

Vulcan Energy Resources Ltd

Australia | Basic Resources | MCap EUR 236.0m

23 February 2024

UPDATE



Potential EUR 500m EIB financing on the horizon; BUY.

BUY (BUY)

Target price	EUR 9.90 (9.90)
Current price	EUR 1.41
Up/downside	602.6%



What's it all about?

Yesterday, Vulcan Energy Resources provided an update on its financing efforts, as the Zero Carbon Lithium project appears potentially suitable for a financing from the European Investment Bank (EIB) of up to EUR 500m. After completing its Bridging Engineering Study (BES) in November, Vulcan kicked off the financing process for phase 1 of its Zero Carbon Lithium project. According to the BES, the CAPEX for Phase One is currently estimated with EUR 1.4bn. Development banks are a cornerstone of Vulcan's financing efforts, having sent positive signals, despite the sharp drop in lithium prices last year. While the EIB announcement is no definitive commitment yet, it reflects an increasing momentum in Europe for green metals/batteries/energy projects. Approval of the EIB financing could serve as a decisive catalyst for further financing commitments from other players. Our recommendation remains BUY with a PT of EUR 9.90.

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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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Vulcan Energy Resources Ltd

Australia | Basic Resources | MCap EUR 236.0m | EV EUR 229.8m

BUY (BUY)

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Potential EUR 500m EIB financing on the horizon; BUY

EIB financing under appraisal. Yesterday, Vulcan Energy Resources provided an update on its financing efforts, as the Zero Carbon Lithium project appears potentially suitable for a financing from the European Investment Bank (EIB). Pending completion of due diligence, Vulcan could obtain a financing up to EUR 500m. The European Investment Bank is the lending arm of the European Union, and one of the largest providers of climate finance. To support the European Green Deal, the EIB is committed to support EUR 1 trillion of green investment in the decade to 2030 and to align all its new operations with the Paris Agreement.

Financing process ongoing. After completing its Bridging Engineering Study (BES) in November, Vulcan kicked off the financing process for phase 1 of its Zero Carbon Lithium project. According to the BES, the CAPEX for Phase One is currently estimated with EUR 1.4bn. To raise the necessary funds, on the one hand, the company plans to bring strategic investors aboard at project level. On the other hand, Vulcan is looking for debt funding. In regard to this, the company seen strong interest from commercial and development banks, despite the sharp drop in lithium prices last year. The EIB financing would mark a cornerstone, which would complement ongoing debt funding discussions with export credit agencies and international banks. So far, Vulcan has received an AUD 200m (~EUR 120m) non-binding Letter of Support from Export Finance Australia (EFA), and indication of strong ECA support from Canada, Italy, and France during 2023.

Conclusion. While the EIB announcement is no definitive commitment yet, it reflects an increasing momentum in Europe for green metals/batteries/energy projects, such as the recent EU financings of Northvolt's battery gigafactory in Heide, as well as H2 Green Steel's large-scale production facility in Northern Sweden. Approval of the EIB financing could serve as a decisive catalyst for further financing commitments from other players. Our recommendation remains BUY with a PT of EUR 9.90.



Source: Company data, AlsterResearch

High/low 52 weeks 4.13 / 1.21
Price/Book Ratio 0.9x

Ticker / Symbols

ISIN AU0000066086
WKN A2PV3A
Bloomberg VUL:GR

Changes in estimates

		Sales	EBIT	EPS
2023E	old	7.3	-43.0	-0.22
	Δ	0.0%	na%	na%
2024E	old	7.3	-56.0	-0.74
	Δ	0.0%	na%	na%
2025E	old	9.0	-85.5	-0.85
	Δ	0.0%	na%	na%

Key share data

Number of shares: (in m pcs) 167.52
Book value per share: (in EUR) 1.57
Ø trading volume: (12 months) 16,160

Major shareholders

F. Wedin 9.8%
Stellantis Group 6.8%
Hancock Prospecting 5.6%
Free Float 72.5%

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.

in EURm	2022	2022S	2023E	2024E	2025E	2026E
Sales	3.8	3.6	7.3	7.3	9.0	204.9
Growth yoy	nm	-4.7%	102.8%	0.0%	22.5%	2,176.7%
EBITDA	-14.9	-11.0	-38.4	-41.1	-46.1	146.8
EBIT	-17.5	-13.9	-43.0	-56.0	-85.5	75.1
Net profit	-18.7	-13.4	-36.2	-133.2	-165.3	9.3
Net debt (net cash)	-172.4	-130.8	-6.3	257.2	916.1	997.5
Net debt/EBITDA	11.6x	11.9x	0.2x	-6.3x	-19.9x	6.8x
EPS reported	-0.15	-0.09	-0.22	-0.74	-0.85	0.05
DPS	0.00	0.00	0.00	0.00	0.00	0.00
Dividend yield	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gross profit margin	na	110.2%	18.3%	18.3%	-344.4%	68.5%
EBITDA margin	na	-304.3%	-522.6%	-559.8%	-512.6%	71.6%
EBIT margin	na	-383.4%	-585.7%	-762.3%	-950.0%	36.6%
ROCE	-7.0%	-5.8%	-12.7%	-3.3%	-5.2%	4.5%
EV/EBITDA	-4.3x	-9.6x	-6.0x	-12.0x	-25.0x	8.4x
EV/EBIT	-3.6x	-7.6x	-5.3x	-8.8x	-13.5x	16.4x
PER	-9.4x	-15.0x	-6.5x	-1.9x	-1.6x	29.8x
FCF yield	-6.5%	-3.7%	-19.0%	160.0%	-41.5%	-13.0%

Source: Company data, AlsterResearch; 2022S short fiscal year – year end: 31.12.

Products & Services



The map displays the geothermal energy landscape in the Upper Rhine Graben, spanning Germany and France. Key locations and features include:

- Germany:**
 - Hochst Chemical Park:** Central lithium plant, permitted by the state.
 - Frankfurt:** Access to the licence through a brine offtake.
 - Staufen-Görschenberg Salt:** Access to the licence through a brine offtake.
 - Kaiserstuhl:** Lithium and geothermal licence.
 - Landau Süd:** Lithium and geothermal licence.
 - Landau-Nord:** Lithium and geothermal licence.
 - Karlsruhe:** Lithium and geothermal licence.
- France:**
 - Haguenau:** Lithium and geothermal licence.
 - Strasbourg:** Lithium and geothermal licence.
 - Stade de la Forêt:** Lithium and geothermal licence.
- Geological Features:**
 - Basaltic dykes:** Indicated by red lines.
 - Geothermal reservoirs:** Indicated by blue areas.
 - Geothermal fields:** Indicated by green areas.
 - Geothermal fields with lithium:** Indicated by yellow areas.
 - Geothermal fields with lithium and geothermal:** Indicated by orange areas.
 - Geothermal fields with lithium and geothermal and geothermal:** Indicated by light blue areas.
- Legend:**
 - Production licence (Blue circle)
 - Access to the licence through a brine offtake (Blue circle with a line)
 - Lithium and geothermal licence (Blue triangle)
 - Lithium and geothermal licence application (Blue triangle with a line)
 - Renewable Heat offtake agreement (Green triangle)
 - Deep geothermal wells/plant (Red triangle)
 - Primary producing (Red triangle)
 - Rottensandstein reservoir (Blue triangle)
 - Secondary Rottensandstein reservoir (Blue triangle)
- Scale:** 20km
- Compass:** North arrow pointing up.

Figure 1: Project CAPEX Breakdown

The figure illustrates the capital expenditure (CAPEX) breakdown for a lithium extraction project. The total CAPEX is €1,399M.

Project Overview:

- Well sites:** €102M
- Geothermal Plant:** €11M
- Lithium Extraction Plant (LEP):** €360M
- Central Lithium Plant (CLP):** €358M
- ICPP:** €201M
- DRILLING:** €267M

CAPEX Breakdown:

Category	CAPEX (€M)	Percentage (%)
Drilling	267	19%
Well sites	267	19%
Geothermal Plant	11	0.8%
Lithium Extraction Plant (LEP)	360	26%
Central Lithium Plant (CLP)	358	25%
Total	1,399	100%

Lithium hydroxide delivered costs - 2025 (\$/tonne, ddp Rotterdam)

Production costs, left axis and capacity (€/tonne of dry product)

Price forecast (2025, of EU)

Vulcan Energy
\$4,223
€4,022

- Vulcan's process:
- No feedstock cost
- Very limited reagent consumption
- Smart use of waste heat to drive the process

Cumulative capacity (%)

Cumulative capacity (1000 tonnes)

Costs: CAPEX Transport Dioxin Clean export duty (ICORF)

Supply-demand balance, surplus as share of supply (kt, %)

This chart illustrates the projected supply-demand balance for lithium from 2021 to 2039. The Y-axis represents the quantity in kilotonnes (kt), ranging from 0 to 8,000. The X-axis represents the years. The chart features three data series: Lithium supply surplus (red bars), Supply (dark blue line), and Apparent demand (teal line). The surplus is expressed as a percentage of supply for each year.

Year	Supply (kt)	Apparent demand (kt)	Lithium supply surplus (kt)	Surplus as share of supply (%)
2021	~500	~500	~1,000	2.7%
2022	~600	~600	~1,400	-16.8%
2023	~800	~800	~1,200	-6.7%
2024	~1,000	~1,000	~1,600	-5.8%
2025	~1,200	~1,200	~2,000	-7.8%
2026	~1,400	~1,400	~1,800	-5.3%
2027	~1,600	~1,600	~1,400	-1.1%
2028	~1,800	~1,800	~1,200	1.9%
2029	~2,000	~2,000	~1,600	3.2%
2030	~2,200	~2,200	~1,400	2.2%
2031	~2,400	~2,400	~1,200	-0.2%
2032	~2,600	~2,600	~1,000	-2.1%
2033	~2,800	~2,800	~800	-2.6%
2034	~3,000	~3,000	~600	-3.1%
2035	~3,200	~3,200	~400	-0.8%
2036	~3,400	~3,400	~200	1.1%
2037	~3,600	~3,600	~100	0.8%
2038	~3,800	~3,800	~100	-3.7%
2039	~4,000	~4,000	~100	-6.1%

Owner	Percentage
Free Float	73%
F. Wedin	10%
Stellantis Group	7%
Hancock Enterprises	6%
Vivien	5%

Company Background

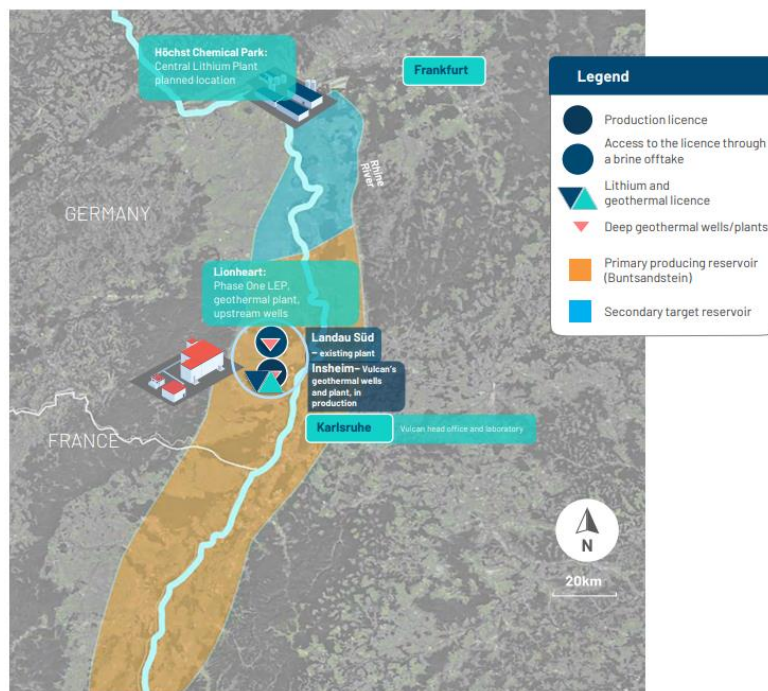
Vulcan in a nutshell:

Battery grade lithium hydroxide from brine sources in Germany – Vulcan 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 geothermal plants, the company plans to provide renewable energy and heat to public and commercial customers in Germany.

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). 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.

Estimated resources of Vulcan's Upper Rhine Valley Project have reached a total of approx. 27.7 million t LCE in JORC-compliant terms (Measured and Indicated Resource: 11.2 million t LCE). A portion of 4.16 million t LCE has been classified in the Measured category.

Phase 1 area

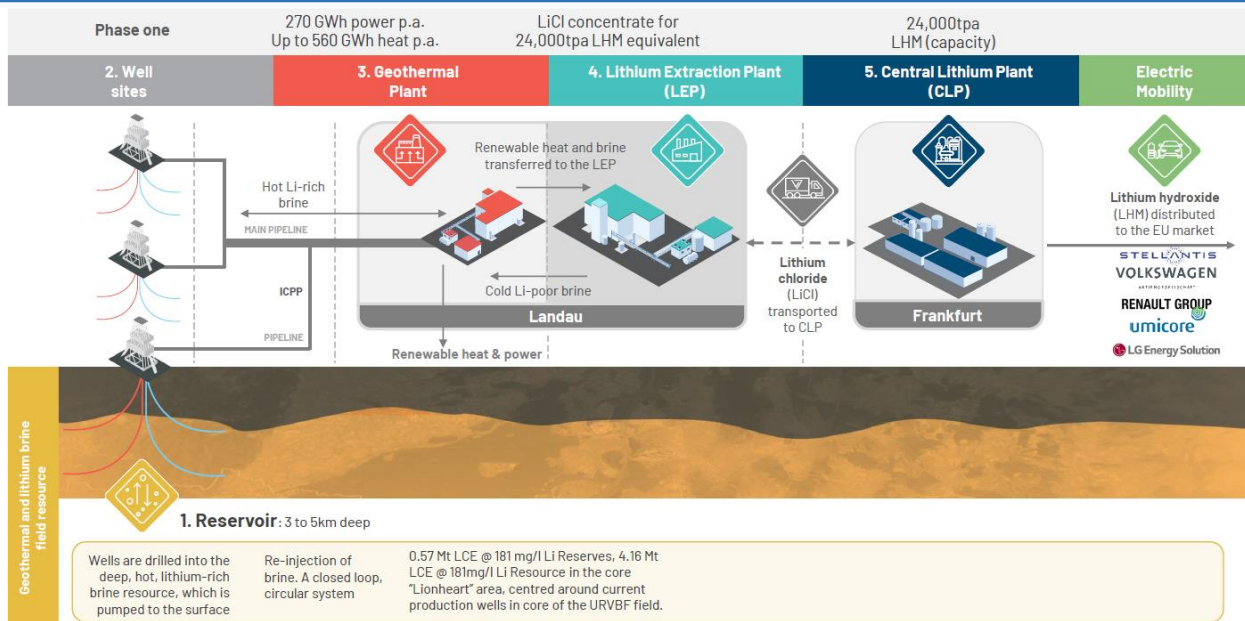


Source: Company data

How Vulcan's system works:

The system consists of extraction wells, drilled into the deep, hot, lithium-rich brine resource, which is pumped to the surface. Reinjection wells are used to feed the water back into the reservoir after part of the thermal energy stored in it has been cooled and lithium from brine has been extracted in the Lithium Extraction Plant (LEP). The lithium in the form of lithium chloride will be transported to Vulcan's Central Lithium Plant (CLP) at Frankfurt Höchst Chemical Park, where it will be converted to battery grade lithium hydrate monohydrate (LHM) using electrolysis.

Vulcan's system

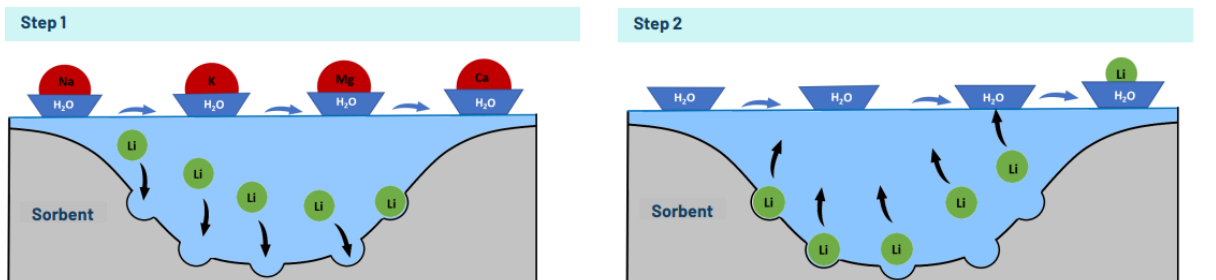


Source: Company data

Technology:

In Vulcan's project areas, a staged development will implement a process, which is known as **Adsorption-type Direct Lithium Extraction (A-DLE)**. This technology bases on proven effective for more than 20 years in industrial lithium carbonate production, while offering a higher lithium yield and very low environmental impact compared to traditional methods such as evaporation or hard-rock mining. A-DLE provides lower operating cost and less waste as this method requires the use of water instead of acid to recover lithium, and naturally heated sub-surface brines do not have to be pre-treated. Also, production times are much shorter. Vulcan's produced lithium can be adapted to meet specific requirements and serve as a precursor product in different forms. Vulcan can extract lithium of high purity relative to hard rock and evaporative lithium, meeting very high product quality standards, particularly in the battery electric vehicle industry.

A-DLE process



- Brine has a high salinity - it contains ions of various sizes and electric charges.
- Water molecules surrounding the ions make up a hydration shell.
- Small lithium ions require a double hydration shell to stabilise their electric charge in the solution.
- In brines with high salinity this is not possible due to the competition for water molecules with the other ions.
- Thus, lithium chloride adsorbs to the surface of the sorbent material.
- During loading, lithium chloride is adsorbed on the sorbent while all the other ions stay in the brine.

- When the loaded sorbent is washed with water, an excess of free water molecules becomes available to the lithium ions.
- Formation of a double hydration shell is an energetically favoured process, which drives the desorption of the lithium chloride from the surface of the sorbent material.
- This process is called elution and the collected wash water that contains the lithium chloride is called the eluate.
- Eluate has a high concentration of lithium chloride and low concentration of impurities, enabling conversion to lithium hydroxide.

Source: Company data

Pre-commercial stage:

Vulcan's first pilot plant has been operating since April 2021, using live geothermal brine from existing wells. To train staff in a pre-commercial environment prior to the start of commercial production for targeted operational readiness in 2026, Vulcan is setting up demonstration plants for the extraction and the electrolysis. In September 2023, Vulcan completed its in-house designed Lithium Extraction Optimisation Plant (LEOP) at the GeoX geothermal plant in Landau. Start of operations occurs in November 2023. The Central Lithium Electrolysis Optimisation Plant (CLEOP) in Frankfurt's Höchst industrial park will be completed in late 2023.

Optimization plants



Source: Company data

Phase One – Commercial stage:

The upstream area for Phase One comprises the Lionheart district, consisting of three licence areas. Vulcan plans to drill additional production and reinjection wells, and to build a new geothermal plant with a planned output of 275GWh of renewable power and 560GWh of heat. For lithium extraction, a large LEP is planned with a total targeted capacity of 24,000 t per year LHM equivalent. Vulcan is targeting the start of production in H2 2026, followed by a ramp up phase during 2027. According to the BES, OPEX was estimated with c. EUR 4,000 per t LHM. The CAPEX for Phase One is currently estimated with EUR 1.4bn.

Commercial LEP

Phase One commercial: Lithium Extraction Plant (LEP)

- **Building permit submitted in November 2023**, in line with Vulcan's timeline.
- Will be constructed next to new Phase One Geothermal Plant in Landau.
- Total **targeted capacity to be 24,000tpa LHM equivalent in LiCl form.**
- From the LEP, **LiCl solution will be transported** to the CLP at Industrial Park Höchst (Frankfurt).
- **Modular build allows** for further phased development across other phases in Upper Rhine Valley Brine Field (URVBF).



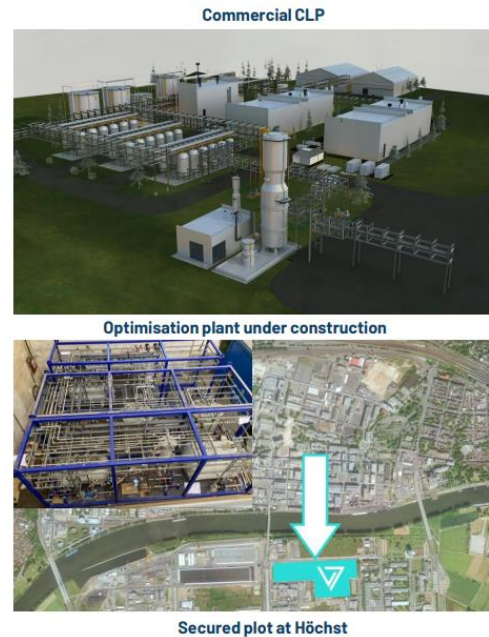
Planned new commercial Phase One Geothermal Plant and Lithium Extraction Plant (LEP) in Landau

Source: Company data

Commercial CLP

NEW CENTRAL LITHIUM PLANT (CLP)

- CLP planned to be located in Frankfurt (Höchst Industrial Park). Close to 100,000sqm secured.
- Targeted 24,000tpa LHM capacity with space for further modular expansion.**
- Conversion of LiCl to battery grade LHM using electrolysis. By-products HCl and Sodium Hypochlorite. Significant synergies with existing chlor-alkali producers in the same chemical park, e. g. Nobian.
- Höchst is one of Europe's largest industrial estates and is home to around 90 chemical and pharmaceutical companies.
- Targeting late 2025 for commercial start of operations.
- Optimisation plant under construction, planned to start operation in H2, training staff in pre-commercial operational setting, will send significant volume of product to offtakers for pre-qualifications. Intended to ensure **commercial operational readiness**.



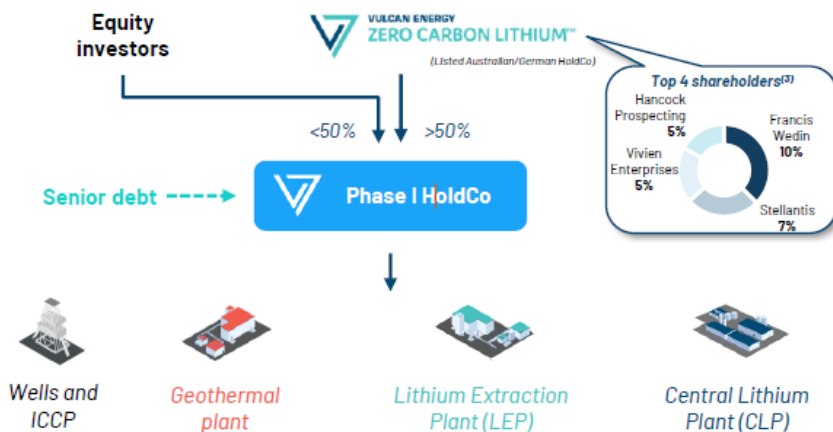
Source: Company data

Financing:

Vulcan has released its bridging engineering study (BES), which focuses on Vulcan's Lionheart area. The BES provides favorable project economics while also further de-risking potential. Completing the bridging study marks the kick-off for financing of phase 1. Overall, Vulcan is targeting a debt-to-equity ratio of 65:35 for the overall funding of Phase 1. The company intends to raise the needed funds via debt and equity financing, while also applying for public funding. The equity investments are planned on project level. By doing that, Vulcan sees opportunities to bring investors aboard while minimizing dilution.

Meanwhile, Vulcan has received a conditional, non-binding Letter of Support from Export Finance Australia (EFA) for up to AUD 200 million (~EUR 120 million) for the upcoming financing of Phase One. Additionally, Vulcan has already secured substantial in-principle government-backed ECA support, subject to customary conditions, from Bpifrance Assurance Export, the French ECA, SACE, the Italian ECA, and EDC, the Canadian ECA. The Phase One financing process start is also timed to coincide with public funding applications in Germany.

Contemplated financing structure



Source: Company data

Valuation

DCF Model

By using a 25% risk weighting on Equity value, the DCF model results in a **fair value of EUR 10.18 per share**. Vulcan is retaining 25.85% of Kuniko. Since it is highly volatile, we do not explicitly include the stake in Kuniko into our valuation model.

In our base case scenario, revenues are based on an average sales price at USD 22.5 thousand/ton of lithium hydroxide.

WACC. The averaged 1-, 3- and 5-year historical equity beta is calculated as 1.39. Unlevering and correcting for mean reversion yields an asset beta of 1.14. Combined with a risk-free rate of 3.0% and an equity risk premium of 6.0% this yields cost of equity of 13.2%. With pre-tax cost of borrowing at 7.0%, a tax rate of 25.0% and target debt/equity of 0.6 this results in a long-term WACC of 10.1%.

DCF (EURm) (except per share data and beta)	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E	Terminal value
NOPAT	-32.3	-83.3	-115.4	59.2	288.8	379.3	389.5	402.3	
Depreciation & amortization	4.6	14.9	39.4	71.8	74.9	74.9	74.9	74.9	
Change in working capital	-5.7	-8.9	0.8	-43.5	-46.6	-31.4	-50.0	0.0	
Chg. in long-term provisions	-3.2	507.5	0.0	0.9	1.4	0.5	0.0	0.0	
Capex	-150.1	-750.1	-650.1	-142.0	-74.8	-75.9	-75.9	-75.9	
Cash flow	-186.6	-319.9	-725.3	-53.6	243.6	347.5	338.5	401.3	5,068.4
Present value	-189.2	-294.3	-605.0	-40.6	167.0	216.4	191.6	207.9	2,625.4
WACC	10.0%	10.3%	10.3%	10.3%	10.3%	10.3%	10.2%	10.1%	10.1%

DCF per share derived from	
Total present value	2,279.2
Mid-year adj. total present value	2,392.6
Net debt / cash at start of year	-172.4
Financial assets	2.9
Provisions and off b/s debt	na
Equity value	2,567.9
No. of shares outstanding	193.5
Discounted cash flow / share	10.18
upside/(downside)	622.4%

DCF avg. growth and earnings assumptions	
Planning horizon avg. revenue growth (2023E-2030E)	n.m.%
Terminal value growth (2030E - infinity)	2.0%
Terminal year ROCE	20.5%
Terminal year WACC	10.1%

Terminal WACC derived from	
Cost of borrowing (before taxes)	7.0%
Long-term tax rate	25.0%
Equity beta	1.39
Unlevered beta (industry or company)	1.14
Target debt / equity	0.6
Relevered beta	1.70
Risk-free rate	3.0%
Equity risk premium	6.0%
Cost of equity	13.2%

Share price	1.41
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Sensitivity analysis DCF								
		Long term growth					Share of present value	
		1.0%	1.5%	2.0%	2.5%	3.0%		
Change in WACC (%-points)	2.0%	6.2	6.5	6.9	7.4	7.9	2023E-2026E	-49.5%
	1.0%	7.4	7.9	8.4	8.9	9.6	2027E-2030E	34.3%
	0.0%	8.9	9.5	10.2	10.9	11.8	terminal value	115.2%
	-1.0%	10.8	11.6	12.5	13.6	14.8		
	-2.0%	13.3	14.4	15.7	17.2	19.0		

Source: AlsterResearch

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 EUR -2.99 per share based on 2023E and 21.44 EUR per share on 2027E 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 EURm	2023E	2024E	2025E	2026E	2027E
EBITDA	-38.4	-41.1	-46.1	146.8	361.1
- Maintenance capex	4.5	14.8	39.2	71.6	74.7
- Minorities	0.0	41.3	51.3	-2.9	-74.1
- tax expenses	-12.1	-30.6	-38.0	2.1	54.9
= Adjusted FCF	-30.8	-66.6	-98.7	75.9	305.6
Actual Market Cap	237.2	237.2	237.2	237.2	237.2
+ Net debt (cash)	-6.3	257.2	916.1	997.5	877.9
+ Pension provisions	0.0	0.0	0.0	0.0	0.0
+ Off b/s financing	0.0	0.0	0.0	0.0	0.0
- Financial assets	6.0	6.0	6.0	6.0	6.0
- Acc. dividend payments	0.0	0.0	0.0	0.0	0.0
<i>EV Reconciliations</i>	-12.3	251.1	910.1	991.5	871.9
= Actual EV'	224.9	488.3	1,147.2	1,228.6	1,109.0
Adjusted FCF yield	-13.7%	-13.6%	-8.6%	6.2%	27.6%
base hurdle rate	7.0%	7.0%	7.0%	7.0%	7.0%
ESG adjustment	1.0%	1.0%	1.0%	1.0%	1.0%
adjusted hurdle rate	6.0%	6.0%	6.0%	6.0%	6.0%
Fair EV	-513.6	-1,110.0	-1,644.7	1,265.3	5,092.8
- <i>EV Reconciliations</i>	-12.3	251.1	910.1	991.5	871.9
Fair Market Cap	-501.3	-1,361.1	-2,554.8	273.9	4,221.0
No. of shares (million)	167.5	180.5	193.5	196.9	196.9
Fair value per share in EUR	-2.99	-7.54	-13.20	1.39	21.44
Premium (-) / discount (+)	-312.4%	-635.1%	-1,036.9%	-1.3%	1,421.8%

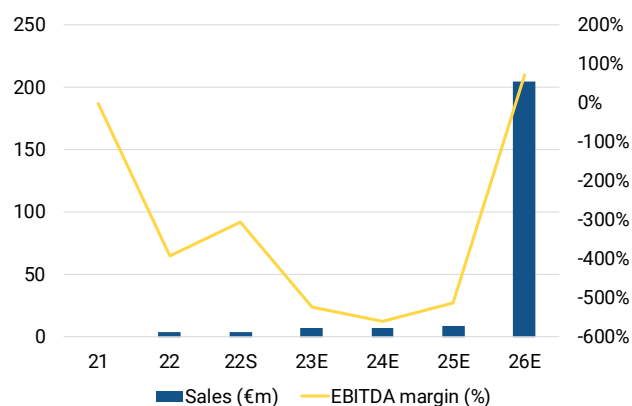
Sensitivity analysis fair value						
Adjusted hurdle rate	4.0%	-4.5	-10.6	-17.5	4.6	34.4
	5.0%	-3.6	-8.8	-14.9	2.7	26.6
	6.0%	-3.0	-7.5	-13.2	1.4	21.4
	7.0%	-2.6	-6.7	-12.0	0.5	17.7
	8.0%	-2.2	-6.0	-11.1	-0.2	15.0

Source: Company data; AlsterResearch

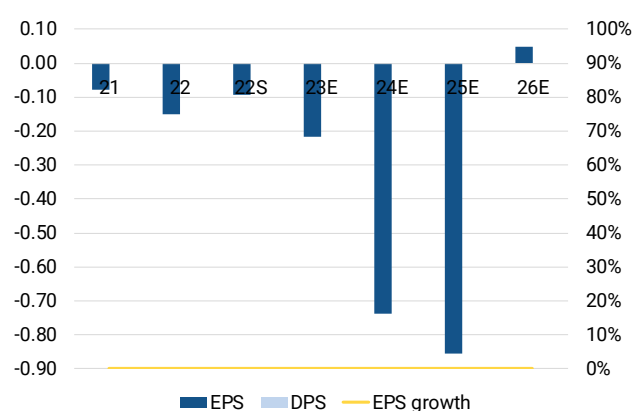
Simply put, the model assumes that investors require companies to generate a minimum return on the investor's purchase price. The required after-tax return equals the model's hurdle rate of 7.0%. Anything less suggests the stock is expensive; anything more suggests the stock is cheap. **ESG adjustments 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

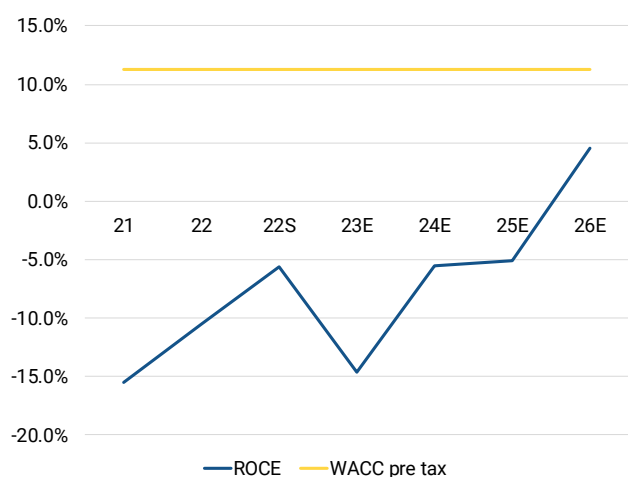
Sales vs. EBITDA margin development



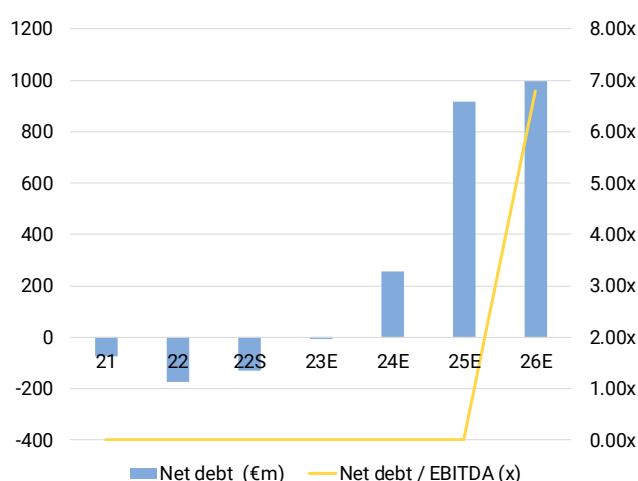
EPS, DPS in EUR & yoy EPS growth



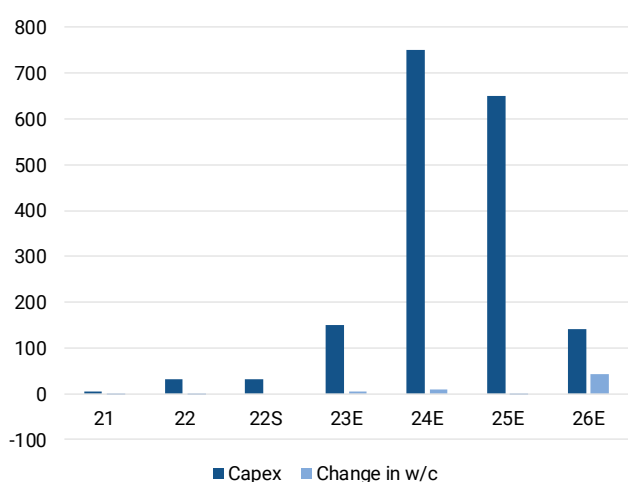
ROCE vs. WACC (pre tax)



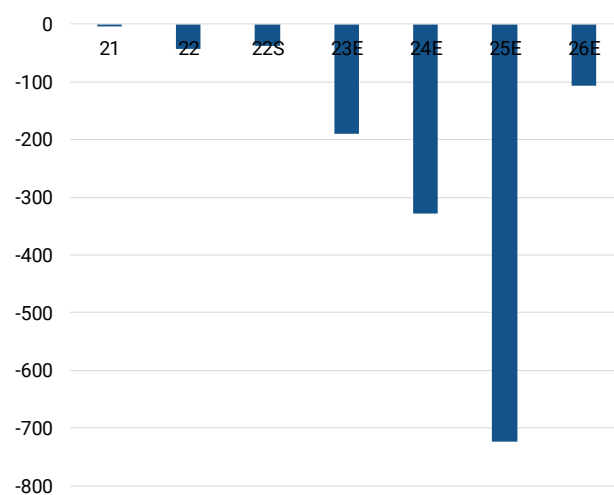
Net debt and net debt/EBITDA



Capex & chgn in w/c requirements in EURm



Free Cash Flow in EURm



Source: Company data; AlsterResearch

Financials

Profit and loss (EURm)	2022	2022S	2023E	2024E	2025E	2026E
Sales	3.8	3.6	7.3	7.3	9.0	204.9
Sales growth	na%	-4.7%	102.8%	0.0%	22.5%	2,176.7%
Cost of sales	-1.2	-0.4	6.0	6.0	40.0	64.6
Gross profit	5.0	4.0	1.3	1.3	-31.0	140.3
SG&A expenses	21.2	14.1	38.5	50.0	50.0	55.0
Research and development	0.0	0.0	0.0	0.0	0.0	0.0
Other operating expenses (income)	-1.3	1.5	5.9	7.3	4.5	10.2
EBITDA	-14.9	-11.0	-38.4	-41.1	-46.1	146.8
Depreciation	2.1	2.3	4.5	14.8	39.2	71.6
EBITA	-17.1	-13.3	-42.9	-55.9	-85.4	75.2
Amortisation of goodwill and intangible assets	0.5	0.6	0.1	0.1	0.1	0.1
EBIT	-17.5	-13.9	-43.0	-56.0	-85.5	75.1
Financial result	-0.8	0.3	-5.3	-66.5	-66.5	-66.5
Recurring pretax income from continuing operations	-18.3	-13.6	-48.3	-122.5	-152.0	8.6
Extraordinary income/loss	0.0	0.0	0.0	0.0	0.0	0.0
Earnings before taxes	-18.3	-13.6	-48.3	-122.5	-152.0	8.6
Taxes	0.4	-0.1	-12.1	-30.6	-38.0	2.1
Net income from continuing operations	-18.7	-13.4	-36.2	-91.9	-114.0	6.4
Result from discontinued operations (net of tax)	0.0	0.0	0.0	0.0	0.0	0.0
Net income	-18.7	-13.4	-36.2	-91.9	-114.0	6.4
Minority interest	0.0	0.0	0.0	-41.3	-51.3	2.9
Net profit (reported)	-18.7	-13.4	-36.2	-133.2	-165.3	9.3
Average number of shares	124.67	143.33	167.52	180.52	193.52	196.86
EPS reported	-0.15	-0.09	-0.22	-0.74	-0.85	0.05

Profit and loss (common size)	2022	2022S	2023E	2024E	2025E	2026E
Sales	100%	100%	100%	100%	100%	100%
Cost of sales	-31%	-10%	82%	82%	444%	32%
Gross profit	131%	110%	18%	18%	-344%	68%
SG&A expenses	558%	389%	524%	681%	556%	27%
Research and development	0%	0%	0%	0%	0%	0%
Other operating expenses (income)	-34%	41%	80%	100%	50%	5%
EBITDA	-392%	-304%	-523%	-560%	-513%	72%
Depreciation	57%	63%	61%	201%	436%	35%
EBITA	-449%	-368%	-584%	-761%	-949%	37%
Amortisation of goodwill and intangible assets	13%	16%	2%	2%	1%	0%
EBIT	-461%	-383%	-586%	-762%	-950%	37%
Financial result	-20%	9%	-71%	-905%	-739%	-32%
Recurring pretax income from continuing operations	-481%	-374%	-657%	-1,667%	-1,689%	4%
Extraordinary income/loss	0%	0%	0%	0%	0%	0%
Earnings before taxes	-481%	-374%	-657%	-1,667%	-1,689%	4%
Taxes	10%	-3%	-164%	-417%	-422%	1%
Net income from continuing operations	-491%	-371%	-493%	-1,251%	-1,267%	3%
Result from discontinued operations (net of tax)	0%	0%	0%	0%	0%	0%
Net income	-491%	-371%	-493%	-1,251%	-1,267%	3%
Minority interest	0%	0%	0%	-563%	-570%	1%
Net profit (reported)	-491%	-371%	-493%	-1,813%	-1,837%	5%

Source: Company data; AlsterResearch

Balance sheet (EURm)	2022	2022S	2023E	2024E	2025E	2026E
Intangible assets (exl. Goodwill)	3.6	3.1	3.0	2.9	2.9	4.9
Goodwill	0.0	0.0	0.0	0.0	0.0	0.0
Property, plant and equipment	74.9	100.4	245.9	981.2	1,591.9	1,660.3
Financial assets	2.9	6.0	6.0	6.0	6.0	6.0
FIXED ASSETS	81.5	109.5	254.9	990.1	1,600.9	1,671.2
Inventories	0.1	0.2	0.1	8.0	16.0	30.0
Accounts receivable	4.1	6.3	6.0	6.0	4.9	42.1
Other current assets	0.0	0.0	0.0	0.0	0.0	0.0
Liquid assets	175.4	134.1	81.3	692.8	33.9	-47.5
Deferred taxes	0.0	0.0	0.0	0.0	0.0	0.0
Deferred charges and prepaid expenses	0.0	0.0	0.0	0.0	0.0	0.0
CURRENT ASSETS	179.7	140.6	87.4	706.9	54.9	24.7
TOTAL ASSETS	261.1	250.1	342.4	1,697.1	1,655.8	1,695.8
SHAREHOLDERS EQUITY	247.3	233.2	263.0	236.1	187.1	218.5
MINORITY INTEREST	0.0	0.0	0.0	507.5	507.5	507.5
Long-term debt	2.6	2.7	75.0	950.0	950.0	950.0
Provisions for pensions and similar obligations	0.0	0.1	0.0	0.0	0.0	0.0
Other provisions	1.5	3.2	0.1	0.1	0.1	1.0
Non-current liabilities	4.1	5.9	75.1	950.1	950.1	951.0
short-term liabilities to banks	0.4	0.6	0.0	0.0	0.0	0.0
Accounts payable	6.2	9.4	2.8	3.3	11.0	17.7
Advance payments received on orders	0.0	0.0	0.0	0.0	0.0	0.0
Other liabilities (incl. from lease and rental contracts)	0.8	0.8	1.5	0.0	0.0	1.0
Deferred taxes	1.5	0.1	0.1	0.1	0.1	0.1
Deferred income	0.8	0.1	0.0	0.0	0.0	0.0
Current liabilities	9.7	11.0	4.4	3.4	11.1	18.8
TOTAL LIABILITIES AND SHAREHOLDERS EQUITY	261.1	250.1	342.4	1,697.1	1,655.8	1,695.8

Balance sheet (common size)	2022	2022S	2023E	2024E	2025E	2026E
Intangible assets (excl. Goodwill)	1%	1%	1%	0%	0%	0%
Goodwill	0%	0%	0%	0%	0%	0%
Property, plant and equipment	29%	40%	72%	58%	96%	98%
Financial assets	1%	2%	2%	0%	0%	0%
FIXED ASSETS	31%	44%	74%	58%	97%	99%
Inventories	0%	0%	0%	0%	1%	2%
Accounts receivable	2%	3%	2%	0%	0%	2%
Other current assets	0%	0%	0%	0%	0%	0%
Liquid assets	67%	54%	24%	41%	2%	-3%
Deferred taxes	0%	0%	0%	0%	0%	0%
Deferred charges and prepaid expenses	0%	0%	0%	0%	0%	0%
CURRENT ASSETS	69%	56%	26%	42%	3%	1%
TOTAL ASSETS	100%	100%	100%	100%	100%	100%
SHAREHOLDERS EQUITY	95%	93%	77%	14%	11%	13%
MINORITY INTEREST	0%	0%	0%	30%	31%	30%
Long-term debt	1%	1%	22%	56%	57%	56%
Provisions for pensions and similar obligations	0%	0%	0%	0%	0%	0%
Other provisions	1%	1%	0%	0%	0%	0%
Non-current liabilities	2%	2%	22%	56%	57%	56%
short-term liabilities to banks	0%	0%	0%	0%	0%	0%
Accounts payable	2%	4%	1%	0%	1%	1%
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	1%	0%	0%	0%	0%	0%
Deferred income	0%	0%	0%	0%	0%	0%
Current liabilities	4%	4%	1%	0%	1%	1%
TOTAL LIABILITIES AND SHAREHOLDERS EQUITY	100%	100%	100%	100%	100%	100%

Source: Company data; AlsterResearch

Cash flow statement (EURm)	2022	2022S	2023E	2024E	2025E	2026E
Net profit/loss	0.0	0.0	-36.2	-91.9	-114.0	6.4
Depreciation of fixed assets (incl. leases)	0.0	0.0	4.5	14.8	39.2	71.6
Amortisation of goodwill	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of intangible assets	0.0	0.0	0.1	0.1	0.1	0.1
Others	-11.3	-7.4	-3.2	507.5	0.0	0.9
Cash flow from operations before changes in w/c	-11.3	-7.4	-34.8	430.5	-74.6	79.1
Increase/decrease in inventory	0.0	0.0	0.1	-7.9	-8.0	-14.0
Increase/decrease in accounts receivable	0.0	0.0	0.3	0.0	1.1	-37.2
Increase/decrease in accounts payable	0.0	0.0	-6.6	0.5	7.7	6.7
Increase/decrease in other w/c positions	0.5	0.0	0.6	-1.4	0.0	1.0
Increase/decrease in working capital	0.5	0.0	-5.7	-8.9	0.8	-43.5
Cash flow from operating activities	-11.3	-7.4	-40.4	421.6	-73.8	35.7
CAPEX	-32.2	-30.5	-150.1	-750.1	-650.1	-142.0
Payments for acquisitions	-32.7	0.0	0.0	0.0	0.0	0.0
Financial investments	-0.7	-1.2	0.0	0.0	0.0	0.0
Income from asset disposals	0.0	0.0	0.0	0.0	0.0	0.0
Cash flow from investing activities	-65.6	-31.8	-150.1	-750.1	-650.1	-142.0
Cash flow before financing	-76.9	-39.2	-190.5	-328.4	-723.9	-106.4
Increase/decrease in debt position	-0.2	-0.5	71.7	875.0	0.0	0.0
Purchase of own shares	0.0	0.0	0.0	0.0	0.0	0.0
Capital measures	176.2	0.0	66.0	65.0	65.0	25.0
Dividends paid	0.0	0.0	0.0	0.0	0.0	0.0
Others	-4.0	0.0	0.0	0.0	0.0	0.0
Effects of exchange rate changes on cash	6.6	-1.7	0.0	0.0	0.0	0.0
Cash flow from financing activities	178.6	-2.1	137.7	940.0	65.0	25.0
Increase/decrease in liquid assets	101.7	-41.3	-52.8	611.6	-658.9	-81.4
Liquid assets at end of period	175.4	134.1	81.3	692.8	33.9	-47.5

Source: Company data; AlsterResearch

Regional sales split (EURm)	2022	2022S	2023E	2024E	2025E	2026E
Domestic	3.8	3.6	7.3	7.3	9.0	204.9
Europe (ex domestic)	0.0	0.0	0.0	0.0	0.0	0.0
The Americas	0.0	0.0	0.0	0.0	0.0	0.0
Asia	0.0	0.0	0.0	0.0	0.0	0.0
Rest of World	0.0	0.0	0.0	0.0	0.0	0.0
Total sales	3.8	3.6	7.3	7.3	9.0	204.9

Regional sales split (common size)	2022	2022S	2023E	2024E	2025E	2026E
Domestic	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Europe (ex domestic)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
The Americas	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Asia	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Rest of World	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total sales	100%	100%	100%	100%	100%	100%

Source: Company data; AlsterResearch

Ratios	2022	2022S	2023E	2024E	2025E	2026E
Per share data						
Earnings per share reported	-0.15	-0.09	-0.22	-0.74	-0.85	0.05
Cash flow per share	-0.09	-0.05	-0.27	2.25	-0.58	-0.18
Book value per share	1.98	1.63	1.57	1.31	0.97	1.11
Dividend per share	0.00	0.00	0.00	0.00	0.00	0.00
Valuation						
P/E	-9.4x	-15.0x	-6.5x	-1.9x	-1.6x	29.8x
P/CF	-15.5x	-27.2x	-5.3x	0.6x	-2.4x	-7.7x
P/BV	0.7x	0.9x	0.9x	1.1x	1.5x	1.3x
Dividend yield (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
FCF yield (%)	-6.5%	-3.7%	-19.0%	160.0%	-41.5%	-13.0%
EV/Sales	16.7x	29.1x	31.3x	67.1x	128.0x	6.0x
EV/EBITDA	-4.3x	-9.6x	-6.0x	-12.0x	-25.0x	8.4x
EV/EBIT	-3.6x	-7.6x	-5.3x	-8.8x	-13.5x	16.4x
Income statement (EURm)						
Sales	3.8	3.6	7.3	7.3	9.0	204.9
yoy chg in %	Infinity%	-4.7%	102.8%	0.0%	22.5%	2,176.7%
Gross profit	5.0	4.0	1.3	1.3	-31.0	140.3
Gross margin in %	131.2%	110.2%	18.3%	18.3%	-344.4%	68.5%
EBITDA	-14.9	-11.0	-38.4	-41.1	-46.1	146.8
EBITDA margin in %	-392.3%	-304.3%	-522.6%	-559.8%	-512.6%	71.6%
EBIT	-17.5	-13.9	-43.0	-56.0	-85.5	75.1
EBIT margin in %	-461.5%	-383.4%	-585.7%	-762.3%	-950.0%	36.6%
Net profit	-18.7	-13.4	-36.2	-133.2	-165.3	9.3
Cash flow statement (EURm)						
CF from operations	-11.3	-7.4	-40.4	421.6	-73.8	35.7
Capex	-32.2	-30.5	-150.1	-750.1	-650.1	-142.0
Maintenance Capex	0.0	0.0	4.5	14.8	39.2	71.6
Free cash flow	-43.5	-37.9	-190.5	-328.4	-723.9	-106.4
Balance sheet (EURm)						
Intangible assets	3.6	3.1	3.0	2.9	2.9	4.9
Tangible assets	74.9	100.4	245.9	981.2	1,591.9	1,660.3
Shareholders' equity	247.3	233.2	263.0	236.1	187.1	218.5
Pension provisions	0.0	0.1	0.0	0.0	0.0	0.0
Liabilities and provisions	4.5	6.6	75.1	950.1	950.1	951.0
Net financial debt	-172.4	-130.8	-6.3	257.2	916.1	997.5
w/c requirements	-1.9	-2.9	3.3	10.8	10.0	54.4
Ratios						
ROE	-7.5%	-5.8%	-13.8%	-38.9%	-60.9%	2.9%
ROCE	-7.0%	-5.8%	-12.7%	-3.3%	-5.2%	4.5%
Net gearing	-69.7%	-56.1%	-2.4%	108.9%	489.7%	456.5%
Net debt / EBITDA	11.6x	11.9x	0.2x	-6.3x	-19.9x	6.8x

Source: Company data; AlsterResearch

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Company	Disclosure
Vulcan Energy Resources Ltd	2

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- In such markets a shareholder cannot expect to find a buyer for his shares at all and/or at reasonable prices. In such narrow markets there is a very high possibility of manipulating prices and in such markets there are often considerable price fluctuations.
- An investment in shares with low liquidity and low market capitalization is therefore highly speculative and represents a very high risk.
- There is no regulated market for unlisted shares and securities and a sale is not possible or only possible on an individual basis.

7. Major Sources of Information Part of the information required for this research report was made available by the issuer of the financial instrument. Furthermore, this report is based on publicly available sources (such as, for example, Bloomberg, Reuters, VWD-Trader and the relevant daily press) believed to be reliable. SRH AlsterResearch AG has checked the information for plausibility but not for accuracy or completeness.

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10. Miscellaneous According to Article 4(1) No. i of the delegated regulation 2016/958 supplementing regulation 596/2014 of the European Parliament, further information regarding investment recommendations of the last 12 months are published free of charge under <https://www.alsterresearch.com>.

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