



EGM Shareholder Presentation

20 January 2025

ASX/FSE: VUL

**DETERMINED FOR A
BETTER TOMORROW**

DISCLAIMER¹



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Forward-looking statements. This Presentation contains certain forward-looking statements. Often, but not always, forward-looking statements may be identified by the use of forward-looking words such as "may", "will", "expect", "intend", "plan", "estimate", "target", "propose", "anticipate", "continue", "outlook" and "guidance", or other similar words. By their nature, forward-looking statements inherently involve known and unknown risks, uncertainties and other factors that may cause actual results, performance and achievements to be materially greater or less than estimated, including those generally associated with the lithium industry and/or resources exploration companies. Any such forward-looking statements, opinions and estimates in this Presentation (including any statements about market and industry trends) are based on assumptions and contingencies, all of which are subject to change without notice, and may ultimately prove to be materially incorrect. Forward-looking statements are provided as a general guide only and should not be relied upon as, and are not, an indication or guarantee of future performance. Neither Vulcan nor any of its directors, officers, agents, consultants, employees or advisors give any representation or warranty, express or implied, as to the fairness, accuracy, completeness or correctness of the information, opinions, forward looking statements and conclusions contained in this Presentation.

Investment risks. As previously noted, an investment in Vulcan is subject to both known and unknown risks, some of which are beyond the control of Vulcan. Vulcan does not guarantee any particular return or its performance, nor does it guarantee any particular tax treatment. Prospective investors should have regard to the Previous Disclosures, when making their investment decision, and should make their own enquires and investigations regarding all information in this Presentation, including, but not limited to, the assumptions, uncertainties and contingencies that may affect Vulcan's future operations, and the impact that different future outcomes may have on Vulcan.

Ore Reserves and Mineral Resources reporting. It is a requirement of the ASX Listing Rules that the reporting of ore reserves and mineral resources in Australia comply with the Joint Ore Reserves Committee's Australasian Code for Reporting of Mineral Resources and Ore Reserves ("JORC Code"). Investors outside Australia should note that while ore reserve and mineral resource estimates of the Company in this document comply with the JORC Code (such JORC Code-compliant ore reserves and mineral resources being "Ore Reserves" and "Mineral Resources" respectively), they may not comply with the relevant guidelines in other countries and, in particular, do not comply with (i) National Instrument 43-101 (Standards of Disclosure for Mineral Projects) of the Canadian Securities Administrators (the "Canadian NI 43-101 Standards"); or (ii) subpart 1300 of Regulation S-K under the US Securities Act of 1933, as amended (the "Securities Act"), which governs disclosures of mineral reserves in registration statements filed with the US Securities and Exchange Commission ("SEC"). Information contained in this Presentation describing mineral deposits may not be comparable to similar information made public by companies subject to the reporting and disclosure requirements of Canadian or US securities laws and investors are cautioned that there can be no assurance that the reserves and resources reported by the Company under the JORC Code would be the same had it prepared its reserve or resource estimates under the standards adopted under subpart 1300 of Regulation S-K.

Technical information. Vulcan has carried out a definitive feasibility study ("DFS") and bridging engineering study ("Bridging Study") for its Phase One Project, the results of which were announced to the ASX in the announcements Phase 1 DFS Results dated 13 February 2023 (DFS Announcement) and Positive Bridging Study Results on 16 November 2023 (Bridging Study Announcement). This presentation may include certain information relating to the DFS and the Bridging Study. The DFS and Bridging Study are based on the material assumptions and parameters outlined in their respective announcements. While Vulcan considers all of the material assumptions to be based on reasonable grounds, there is no certainty that they will prove to be correct or that the range of outcomes indicated by the Bridging Study or DFS will be achieved. This presentation may also include certain information relating to Phase Two of its Project, Vulcan has not yet carried out a definitive feasibility study for Phase Two of its Project.

Funding strategy. To achieve the range of outcomes indicated in the Bridging Study, additional funding will be required. Investors should note that there is no certainty that Vulcan will be able to raise the amount of funding when needed. It is also possible that such funding may only be available on terms that may be dilutive to or otherwise affect the value of Vulcan's existing shares. It is also possible that Vulcan could pursue other financing strategies such as a partial sale or joint venture of the Project. If it does, this could materially reduce Vulcan's proportionate ownership of the Project.

Competent Person Statement. Please see the Competent Person Statement slide in the Appendices.

Note(s): ¹ This slide contains a summary of the applicable disclaimers, the full disclaimer in relation to this presentation is contained in Appendix 1.

INTEGRATED RENEWABLE ENERGY & LITHIUM¹

Phase One: Lionheart

Integrated renewable energy, lithium salts and lithium hydroxide production from sub-surface brines in the Rhine Valley. Targeting **24,000 tonnes p.a²**. LHM production: enough for 500,000 electric vehicles every year

Targeting **560 GWh renewable heat production** capacity: enough for 90,000 homes.⁴
Targeting **275 GWh** renewable power production capacity. Net generator of energy

First quartile target lithium production costs: integrated heat and power, compact supply chain, drive low Li production costs. **€4,030/t** LHM

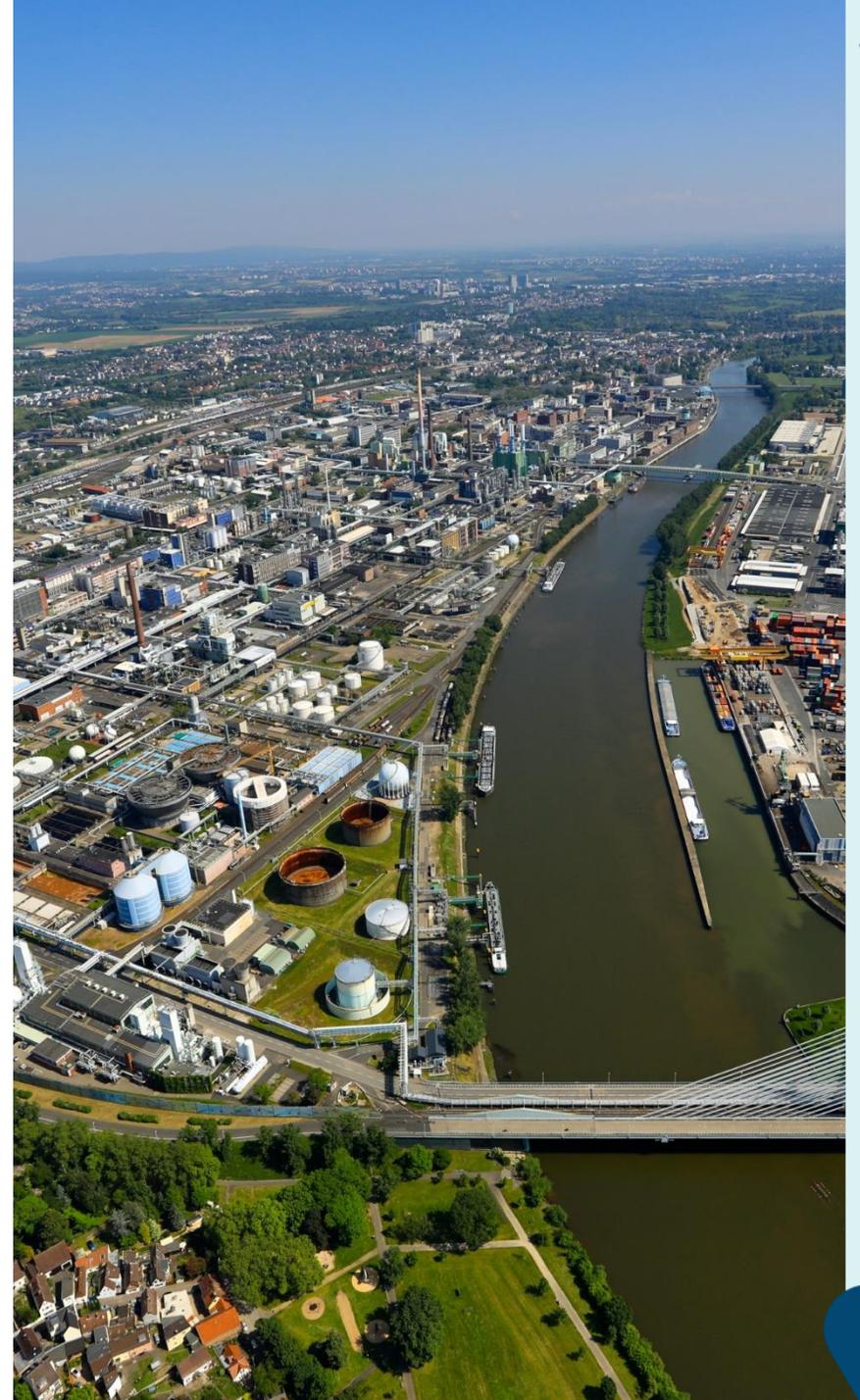
Pricing stability: offtakes with tier-one customers. Lionheart offers compelling Project economics, which are summarised on the following page

Product pre-qualification capability: optimisation plants now in production

Advanced and execution-ready: specialised in-house expertise and strong execution team. Over €460m raised to date and shovel-ready.

Decarbonising the EV supply chain: unique offering. Targeting **10Mt CO₂** avoided in Phase One alone⁵

Note(s): 1. All figures from Bridging Engineering Study (BES) announcement 16 November 2023. Vulcan confirms that all the material technical assumptions underpinning the forecast financial information in the Bridging Study Announcement continue to apply and have not materially changed; 2. Refer to the Competent Person Statement within the Disclaimer slides 3. Converted at €0.61/£1.00. 4. Based on official feed-in numbers from grid operator and calculated with the latest local electricity mix emission factor; 5. Minviro and Vulcan internal estimates; 6. Based on the Phase One production target capacity of 24ktpa from Bridging Engineering Study (BES) Announcement 16th November 2023 and Vulcan internal estimated average EV battery size and chemistry in Europe. Refer to the Competent Person Statement within the Disclaimer slides



EMPOWERING A CARBON NEUTRAL FUTURE

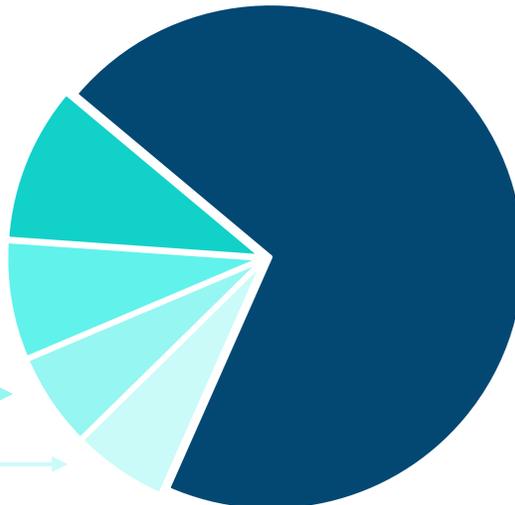
High quality strategic shareholders

ASX/FSE Prime Standard / **VUL**

Shares on issue / **~216m**

Market Capitalisation¹ / **ca. €780m (A\$1.29bn)²**

High quality strategic shareholders



Note(s): 1. As at 20 January 2025 ASX closing price A\$5.80/sh, 2. Converted at €0.60/A\$1.00.

Vulcan values

CLIMATE CHAMPION

DETERMINED

INSPIRING



VULCAN'S PHASE ONE PROJECT: LIONHEART

Low cost, sustainable integrated lithium and energy production from Europe, for Europe



1 Vulcan's 100% owned Insheim Geothermal Power Plant and wells (operating)

2 Operating well site and Lithium Extraction Optimisation Plant

3 G-LEP - Option agreement signed to secure site

4 Schleidberg - Vulcan's next production well site

UNIQUELY POSITIONED

Vulcan poised to capture the next phase of growth¹

- ✓ **Strong customer relationships:** Vulcan has offtake agreements with tier-one European counterparties covering majority of first 10 years of production²
- ✓ **Tier-one asset:** 30-year project life, large, scalable lithium resource, largest in EU³ and globally significant
- ✓ **Low impurities** in the brine: Upper Rhine Valley Brine Field (URVBF) brine has very low impurities, and requires zero chemical pre-treatment
- ✓ **Cheap and renewable heat:** URVBF is naturally heated, and excess heat can be sold as power with Feed-in Tariff
- ✓ **In-house technological A-DLE expertise:** Vulcan now the only ASX-listed company with an in-house A-DLE technology division apart from RIO/LTM
- ✓ **Large project execution and operation expertise:** Vulcan has a leading combination of expertise from O&G, chemicals and geothermal industries.

Note(s) 1. There are a number of risks and uncertainty (known and unknown) that are associated with resources exploration and development, which are included in the risk factors contained in Appendix 2 of this Presentation 2. Refer to section 7.16.3 of the Information Memorandum released to ASX on 11 December 2024 for further information regarding the terms of the Company's offtake agreements 3. On a contained lithium carbonate equivalent (LCE) basis, according to public information, as estimated and reported in accordance with the JORC Code 2012. See the Competent Person Report contained in the Information Memorandum released on the ASX on 11 December 2024 and Appendix 4 of this presentation for further information



EUROPEAN MARKET STRUCTURALLY SHORT OF LITHIUM

Lithium supply in a structurally short market

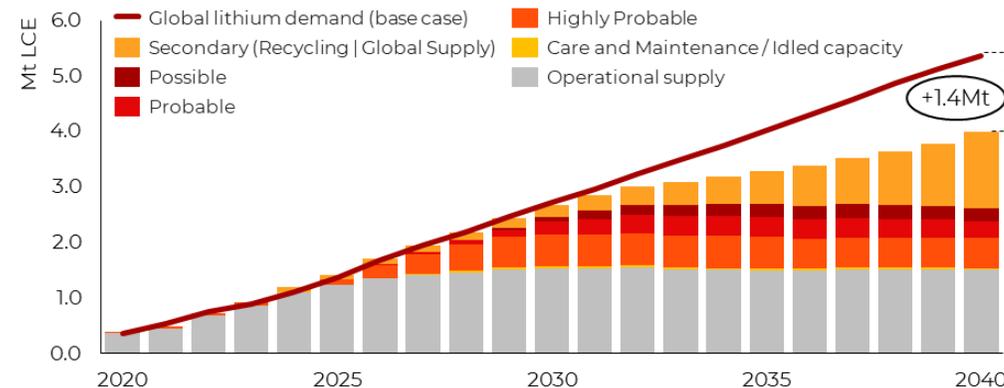
Global supply for LHM looks challenged relative to growth rates in lithium battery production

Supply/demand balance even more acute in Europe, which finds itself **structurally undersupplied**

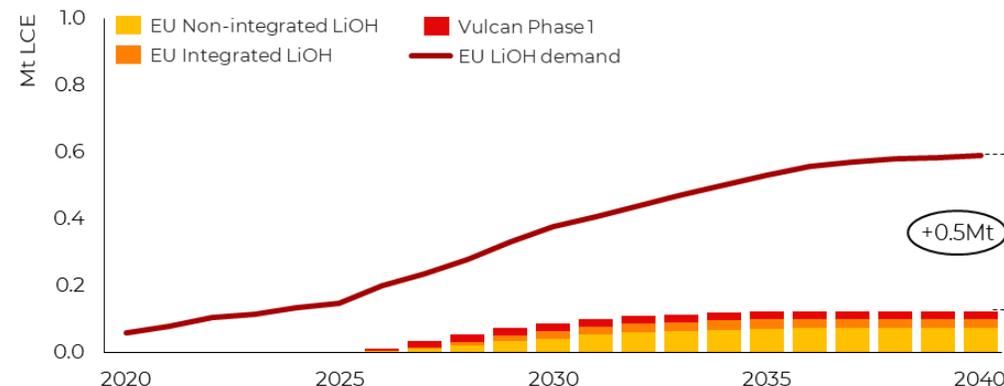
Favourable public policy positioning in Europe, including the newly introduced **Critical Raw Materials Act**

Vulcan is experiencing growing demand for its product from European automakers beyond Phase One.

Global Supply / Demand Balance



European LiOH Supply vs. Demand



OFFTAKE ADVANTAGE: TIER-ONE CUSTOMERS

Fully contracted lithium production drives pricing stability¹

Low counterparty risk: high quality European-focused offtake partners

Long term relationships: all offtake agreements binding, take-or-pay, with agreed pricing mechanisms, 5-10 years in duration

Pricing stability²: pricing mechanisms are a basket of fixed, floor-ceiling and fully floating prices during payback period

Aligned interests: largest offtake partner Stellantis is also Vulcan's fourth largest shareholder through a €50M investment³.



Note(s): 1. Refer to section 7.16.3 of the Information Memorandum released to ASX on 11 December 2024 for further information regarding the terms of the Company's lithium offtake agreements, including conditions precedent and termination rights and the dates for commencement of commercial delivery. 2. Refer ASX announcement 16 November 2023 Bridging Engineering Study (BES). 3. ASX Announcement 31 May 2023 4. Commercial delivery originally scheduled to start in 2026, however Vulcan expects to defer this to align with the targeted start of commercial production as part of planned discussions with Umicore. 5. Commercial delivery originally scheduled to start in 2026, but expected to be deferred to a future phase of production beyond Phase One (with timing yet to be defined).

WORLD-CLASS LITHIUM DISTRICT: LIONHEART

Ability to expand with low cost, sustainable production

Global tier-one lithium resource, and largest in Europe¹: 27.7 Mt LCE estimated in 10 of Vulcan's 17 licences alone, in URVBF¹

Low impurity, high quality, consistent brine composition reduces CAPEX and OPEX

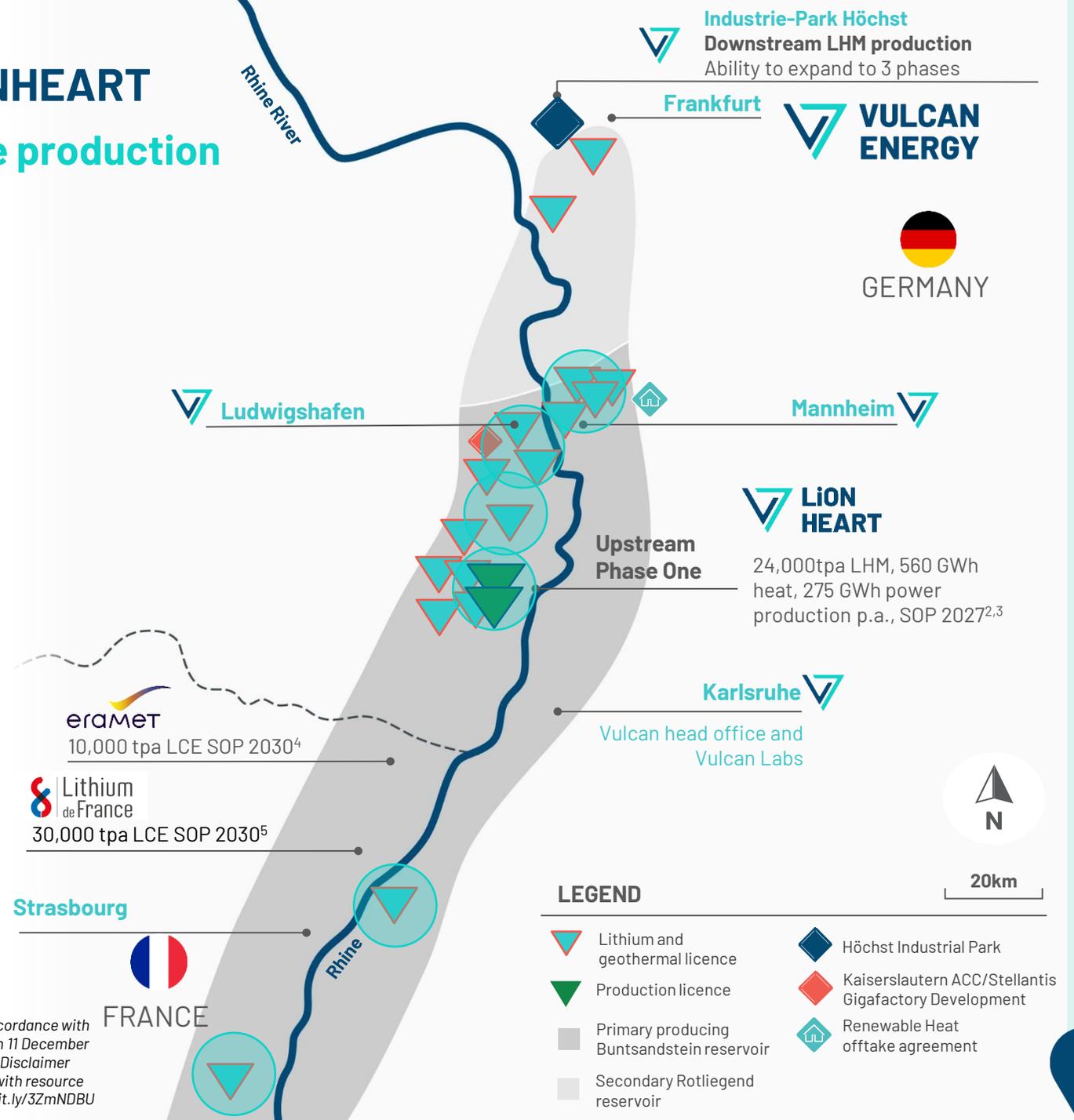
Well supported by infrastructure. Multiple chemical parks, >1,000 existing wells, mature, producing field

Ability to expand with modular plants in the upstream, and add further trains of production to downstream

Leveraging renewable heat co-production to reduce field development cost and provide benefits to local industry and communities

Strategic location and compact 130km supply chain drive substantial cost/ carbon benefits

Note(s) 1. On a lithium carbonate equivalent (LCE) basis, according to public information, as estimated and reported in accordance with the JORC Code 2012. See the Competent Person Report contained in the Information Memorandum released on the ASX on 11 December 2024 and Appendix 4 of this presentation for further information. 2. Refer to the Competent Person Statement within the Disclaimer slides. 3. Please also refer to the risk factors contained in Appendix 2 of this Presentation regarding the risks associated with resource exploration and development projects. 4. <https://www.eramet.com/en/activities/ageli-geothermal-lithium/>. 5. <https://bit.ly/3ZmNDBU>

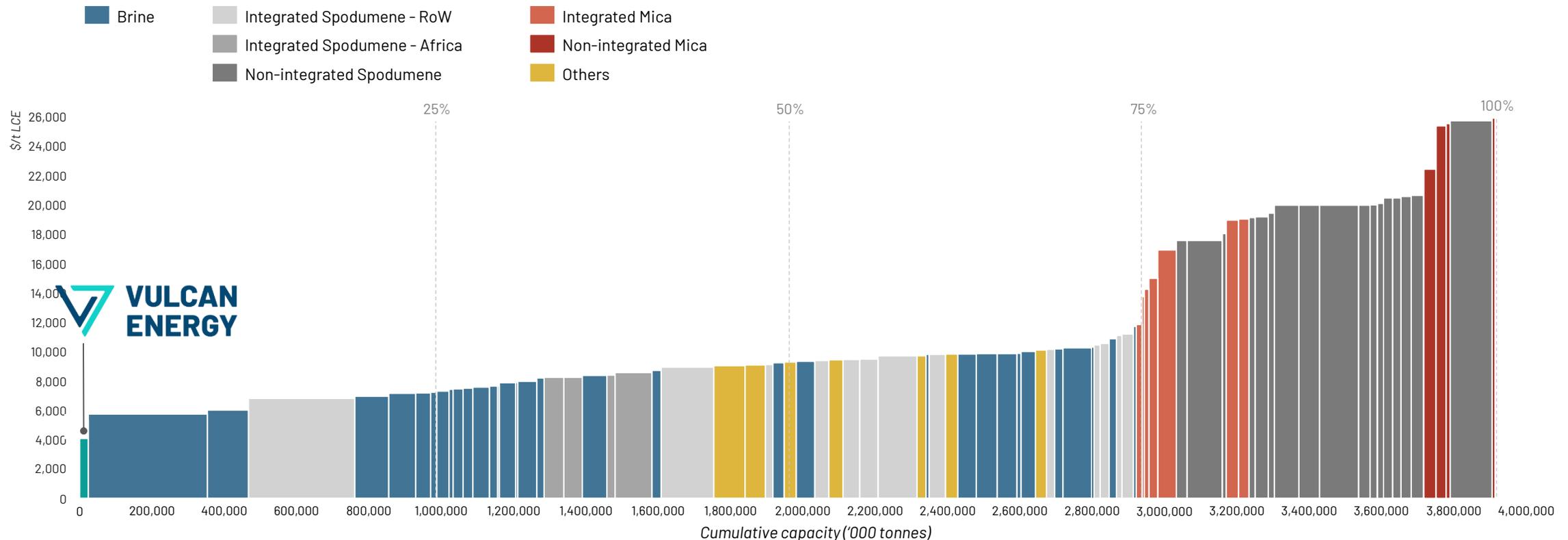




VULCAN WILL BE TARGETING THE LOWEST QUARTILE OF THE LITHIUM COST CURVE

Powered by low cost, highly efficient A-DLE production that leverages renewable heat

Global projected lithium hydroxide C1 cost curve



Vulcan's C1 costs are estimated at €4,030/t LHM, which sits in the lowest cost quartile for highly competitive supply - driven by A-DLE lithium recoveries and low-cost energy.



OPTIMISATION AND QUALIFICATION: UPSTREAM

Europe's first fully-domestic production of lithium chemicals¹

Production of LiCl began in April 2024, using Adsorption-Type DLE

Up to 95% lithium extraction efficiency, already producing to specification using Vulcan's proprietary adsorbent 

Operational readiness: LEOP is currently training staff and optimising product in a pre-commercial environment

LEOP is sending upstream product (LiCl concentrate) to the Central Lithium Electrolysis Optimisation Plant (CLEOP) to make battery grade lithium chemicals



LEOP: Vulcan's operational upstream Lithium Extraction & Optimisation Plant



Note(s): 1. See ASX Announcement 11 April 2024

Optimised commercially-leading technology

Adsorption is increasingly being adopted as the preferred form of lithium production, due to cost and product quality advantages, currently accounting for 10% global market share and growing

VULSORB® is an optimised, high-performance adsorbent, highlighting Vulcan's substantial in-house technological capability

Limited field of lithium companies to have high-performance A-DLE expertise in-house: main players are Rio Tinto/ Arcadium and Eramet

>95% lithium extraction efficiency

Lower cost - lower carbon footprint - lower water footprint - lower land footprint

Significant advantages from having in-house A-DLE expertise



OPTIMISATION AND QUALIFICATION: DOWNSTREAM

Operations team training and fast-tracking product qualification

Located in Industrie-Park Höchst, Vulcan's downstream optimisation plant CLEOP will focus on training and optimisation during the construction of the commercial-sized lithium plant, in the same location

CLEOP will send battery-grade lithium chemicals to offtake partners for pre-qualification testing, ahead of commercial production, potentially accelerating the qualification process



Product from CLEOP is **Europe's first fully integrated lithium battery chemicals** and produced with a by-product of renewable energy

Start of production of lithium hydroxide at CLEOP in parallel with the official opening of the plant on 8 November 2024.

Now producing battery quality lithium hydroxide monohydrate (LHM)



PHASE ONE FINANCING¹

Strong support from public and private sector

€879m (~A\$1.45bn) conditional debt commitment letter signed in December with EFA and commercial lending group of seven banks

Board approval received for up to €500m lending envelope from EIB

Vulcan has also applied for significant public grant funding and was awarded €100m (A\$162m) from the Federal Ministry of Economics and Climate Protection of Germany in November 2024. The funding will enable transformative measures for decarbonising district heating networks in Landau and surrounding regions in Germany

Vulcan's Green Financing Framework has been rated the highest possible rating - Dark Green - by S&P Global Ratings. The Framework is aligned with International Capital Market Association and Loan Market Association principles and guidance

Updated Environmental and Social Impact Assessment (ESIA) published on 16 September, a pre-requisite for Export Credit Agencies' Credit Committee approval

Note(s): 1. Refer to ASX announcement titled "Vulcan Launches AUD164m Placement and Share Purchase Plan" dated 11 December 2024 and section 7.1.3.5 of the ASX announcement titled "Information Memorandum" dated 11 December 2024 for further details regarding the Company's financing strategy for its Phase One Project. See also risk factors in Appendix 2 of this Presentation, including paragraph 3.1 in relation to the future funding requirements. As at the date of the Presentation, the Company has not yet entered into binding agreements for all of its required debt and equity financing for its Phase One Project, and accordingly there is no certainty as to the availability of terms of such financing.

Structuring Banks

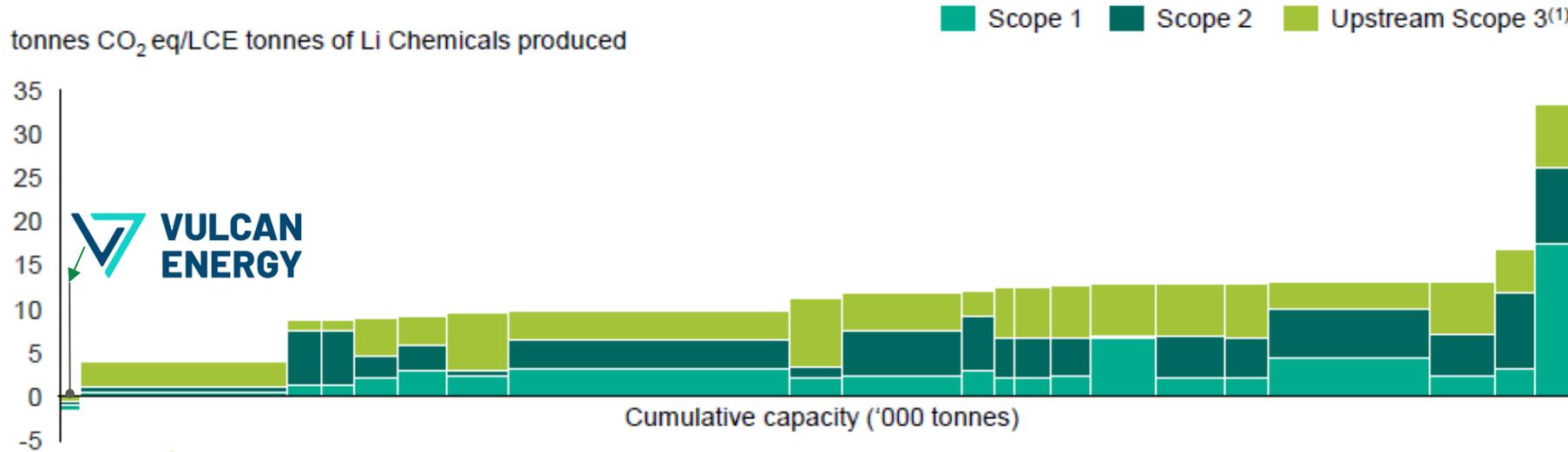


Major ECA / EIB Support



A CLEAR LEADER IN SUSTAINABILITY

GHG emissions intensity of lithium chemicals production in 2030



Phase One targets:

Produce enough lithium for ca. **500,000 electric vehicles p.a.**²

Avoid **10Mt CO₂ eq.** through **decarbonising** the lithium supply chain³

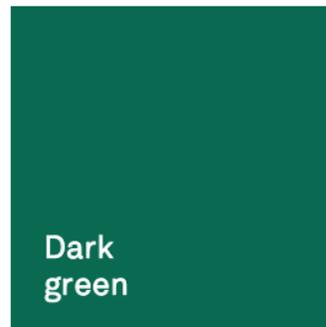
Targeting **renewable heat** for ca. **90,000 people**⁴

Consume only tiny amounts of water, due to recycling

Environmental and Social Impact Assessment (ESIA)

updated and published: confirmed no impact greater than minor post mitigation, and **several positive impacts** to people and planet

Green Financing Framework complete and awarded **Dark Green** status from S&P Global Ratings, **the highest rating ever received by a Metals and Mining company globally**⁵



Activities that correspond to the long-term vision of a low-carbon climate resilient future.

S&P Global
Ratings

Note(s): ¹Benchmark Minerals Intelligence - Upstream Scope 3 emissions include the production and transportation of raw materials, fuels, machinery and equipment, and waste treatment. ²Based on the Phase One production target capacity of 24ktpa from Bridging Engineering Study (BES) Announcement 16th November 2023 and Vulcan internal estimated average EV battery size and chemistry in Europe. Refer to the Competent Person Statement within the Disclaimer slides, ³Miniviro and internal estimates combined, using Innovation Fund methodology; ⁴Based on official feed-in numbers from grid operator and calculated with the latest local electricity mix emission factor; ⁵See ASX announcement of 8 October 2024.



FOCUS AREAS FOR VALUE CREATION

Phase One creates base for a leading lithium, renewable energy and technology company

Division	Li Lithium	Ren Renewable energy	Tech Technology
Phase One	24,000 tonnes p.a. of sustainable lithium hydroxide ¹ for Europe's electric vehicle supply chain	275GWh p.a. of renewable power and 560 GWh p.a. of renewable heat generated by Phase One to reduce costs and create byproduct revenue	Having shown industry-leading performance in test work, VULSORB will be toll manufactured and used in the Phase One Lithium Extraction Plant
Growth Initiatives	Our tier-one, heated lithium brine resource in the URVBF can support multiple future phases of a similar size to Phase One	Partnering with local industry to co-develop Vulcan's geothermal energy resource to decarbonise operations and contribute to European energy security	VULSORB has been successfully tested with multiple brines from Europe and other continents providing basis for global technology licensing opportunities
Products			

DETERMINED We will use lessons learnt from Phase One to improve future phases

INSPIRING We will deliver sustainable products to customers and contribute to the global energy transition

CLIMATE CHAMPIONS We will continue to reduce environmental impact while ensuring cost advantage

Note(s): 1. Refer to the Competent Person Statement within the Disclaimer slides.



A premium industry-leading lithium product for battery electric vehicles

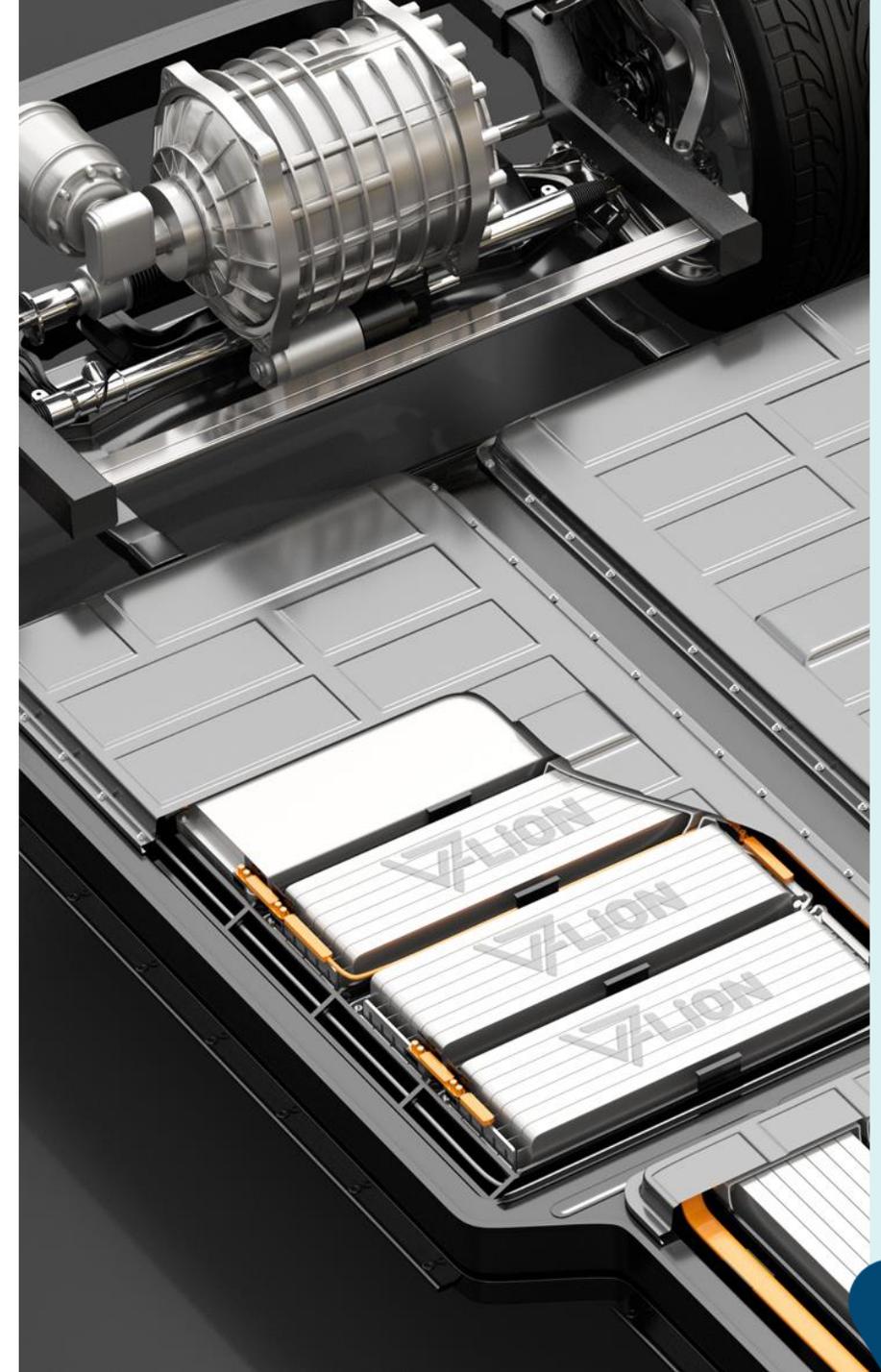
V is for Vulcan. We strive to be climate champions.

Li is for high purity, sustainable* and versatile, battery-grade lithium products.

O is for zero fossil fuels directly used in our onsite process to produce lithium and the co-production of renewable energy for local communities.

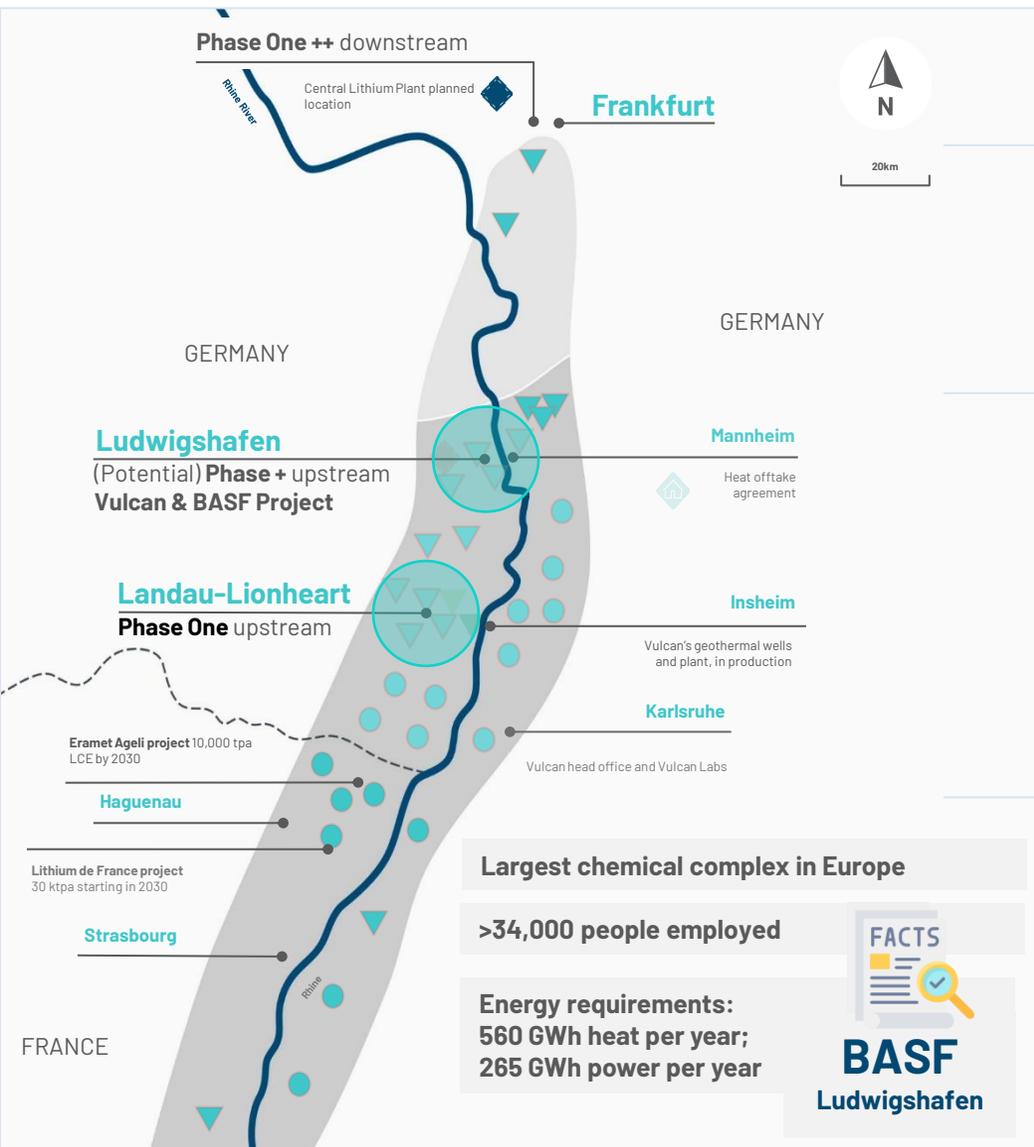
N is for no net greenhouse gas emissions across our project life.

*Industry-leading water sustainability credentials.



PHASE + DECARBONISING THE WORLD'S LARGEST CHEMICAL SITE¹

A blueprint for Vulcan's future phase developments to support Europe's energy transition



Largest chemical complex in Europe

>34,000 people employed

Energy requirements:
560 GWh heat per year;
265 GWh power per year

FACTS

BASF
Ludwigshafen



- Owner of lithium production
 - Co-develops geothermal project
 - Operator of integrated heat and lithium facilities
 - Future heat offtaker Co-develops geothermal project and provides production site
 - Local stakeholder engagement
- ✓ **Renewable heat project:** Jointly develop geothermal heat system at BASF's Ludwigshafen complex targeting 2,000–2,500 GWh/year
 - ✓ **Lithium plant:** Vulcan to construct and operate a Lithium Extraction Plant at the Ludwigshafen site. Produced lithium then further processed at Vulcan's Central Lithium Plant to produce battery-grade lithium hydroxide
 - ✓ **Community heating:** Opportunity for district heating of nearby communities, including partnerships with local energy providers in Ludwigshafen and Frankenthal

Next steps: 2D and 3D seismic surveys (2025–2026) will identify optimal well sites, with BASF funding up to €5m. Subject to positive results and public funding, Vulcan and BASF to drill additional wells to produce heat and lithium, sharing costs.

1. See ASX announcement "Vulcan and BASF announce partnership agreement" dated 21 November 2024 for further information.

KEY MILESTONES ACHIEVED IN 2024

Transformational period for Phase One Lionheart Project

First LiCl production from upstream optimisation plant



Launch final phase of Project funding



Start of commissioning at downstream lithium hydroxide optimisation plant



EIB Board approves participation in Phase One financing potentially amounting to up to €500m (~A\$819m)



Vulcan awarded €100m (A\$162m) from the Federal Ministry of Economics and Climate Protection for its HEAT4LANDAU Project



€879m (~A\$1.45bn) conditional debt commitment letter signed with EFA and commercial lending group of seven banks



Evolution of Company Board including appointment of Felicity Gooding as Group Chief Financial Officer and Executive Director



Successful \$164m Placement to fund start of project execution



Note(s): 1. Refer to page 28 "Phase One Financing" of this presentation for further information.



KEY TARGETS FOR 2025

Focus on maintaining strong momentum

Production of battery quality Lithium Hydroxide Monohydrate (LHM) at CLEOP ✓

Decision(s) on government funding approval processes

Commencement of well execution

Finalising project financing package¹

Awarding/ signing of major contracts

Start of commercial construction of Phase One

Start LHM qualification process

Progression of further phases, including at Ludwigshafen with BASF

Further growth of the business, including VULSORB technology licencing

Note(s): 1. Refer to page 28 "Phase One Financing" of this presentation for further information.





HIGHLY EXPERIENCED LEADERSHIP

Outstanding major project, technical and finance experience at the Executive and Board level

Vulcan Executive Leadership



Dr Francis Wedin
Executive Chair, Founder



Cris Moreno
Managing Director & CEO



Felicity Gooding
Group Chief Financial Officer
and Executive Director

Development



Thorsten Weimann
Chief Development Officer



Dr Kerstin Mueller
Vice President Subsurface



Dr Stefan Brand
Chief Technology Officer

Execution



Carsten Bachg
Vice President Project Execution



Christian Freitag
Chief Commercial Officer

Production



Dr Christian Tragut
Vice President Production



Markus Ritzauer
Chief Financial Officer Germany



Samantha Langley
Head of Sustainability

Vulcan Board



Dr Günter Hilken
Non-Executive Director



Josephine Bush
Non-Executive Director



Dr Heidi Grön
Non-Executive Director



Angus Barker
Non-Executive Director

Special advisory to the Board



Dr Horst Kreuter
Chief Representative Germany,
Co-Founder, Board Advisor



Julia Poliscanova
Special Advisor



Thank you

@VulcanEnergyRes

v-er.eu



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APPENDIX 1: DISCLAIMER CONT.

Ore Reserves and Mineral Resources Reporting. It is a requirement of the ASX Listing Rules that the reporting of ore reserves and mineral resources in Australia comply with the Joint Ore Reserves Committee's Australasian Code for Reporting of Mineral Resources and Ore Reserves ("**JORC Code**"). Investors outside Australia should note that while ore reserve and mineral resource estimates of the Company in this document comply with the JORC Code (such JORC Code-compliant ore reserves and mineral resources being "Ore Reserves" and "Mineral Resources" respectively), they may not comply with the relevant guidelines in other countries and, in particular, do not comply with (i) National Instrument 43-101 (Standards of Disclosure for Mineral Projects) of the Canadian Securities Administrators (the "Canadian NI 43-101 Standards"); or (ii) subpart 1300 of Regulation S-K under the US Securities Act of 1933, as amended (the "Securities Act"), which governs disclosures of mineral reserves in registration statements filed with the US Securities and Exchange Commission ("SEC"). Information contained in this Presentation describing mineral deposits may not be comparable to similar information made public by companies subject to the reporting and disclosure requirements of Canadian or US securities laws. On 31 October 2018, the SEC adopted amendments to its disclosure rules to modernise the mineral property disclosure requirements for issuers whose securities are registered with the SEC under the US Exchange Act of 1934, as amended (the "**Exchange Act**"). These amendments became effective 25 February 2019, with compliance required for the first fiscal year beginning on or after 1 January 2021. Under these amendments, the historical property disclosure requirements for mining registrants included in Industry Guide 7 under the Securities Act were rescinded and replaced with disclosure requirements in subpart 1300 of Regulation S-K. As a result of the adoption of subpart 1300 of Regulation S-K, the SEC's standards for mining property disclosures are now more closely aligned to the JORC Code's requirements. For example, the SEC now recognises estimates of "measured mineral resources", "indicated mineral resources" and "inferred mineral resources." In addition, the SEC has amended its definitions of "proven mineral reserves" and "probable mineral reserves" to be "substantially similar" to the corresponding standards under the JORC Code. However, despite these similarities, SEC standards are still not identical to the JORC Code. Accordingly, investors are cautioned that there can be no assurance that the reserves and resources reported by the Company under the JORC Code would be the same had it prepared its reserve or resource estimates under the standards adopted under subpart 1300 of Regulation S-K.

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