

## Highlights

Aiming to be the world's first  
**Zero Carbon Lithium™**  
producer.

**Large, lithium-rich**  
geothermal brine project, in  
the Upper Rhine Valley of  
Germany.

Europe's **largest** JORC-  
compliant lithium resource.

Located at the heart of the EU  
Li-ion battery industry.

Fast-track development of  
project under way towards  
production.

## Corporate Directory

Managing Director  
Dr Francis Wedin

Chairman  
Gavin Rezos

Executive Director  
Dr Horst Kreuter

Non-Executive Director  
Ranya Alkadamani

CFO-Company Secretary  
Robert Ierace

## Fast Facts


Issued Capital: 73,418,958  
Market Cap (@\$1.125): \$82.6m

## Contact

Level 11, Brookfield Place  
125 St Georges Terrace  
Perth WA 6000 Australia  
08 6189 8767

Vulcan Energie Ressourcen  
GmbH  
Baischstr. 8, 76133 Karlsruhe

www.v-er.com  
info@v-er.com

 @VulcanEnergyRes

# Vulcan Zero Carbon Lithium™ Project Update

## Highlights:

- 3D and 2D seismic data acquisition<sup>1</sup> complete which significantly shortcuts exploration and development time.
- Production study under way targeting high brine-flow rate fault zones.
- Resource modelling under way aiming to upgrade resources to Indicated category in Taro and Ortenau licenses.
- Pre-Feasibility Study (PFS) progressing on track for completion by end 2020.
- Multiple meetings conducted with European offtakers in the cathode, lithium-ion battery and automotive sectors.

Vulcan Managing Director, Dr. Francis Wedin, commented: *"Having just returned from an extended period with our team at the Vulcan Karlsruhe office, I am pleased to report on the progress of the Zero Carbon Lithium™ Project. We have completed the acquisition of key 2D and 3D seismic data over our project areas, which significantly shortcuts development time. The geological team is now working hard to model high brine-flow rate fault zones from the data, from which we plan to upgrade the confidence category in our some of our resource areas. Our engineering partners are progressing well on the lithium and geothermal plant studies towards our PFS. We believe that the PFS will be a significant milestone and inflexion point for the Zero Carbon Lithium™ Project.*

*The business development team has held numerous meetings with European lithium offtakers, in line with our goal of securing offtake agreements in the world's fastest growing lithium market, the European electric vehicle market. These meetings were spear-headed by our new VP Business Development and lithium industry expert Vincent Pedailles, assisted by former Tesla director Jochen Rudat. We look forward to keeping shareholders abreast of our progress during this exciting time in the industry."*

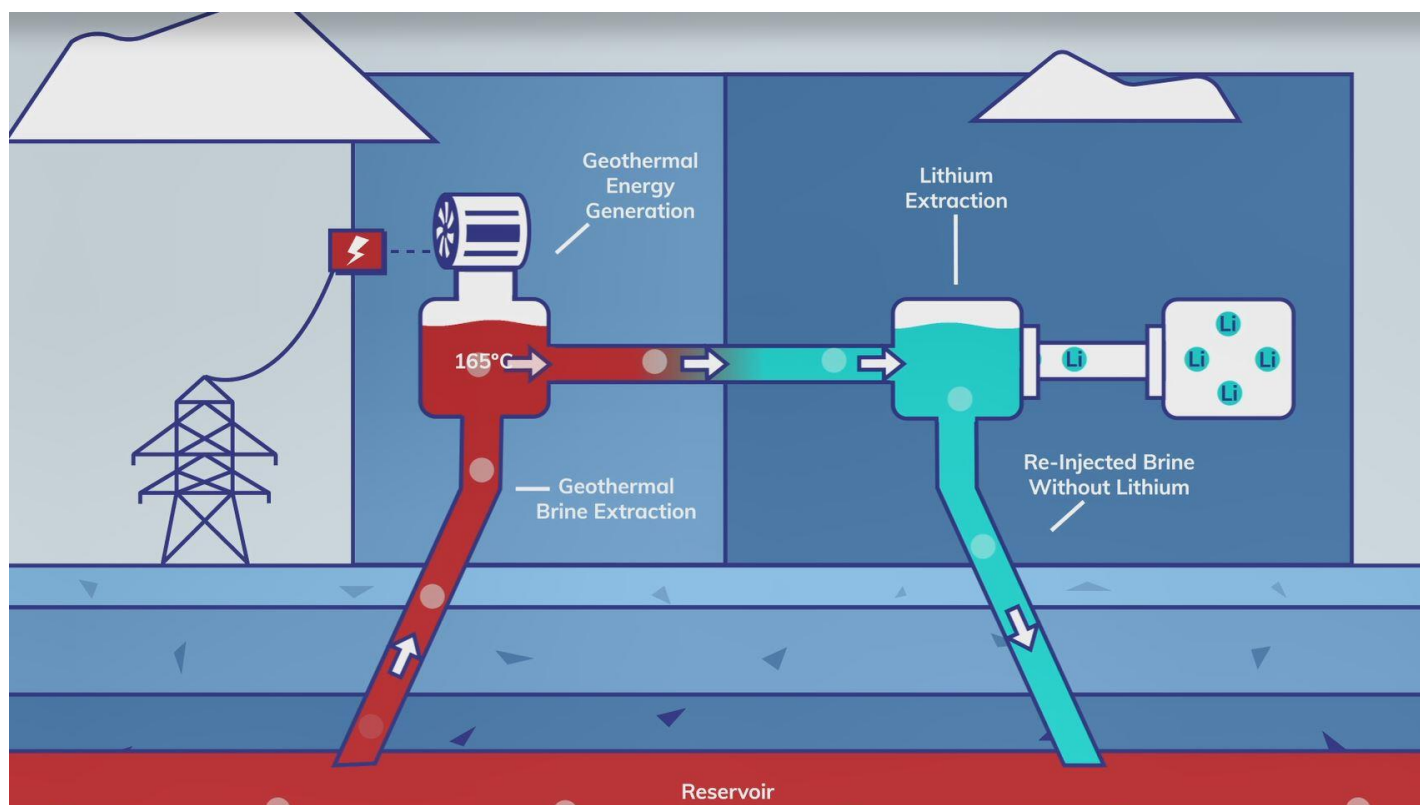
<sup>1</sup> See ASX announcement 4 May 2020

**Recent activities by the Company (<https://v-er.com/investor-centre/asx-announcements/>):**

- Appointment of former Tesla director Jochen Rudat to Business Development team.
- Taro license grant and increased global Mineral Resource Estimate.
- Appointment of lithium industry expert Vincent Pedailles to Business Development team.
- Appointment of lithium chemistry expert Dr. Katharina Gerber to the Executive team.
- Excellent recoveries of over 90% from lithium extraction test work on Upper Rhine Valley brine.
- Securing EU backing support package, and EU-backed investment agreement into the Vulcan Zero Carbon Lithium™ project.
- \$4.8m institutional and ESG investor equity placement.
- Agreement to acquire 3D seismic package to accelerate project development. Commencement of lithium test work for Pre-Feasibility Study. Completion of positive Scoping Study.

**About Vulcan**

*Vulcan Energy Resources is aiming to become the world's first Zero Carbon Lithium™ producer, by producing a battery-quality lithium hydroxide chemical product with net zero carbon footprint from its combined geothermal and lithium resource, which is Europe's largest lithium resource, in the Upper Rhine Valley of Germany. Vulcan will use its unique Zero Carbon Lithium™ process to produce both renewable geothermal energy, and lithium hydroxide, from the same deep brine source. In doing so, it will fix lithium's current problems for the EU market: a very high carbon and water footprint of production, and total reliance on imports, mostly from China. Vulcan aims to supply the lithium-ion battery and electric vehicle market in Europe, which is the fastest growing in the world. Vulcan has a resource which can satisfy Europe's needs for the electric vehicle transition, from a zero-carbon source, for many years to come.*



# Zero Carbon Lithium™

## **For and on behalf of the Board**

Robert Ierace

Chief Financial Officer - Company Secretary

For further information visit [www.v-er.com](http://www.v-er.com) or contact the Company Secretary on +61 8 6189 8767.

## 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.

Vulcan does not undertake any obligation to update publicly or release any revisions to these forward-looking statements to reflect events or circumstances after today's date or to reflect the occurrence of unanticipated events. No representation or warranty, express or implied, is made as to the fairness, accuracy, completeness or correctness of the information, opinions or conclusions contained in this announcement. To the maximum extent permitted by law, none of Vulcan, its Directors, employees, advisors or agents, nor any other person, accepts any liability for any loss arising from the use of the information contained in this announcement. You are cautioned not to place undue reliance on any forward-looking statement. The forward-looking statements in this announcement reflect views held only as at the date of this announcement.

This announcement is not an offer, invitation or recommendation to subscribe for, or purchase securities by Vulcan. Nor does this announcement constitute investment or financial product advice (nor tax, accounting or legal advice) and is not intended to be used for the basis of making an investment decision. Investors should obtain their own advice before making any investment decision.

## Competent Person Statement:

The information in this report that relates to Mineral Resources for the Vulcan Geothermal-Lithium Project is extracted from the ASX announcements "Taro License Grant & Updated Mineral Resource Estimate" released on the 31<sup>st</sup> of August 2020, and the information in this report that relates to Vulcan's Scoping Study is extracted from the ASX announcement "Positive Scoping Study" released on the 21<sup>st</sup> of February 2020, which are available on [www.v-er.com](http://www.v-er.com). The Company confirms that it is not aware of any new information or data that materially affects the information included in the previous market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement 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.