

Canaccord Genuity

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Lowering Target Price

Vulcan Energy Resources Limited **EV Materials**

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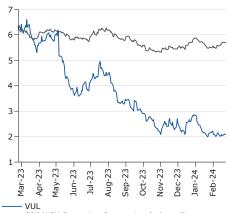
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Rating SPECULATIVE BUY unchanged Price Target A\$12.25↓ from A\$12.50 Price A\$2.77

Market Data

52-Week Range (A\$) :	1.95 - 6.60
Avg Daily Vol (M) :	0.2
Market Cap (A\$M):	354.8
Shares Out. (M) :	167.3
Enterprise Value (A\$M) :	234.2
NAV /Shr (A\$):	12.25
Net Cash (A\$M):	147.6

FYE Jun	2023E	2024E	2025E	2026E
EBITDA (A\$M)	(27.2)↑	(29.9)↑	(30.0)	(30.0)
Previous	(30.3)	(30.0)	-	-
Net Income (A\$M)	(30.3)↑	(34.2)↑	(40.8)↓	(67.9)↓
Previous	(31.6)	(34.4)	(32.8)	(54.2)
Free Cash Flow (A\$M)	(118.5)	(153.2)	(406.1)	(153.2)



——— S&P/ASX Emerging Companies (rebased)

Source: FactSet

Priced as of close of business 23 February 2024

Vulcan is a European lithium development company progressing the Zero Carbon Lithium project in Germany. The development envisages a 48ktpa lithium hydroxide operation using DLE from geothermal wells which will also generate carbon free power. The process is expected to be carbon negative based life cycle analysis and if achieved, Vulcan would fundamentally change the carbon emission structure of the lithium industry.

Research

Securing cash to deliver on timeline
Vulcan derisks the funding stack with Nobian JV
Site visit

Not unconventional... Untapped - Initiation

EU chips in for 1/3rd of the funding stack

Vulcan has announced that it has passed the European Investment Bank's (EIB) preliminary screening process for debt financing and has now advanced to the 'under appraisal' stage. The **EIB has proposed a financing commitment to VUL of €500m** to help fund its Zero Carbon Lithium Project (ZCLP) in Germany. The project hosts the largest lithium resource in Europe and holds strategic value for the EU's domestic battery supply chain ambitions. While the package is subject to due diligence, credit approvals and legal agreements, we see it as a great endorsement and huge step forward for the project.

Who is the EIB?

The EIB is the lending arm of the EU and one of the largest climate finance providers in the world. With its ambitions to reduce net greenhouse gas emissions by 55% by 2030 (and no net emissions by 2050), the EU is looking to provide support for projects that help it advance towards a sustainable and resilient domestic supply chain, with the EIB assisting in that process. The EIB has stipulated that the ZCLP is capable of providing a number of services/products that will help the EU achieve its emission goals, which ultimately qualifies it for debt finance. This includes the electricity and heat produced by its geothermal plant as well as the battery grade LiOH that will be produced from its Central Lithium Plant (CLP). We believe this is the largest funding package from an EU public company for an Australian company and sends a clear message to other potential financiers that the EU is fully behind the project.

Funding stack indicatively over the halfway mark

The €500m of debt funding announced today accompanies an existing A\$200m (\sim €120m) of debt funding indication from Export Finance Australia (see note) and provides \sim 50% of the €1,399m funding requirement for the ZCLP, on an indicative basis. If Nobian elects to form a JV with VUL for the Central Lithium Plant (50% capital contribution of €179m see note), and with the German Government signaling that it may contribute 40% of geothermal costs (CGe €272m), it leaves a €328m funding gap before any sell-down of the project (excl. €78.6m in cash). The company continues to sound out strategic investors for equity funding, targeting indicative offers in the first half of 2024. If VUL is able to achieve a sell-down, with capital commitment, we believe a manageable funding gap could be delivered.

Project delivery continues: Drilling, first lithium and partnerships in 2024

VUL is set for an eventful 2024, in our view, with first lithium production from its optimisation plants, first drilling of production wells and financing progress. The Landau City Council recently executed an agreement which will allow Vulcan to begin construction of the Phase 1 Lithium Extraction Plant. Vulcan also recently completed its Environmental and Social Impact Assessment which is an important requirement for accessing finance and its social license to operate. With €78.6m in cash and declining spend, as optimisation plants are delivered, we believe VUL is well resourced to maintain its project delivery timeline. We have updated our model for cash spend, resulting in a slight reduction in PT to A\$12.25 (from A\$12.50/sh). We continue to risk our valuation given VUL's early project stage.



Figure 1: Financial summary for Vulcan Energy

nalyst : Oate: Year End:	ASX:VUL Timothy Hoff 23/02/2024							Targ	Rating: let Price:	SI	PEC E A\$1
ear End: Market Information	June					Company Description					
hare Price	A\$	2.12				Vulcan Energy Resources is developi	na the Zero	Carbon Lithi	ium proiect	in the Uppe	r Rhir
flarket Capitalisation 2 Month Hi	A\$m A\$	355 6.60				Valley, Germany. The proposed proje hydroxide and 37MW of geothermal p	ct (Phase 1) will deliver	24ktpa of ba		
2 Month Lo sued Capital	A\$ m	1.95 167				Profit & Loss (€m)	2021a	2022a	2023e	2024e	2
M Options	m	16				Revenue	0.4	4.3	7.7	8.2	
ully Diluted	m	183				Operating Costs	0.0	2.5	6.3	2.3	
rading Volume - 90 Day Average	m	0.2				Royalty	0.0	0.0	0.0	0.0	
, ,						Corporate & O'heads	2.9	17.1	23.3	12.0	
aluation			A\$m	Risking	A\$/share	Exploration (Expensed)	0.0	0.0	9.7	23.9	
hase 1			1,019.1	50%	5.56	EBITDA	-6.6	-15.9	-27.2	-29.9	
SPV1 - Energy Business	NP\	V 10 _%	134.4	50%	0.73	Dep'n	0.1	2.6	5.6	5.4	
SVP1 - LEP		V 10 _%	703.4	50%	3.84	Net Interest	0.0	0.0	2.1	1.1	
SPV2 - CLP		√ 10 _%	181.3	50%	0.99	Other	0.0	0.0	1.0	2.0	
PV2 - Funding from Nobian	141	V 10%	265.0	100%	1.45	Tax	0.0	-0.4	0.4	0.0	
hase 2			975.0	50%	5.32	NPAT (reported)	-6.6	-13.6	-18.1	-21.5	
Energy Business	NP	V 10%	115.5	50%	0.63	Abnormals	0.0	0.0	0.0	0.0	
LEP		V 10∞	565.0	50%	3.08	NPAT	-6.7	-18.9	-30.3	-34.2	
CLP		V 10 _%	294.6	50%	1.61						
xploration/Partnerships			50.0	100%	0.27	EPS	-\$0.05	-\$0.15	-\$0.19	-\$0.18	-
orporate			(81.8)	100%	(0.45)						
et cash /(Debt)			31.9	100%	0.17	Cash Flow (€m)	2021a	2022a	2023e	2024e	2
DTAL			2,259.3		12.33	Cash Receipts	0.0	3.8	8.0	8.2	
			Target		12.25	Cash paid to suppliers & employees	-2.2	-15.4	-37.6	-14.3	
	2024 -	2022-	2022-	2024-	2025e	Exploration and Evaluation	-3.7	-9.4	-18.6	-23.9	
sumptions hium Hydroxide (US\$/t)	2021a 10,764	2022a 42,141	2023e 72,694	2024e 32,880	33,750	Tax Paid	0.0 0.1	0.0 -0.1	-0.5 3.1	0.0 1.1	
mum Hydroxide (US\$/t) wer (€kwh)	0.24	0.32	0.27	0.24	0.24	Net interest expense +/- Other - working cap change	0.1	0.3	2.2	2.7	
JR:AUD	1.58	1.58	1.58	1.58	1.58	Operating Cash Flow	-1.8	-11.3	-24.8	-2.7 -2.3	
JR:USD	1.07	1.07	1.07	1.07	1.07	Capex	-0.8	-22.8	- 24.6 -75.4	-127.0	-
5K.00B	1.07	1.07	1.07	1.07	1.07	Other	0.0	-32.2	0.3	0.0	
ensitivity						Investing Cash Flow	-4.5	-64.4	-93.7	-150.9	-
•						Investing Cash Flow Debt Drawdown (repayment)	-4.5 2.8	-64.4 0.2	-93.7 -0.6	-150.9 0.0	
ensitivity \$20											-3
•						Debt Drawdown (repayment)	2.8	0.2	-0.6	0.0	
•				_		Debt Drawdown (repayment) Share capital	2.8 75.1	0.2 176.2	-0.6 67.4	0.0 303.2	
\$20				_		Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash	2.8 75.1 -3.8 74.0 5.3	0.2 176.2 -4.4 172.1 72.4	-0.6 67.4 -3.4 63.4 175.4	0.0 303.2 -9.1 294.1 119.9	
\$20				_		Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash Increase / (Decrease) in cash	2.8 75.1 -3.8 74.0 5.3 67.8	0.2 176.2 -4.4 172.1 72.4 96.3	-0.6 67.4 -3.4 63.4 175.4 -55.1	0.0 303.2 -9.1 294.1 119.9 140.9	
\$20				•		Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash	2.8 75.1 -3.8 74.0 5.3	0.2 176.2 -4.4 172.1 72.4	-0.6 67.4 -3.4 63.4 175.4	0.0 303.2 -9.1 294.1 119.9	
						Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash Increase / (Decrease) in cash FX Impact Closing Cash	2.8 75.1 -3.8 74.0 5.3 67.8 0.7 72.5	0.2 176.2 -4.4 172.1 72.4 96.3 6.6 175.4	-0.6 67.4 -3.4 63.4 175.4 -55.1 -0.3	0.0 303.2 -9.1 294.1 119.9 140.9 0.0	
\$20				•		Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash Increase / (Decrease) in cash FX Impact	2.8 75.1 -3.8 74.0 5.3 67.8 0.7	0.2 176.2 -4.4 172.1 72.4 96.3 6.6	-0.6 67.4 -3.4 63.4 175.4 -55.1 -0.3 119.9	0.0 303.2 -9.1 294.1 119.9 140.9 0.0 260.9	-
•				<u> </u>		Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash Increase / (Decrease) in cash FX Impact Closing Cash Op. CashflowShare	2.8 75.1 -3.8 74.0 5.3 67.8 0.7 72.5	0.2 176.2 -4.4 172.1 72.4 96.3 6.6 175.4	-0.6 67.4 -3.4 63.4 175.4 -55.1 -0.3 119.9	0.0 303.2 -9.1 294.1 119.9 140.9 0.0 260.9	-
\$20				_		Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash Increase / (Decrease) in cash FX Impact Closing Cash Op. Cashflow/Share P/CF	2.8 75.1 -3.8 74.0 5.3 67.8 0.7 72.5 -\$0.01 -96.8x	0.2 176.2 -4.4 172.1 72.4 96.3 6.6 175.4 -\$0.08 -17.2x	-0.6 67.4 -3.4 63.4 175.4 -55.1 -0.3 119.9 -\$0.15 -9.0x	0.0 303.2 -9.1 294.1 119.9 0.0 260.9 -\$0.01 -126.7x	-
\$20 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15						Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash Increase / (Decrease) in cash FX Impact Closing Cash Op. Cashflow/Share P/CF EV/FCF FCF Yield Balance Sheet (€m)	2.8 75.1 -3.8 74.0 5.3 67.8 0.7 72.5 -\$0.01 -96.8x nm nm	0.2 176.2 -4.4 172.1 72.4 96.3 6.6 175.4 -\$0.08 -17.2x nm nm	-0.6 67.4 -3.4 63.4 175.4 -55.1 -0.3 119.9 -\$0.15 -9.0x nm nm	0.0 303.2 -9.1 294.1 119.9 140.9 0.0 260.9 -\$0.01 -126.7x nm nm	-
\$20	-10% 0%	10%	20%	30%		Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash Increase / (Decrease) in cash FX Impact Closing Cash Op. Cashflow/Share P/CF EV/FCF FCF Yield Balance Sheet (€m) Cash + S/Term Deposits	2.8 75.1 -3.8 74.0 5.3 67.8 0.7 72.5 -\$0.01 -96.8x nm nm	0.2 176.2 -4.4 172.1 72.4 96.3 6.6 175.4 -\$0.08 -17.2x nm nm	-0.6 67.4 -3.4 63.4 175.4 -55.1 -0.3 119.9 -\$0.15 -9.0x nm nm	0.0 303.2 -9.1 294.1 119.9 140.9 0.0 260.9 -\$0.01 -126.7x nm nm	2
\$20 90 815 10 85 85 810			20%	30%		Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash Increase / (Decrease) in cash FX Impact Closing Cash Op. Cashflow/Share P/CF EV/FCF FCF Yield Balance Sheet (€m) Cash + S/Term Deposits Other current assets	2.8 75.1 -3.8 74.0 5.3 67.8 0.7 72.5 -\$0.01 -96.8x nm nm	0.2 176.2 -4.4 172.1 72.4 96.3 6.6 175.4 -\$0.08 -17.2x nm 2022a 175.4 4.2	-0.6 67.4 -3.4 175.4 -55.1 -0.3 119.9 -\$0.15 -9.0x nm nm	0.0 303.2 -9.1 294.1 119.9 140.9 0.0 260.9 -\$0.01 -126.7x nm nm	
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\$20 \$315 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5			20% 2023e	30% 2024e	2025e	Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash Increase / (Decrease) in cash FX Impact Closing Cash Op. Cashflow/Share P/CF EV/FCF FCF Yield Balance Sheet (€m) Cash + S/Term Deposits Other current assets Current Assets	2.8 75.1 -3.8 74.0 5.3 67.8 0.7 72.5 -\$0.01 -96.8x nm nm 2021a 72.5 0.8	0.2 176.2 -4.4 172.1 72.4 96.3 6.6 175.4 -\$0.08 -17.2x nm nm	-0.6 67.4 -3.4 175.4 -55.1 -0.3 119.9 -\$0.15 -9.0x nm nm 2023e 119.9 2.8 122.7	0.0 303.2 -9.1 294.1 119.9 140.9 0.0 260.9 -\$0.01 -126.7x nm nm	2
\$20 90 815 10 85 85 810	Lithium Hydroxid	de Price (\$/t)			2025e 0.0	Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash Increase / (Decrease) in cash FX Impact Closing Cash Op. Cashflow/Share P/CF EV/FCF FCF Yield Balance Sheet (€m) Cash + S/Term Deposits Other current assets Current Assets Property, Plant & Equip. Exploration & Develop.	2.8 75.1 -3.8 74.0 5.3 67.8 0.7 72.5 -\$0.01 -96.8x nm nm 2021a 72.5 0.8 73.3 0.9	0.2 176.2 -4.4 172.1 72.4 96.3 6.6 175.4 -\$0.08 -17.2x nm nm 2022a 175.4 4.2 179.7 51.5	-0.6 67.4 -3.4 175.4 -55.1 -0.3 119.9 -\$0.15 -9.0x nm nm 2023e 119.9 2.88 122.7 118.8	0.0 303.2 9.1 294.1 119.9 140.9 0.0 260.9 -\$0.01 -126.7x nm nm 2024e 260.9 2.8 237.8	
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\$20 \$15 \$5 \$5 \$5 \$6 \$10 \$5 \$5 \$6 \$6 \$10 \$6 \$7 \$7 \$8 \$9 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	Lithium Hydroxid 2021a 0.0	de Price (\$/t) 2022a 0.0	2023e 0.0	2024e 0.0	0.0	Debt Drawdown (repayment) Share capital Financing Expenses Financing Cash Flow Opening Cash Increase / (Decrease) in cash FX Impact Closing Cash Op. Cashflow/Share P/CF EV/FCF FCF Yield Balance Sheet (€m) Cash + S/Term Deposits Other current assets Current Assets Property, Plant & Equip. Exploration & Develop. Liabilities Payables Short Term Debt	2.8 75.1 -3.8 74.0 5.3 67.8 0.7 72.5 -\$0.01 -96.8x mm 2021a 72.5 0.8 73.3 0.9 8.7	0.2 176.2 -4.4 172.1 72.4 96.3 6.6 175.4 -\$0.08 -17.2x nm nm 2022a 175.4 4.2 179.7 51.5 20.4	-0.6 67.4 -3.4 175.4 -55.1 -0.3 119.9 -\$0.15 -9.0x nm nm 2023e 119.9 2.8 122.7 118.8 11.5	0.0 303.2 9.11 294.1 119.9 140.9 0.0 260.9 -\$0.01 -126.7x nm nm 2024e 260.9 2.8 263.6 237.8 11.5	-
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Source: Company data, Canaccord Genuity



Figure 2: SOTP valuation for Vulcan Energy Resources

Valuation JunQ'24	A\$m	EQUITY	RISK ADJ.	A\$m	DILUTED/SH
Phase 1	2401	85%	50%	1019	\$5.56
SPV1 - Energy Business	269	100%	50%	134	\$0.73
SVP1 - LEP	1407	100%	50%	703	\$3.84
SPV2 - CLP	725	50%	50%	181	\$0.99
SPV2 - Funding from Nobian	265	100%	100%	265	\$1.45
Phase 2	1950	100%	50%	975	\$5.32
Energy Business	231	100%	50%	115	\$0.63
LEP	1130	100%	50%	565	\$3.08
CLP	589	100%	50%	295	\$1.61
Exploration/Partnerships	50	100%	100%	50	\$0.27
Corporate	-82	100%	100%	-82	-\$0.45
Net cash /(Debt)	32	100%	100%	32	\$0.17
TOTAL	•	•		2259	\$12.33
				Target	A\$12.25

Source: Company Reports, Canaccord Genuity estimates



Appendix: Important Disclosures

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Individuals identified as "Sector Coverage" cover a subject company's industry in the identified jurisdiction, but are not authoring analysts of the report.

Investment Recommendation

Date and time of first dissemination: February 23, 2024, 06:43 ET

Date and time of production: February 23, 2024, 06:43 ET

Target Price / Valuation Methodology:

Vulcan Energy Resources Limited - VUL

Our price target is set in line with our NAV with a 50% risk weighting. We use US\$22,500/t LiOH prices, 1.58 EUR:AUD exchange rates and discount rates of 10% for the lithium business and 10% for the energy business.

Risks to achieving Target Price / Valuation:

Vulcan Energy Resources Limited - VUL

Risks include pricing, delivery, resource size and grades, capex and opex estimates and production schedules.

Distribution of Ratings:

Global Stock Ratings (as of 02/23/24)

Rating	Coverag	IB Clients		
	#	%	%	
Buy	602	65.36%	22.59%	
Hold	135	14.66%	9.63%	
Sell	12	1.30%	8.33%	
Speculative Buy	162	17.59%	48.77%	
	921*	100.0%		

^{*}Total includes stocks that are Under Review

Canaccord Genuity Ratings System

BUY: The stock is expected to generate returns greater than 10% during the next 12 months.

HOLD: The stock is expected to generate returns from -10% to 10% during the next 12 months.

SELL: The stock is expected to generate returns less than -10% during the next 12 months.

NOT RATED: Canaccord Genuity does not provide research coverage of the relevant issuer.

Given the inherent volatility of some stocks under coverage, price targets for some stocks may imply target returns that vary temporarily from the ratings criteria above.

*As of January 1, 2024, the Ratings History Chart will reflect the new Canaccord Genuity Ratings System as defined above.

Risk Qualifier

SPECULATIVE: The stock bears significantly above-average risk and volatility. Investments in the stock may result in material loss.

12-Month Recommendation History (as of date same as the Global Stock Ratings table)

A list of all the recommendations on any issuer under coverage that was disseminated during the preceding 12-month period may be obtained at the following website (provided as a hyperlink if this report is being read electronically) http://disclosures-mar.canaccordgenuity.com/EN/Pages/default.aspx



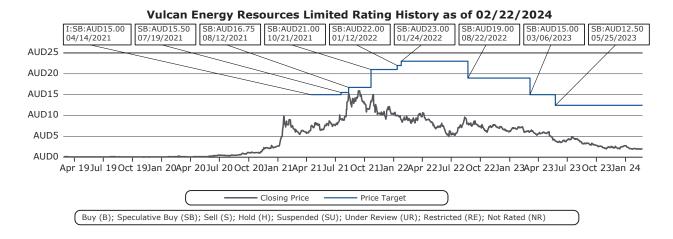
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Canaccord Genuity or one or more of its affiliated companies intend to seek or expect to receive compensation for Investment Banking services from Vulcan Energy Resources Limited in the next three months.



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