

Vulcan Energy Resources

Australia | Basic Materials | MCap AUD 1,154m

15 February 2022

UPDATE



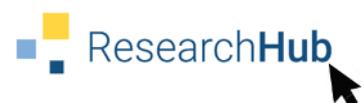
Dual listing on the FSE, trading commenced - BUY

What's it all about?

Vulcan received approval from the BaFin, the German Federal Financial Supervisory Authority to dual list on the Prime Standard of the Frankfurt Stock Exchange (FSE). Trading commenced today on 15 February 2022. By committing to higher transparency standards, Vulcan is gearing up for larger investors with stricter guidelines, which we view as positive signal to the market and the equity story as a whole. However, given recent market turbulences and investor's fear for higher interest rates, we are applying a higher beta in our DCF-model to reflect the stronger movements of share price in the past year. Consequently, the higher cost of capital prompts us to lower our PT to AUD 20.00 (old AUD 25.00), equivalent to EUR 12.60. Nonetheless, we remain confident about Vulcan's operational development and improvement in becoming a provider of renewable energy and lithium with a zero-carbon footprint, which is why we reiterate our BUY recommendation.

BUY (BUY)

Target price	AUD 20.00 (25.00)
Current price	AUD 8.91
Up/downside	124.5%



MAIN AUTHOR

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IMPORTANT. Please refer to the last page of this report for "Important disclosures" and analyst(s) certifications.

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Dual listing on the FSE, trading commenced - BUY

Following its application on 8 February 2022, Vulcan received approval from the BaFin, the German Federal Financial Supervisory Authority to dual list on the Prime Standard of the FSE. The Prime Standard is a segment of the regulated market with additional admission follow-up duties. These contain transparency requirements, such as regular reporting within certain time frames. Vulcan has already met these criteria before. As of today, Vulcan's shares are trading on the FSE. The listing was carried out without an accompanying public offer or a private placement of shares. We expect the dual listing to broaden access to institutional investors. Consequently, liquidity and transparency should increase which we view as positive signal to the market and the equity story as a whole.

Vulcan's Zero Carbon Lithium™ Project combines operations of extraction in the lithium-rich geothermal brine of the Upper Rhine Valley, of upgrading lithium to a high purity hydroxide (LiOH) as well as the production of hydrogeothermal energy (renewable electricity and heat). In a staged development will implement Direct Lithium Extraction (DLE), a process technology proven effective for more than 20 years in industrial lithium carbonate production. At a later stage, Vulcan will process lithium chloride from multiple combined geothermal and lithium sorption plants into lithium hydroxide monohydrate at its CLP (Central Lithium Plant). The company already secured a site at the Höchst Chemical Park near Frankfurt.

Conclusion The admission to the regulated market on the FSE is another milestone on Vulcan's journey to realize the Zero Carbon Lithium™ Project. By committing to higher transparency standards, Vulcan gearing up for larger investors with stricter guidelines. However, given recent market turbulences and investor's fear for higher interest rates, we are applying a higher beta in our DCF-model to reflect the stronger movements of share price in the past year. Consequently, the higher cost of capital prompts us to lower our PT to AUD 20.00 (old AUD 25.00), equivalent to EUR 12.60. Nonetheless, we remain confident about Vulcan's operational development and improvement in becoming a provider of renewable energy and lithium with a zero-carbon footprint, which is why we reiterate our BUY.

Vulcan Energy Resources	2020	2021	2022E	2023E	2024E	2025E
Sales	0	0	5	10	18	183
<i>Growth yoy</i>	na	na	na	87.5%	86.2%	932.9%
EBITDA	-3	-11	-14	-14	-11	130
EBIT	-4	-11	-14	-14	-14	100
Net profit	-4	-11	-10	-31	-45	35
Net debt (net cash)	-6	-114	-332	-434	202	699
Net debt/EBITDA	1.9x	10.9x	23.5x	31.0x	-18.7x	5.4x
EPS reported	-0.07	-0.12	-0.07	-0.22	-0.28	0.21
DPS	0.00	0.00	0.00	0.00	0.00	0.00
<i>Dividend yield</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gross profit margin	na	na	53.1%	50.0%	41.3%	66.6%
EBITDA margin	na	na	-277.8%	-147.0%	-61.0%	70.9%
EBIT margin	na	na	-279.0%	-149.6%	-77.2%	54.5%
ROCE	-40.5%	-8.4%	-3.9%	-0.9%	-0.6%	4.0%
EV/EBITDA	-346.3x	-99.0x	-58.3x	-51.4x	-125.4x	14.3x
EV/EBIT	-318.8x	-95.7x	-58.0x	-50.5x	-99.1x	18.6x
PER	-120.9x	-72.3x	-120.6x	-41.4x	-32.0x	43.2x
FCF yield	-0.4%	-0.4%	-0.9%	-2.1%	-3.3%	-1.5%

Source: Company data, AlsterResearch; Fiscal year end: 30. June



Source: Company data, AlsterResearch

High/low 52 weeks 16.65 / 5.18
Price/Book Ratio 3.2x

Ticker / Symbols

ISIN AU0000066086
WKN A2PV3A
Bloomberg VUL:AU

Changes in estimates

		Sales	EBIT	EPS
2021	old	00.0	00.0	00.0
	Δ	-	-	-
2022	old	00.0	00.0	00.0
	Δ	-	-	-
2023	old	00.0	00.0	00.0
	Δ	-	-	-

Key share data

Number of shares: (in m pcs) 129.48
Book value per share: (in AUD) 2.82
Ø trading volume: (12 months) 40,000

Major shareholders

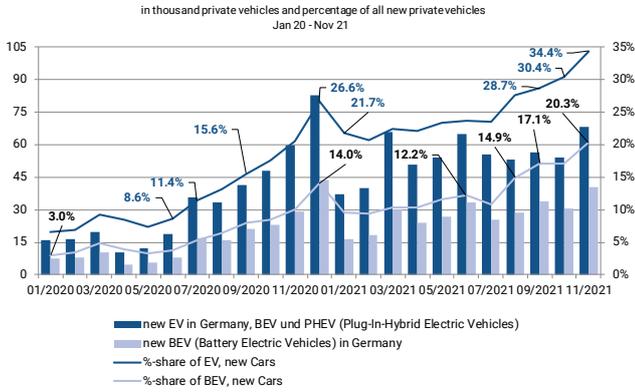
F. Wedin 12.5%
HPPL Group (G. Rinehart) 5.6%
G. Rezos 5.8%
Free Float 76.1%

Company description

The Australian lithium chemicals & renewable energy company Vulcan Energy Resources Ltd. has been developing a project in the Upper Rhine Valley in Germany that combines the use of thermal water as an energy source (hydrogeothermal energy) with the extraction of the lithium contained in the geothermal brine without polluting the environment with emissions, waste material or toxic substances. With a CO2 footprint of "zero", the project is predestined to mark the beginning of the decarbonization of the battery industry.

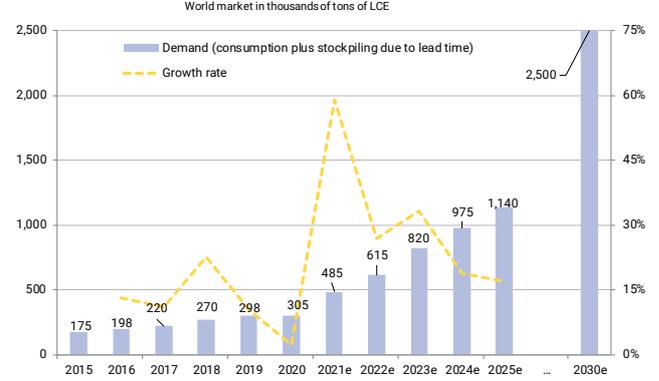
Investment case in six charts

Germany: Electric Vehicles (EV) & Battery Electric Vehicles



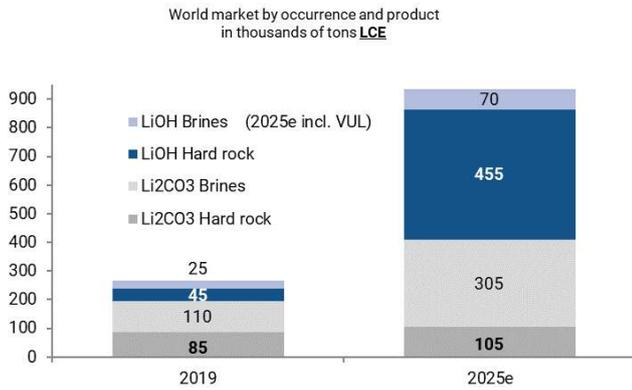
Source: Kraftfahrtbundesamt

World market: Lithium demand



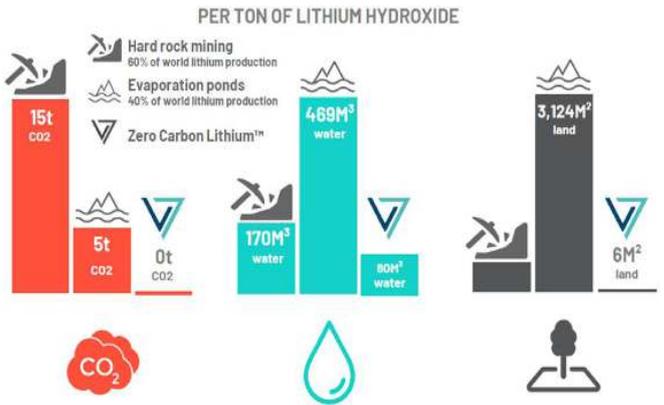
Source: Austral. Gov. (Resources and Energy Quarterly Sep 18 to Sep 21), Albemarle (graphic Sep 2021), Data processing: SRH AlsterResearch

World market: Structure of Li supply



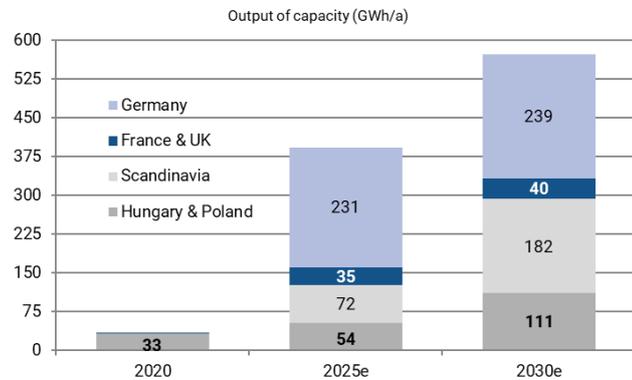
Source: Albemarle (graphic Dec 2019, reconfirmed Sep 2021), Note on VUL/Vulcan Energy Resources: SRH AlsterResearch

Environmental Footprint



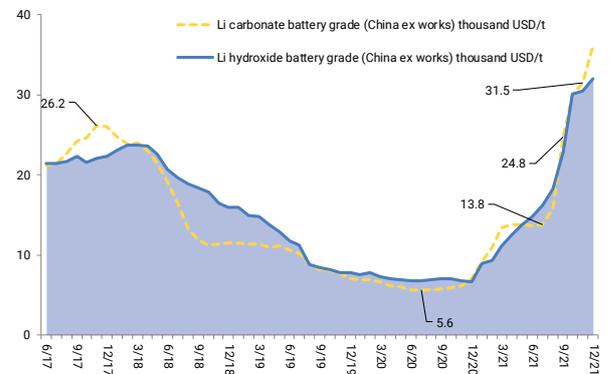
Source: Vulcan Energy Resources

Europe: Lithium-ion battery cell factories



Source: Fraunhofer ISI (Jan 2020)

Pricing performance Lithium



Source: Deutsche Rohstoffagentur (Preismonitor, data LC prices), Data processing LiOH prices: SRH AlsterResearch

Company background

Product

Battery grade lithium hydroxide from brine sources in Germany – the Australian exploration company has been on target for becoming a leading supplier of a material that is central to the electrification strategies of the automotive industry. And by operating its geothermal plant in Insheim, Vulcan will already have become a renewable energy producer, following the formal takeover on 1 January 2022.

Vulcan’s Zero Carbon Lithium™ Project – it rather is a portfolio of projects than one single – combines operations of extraction in the lithium-rich geothermal brine of the Upper Rhine Valley, of upgrading lithium to a high purity hydroxide (LiOH) as well as the production of hydrogeothermal energy (renewable electricity and heat). Thermal water will be used as energy source, and thus the extraction of lithium contained in the brine will run without polluting the environment with emissions, waste material or toxic substances. With a CO₂ footprint of "zero", the project is predestined to mark the beginning of the decarbonization of the battery industry.

In Vulcan's project areas, a staged development will implement a process technology proven effective for more than 20 years in industrial lithium carbonate production, which is known as Direct Lithium Extraction (DLE). Vulcan’s first DLE pilot plant has been operating since April 2021 at the geothermal plant in Landau, using live geothermal brine from existing wells. Vulcan is partnering with DuPont Water Solutions to assist Vulcan with input and brine chemistry test work during the project’s Definitive Feasibility Study (DFS).

Estimated resources of Vulcan’s Upper Rhine Valley Project have reached a total of approx. 15.85 million t LCE in JORC-compliant terms (Inferred and Indicated Mineral Resource, probable Mineral Reserve: 1.12 million t LCE). A portion of 3.62 million t LCE has been classified as Indicated status. This puts Vulcan at the top of the rankings for the peer group of exploration projects in Europe – which are, with the exception of Cornish Lithium in Cornwall, all based on hard rock deposits.

Upper Rhine Valley resource estimate

		Insheim indicated	Taro indicated	Taro inferred	Ortenau indicated	Ortenau inferred	Upper Rhine Valley indicated + inferred
Total Volume of Brine Aquifer	km ³	8,322	8,419	15,924	17,001	117,974	
Average Porosity		9.000	10.227	9.400	12.600	9.500	
Average concentration	mg/l	181	181	181	181	181	
total elemental Li	mg	13,556,538	15,584,136	27,092,171	38,772,481	202,856,293	
total elemental Li	kt	136	156	271	388	2,029	
Lithium carbonate - LCE	kt	722	830	1,442	2,064	10,798	15,855
thereof indicated	kt	722	830		2,064		3,615
inferred	kt			1,442		10,798	12,240
Lithium hydroxide	kt	820	942	1,638	2,344	12,264	18,007
Lithiumoxid	kt	292	336	583	835	4,367	6,413

Sources: Vulcan Energy Resources, SRH AlsterResearch



Picture: Geothermal power plant in Insheim, Upper Rhine Valley, Germany

Lithium-ion batteries are classified based on the composition of the cathode and anode material used. Nickel-cobalt-manganese cathodes, in short: NMC cathodes, currently determine the market momentum. Within this group, low-cost nickel that is readily available in good quantities (here: "N") is replacing manganese (here: "M") and cobalt (here: "C") to a large extent. Whereas the ratio of the first NMC generation was 1:1:1 (NMC 111), the new NMC 622 cathode generation is currently proving increasingly popular. Technically, this requires the use of lithium hydroxide (LiOH) instead of lithium carbonate (Li₂CO₃), insofar as cathode synthesis using lithium carbonate requires high temperatures, which in turn are incompatible with a nickel content of 60% and above (vs. 40% cobalt and manganese). Furthermore, the energy density (or specific energy, energy per mass) of lithium hydroxide exceeds that of lithium carbonate. According to Albemarle's estimate, LiOH production from hard rock deposits will have increased tenfold by 2025 and will account for 80% of lithium production from hard rock deposits (2019: 35%). LiOH production from brine is forecast to treble, meaning that its share of lithium production from brine will remain at 20%.

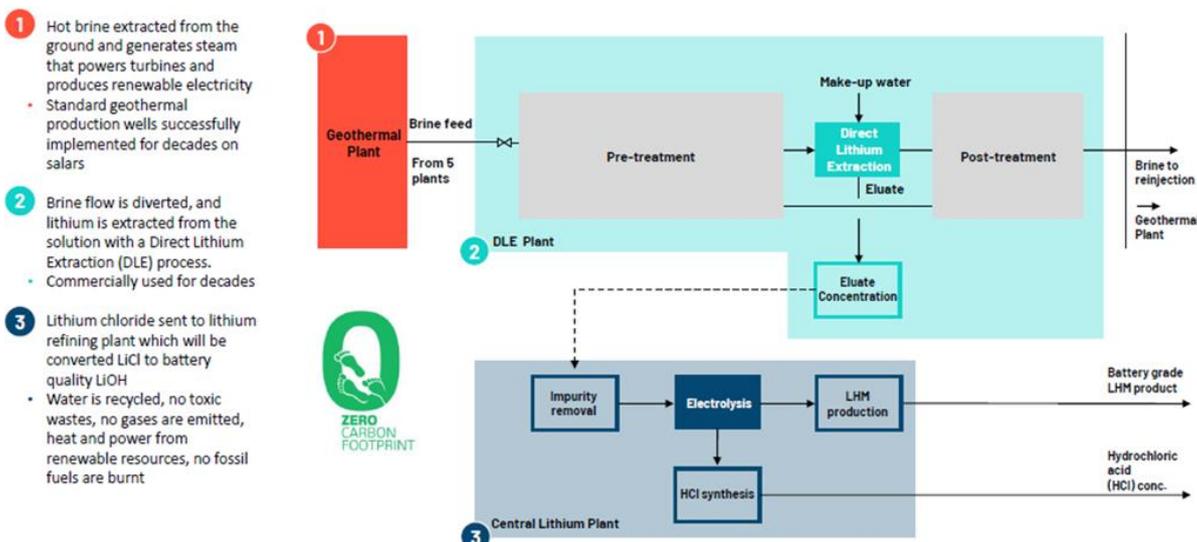
Due to the Pre-Feasibility Study (PFS), Vulcan's project reaches unparalleled dimension with an envisaged annual LiOH-production target of 39.4 thousand t (34.7 thousand t LCE p.a.).

Volume yield estimate Upper Rhine Valley (Taro, Ortenau)

		Taro North (B1)	Taro South (B2)	Ortenau (C1)	Ortenau (C2, C3)	Taro & Ortenau
number of wells (doublets)		3	2	3	6	14
Flow rate per well	m ³ /a	3,153,600	3,784,320	3,153,600	3,153,600	
Approach: 8,760 h/anno	l/d	8,640,000	10,368,000	8,640,000	8,640,000	
	l/h	360,000	432,000	360,000	360,000	
	l/s	100.000	120.000	100.000	100.000	
average concentration	mg/l	181	181	181	181	
Day factor (7,842 h of 8,760 h)		0.90	0.90	0.90	0.90	
DLE plant recovery		0.90	0.90	0.90	0.90	
Lithium refinery plant recovery		0.99	0.99	0.99	0.99	
Share VUL	mg/l	100%	100%	100%	100%	
Li/s	mg	43,126	34,501	43,126	86,253	
Li/h	kg	155.25	124.20	155.25	310.51	
Li/d	kg	3,726	2,981	3,726	7,452	
Li/a	kg	1,360,031	1,088,025	1,360,031	2,720,063	
Li/a	t	1,360	1,088	1,360	2,720	6,528
Lithium carbonate LCE/a	t	7,239	5,791	7,239	14,478	34,748
Lithium hydroxide/a	t	8,222	6,578	8,222	16,444	39,466

Source: SRH AlsterResearch

Simplified image of Zero Carbon Lithium™ Process



Growth

Advancement of the Zero Carbon Lithium™ Project is not dependent on securing further external funds before the stage is set for the final investment decision (FID), a juncture by which risk related discounts will have eased significantly. Even more, ample size of institutional funds (cash position end of December 2021: EUR 135.3m, then AUD 214.6m) gives leeway with which the management is able to act opportunistically, also to attract the ambitious and competent professionals the project will need, and thus to accelerate the process further.

Vulcan has grown through acquisitions of German geothermal consultancy and engineering businesses and has an unparalleled surface and sub-surface geothermal development team in house to execute deep geothermal projects. Consultancy company GeoT (GeoThermal Engineering), Karlsruhe, has been established and led to a world-leading consultancy for deep geothermal energy projects by Dr Kreuter. Its 12 team members form the core of Vulcan's energy business development team, together with 25 members of gec-co. Geothermal surface company gec-co (Global Engineering Consulting-Company), with technical teams in Augsburg, Bremen and Karlsruhe, has been focused on surface installations and drilling for electricity and heating plant projects in the deep thermal energy sector, involving profound experience in mechanical engineering (energy, environmental, process technology). gec-co supports investors, local authorities and clients throughout permitting, construction and operating phase.

While Dr Horst Kreuter coordinates public affairs and public relations of the Zero Carbon Lithium™ project, Thorsten Weimann, founder and managing director of gec-co, has become Chief Operating Officer of Vulcan in Germany, responsible for the combined geothermal energy and lithium operations.

Vulcan's in-house team for the development of lithium operations, comprising DLE (Direct Lithium Extraction) as well as the conversion of lithium chloride to lithium hydroxide in the Central Lithium Plant, currently consists of 8 world-leading experts of lithium chemistry and chemical engineering.

Besides counting on its in-house expertise, Vulcan is collaborating with DuPont Water Solutions to test DLE solutions similar to those commercially mature products which are already used in lithium industry. DuPont has several DLE products and assists Vulcan with input and test work during Vulcan's Zero Carbon Lithium™ project DFS. Implemented by a team of its engineers, DuPont has granted access to equipment and material (e.g. resin) at Vulcan's first pilot plant. This input is made available at no cost to Vulcan provided the parties enter into a supply agreement for DLE products following the completion of the DFS.

Customers

Major automotive producing countries have to ramp up battery cell factory capacity within the coming years. The battery comprises as much as 30% to 40% of the vehicle cost. Ensuring that the demand for lithium-ion accumulators for the automotive industry is covered is a matter that has been assigned a high level of priority throughout Europe. Industrial policy ambitions are therefore aimed at establishing a consistently European supply chain. In Germany alone, there are plans to make investments running into the billions in factory complexes for battery cell production. In addition, industrial policy initiatives include the mining of the raw material lithium – which never occurs as a pure element in nature due to its high reactivity – and the processing of the ores/brines.

The need for electric drive systems to have a tolerable carbon footprint in the production phase, too, is a key aspect, and one that has the very highest priority. The supply security argument is also a top priority. For industrial and security policy reasons, Europe has to manage to break away from its current 100% reliance on raw material supplies from South America or Asia.

The Fraunhofer-Gesellschaft estimates European battery cell production to reach a capacity of 396 GWh/a by 2025 and of 576 GWh by 2030 (publication January 2020). Even higher capacity growth is expected by Ultima Media (part of Süddeutscher Verlag, publication March 2021). Ultima Media predicts that Europe will more than double its plant capacity share from 13% in 2020 to 33% by 2030 and reach a capacity of 950 GWh/a, while capacity in Asia is expected to rise to 1,620 GWh/a (projected share of capacity worldwide: 57%).

In July 2021, LG Energy Solution secured annual supplies of up to 10 thousand t LiOH from Vulcan. LG Energy Solution is the largest producer of lithium-ion batteries for electric vehicles in the world and supplies its products to top global OEMs. The strategic partnership of Renault Group and Vulcan, announced in August and originally aiming at a volume of up to 17 thousand t LiOH annually, has eventually led to a binding offtake agreement to purchase 32 thousand t within six years (2026 to 2032). Due to the announcement in October 2021, Umicore is to purchase up to 42 thousand t over the five-year duration of the agreement (start of commercial delivery set for 2025)., With Stellantis, Vulcan has signed potentially the largest offtake agreement (November 2021). A minimum of 81 thousand t and a maximum of 99 thousand t of battery grade LiOH is to be allotted within five years, starting in 2026. Another highlight of Vulcan's customer acquisition process, if not its keystone, is the binding agreement with Volkswagen, signed in December 2021, for up to 42 thousand t LiOH over five years from 2026.

Offtake Agreements

date			start	min	max	term	min	max	midpoint
				t LiOH	t LiOH	years	annual	annual	annual
							t LiOH	t LiOH	t LiOH
2021-10-18	Umicore	binding offtake agreement	2025	28,000	42,000	5	5,600	8,400	7,000
2021-11-22	Renault Group	binding offtake agreement	2026	26,000	32,000	6	4,333	5,333	4,833
2021-11-29	Stellantis	binding offtake agreement	2026	81,000	99,000	5	16,200	19,800	18,000
2021-12-08	Volkswagen	binding offtake agreement	2026	34,000	42,000	5	6,800	8,400	7,600
2022-01-31	LG Energy Solutions	binding offtake agreement	2025	41,000	50,000	5	8,200	10,000	9,100
							41,133	51,933	46,533

production target (calculation: AlsterResearch)

39,466

Sources: Vulcan Energy Resources, AlsterResearch

Competition

Particularly in the south-west of Australia, the mineral spodumene ($\text{LiAlSi}_2\text{O}_6$) is mined from hard rock deposits in the region's pegmatite fields (pegmatites belong to the group of magmatic dyke rocks). The majority of the quantities extracted are shipped as concentrate for processing to China, where they cover 75% of the country's lithium requirements; only China has the infrastructure required to break large quantities of concentrate down using metallurgical processes. Established production processes initially produce lithium carbonate (Li_2CO_3). Lithium carbonate is the feedstock used for the production of lithium hydroxide (LiOH), and also for the production of other intermediates such as lithium chloride (LiCl). Processing in the battery industry requires lithium carbonate purities of 99.5% or more. The conversion factor LCE (Lithium Carbonate Equivalent), which is common in international trade, refers to lithium carbonate.

Even more significant on a global scale are the deposits of the light metal lithium in salt lakes in South America ("Lithium Triangle" in the Argentina-Bolivia-Chile border region), North America (Nevada, Utah, Searless Lake and Salton Sea/California) and China (Tibetan Plateau). Lithium carbonate and lithium hydroxide is produced from lithium chloride which is extracted from the brines. Other lithium deposits in Europe are hard rock deposits in pegmatite fields containing spodumene, or in which lithium is bound in certain mixed crystals, such as zinnwaldite and other mica. Another approach to lithium mining in Europe is the mining of the mineral jadarite. The drawback regarding the extraction of lithium from spodumene will be that the concentrate will first of all have to be transported for processing to China's large-scale spodumene conversion plants – a considerable disadvantage in view of the climate policy benefits of electromobility. There has been no industrial capacity for processing zinnwaldite to date.

Various cost advantages owing to geological factors point to the economic viability of Vulcan’s lithium project in the Upper Rhine Valley; in addition to the lithium content and a high flow/production rate achieved there, the energy required for the extraction process is significantly lower thanks to what is already a high starting temperature of over 120°C. The most important aspect, however, which also combines cost-effectiveness considerations with the aspect of minimising the "footprint" in terms of the environmental impact, is the immediate proximity to industrial customers. The transportation distance of a few hundred kilometres to existing or planned battery factories and the industrial mobility cluster in the south-west of Germany is a decisive argument that helps to underpin the advantages of Vulcan’s battery grade lithium associated with the carbon footprint of the electric drive versus the combustion engine. From 2026, EU regulation requires that lithium-ion batteries will have to bear a carbon intensity performance class label and from July 2027, must comply with maximum carbon footprint thresholds.

Key shareholders

		shares (million)	% of issued capital
Dr Francis Wedin	Managing Director & Founder, CEO	13.03	10.52%
Hancock Prospecting Pty Ltd and Georgina Hope Rinehart		8.17	6.60%
Gavin Rezos	Chair	6.08	4.91%
Top 20 shareholders			~50%

Board

- Dr Francis Wedin, Managing Director & Founder – CEO
Founder of Vulcan Zero Carbon Lithium™ Project, lithium industry executive since 2014.
- Gavin Rezos, Chair
Executive Chair/CEO of two ASX 300-companies. Investment banking Director of HSBC
- Dr Horst Kreuter, Board Advisor
Co-Founder of Vulcan Zero Carbon Lithium™ Project, successful geothermal project development and permitting in Germany and worldwide being CEO of Geothermal Group and GeoThermal Engineering (GeoT)
- Annie Liu, Non-Executive Director
Battery expert. Former Tesla Head of Battery and Energy Supply Chain
- Dr Heidi Grön, Non-Executive Director
Chemical engineer, since 2007 senior executive with Evonik, responsible for Global product safety, impact assessment and strategy development for sustainability as part of the EU Green Deal and management of Evonik’s major investments
- Josephine Bush, Non-Executive Director
Expert Renewable/Sustainable Businesses. Member of the EY Power and Utilities Board. Former senior EY Global Renewables Partner
- Ranya Alkadamani, Non-Executive Director
Communications strategist, Founder of Impact Group International
- Julia Poliscanova – Board Advisor
Electromobility expert, member of the board of the Global Battery Alliance
- Rob Ierace, CFO
Chartered Accountant and Chartered Secretary with over 20 years of experience



Daniel Tydde, Company Secretary & In-House Legal Counsel
Corporate lawyer, experienced in commercial & finance areas, including IPO's, equity/debt raisings, regulatory compliance, corporate governance



Key Executives

Thorsten Weimann – Chief Operating Officer in Germany
Managing director of gec-co Global Engineering Consulting-Company, expert in geothermal and drilling technology



Markus Ritzauer – Chief Financial Officer of Vulcan Energie Ressourcen, Germany
Previous Head of Finance at chemical park service provider Currenta, Leverkusen. CFO and other management positions of subsidiaries and affiliates within Bayer and Bayer Group



Dr Stephen Harrison – Chief Technical Officer
Diverse multi-industry background in electrochemistry and lithium extraction, as CTO of Simbol Materials led to develop a process to extract lithium from geothermal brine, recognised as lowest cost production method to lithium hydroxide. CEO of Rakehill Technology, consulted industry on various lithium extraction technologies



Vincent Ledoux Pedailles – Vice President – Business Development
Previously Executive Director at Infinity, also worked at IHS Markit, where he led the lithium and battery materials research team



SWOT Analysis

Strength

- Location: Close proximity to the European battery industry which is currently being established, short transportation distance (carbon footprint, 1st aspect)
- Largest JORC-compliant lithium resource in Europe (Inferred and Indicated Mineral Resource)
- Carbon footprint, 2nd aspect: Lithium production using geothermal energy, without polluting the environment with emissions, waste material or toxic substances.
- Cash position of EUR 135m (~AUD 214m, ~USD 153m) is sufficient for accelerated project development, including extensive test work and development of pilot plants. Advancement of the Zero Carbon Lithium™ Project is not dependent on securing further external funds before the stage is set for the final investment decision (FID), a juncture by which risk related discounts will have eased significantly.
- Lithium is separated within a matter of hours, eliminating external interference factors
- Lithium marketing has not only started, but per December 2021, the orderbook for the first six years of production has already been filled: LG Energy Solution has secured annual supplies of up to 10 thousand t LiOH from Vulcan. Umicore is to purchase up to 42 thousand t of battery grade LiOH over a five-year term. Renault Group signed a binding offtake agreement to purchase 32 thousand t battery grade LiOH within six years (2026 to 2032). Stellantis will purchase a minimum of 81 thousand t and a maximum of 99 thousand t of battery grade LiOH within five years, starting in 2026. Volkswagen will purchase up to 42 thousand t LiOH over five years from 2026.

Weaknesses

- Further funds required for project implementation have yet to be raised
- Investment lead time will take more than two years

Opportunities

- Headstart in the race to commercialize Lithium within Central Europe: Preliminary Feasibility Study (PFS) brings about the leading and – for the time being – a unique position
- Rapid growth in lithium demand among the European battery industry
- Contribution to an independent European lithium supply chain (supply aspect, short transportation distances) creates an incentive for the battery industry to pay a premium over the lithium reference price
- Low-cost asset: Opportunity for operating costs at the lower end/in the lower quartile of the global peer group cost curve
- Income from electricity feed-in as a second source of revenue besides lithium sales

Threats

- The reference price for lithium based on imports in China/Korea/ Japan could come under pressure – as occurred in 2018 and 2019 – and put a damper on investor sentiment
- Approval procedures, in particular legal action against authorisations granted, could delay implementation

Due to the fact that companies rarely bear sufficient resemblance to peers in terms of geographical exposure, size or competitive strength and in order to adjust for the pitfalls of weak long-term visibility, an Adjusted Free Cash Flow analysis (Adjusted FCF) has been conducted.

The adjusted Free Cash Flow Yield results in a **fair value between AUD 1.01 per share based on 2022E and AUD 37.78 per share on 2026E estimates**. It has to be kept in mind that FCF yield methodology does not factor in expansion capex.

The main driver of this model is the level of return available to a controlling investor, influenced by the cost of that investors' capital (opportunity costs) and the purchase price – in this case the enterprise value of the company. Here, the adjusted FCF yield is used as a proxy for the required return and is defined as EBITDA less minority interest, taxes and investments required to maintain existing assets (maintenance capex).

FCF yield in AUDm	2022E	2023E	2024E	2025E	2026E
EBITDA	-14	-14	-11	130	544
- Maintenance capex	0	-3	0	70	79
- Minorities	0	0	0	0	0
- tax expenses	-4	-13	-19	15	124
= Adjusted FCF	-10	2	8	45	342
Actual Market Cap	1,173	1,173	1,173	1,173	1,173
+ Net debt (cash)	-332	-434	202	699	475
+ Pension provisions	0	0	0	0	0
+ Off b/s financing	0	0	0	0	0
- Financial assets	0	0	0	0	0
- Acc. dividend payments	0	0	0	0	0
<i>EV Reconciliations</i>	-332	-434	202	699	475
= Actual EV'	841	738	1,375	1,872	1,647
Adjusted FCF yield	-1.2%	0.3%	0.6%	2.4%	20.7%
base hurdle rate	6.0%	6.0%	6.0%	6.0%	6.0%
ESG adjustment	1.0%	1.0%	1.0%	1.0%	1.0%
adjusted hurdle rate	5.0%	5.0%	5.0%	5.0%	5.0%
Fair EV	-201	44	166	898	6,834
- <i>EV Reconciliations</i>	-332	-434	202	699	475
Fair Market Cap	130	478	-36	199	6,359
No. of shares (million)	129	144	161	168	168
Fair value per share in AUD	1.01	3.32	-0.22	1.18	37.78
Premium (-) / discount (+)	-88.7%	-62.8%	-102.5%	-86.7%	324.1%

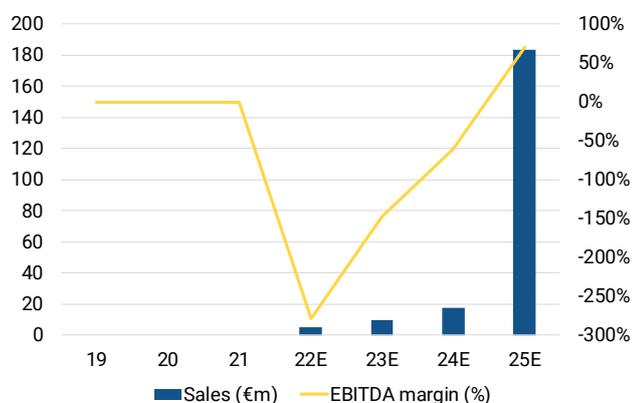
Sensitivity analysis fair value						
Adjusted hurdle rate	3.0%	-0	4	0	5	65
	4.0%	1	3	0	3	48
	5.0%	1	3	-0	1	38
	6.0%	1	3	-0	0	31
	7.0%	1	3	-1	-0	26

Source: Company data; AlsterResearch

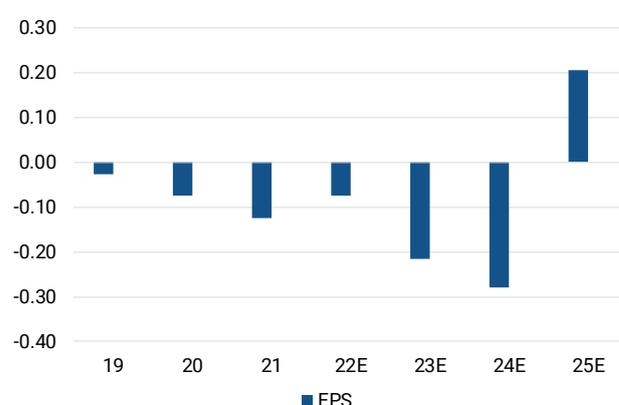
Simply put, the model assumes that investors require companies to generate a minimum return on the investor's purchase price. The required after-tax return equals the model's hurdle rate. Anything less suggests the stock is expensive; anything more suggests the stock is cheap. **ESG adjustments might be applicable, based on the overall Leeway ESG Score. A high score indicates high awareness for environmental, social or governance issues and thus might lower the overall risk an investment in the company might carry. A low score on the contrary might increase the risk of an investment and might therefore trigger a higher required hurdle rate.**

Financials in six charts

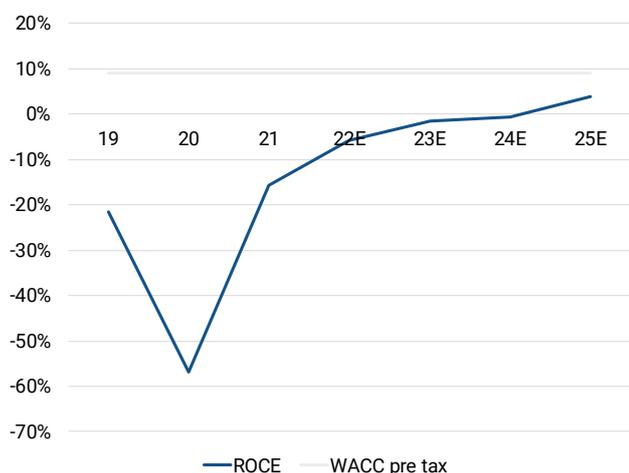
Sales vs. EBITDA margin development



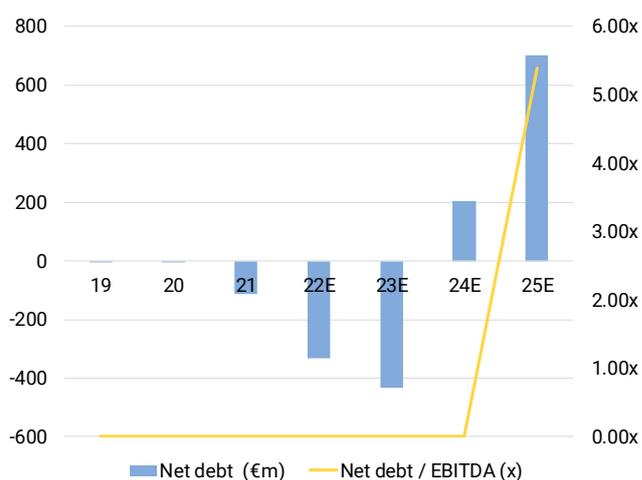
EPS in AUD



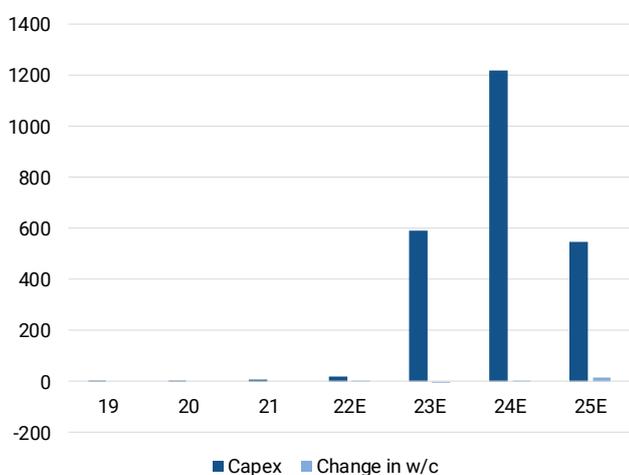
ROCE vs. WACC (pre tax)



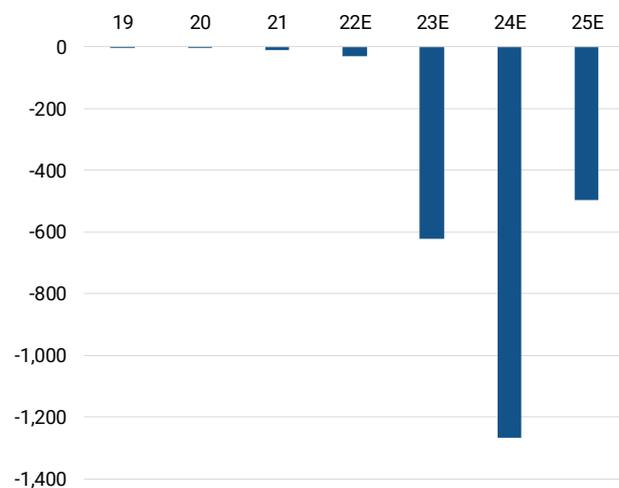
Net debt and net debt/EBITDA



Capex & chgn in w/c requirements in AUDm



Free Cash Flow in AUDm



Source: Company data; AlsterResearch

Financials

Profit and loss (AUDm)	2020	2021	2022E	2023E	2024E	2025E
Sales	0	0	5	10	18	183
Sales growth	na	na	na	87.5%	86.2%	932.9%
Cost of sales	0	0	2	5	10	61
Gross profit	0	0	3	5	7	122
SG&A expenses	3	11	17	19	21	22
Research and development	0	0	0	0	0	0
Other operating expenses (income)	-0	-1	0	0	0	0
EBITDA	-3	-11	-14	-14	-11	130
Depreciation	0	0	0	-3	0	27
EBITA	-4	-11	-14	-11	-11	102
Amortisation of goodwill and intangible assets	0	0	0	3	3	3
EBIT	-4	-11	-14	-14	-14	100
Financial result	0	0	1	-30	-50	-50
Recurring pretax income from continuing operations	-4	-11	-14	-44	-64	50
Extraordinary income/loss	0	0	0	0	0	0
Earnings before taxes	-4	-11	-14	-44	-64	50
Taxes	0	0	-4	-13	-19	15
Net income from continuing operations	-4	-11	-10	-31	-45	35
Result from discontinued operations (net of tax)	0	0	0	0	0	0
Net income	-4	-11	-10	-31	-45	35
Minority interest	0	0	0	0	0	0
Net profit (reported)	-4	-11	-10	-31	-45	35
Average number of shares	48.23	87.20	129.48	144.30	160.62	168.31
EPS reported	-0.07	-0.12	-0.07	-0.22	-0.28	0.21

Profit and loss (common size)	2020	2021	2022E	2023E	2024E	2025E
Sales	na	na	100%	100%	100%	100%
Cost of sales	na	na	47%	50%	59%	33%
Gross profit	na	na	53%	50%	41%	67%
SG&A expenses	na	na	332%	200%	118%	12%
Research and development	na	na	0%	0%	0%	0%
Other operating expenses (income)	na	na	0%	0%	0%	0%
EBITDA	na	na	-278%	-147%	-61%	71%
Depreciation	na	na	1%	-30%	0%	15%
EBITA	na	na	-279%	-116%	-61%	56%
Amortisation of goodwill and intangible assets	na	na	0%	33%	16%	1%
EBIT	na	na	-279%	-150%	-77%	55%
Financial result	na	na	10%	-316%	-283%	-27%
Recurring pretax income from continuing operations	na	na	-269%	-466%	-361%	27%
Extraordinary income/loss	na	na	0%	0%	0%	0%
Earnings before taxes	na	na	-269%	-466%	-361%	27%
Taxes	na	na	-81%	-140%	-108%	8%
Net income from continuing operations	na	na	-188%	-326%	-252%	19%
Result from discontinued operations (net of tax)	na	na	0%	0%	0%	0%
Net income	na	na	-188%	-326%	-252%	19%
Minority interest	na	na	0%	0%	0%	0%
Net profit (reported)	na	na	-188%	-326%	-252%	19%

Source: Company data; AlsterResearch

Balance sheet (AUDm)	2020	2021	2022E	2023E	2024E	2025E
Intangible assets (exl. Goodwill)	3	14	16	14	13	11
Goodwill	0	0	0	0	0	0
Property, plant and equipment	0	1	18	610	1,826	2,342
Financial assets	0	0	0	0	0	0
FIXED ASSETS	3	16	34	624	1,838	2,354
Inventories	0	0	0	0	7	27
Accounts receivable	0	1	0	0	1	8
Other current assets	0	0	0	0	0	0
Liquid assets	6	115	332	944	644	146
Deferred taxes	0	0	0	0	0	0
Deferred charges and prepaid expenses	0	0	0	0	0	0
CURRENT ASSETS	7	116	332	945	651	181
TOTAL ASSETS	9	132	366	1,568	2,489	2,534
SHAREHOLDERS EQUITY	9	129	366	1,057	1,641	1,676
MINORITY INTEREST	0	0	0	0	0	0
Long-term debt	0	0	0	510	846	846
Provisions for pensions and similar obligations	0	0	0	0	0	0
Other provisions	0	0	0	0	0	0
Non-current liabilities	0	0	0	510	846	846
short-term liabilities to banks	0	0	0	0	0	0
Accounts payable	0	2	0	1	2	12
Advance payments received on orders	0	0	0	0	0	0
Other liabilities (incl. from lease and rental contracts)	0	0	0	0	0	0
Deferred taxes	0	0	0	0	0	0
Deferred income	0	0	0	0	0	0
Current liabilities	0	2	0	1	2	12
TOTAL LIABILITIES AND SHAREHOLDERS EQUITY	9	132	366	1,568	2,489	2,534

Balance sheet (common size)	2020	2021	2022E	2023E	2024E	2025E
Intangible assets (excl. Goodwill)	28%	11%	4%	1%	1%	0%
Goodwill	0%	0%	0%	0%	0%	0%
Property, plant and equipment	0%	1%	5%	39%	73%	92%
Financial assets	0%	0%	0%	0%	0%	0%
FIXED ASSETS	28%	12%	9%	40%	74%	93%
Inventories	0%	0%	0%	0%	0%	1%
Accounts receivable	1%	1%	0%	0%	0%	0%
Other current assets	0%	0%	0%	0%	0%	0%
Liquid assets	71%	87%	91%	60%	26%	6%
Deferred taxes	0%	0%	0%	0%	0%	0%
Deferred charges and prepaid expenses	0%	0%	0%	0%	0%	0%
CURRENT ASSETS	72%	88%	91%	60%	26%	7%
TOTAL ASSETS	100%	100%	100%	100%	100%	100%
SHAREHOLDERS EQUITY	98%	98%	100%	67%	66%	66%
MINORITY INTEREST	0%	0%	0%	0%	0%	0%
Long-term debt	0%	0%	0%	33%	34%	33%
Provisions for pensions and similar obligations	0%	0%	0%	0%	0%	0%
Other provisions	0%	0%	0%	0%	0%	0%
Non-current liabilities	0%	0%	0%	33%	34%	33%
short-term liabilities to banks	0%	0%	0%	0%	0%	0%
Accounts payable	2%	2%	0%	0%	0%	0%
Advance payments received on orders	0%	0%	0%	0%	0%	0%
Other liabilities (incl. from lease and rental contracts)	0%	0%	0%	0%	0%	0%
Deferred taxes	0%	0%	0%	0%	0%	0%
Deferred income	0%	0%	0%	0%	0%	0%
Current liabilities	2%	2%	0%	0%	0%	0%
TOTAL LIABILITIES AND SHAREHOLDERS EQUITY	100%	100%	100%	100%	100%	100%

Source: Company data; AlsterResearch

Cash flow statement (AUDm)	2020	2021	2022E	2023E	2024E	2025E
Net profit/loss	-4	-11	-10	-31	-45	35
Depreciation of fixed assets (incl. leases)	0	0	0	-3	0	27
Amortisation of goodwill	0	0	0	0	0	0
Amortisation of intangible assets	0	0	0	3	3	3
Others	0	1	0	0	0	0
Cash flow from operations before changes in w/c	-1	-3	-10	-31	-42	65
Increase/decrease in inventory	0	0	0	0	-7	-20
Increase/decrease in accounts receivable	0	0	1	-0	-0	-7
Increase/decrease in accounts payable	0	0	-2	0	1	10
Increase/decrease in other w/c positions	0	0	-0	0	0	0
Increase/decrease in working capital	0	0	-1	0	-6	-17
Cash flow from operating activities	-1	-3	-10	-31	-48	48
CAPEX	-1	-7	-18	-590	-1,218	-545
Payments for acquisitions	0	0	0	0	0	0
Financial investments	0	0	0	0	0	0
Income from asset disposals	0	0	0	0	0	0
Cash flow from investing activities	-1	-7	-18	-590	-1,218	-545
Cash flow before financing	-3	-10	-29	-620	-1,265	-497
Increase/decrease in debt position	0	-0	-1	510	335	0
Purchase of own shares	0	0	0	0	0	0
Capital measures	6	118	246	723	629	0
Dividends paid	0	0	0	0	0	0
Others	0	0	0	0	0	0
Effects of exchange rate changes on cash	-0	0	0	0	0	0
Cash flow from financing activities	6	118	246	1,233	964	0
Increase/decrease in liquid assets	3	108	217	613	-301	-497
Liquid assets at end of period	6	115	332	944	644	146

Source: Company data; AlsterResearch

Regional sales split (AUDm)	2020	2021	2022E	2023E	2024E	2025E
Domestic	0	0	5	10	18	183
Europe (ex domestic)	0	0	0	0	0	0
The Americas	0	0	0	0	0	0
Asia	0	0	0	0	0	0
Rest of World	0	0	0	0	0	0
Total sales	0	0	5	10	18	183

Regional sales split (common size)	2020	2021	2022E	2023E	2024E	2025E
Domestic	na	na	100.0%	100.0%	100.0%	100.0%
Europe (ex domestic)	na	na	0.0%	0.0%	0.0%	0.0%
The Americas	na	na	0.0%	0.0%	0.0%	0.0%
Asia	na	na	0.0%	0.0%	0.0%	0.0%
Rest of World	na	na	0.0%	0.0%	0.0%	0.0%
Total sales	na	na	100%	100%	100%	100%

Source: Company data; AlsterResearch

Ratios	2020	2021	2022E	2023E	2024E	2025E
Per share data						
Earnings per share reported	-0.07	-0.12	-0.07	-0.22	-0.28	0.21
Cash flow per share	-0.03	-0.04	-0.08	-0.19	-0.30	-0.13
Book value per share	0.18	1.48	2.82	7.33	10.22	9.96
Dividend per share	0.00	0.00	0.00	0.00	0.00	0.00
Valuation						
P/E	-120.9x	-72.3x	-120.6x	-41.4x	-32.0x	43.2x
P/CF	-265.6x	-242.7x	-112.0x	-46.6x	-30.0x	-67.5x
P/BV	48.4x	6.0x	3.2x	1.2x	0.9x	0.9x
Dividend yield (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
FCF yield (%)	-0.4%	-0.4%	-0.9%	-2.1%	-3.3%	-1.5%
EV/Sales	na	na	161.9x	75.6x	76.5x	10.1x
EV/EBITDA	-346.3x	-99.0x	-58.3x	-51.4x	-125.4x	14.3x
EV/EBIT	-318.8x	-95.7x	-58.0x	-50.5x	-99.1x	18.6x
Income statement (AUDm)						
Sales	0	0	5	10	18	183
yoy chg in %	na	na	na	87.5%	86.2%	932.9%
Gross profit	0	0	3	5	7	122
Gross margin in %	na	na	53.1%	50.0%	41.3%	66.6%
EBITDA	-3	-11	-14	-14	-11	130
EBITDA margin in %	na	na	-277.8%	-147.0%	-61.0%	70.9%
EBIT	-4	-11	-14	-14	-14	100
EBIT margin in %	na	na	-279.0%	-149.6%	-77.2%	54.5%
Net profit	-4	-11	-10	-31	-45	35
Cash flow statement (AUDm)						
CF from operations	-1	-3	-10	-31	-48	48
Capex	-1	-7	-18	-590	-1,218	-545
Maintenance Capex	0	0	0	-3	0	70
Free cash flow	-3	-10	-29	-620	-1,265	-497
Balance sheet (AUDm)						
Intangible assets	3	14	16	14	13	11
Tangible assets	0	1	18	610	1,826	2,342
Shareholders' equity	9	129	366	1,057	1,641	1,676
Pension provisions	0	0	0	0	0	0
Liabilities and provisions	0	1	0	510	846	846
Net financial debt	-6	-114	-332	-434	202	699
w/c requirements	-0	-1	-0	-1	5	22
Ratios						
ROE	-40.0%	-8.3%	-2.6%	-2.9%	-2.7%	2.1%
ROCE	-40.5%	-8.4%	-3.9%	-0.9%	-0.6%	4.0%
Net gearing	-72.3%	-88.5%	-90.7%	-41.1%	12.3%	41.7%
Net debt / EBITDA	1.9x	10.9x	23.5x	31.0x	-18.7x	5.4x

Source: Company data; AlsterResearch

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Company	Disclosure
Vulcan Energy Resources	2, 8

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