11 October 2023

Calix Investor Presentation – October 2023

Sydney, Australia | 11 October 2023 – Australian environmental technology company, Calix Limited (ASX: CXL) ("Calix" or "the Company") is pleased to provide a copy of its presentation to Bell Potter Securities Limited.

The following presentation is to be delivered by Managing Director and CEO, Phil Hodgson at 11:00am (Eastern Daylight Time) on Wednesday 11th October 2023.

-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

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, CO_2 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: CalixLimited

For more information:

Phil Hodgson
Managing Director and CEO
phodgson@calix.com.au
+61 2 8199 7400

Darren Charles
CFO and Company Secretary
dcharles@calix.com.au
+61 2 8199 7400

Investor enquiries
investorrelations@calix.global

Media enquiries
media@calix.global

calix

A platform technology to decarbonise heavy industry

October 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 11 October 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.

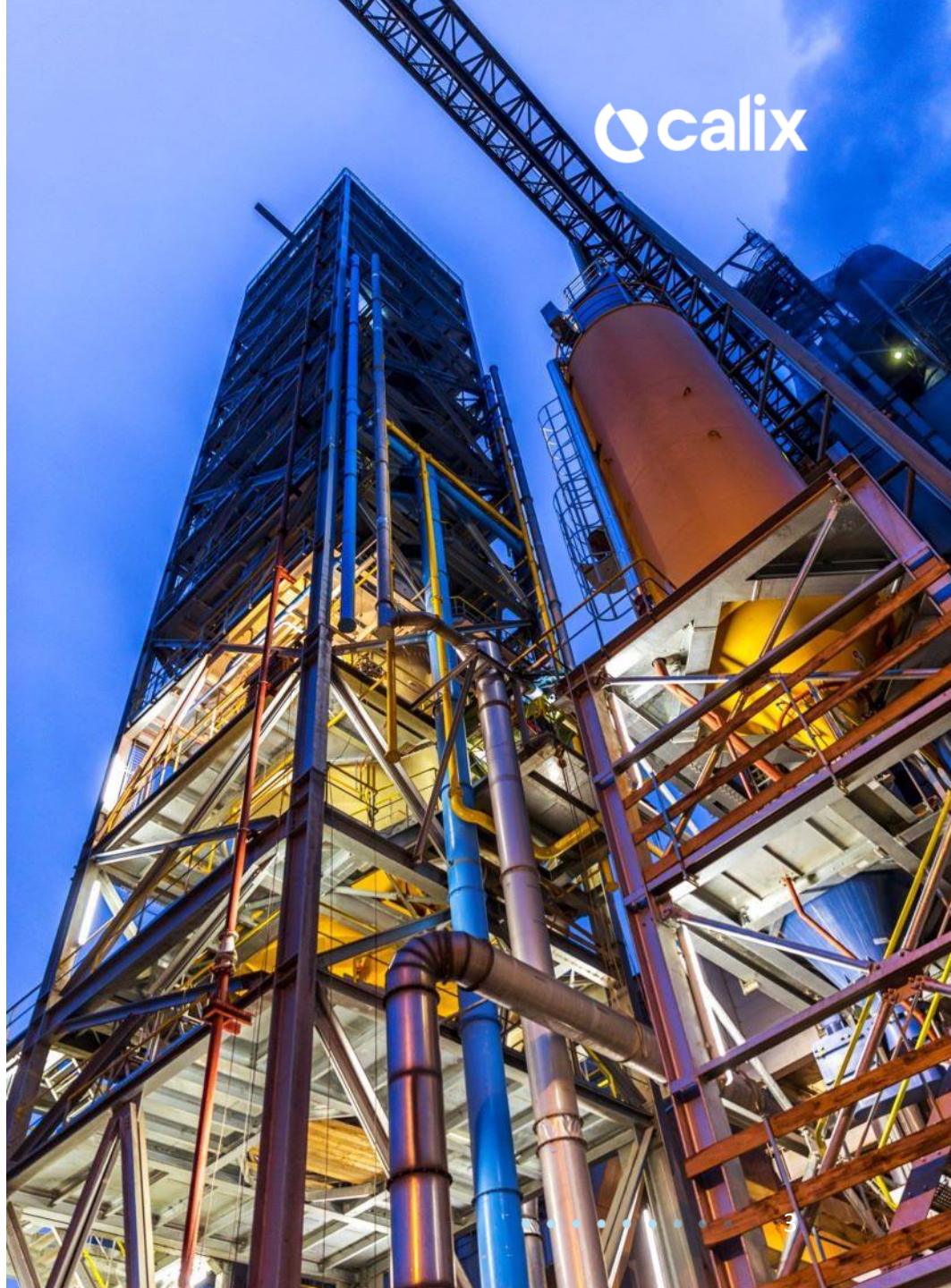
NO ADVICE

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.

Executive Summary

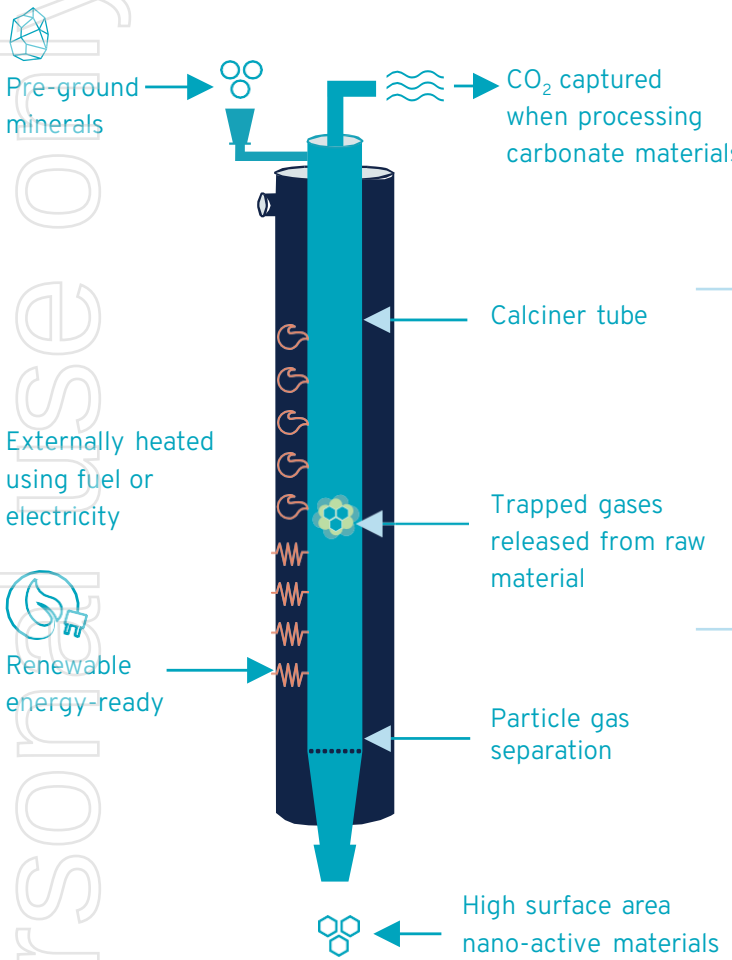
FY24 Q1 update

- **Strong financial position:**
  - Balance sheet strength and flexible capital strategy to pursue commercialisation opportunities
  - Revenue and margin growth supporting investment in people
- Focused on **delivering key decarbonisation projects:**
  - **Cement and lime**: Scaling and retrofitting the Leilac technology with the Leilac-2 Project
  - **Green iron and steel**: Designing a demonstration plant for Calix's Zero Emissions Steel TechnologY (ZESTY)
  - **Critical Minerals:** Building a sustainable lithium processing demonstration plant with Pilbara Minerals (ASX: PLS)
  - **Direct Air Capture:** Applying the Leilac technology to the removal of atmospheric carbon dioxide with Heirloom
- At the end of Q1, **all FY24 KPIs on track**



Calix's core platform technology

A new way to "heat stuff up"



CO_2 CAPTURE

Unavoidable process CO_2 emissions from cement and lime production are separated for use or storage.

RENEWABLE ENERGY-READY

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

HIGHLY-ACTIVE MATERIALS

Produces high surface area nanoporous materials with enhanced chemical and/or bioactivity.

Policies driving decarbonisation

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

EUROPE

Emissions Trading Scheme

- €80 – 2022 average EU ETS price, up from €50 in 2021
- 2.2% year-on-year reduction in free CO_2 permits to 2030

Carbon Border Adjustment Mechanism

- A new carbon tariff, commencing in 2023
- Paves the way for phase out of exemptions for heavy industry

Innovation Fund

- Energy, CCU/S, Energy Storage
- €10b funding from 2020 to 2030
- Up to 60% project cost contribution

Net-Zero Industry Act

- CCS identified as a strategic priority
- 50 million tonnes of annual CO_2 storage capacity to be developed by 2030

US

Inflation Reduction Act

- US$85 / tonne of CO_2 permanently stored
- US$180 / tonne for DAC + permanent CO_2 storage
- US$130 / tonne for DAC + used CO_2

US-Australia Climate, Critical Minerals & Clean Energy Transformation Compact

- Fast-track critical mineral supply chains
- Access to US capital and IRA benefits for Australian companies
- Australia to be a 'domestic source' under DPA, enabling financing and purchasing of Australian minerals

DAC hubs

- US$3.5 billion to establish Regional Direct Air Capture hubs
- Develop networks to facilitate sequestration or carbon utilization

AUSTRALIA

Safeguard Mechanism

- A price on carbon, capped at AU$75

AU$15b National Reconstruction Fund

- Up to AU$3b for renewables and low-emission technologies & AU$1b for value-adding in resources.

AU$1.9b Powering the Regions Fund

- AU$600m Safeguard Transformation Stream
- AU$400m Industrial Transformation Stream
- AU$200m for Critical Inputs to Clean Energy Industries – Cement, Lime, Alumina and Aluminium Sector

Critical Minerals Strategy

- Value-add, downstream processing & decarbonisation

Carbon Border Adjustment Mechanism

- Review of an Australian CBAM underway

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 being developed in a joint venture
- 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 Apr-Jun Qtr 2024.
- Targeting production of first lithium salt in Apr-Jun Qtr 2025.
- Demonstration Plant CAPEX is ~ AU$105m
  - Supported by $20m in Australian Government funding
  - Calix will receive ~24% free carried equity in the facility, targeting $17.5m CAPEX contribution for 45% equity

Carbon emissions savings

A Life Cycle Assessment study[1] 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

1. Minviro Lifecycle Assessment study on the climate change impact of lithium, commissioned by Pilbara Minerals

Leilac – Scaling up the Leilac technology

A modular design for delivery through a blueprint model

calix

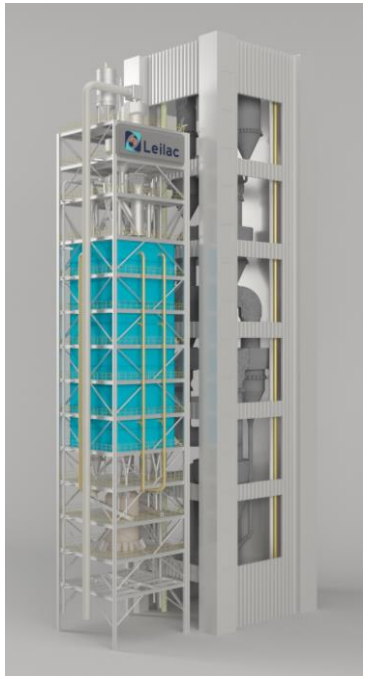
Leilac-1
Pilot plant

Lixhe, Belgium 2019
CO_2 capacity: 25 ktpa
Clinker: 160 tpd
~5% throughput

CAPTURE CO_2 | TUBE QTY 1

Leilac-2
Demonstration plant

Hannover, Germany
CO_2 capacity: 100 ktpa
Clinker: 640 tpd
~20% throughput



CAPTURE CO_2 | TUBE QTY 4

Leilac-3
Full scale

The future
CO_2 capacity: 500+ ktpa
Clinker: 3000+ tpd
100% throughput

CAPTURE CO_2 | TUBE QTY 20+

Heidelberg Materials · TARMAC A CRH COMPANY · CEMEX Building a better future · SOLVAY · Lhoist · CIMPOR · ENGIE Laborelec · Port of Rotterdam

Leilac – a growing pipeline of projects

	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	4 (ADBRI, CEMEX)	2 (TARMAC)	1 Leilac-2	1 Leilac-1	76

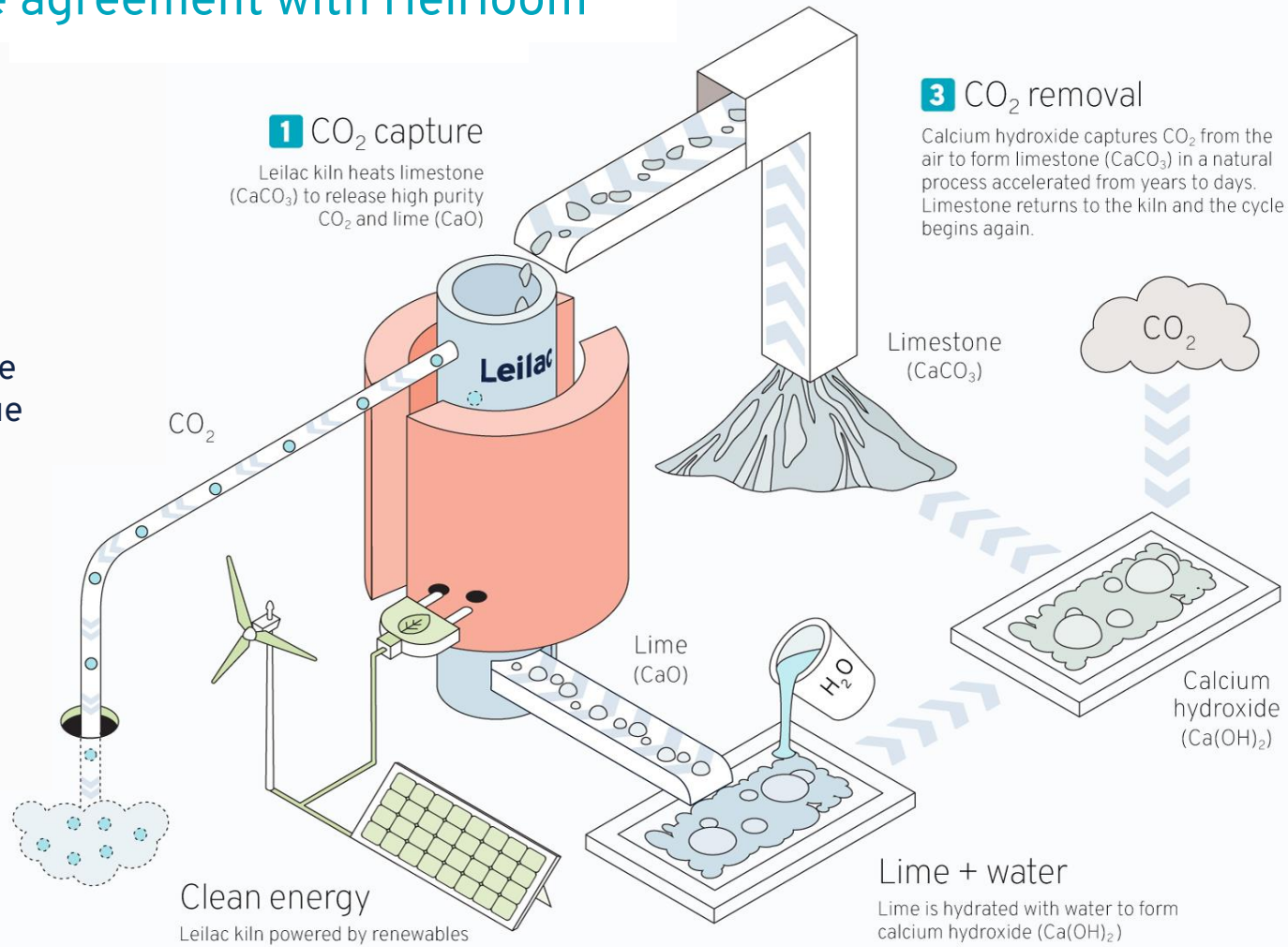
- Pipeline growth: as at August 2023 there were **76 projects** in the pipeline.
  - Projects are ~ 2/3 cement and 1/3 lime, at average capacity of 500kTpa CO_2 for cement and 80 kTpa CO_2 for lime.
  - Leilac pipeline represents potential for over **20 Mtpa of CO_2 abatement projects.**
- **TARMAC** project passes UK Govt due diligence: 30kTpa lime facility with partial H_2 firing and CO_2 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 CO_2 capture.
- **Leilac-2** – site works (demolition) have started after some permitting delays – likely to push completion / commissioning into 2025.

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

Leilac Direct Air Capture

Non-binding MOU for DAC global licence agreement with Heirloom

- Heirloom is a Direct Air Capture (DAC) company with an objective of capturing 1 billion tonnes of CO_2 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.[1]
- **Microsoft** has purchased 315,000 tonnes of carbon dioxide removal (CDR) credits from **Heirloom** at an estimated value of US$200million.[2]
- Leilac and Heirloom have signed a MoU covering the key terms for a global and perpetual licence agreement that, once executed, will apply to any Heirloom facility.
- The technology licence fee comprises:
  i. A royalty floor of US$3 / tonne of CO_2 captured; and
  ii. A variable royalty rate based on the prevailing CO_2 price for lime decarbonisation, less the amortised cost of capital of the Leilac kiln / tonne of CO_2 separated.
- A collaboration agreement includes US$3m in R&D contribution from Heirloom.



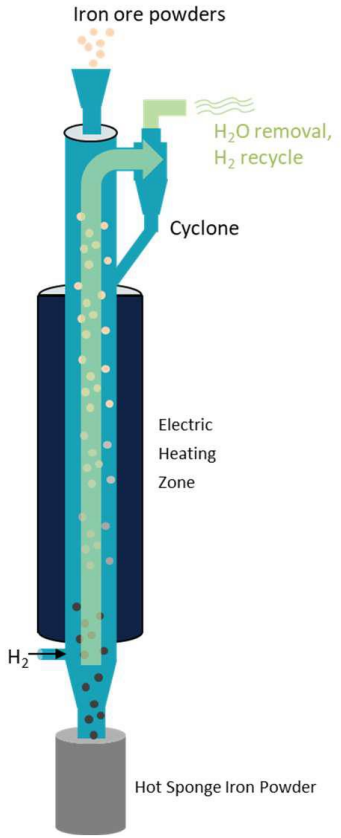
1. Biden-Harris Administration Announces Up To $1.2 Billion For Nation's First Direct Air Capture Demonstrations in Texas and Louisiana
2. https://www.wsj.com/us-news/climate-environment/microsoft-will-use-carbon-absorbing-rocks-to-meet-climate-goals-57ea802a

Zero Emissions Steel TechnologY

Potential lowest cost green iron & steel

About ZESTY

- Hydrogen reduction of iron ore (H-DRI)
- Can be easily and efficiently renewably powered
- Targeting theoretical minimum hydrogen use – simple gas recycle
- Processes fines <~0.3mm, no pelletisation
- Compatible with multiple ore types, including Hematite
- Targeting zero emissions iron and steel*



Australian Government
Australian Renewable Energy Agency
ARENA 10 YEARS

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

Development – Phase 1 & 2 completed:

- ✓ Theoretical kinetic studies
- ✓ Conversion of electric calciner to run hydrogen
- ✓ Confirmation of electric calciner + hydrogen reduction performance
- ✓ Successful pilot testing with multiple ores. 90%+ H-DRI metallisation rates achieved.

Phase 3: Pre-FEED / FEED study

- Design of 30,000 tpa, zero CO_2 emissions ZESTY-iron demonstration plant, supported by funding from ARENA.
- 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, Jul - Nov 2023
  - Site determination

Global commercialisation strategy

- Licensing, joint ventures and spin-out strategies are designed to commercialise each application of the core platform technology
- Equity investment directly into subsidiary businesses to accelerate commercialisation
  - Investment in single-focused specialist team
  - Application specific technology development
- Licence agreement with subsidiary delivers royalty income regardless of Calix's future shareholding

One core platform technology | **Multiple environmental business opportunities** | **Flexible capital / funding options**

Strategy in action:

- Sept 2021: Carbon Direct Capital Management invests in Leilac
  - €15m for a 6.98% stake, valuing Leilac at €215m in Sept 2021
  - Leilac spun-off as a standalone entity
  - Calix receives 30% of Leilac's royalty income regardless of Calix's shareholding in Leilac

Catalysing growth – Leilac Since Sept 2021:

- From 8 to > 40 employees across 12 countries
- From 21 to > 70 projects around the world
- Licence agreements
  - Signed with Heidelberg Materials
  - MoU with Heirloom
  - Under negotiation with Cemex and others

Leilac Carbon Direct

Valuing the opportunity

Selected benchmarks – October 2023

Green iron & steel – similar Technology Readiness Level

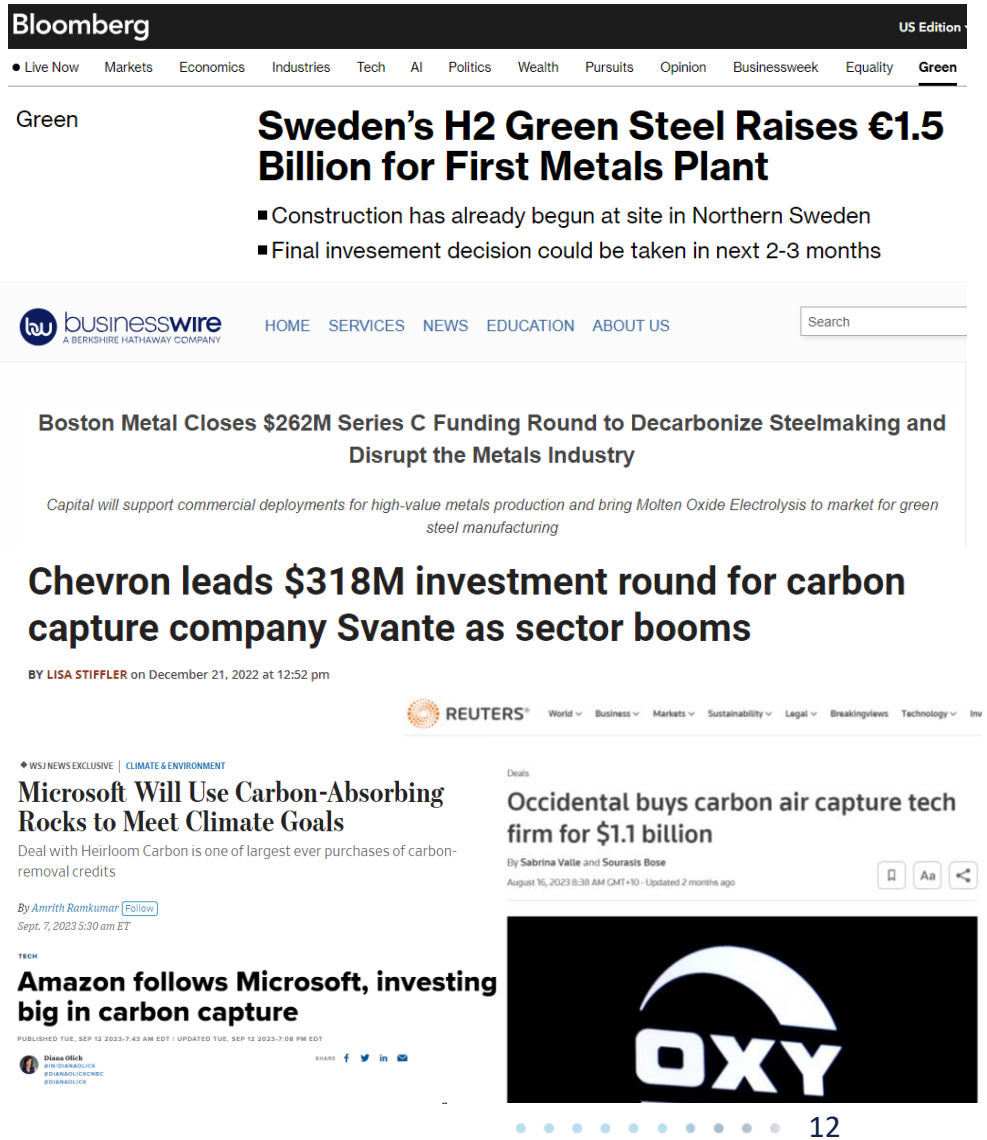
- **H2 Green Steel**
  - Multi-billion dollar valuation following US$1.5b impact investment in Sept. 2023
- **Boston Metals**
  - Impact investment of US$262m in green steel technology in Sept. 2023

Carbon capture – similar Technology Readiness Level

- **Svante Inc.**
  - Latest cap raise of US$318m, Dec 2022: Valuation ~US$1 billion

Direct Air Capture

- **Carbon Engineering** acquired by Occidental for US$1.1 billion
- **Microsoft** purchases 315,000 tonnes of carbon dioxide removal (CDR) credits from **Heirloom**. Estimated value of US$200million – > US$600 / tonne of CO_2
- **Amazon** purchases 250,000 CDR credits from **1PointFive**, an Oxy subsidiary



Source: company websites, businesswire.com, rbccm.com, Calix analysis

In summary

CEMENT & LIME

Leilac

Heidelberg Materials

CEMEX — Building a better future

Heirloom

SOLVAY

TARMAC — A CRH COMPANY

Lhoist

ENGIE Laborelec

IRON & STEEL

HILTCRC

ROY HILL

ADBRI

RioTinto

GRANGE RESOURCES

FMG Fortescue — The New Force in Iron Ore

MITSUBISHI HEAVY INDUSTRIES AUSTRALIA

LITHIUM

Pilbara Minerals

One core platform technology already at demonstration scale…

..targeting decarbonisation of multiple global industries…

…already working with some of the world's largest industrial players…

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

Darren Charles
CFO & Company Secretary
dcharles@calix.global
+61 2 8199 7400

Investor relations
Investorrelations@calix.global

Media enquiries
media@calix.global

Follow us on Twitter @Calixlimited

www.calix.global

Subscribe to our Newsletter

FY24 KPI dashboard

KPI Dashboard for FY24

- Successfully completed
- On track
- Watch point

GATEWAY 1
All High Level SHESQ action items completed on time

Leilac

CO_2 Capture

- Leilac-2 all permitting and civil works complete
- Continue to move projects down the pipeline
- Basis Of Design for green methanol consortia project

Sustainable Processing

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

Advanced Batteries

- First battery module in consumer product format
- Demonstration facility for cathode production – FEED completed
- Successful commercial format cell with a new Calix electrode chemistry

Magnesia

Water
- Continued growth US, Asia

Mg Metal
- Basis Of Design for Mg Metal plant

Specialties
- Continued commercialisation of Agriculture, Marine and AMR applications

Glossary

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
APVMA	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
CO_2	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

Glossary

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
HBI	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
HPO	"Hierarchical Porous Onion" - a crystal structure of lithium manganese oxide resembling tiny onion layers – allowing both strength and easier passage of lithium ions
Hydrometallurgy	A metal recovery method used to obtain metals from ores and waste materials
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
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

Glossary

Term	Meaning
LHM	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
MOU	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

Glossary

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 "shared 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
Tpa	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