

## Approval of Operating Plan for Lithium Extraction Demo Plant

Vulcan Energy Resources Limited (Vulcan; ASX: VUL, FSE: VUL, the Company) is pleased to provide a project update, from the Zero Carbon Lithium™ Project in the Upper Rhine Valley Brine Field.

### Key Points

#### Demo Plant

- Vulcan has received approval from the state authority in Rheinland-Pfalz, Germany, for the Operating Plan for Vulcan's lithium extraction Demonstration Plant (Demo Plant).
- On site works are ongoing at the Demo Plant. Once operational the Demo Plant is aiming to train Vulcan's team in a pre-commercial setting, prior to commercial scale plant construction and operation.
- This follows on from a 20-month continuous operation of Vulcan's Pilot Plant, which has successfully produced the data required for Vulcan's Definitive Feasibility Study (DFS). The DFS is progressing on track for finalisation in Q1 2023.
- Vulcan uses a unique combination of commercially mature methods to extract lithium from its geothermal brine in the Upper Rhine Valley Brine Field, with net zero carbon footprint, and zero fossil fuels used in the production process.
- Vulcan's process is entirely driven by renewable energy and seeks to fix lithium's problem of high carbon emissions in current production processes used worldwide. In line with its stated timeline<sup>1</sup>, Vulcan is aiming to enter into commercial production by 2025, scaling up its development in a phased manner to supply its customers in the battery electric vehicle market in Europe with sustainable lithium.

Vulcan's Managing Director and CEO, Dr. Francis Wedin, said, "Following on from nearly two years of successful Pilot Plant operation demonstrating our lithium extraction process, as we enter the concluding stages of the Zero Carbon Lithium™ Project DFS, our Demo Plant will provide an important next phase of training and learnings for our team in a pre-commercial setting. We will also be able to produce samples at a larger scale for our offtake customers to test. It is encouraging to receive this approval of operating plans from the state authority, and we look forward to keeping our stakeholders informed as construction progresses on site."

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<sup>1</sup> Corporate Presentation 28 September 2022

#### Contact

## About Vulcan

Founded in 2018, Vulcan's unique Zero Carbon Lithium™ Project aims to decarbonise lithium production, through developing the world's first carbon neutral, zero fossil fuels business, with the co-production of renewable geothermal energy on a mass scale. By adapting existing technologies to efficiently extract lithium from geothermal brine, Vulcan is aiming to deliver a local source of sustainable lithium for Europe, built around a net zero carbon strategy with a strict exclusion of fossil fuels. Already an operational renewable energy producer, Vulcan will also provide renewable electricity and heat to local communities.

Vulcan's combined geothermal energy and lithium resource is the largest in Europe, with license areas in the Upper Rhine Valley, Germany, and in Italy. Strategically placed in the heart of the European electric vehicle market to decarbonise the supply chain, Vulcan is rapidly advancing the Zero Carbon Lithium™ Project to ensure timely market entry, with the ability to expand to meet the unprecedented demand that is building in the European markets.

Guided by our Values of Integrity, Leadership, Future-focused and Sustainability, and united by a passion for environmentalism and leveraging scientific solutions, Vulcan has a unique, world-leading scientific and commercial team in the fields of lithium chemicals and geothermal renewable energy. Vulcan is committed to partnering with organisations who share its decarbonisation ambitions and has binding lithium offtake agreements with some of the largest cathode, battery and automakers in the world. As a motivated disruptor, Vulcan will leverage its expert multidisciplinary team, leading geothermal technology and position in the European EV supply chain to be global leaders in the production of zero fossil fuel, carbon neutral lithium, while being nature positive. Vulcan aims to be the largest, most preferred, strategic supplier of lithium chemicals and renewable power and heating from Europe, for Europe; to empower a net zero carbon future.



## Corporate Directory

Managing Director and CEO	Dr. Francis Wedin
Chairman	Gavin Rezos
Deputy CEO	Cris Moreno
Non-Executive Director	Ranya Alkadamani
Non-Executive Director	Annie Liu
Non-Executive Director	Dr. Heidi Grön
Non-Executive Director	Josephine Bush
Non-Executive Director	Dr. Günter Hilken
Non-Executive Director	Mark Skelton
Executive Director, Germany	Dr. Horst Kreuter
Company Secretary	Daniel Tydde

## For and on behalf of the Board

Daniel Tydde | Company Secretary

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## Reporting calendar

<b>30 January 2023</b>	December Quarterly
<b>31 March 2023</b>	Annual Report
<b>28 April 2023</b>	March Quarterly
<b>30 May 2023</b>	Annual General Meeting
<b>28 July 2023</b>	June Quarterly
<b>15 September 2023</b>	Half Year Report
<b>27 October 2023</b>	September Quarterly

#### Disclaimer

Some of the statements appearing in this announcement may be in the nature of forward-looking statements. You should be aware that such statements are only predictions and are subject to inherent risks and uncertainties. Those risks and uncertainties include factors and risks specific to the industries in which Vulcan operates and proposes to operate as well as general economic conditions, prevailing exchange rates and interest rates and conditions in the financial markets, among other things. Actual events or results may differ materially from the events or results expressed or implied in any forward-looking statement. No forward-looking statement is a guarantee or representation as to future performance or any other future matters, which will be influenced by a number of factors and subject to various uncertainties and contingencies, many of which will be outside Vulcan's control.

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#### Competent Person Statement:

The information in this report that relates to Mineral Resources and Ore Reserves (respectively) of the Company's Zero Carbon Lithium™ is extracted from the ASX announcements made by Vulcan on 15 December 2020 ("Updated Ortenau Indicated and Inferred Resource") and 15 January 2021 ("Positive Pre-Feasibility Study"), which are available on [www.v-er.eu](http://www.v-er.eu). The information in this report that relates to Insheim's Mineral Resources is extracted from the ASX announcement made by Vulcan on 20 January 2020 ("Maiden Indicated Resource Insheim Vulcan Zero Carbon Lithium"), which is available on [www.v-er.eu](http://www.v-er.eu). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.