

Vulcan & Circulor to establish world-first full lithium traceability & CO₂ measurement across supply chain

Highlights:

- Vulcan to use Circulor's full traceability and dynamic CO₂ measurement solution for Zero Carbon Lithium™ across the European Lithium-ion battery and Electric Vehicle (EV) supply chain, in a world-first for the lithium sector.
- Circulor's customers include major European automotive manufacturers such as Volvo Cars, Daimler, Polestar and Jaguar Land Rover, which indicates OEMs' growing need to demonstrate responsible sourcing of raw materials like lithium and to track and manage the embedded CO₂ emission in their upstream supply chain for EVs, as they strive towards their net zero targets.
- Circulor offers a software solution that enables customers to track raw materials through supply chains to demonstrate responsible sourcing and sustainability.
- This system implementation enables reputational protection, proof of compliance with regulations and dynamic carbon tracking.
- Circulor's CO_2 solution provides a dynamic month-to-month visibility of CO_2 intensity across the supply chain and its participants.
 - Battery raw materials transparency, traceability and sustainability weredirectly targeted in the latest European Commission Battery Regulation proposed in December 2020.
- Vulcan will be implementing Ciculor's solution to its future lithium supply contracts with European OEMs to help them meet their sustainability objectives for material traceability and CO₂ transparency.
- Circulor's solution will first be used during Vulcan's project development including at a pilot and demonstration plant level, when the first samples are dispatched to customers.
- Circulor and Vulcan will work together to prepare Vulcan and its supply chain for full traceability of Vulcan's Zero Carbon Lithium™ product at the production start in 2024.

ASX Release 23 March 2021 ASX: VUL FRA: 6KO

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.

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

Non-Executive Director Annie Liu

CFO-Company Secretary Robert Ierace

Fast Facts

Issued Capital: 107,464,256 Market Cap (@\$6.32): \$679m

Contact

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

> Vulcan Energie Resourcen GmbH Baischstr. 8, 76133 Karlsruhe

www.v-er.com info@v-er.eu **>**@VulcanEnergyRes



Douglas Johnson-Poensgen, Circulor's CEO commented: "The EV battery market in Europe is evolving fast with many new players establishing themselves in the market, and with a clear advantage for those who can prove sustainable practices. We are pleased to be supporting Vulcan in meeting Europe's needs for the electric vehicle transition, from a zero-carbon source, for many years to come. Together, we will set a new benchmark for the responsible sourcing of raw materials to enable sustainable mobility for the future."

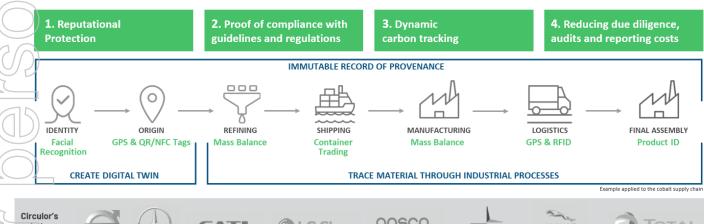
Dr Francis Wedin, Vulcan's CEO added: "This collaboration between Circulor and Vulcan will allow us to develop the world's first fully traceable, transparent and zero carbon lithium product extracted and consumed in Europe. As well as showing Vulcan's commitment to a transparent supply chain with net zero carbon footprint, it is another industry-leading move by Vulcan that sets the way forward for the raw materials industry to improve and align to OEMs' goal of producing truly sustainable EVs."

Vulcan Energy & Circulor to establish first full lithium traceability & transparency across the EU supply chain



Circulor offers a software solution that enables customers to track raw materials and CO2 emissions through supply chains to demonstrate responsible sourcing and sustainability.

By applying blockchain, artificial intelligence, machine learning, facial recognition, mass balancing and other technologies Circulor makes sure that the digital twin is reliably linked to the physical resource through out its entire journey. This enables:





















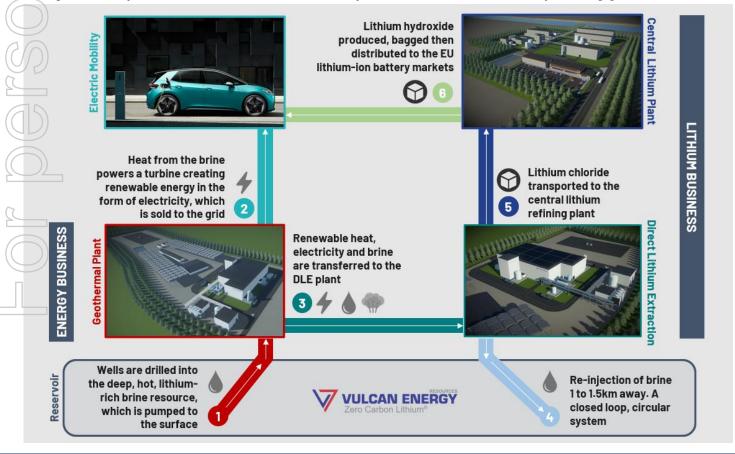


Recent activities by the Company (https://v-er.com/investor-centre/):

- Former Tesla Head of Battery Supply Chain joins as Director
- EU sustainable battery & CO₂ policy expert to join Vulcan as Advisor
- High lithium grades, low impurities from bulk brine sampling.
- Agreement with DuPont to advance Direct Lithium Extraction.
- Acquisition of world-class geothermal sub-surface development team.
- \$120 million placement endorses Vulcan Zero Carbon Lithium[®].
- Positive Pre-Feasibility Study.
- European Commission Regulation on batteries & CO₂ footprint.

About Vulcan

Vulcan Energy 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, net zero carbon process to produce both renewable geothermal energy, and lithium hydroxide, from the same deep brine source. In doing so, Vulcan will address lithium's EU market requirements by reducing the 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.





For and on behalf of the Board

Robert Ierace

Chief Financial Officer - Company Secretary

For further information visit <u>www.v-er.com</u>

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Competent Person Statement:

The information in this report that relates to Mineral Resources is extracted from the ASX announcement made by Vulcan on the 15 December 2020, which is available on www.v-er.com. The information in this presentation that relates to the Pre-Feasibility Study for the Vulcan Lithium Project is extracted from the ASX announcement "Positive Pre-Feasibility Study", released on the 15th of January 2021 which is available on 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 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.