEED complete for green methanol "HyGATE" project



Sustainable Processing 30%

Spodumene

- PLS UJV Project commissioned
- At least 1x 3rd party contracted ore study

Iron & Steel

 FID – Demo Plant leading to Detailed Engineering

Alumina

 1 x FEED study commenced with 3rd party for Demo Plant



Magnesia 30%

Water

 Continued revenue growth US, Asia

Mg Metal

Pre-FEED completed for Mg metal plant

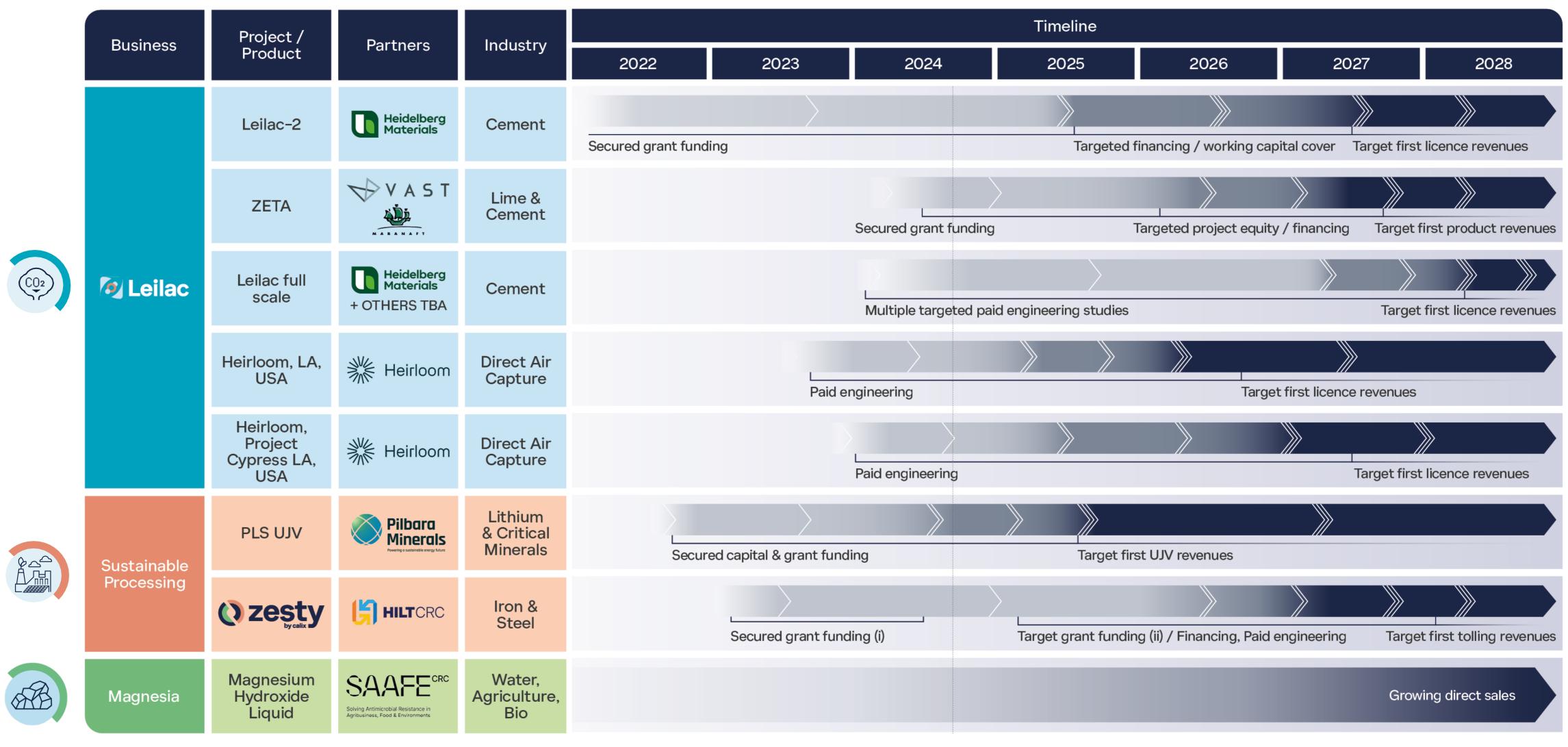
Specialities

 Continued commercialisation of Agriculture, Marine Coatings & Biotech applications



Indicative project & revenue timeline













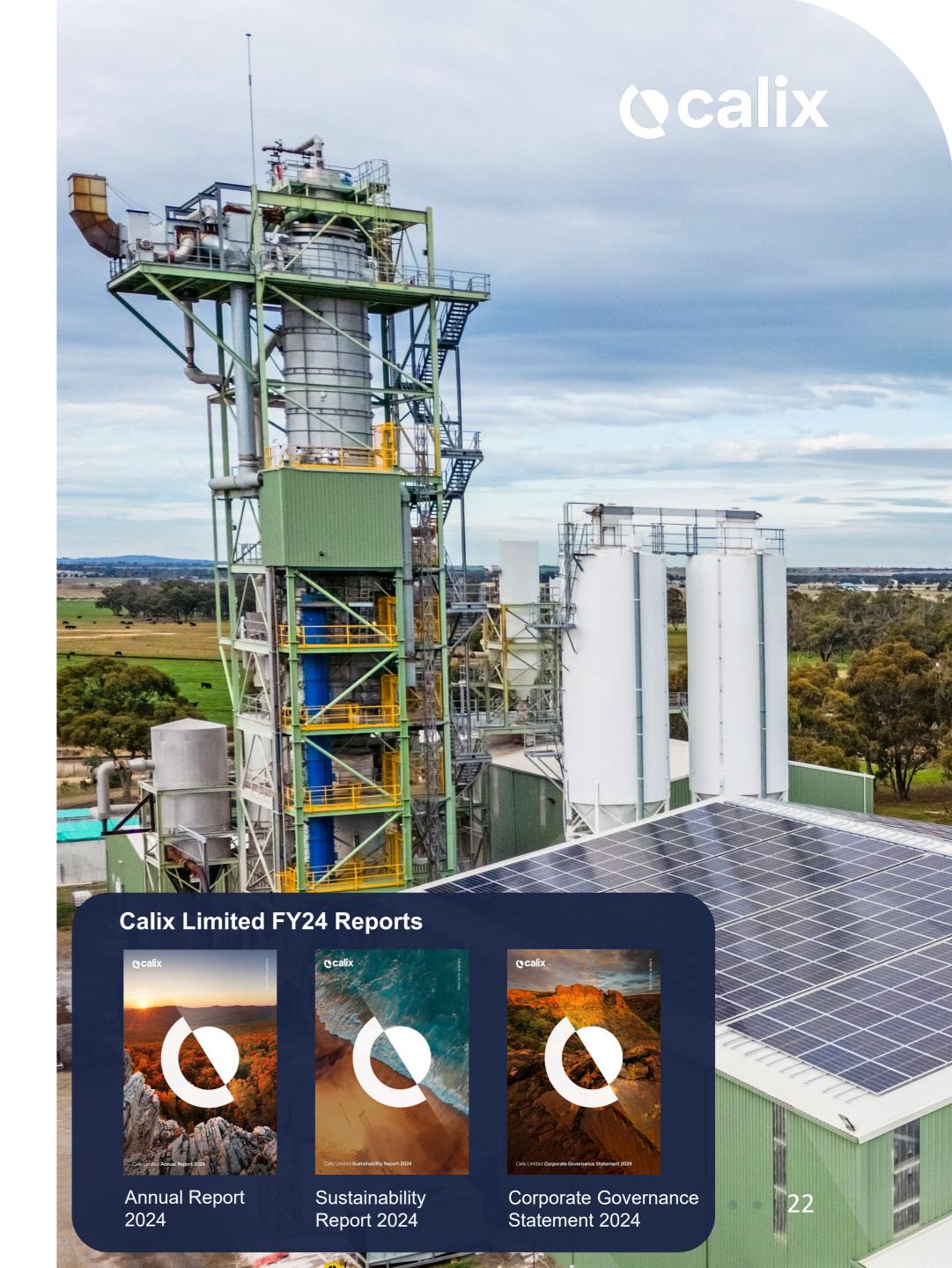
Engineering Construction Commissioning & Operations

Summary and FY25 Outlook

Growth focused strategy

- Demand for Calix's technology continues to grow, driven by government policy & the need for cost-effective & low-carbon mineral processing solutions
- Industry demand is being translated into new revenues through paid engineering & customer material testing
- Core focus is on progressing priority projects to commercially demonstrate core technology in cement & lime, iron & steel, lithium & Direct Air Capture industries
- Magnesia business is targeting continued growth in revenue & margins with the expanded production platform
- Growing & diversified revenues, coupled with secured grant funding & a strong balance sheet, provide the cash support required to fund current operations & technology development
- Diligent cost management will continue to be focused on key project delivery
- Capital management & funding strategy continues to focus on opportunities to secure capital in the form of equity, debt or grants at the subsidiary & project level to fund projects & accelerate industry application





Board of Directors

Ocalix

Board further strengthened with appointments of Dr Sarah Ryan and Peter Dixon Alison Deans to become Chair following Peter Turnbull's retirement on 30 Sept 2024



Peter Turnbull, AM Non-Executive Chair (Retiring 2024)

- Experienced Chair and Non-Executive Director
- Significant board and senior executive experience in the Australian and global resource, energy and technology sectors
- Non-Executive Director of Karoon Energy Ltd. (ASX: KAR), Chair of Canadian medtech Auxita Pty Ltd, and Immediate Past President of the Chartered Governance Institute (London).
- Member of People, Culture and Nomination Committee, and Member .
 of Audit and Risk Management Committee



Alison Deans
Non-Executive Director
(Chair-Elect)

- Experienced Chair and Non-Executive Director
- Significant board and senior executive experience in technology-enabled growth companies.
- Chair of Cochlear Limited (ASX: COH), Non-Executive Director at Ramsay Health Care Limited (ASX: RHC), & Non-Executive Director at Deputy Group Pty Ltd & Fitness Passport Pty Ltd.
- Investment Committee member at Main Sequence Ventures
- Previously CEO at eBay Australia and New Zealand,
- MBA from the Stanford Graduate School of Business and a MA from Cambridge University.



Helen Fisher
Non-Executive Director

- CEO and Managing Director of Bio Capital Impact Fund (BCIF)
- Chair of Victorian branch of AusBiotech
- Previously a partner of Deloitte for 11 years
- 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 Audit and Risk Management Committee and Sustainability Committee



Dr Sarah RyanNon-Executive Director

- Non-executive director of Viva Energy Group Limited (ASX:VEA), Aurizon Holdings Limited (ASX:AZJ), Transurban Group (ASX:TCL) & the Future Battery Industries CRC
- Previously a non-executive director of Oz Minerals Limited (ASX:OZL) and Woodside Energy Group Limited (ASX:WDS)
- Strategic Advisory Panel Member of the ARC Centre of Excellence for Green Electrochemical Transformation of Carbon Dioxide
- Fellow of the Australian Academy of Technological Sciences and Engineering Chair of the Energy Forum
- BSc from the University of Melbourne, BSc from the University of Adelaide, PhD from the University of Adelaide
- Chair of Technology committee



Peter Dixon
Non-Executive Director

- Over 25 years of diverse corporate experience across the legal, investment banking, strategy & funds management sectors
- Deep expertise in corporate strategy, investment management, corporate advisory & legal governance
- Chief Strategy Officer for HPX Group Pty Ltd
- Non-executive director at Johns Lyng Group Limited (ASX:JLG).
- Formerly at Mallesons Stephen Jacques (Sydney), Linklaters (London), MA Financial Group (ASX:MAF) & Macquarie Group Limited (ASX:MQG).
- Bachelor of Commerce (Finance) and a Bachelor of Laws from the University of New South Wales.
- Chair of People, Culture & Nomination Committee



Dr Phil HodgsonManaging Director & Chief
Executive Officer

- 14 years of multidisciplinary experience with Shell, including as the General Manager and Alternate Director of its subsidiary Fuelink Pty Ltd, a \$700m revenue, 300employee 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.
- Member of Calix's Technology Committee.



Dr Mark Sceats
Executive Director & Chief
Scientist

- Co-founder of Calix
- Physical chemist with numerous academic roles, fellowships & recognitions
- CEO of the Australian Photonics CRC for 14 years
- Fellow of the Australian Academy of Technological Sciences and Engineering (ATSE)
- Author of more than 165 academic papers in physical chemistry and inventor of 55 patented inventions
- Member of Calix's Technology Committee









Term	Meaning			
Aluminium (Al)	Chemical element with the symbol Al			
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 Agency			
ASX	The Australian Securities Exchange			
APVMA	Australian Pesticides and Veterinary Medicines Authority			
ASRS	Australian Sustainability Reporting Standards			
BATMn	Calix's core kiln technology – electrified – for battery and catalyst materials production and other applications testing			
BOD	Basis of Design			
BOS	Basic Oxygen Steelmaking			
CAGR	Compound Average Growth Rate (%)			
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			
СВАМ	Carbon Border Adjustment Mechanism			
CBP	Community Benefits Plan			
CCS	Carbon Capture and Storage			
CCU	Carbon Capture and Use			
CCUS	Carbon Capture, Utilisation and/or Storage			
CEA StAR	Centre for Environmental and Agricultural Solutions to Antimicrobial Resistance			
CO ₂	Carbon Dioxide			
Copper (Cu)	Chemical element with the symbol Cu			

Term	Meaning
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
DE&I	Diversity, Equality and Inclusion
EAF	Electric arc furnace – a furnace that heats material by means of an electric arc between two electrodes
EAP	Employee Assistance Program
EBITDA	Earnings Before Interest, Tax, Depreciation and Amortisation
EIS	Employee Incentive Scheme
ESF	Electric Smelting Furnace – Used to convert Direct Reduced Iron (DRI) to iron suitable for a Basic Oxygen Steelmaking (BOS) process.
ESG	Environment, Social and Governance considerations
EU	European Union
ETS	Emissions Trading Scheme
FEED	Front-End Engineering Design
FID	Final Investment Decision
Fines	Small particles, which are usually very difficult to handle in mineral processing and are often discarded as waste
FY	Financial Year
GHG	Greenhouse gas, often measured in tonnes of CO ₂ equivalent (tCO ₂ e)
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 ₂ -DRI	The process of directly reducing iron ore to metallic iron with hydrogen as the reductant



Term	Meaning		
Hematite	A mineral that is an ore of iron		
HILT CRC	Heavy Industry Low-carbon Transition Cooperative Research Centre		
Hydrometallurgy	A metal recovery method used to obtain metals from ores and waste materials		
HyGATE	German-Australian Hydrogen Innovation and Technology Incubator		
IBCs	Intermediate Bulk Containers		
IFRS	International Financial Reporting Standards		
Iron (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		
JV	Joint venture		
LCA	Lifecycle Assessment or Lifecycle Analysis, is a methodology for assessing environmental impacts associated with all the stages of a product or process		
Leilac	Calix's core calciner technology for Low Emissions Intensity Lime and Cement production with CO ₂ capture of process emissions		
LFP	Lithium Iron Phosphate – a battery cathode material		
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		
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		



Term	Meaning		
MHL	Magnesium Hydroxide Liquid		
MOU	Memorandum of Understanding		
Nanoporous	A material with a regular, porous structure, with a pore size generally less than 100 nanometres.		
Pelletisation			
PLS	The formation of pellets from finer materials to aid in handling		
	Pilbara Minerals, an Australian lithium mining company Chamical alament with the symbol K		
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.		
SDGs	The UN's Sustainable Development Goals designed to serve as a "shared blueprint for peace and prosperity for people and the planet, now and into the future."		
Siderite	A mineral that is an ore of iron		
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) to form metallic iron		
Steel	Mainly iron, with some carbon and other trace metals such as nickel, manganese etc depending upon the grade of steel being made		
TAM	Total Addressable Market		
Тра	Tonnes per annum		
TRL	Technology Readiness Level, as measured on the NASA scale		
UJV	Unincorporated Joint Venture		
UNGC	The United Nations Global Compact, the world's largest corporate sustainability initiative		
Wh / kWh	Watt-hours / kilowatt-hours – a measure of energy		
ZEAL	Calix's Zero Emissions ALumina technology		
ZESTY	Calix's Zero Emissions Steel TechnologY		
ZETA	Calix's 'Zero Emissions Technology Made in Australia' CCU project for zero emissions lime and cement in South Australia		





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