

Element 25 Limited (E25)

Strategic value in ex-China manganese

E25 is a manganese concentrate producer via its Butcherbird project in WA. It plans to upgrade the value of its concentrate by building a battery quality manganese plant, with FID early next year. The macro outlook for manganese is strong and underpinned by the decarbonisation of vehicles and energy systems. Additionally, the US Inflation Reduction Act has placed an economic incentive for customers to use non-China manganese, difficult in a market dominated by China (Figure 2). We maintain our Buy on an improved A\$3.79/sh price target (prev. A\$3.60/sh).

95% of battery grade manganese produced in China

- Manganese is the cheapest and most abundant of the NMC cathode materials (nickel, manganese and cobalt). NMC make up the majority of battery designs
- Nippon Denko in Japan and Vibrantz Technologies in Belgium are the only ex China suppliers of battery quality manganese, representing a 5% market share
- Both use imported ores and with supply chain security in focus, we see strategic value in E25's integrated business model (Figure 2)
- E25's maiden 65ktpa line could satisfy 8% of global battery quality manganese demand when it starts in 2025, falling to 2% by 2030 as the market grows

Offtake discussions ongoing, news near term

- E25 is expected to advance offtake discussions with an agreement by the end of the year, likely in the USA
- The company is targeting a combined offtake/finance solution with OEM and cathode manufacturers
- This could provide the bulk of the capital required to construct a battery quality manganese facility

Changes to our forecasts

- We incorporate the recent A\$35m raising at A\$1.12/sh in our forecasts (we had assumed A\$40m at A\$0.80/sh)
- The funds allow E25 to invest in its Butcherbird plant to lower costs and increase throughput, while continuing to advance its battery manganese division
- We have increased capex for the battery division from US\$150m to US\$200m in line with industry inflation and increased production rates to 65ktpa from 60ktpa
- We update our AUD and Mn price as outlined in Figure 4, largely to align with the movements in spot
- Overall our NPV increases 5% to A\$3.79/sh

Key Dates Ahead

- Dec.Q'22 Much improved production and sales
- Mar.Q'23 Battery manganese FS, offtake expected
- Sept.Q'25 First production of battery grade Mn

Buy Share Price: A\$1.04

Target Price: A\$3.79

Company Data	
Shares – ordinary (M)	184
Market capitalisation (\$M)	191
12 month low/high (\$)	0.43/ 1.71
Average monthly turnover (\$M)	15.1
GICS Industry	Metals & Mining

Financial Summary (fully diluted/normalised)

	-		-	00055	00005
Year end June	2022A	2023F	2024F	2025F	2026F
Revenue (\$M)	27.3	49.9	166.8	240.2	290.3
Costs (\$M)	42.9	45.2	96.3	134.4	152.1
EBITDA (\$M)	-15.6	4.7	70.5	105.8	138.2
NPAT (\$M)	-17.6	4.6	52.7	67.1	83.1
EPS (¢ps)	-11.7	2.6	28.7	36.5	45.2
EPS growth (%)	62.8	552.1	1003.6	27.2	23.8
PER (x)	-8.9	40.0	3.6	2.9	2.3
Op. Cashflow (\$M)	-19.5	5.8	68.2	70.0	101.1
OCFPS (¢ps)	-13.1	3.9	45.9	47.0	67.9
POCFPS (x)	-8.0	26.9	2.3	2.2	1.5
Enterprise Value (\$M)	140	116	188	273	180
EV / EBITDA (x)	-9.0	24.8	2.7	2.6	1.3
Payout ratio (%)	0.0	0.0	0.0	0.0	0.0
Dividends (¢ps)	0.0	0.0	0.0	0.0	0.0
Yield (%)	0.0	0.0	0.0	0.0	0.0
Franking (%)	0.0	0.0	0.0	0.0	0.0

E25 – performance over one year



Disclosure and Disclaimer

This report must be read with the disclosure and disclaimer on the final page of this document. The analyst preparing this report has a beneficial interest in 78,044 shares in this company. Petra Capital was lead manager and bookrunner for this company's placement to raise \$35m at A\$1.12/sh on 15 November 2022, for which fees were received.



Analysis

Element 25 Limite Year end 30 June	ed (E2	25)					¹⁴⁰]							
							120 -	M					/	ı
Recommendation	¢					Buy	100 -	mad		~~~~		· · · · · · · · · · · · · · · · · · ·	. harder	L.
Price Farget Price (12-month)	\$ \$					1.04 3.79	80 -	my J	$\mathcal{N}_{\mathcal{N}_{\mathcal{N}}}$	·		~	J.M.	r v h
Jpside / (Downside)	%					265%	60 -	V	m n	ι~ι	~~~~	m r	く	
2 week high / low	\$				1	.6 - 0.43	40 -				V V			
Aarket capitalisation	\$m					191	20 -							
Shares on issue	no.					184								
Options	no.					32	Dec	21 Jan-22 Feb-22 Mar-22	Apr-22 May-22	Jun-22 J	ul-22 Aug-2	22 Sep-22	Uct-22 Nov	-22 Dec
Shares on issue (diluted)	no.					216			E25.ASX		AS	X 200		
PROFIT & LOSS		2022A	2023E	2024E	2025E	2026E	ASSL	IMPTIONS		2022A	2023E	2024E	2025E	2026E
Revenue	\$M	27	50	167	240	290		\$ exchange rate	\$	0.73	0.67	0.70	0.73	0.75
Operating Costs	\$M	(38)	(41)	(92)	(130)	(148)		onc ref price (44%)	US\$/dmtu	5.83	5.53	5.98	6.20	6.20
Exploration	\$M	(1)	(1)	(1)	(1)	(1)		sed Mn price	US\$/dmtu	3.24	3.98	5.00	5.22	5.22
	\$М ¢м	(4)	(4)	(4) 71	(4) 106	(4) 138		ed Mn conc price	US\$/t	94 1 725	123	166	173	173
EBITDA	\$M \$M	(16)	5 (1)	71	106 (3)	138 (11)	rign I	Purity Mn price	US\$/t	1,725	1,950	1,950	1,950	1,950
Dep. & Amort. EBIT	\$M \$M	(2) (17)	(1) 4	(2) 69	(3) 103	(11) 127	BUT	CHERBIRD MINE LIFE						
let Interest	ъivi \$M	(17)	4	(3)	(7)	(8)	2010			tained M	n G	rade (%)		Years
Pre-Tax Profit	\$M	(18)	5	(3) 66	96	(0)	Rese	ves	001	4.3	3	10%		13
ax	\$M	- (10)	-	(13)	(29)	(36)	Reso			21.6		10%		65
let Profit	\$M	(18)	5	53	67	83		Mining Inventory		6.0		10%		20
Abnormal	\$M	-	-	-	-	-		5						
Reported Profit	\$M	(18)	5	53	67	83		DUCTION & COSTS		2022A	2023E	2024E	2025E	2026E
		20224	0000E-	20245	20255	00005		es processed	Mtpa	0.9	1.1	2.7	3.9	3.9
CASH FLOW		2022A	2023E	2024E	2025E	2026E	Grade		g/t	10.8%	10.3%	10.3%	10.3%	10.3%
Revenue	\$M	21	50	167	240	290	Reco	very	%	77%	79%	83%	83%	83%
Costs Fax Payable	\$M \$M	(41)	(45)	(96)	(134) (29)	(152) (29)	Mc	onc Production	kt	224	276	702	1,007	1,007
ax Payable Other	\$M \$M	- 1	-	(3)	(29) (36)	(29)		onc Production	kt kt	224 162	276 271	702 702	1,007 1,007	1,007 977
Other Operating Cashflow	эіvi \$M	(19)	6	(3)	(36) 70	(38)		ating Costs	Kt US\$/t	102	98	92	1, 007 93	977
Capex	φivi \$M	(19)	(17)	(140)	(154)	(7)	Opera	ang 00010	000/1	104	30	32	50	90
Exploration	ΦIVI \$M	(2)	(17)	(140)	(154)	(1)	HP M	n Sales	kt	-	-	-	-	25
Acquisitions	\$M	-	-	-	-	(י)		ating Costs	US\$/t	-	-	-	-	800
Dther	\$M	-	-	-	-		- 201	J						200
nvesting Cashflow	\$M	(2)	(17)	(140)	(155)	(8)	PEV 400							
Equity Issues	\$M	1	35	-	-	-								
Debt Raised / (repaid)	\$M	-	-	160	-	-	350 -							
Free Cashflow	\$M	(21)	(11)	(72)	(85)	93	300 -							
Surplus Cash Flow	\$M	(20)	24	88	(85)	93	250 -			_				
BALANCE SHEET		2022A	2023E	2024E	2025E	2026E	200 -							
Cash	\$M	15	39	127	42	135	150 -							
Other Current	\$M	16	16	16	45	74								
Fotal Current	\$M	31	55	143	87	209	100 -							
PP&E & Exploration	\$M	22	37	175	327	324	50 -							
Other	\$M	2	2	2	2	2	.]							
Total NC Assets	\$M	24	39	178	329	326	- +-	2022 2023	2024		2025	2026	2	027
Total Assets	\$M ¢M	55	94	320	416	535		High Purity Manga	anese (A\$m)	-	Mangapero	Concentrate	(A\$m)	
Current Liab	\$M \$M	8 1	8 1	8 161	8 161	8 161		- mgn r unty wang			manganese	Jonochuldte	(1)	
lon Current Liab Total Liabilities	\$M \$M	1 9	1 9	161 169	161 169	161 169	CASH	GENERATION						
labilities	৯া∨। \$M	9 46	9 85	159	247	366	150	1						
Equity	şivi \$M	46	65 85	151	247	366								-
Total Debt	\$M	-	-	160	160	160	100							
let Debt	\$M	(15)	(39)	33	118	25								
							50	1						
ATIO ANALYSIS		2022A	2023E	2024E	2025E	2026E					/			
PS	¢	(11.7)	2.6	28.7	36.5	45.2								
PER	х	(8.9)	40.0x	3.6x	2.9x	2.3x	(50)							
	%	63%	552%	1004%	27%	24%	14							
PS Growth		(11.3)	32.6x	3.2x	2.9x	1.6x	(100)							
V/EBITDA	х		26.5x	3.3x	(8.5)	(5.8)	(150)			•				
V/EBITDA V/OCF	x	(9.1)		(00.0)	(46.1)	50.7	(/							
V/EBITDA V/OCF CFPS	x ¢	(11.4)	(6.1)	(39.2)	(440/)		(200)	J	_	-				
V/EBITDA V /OCF CFPS CF Yield	x ¢ %			(39.2) (38%)	(44%)	49%	(200)							27E
V/EBITDA V/OCF CFPS CF Yield VPS	x ¢ ¢	(11.4)	(6.1)	(39.2) (38%)	(44%)	49%	(200)	2022E 2023	E 2024	E .	2025E	2026E	20	
V/EBITDA V/OCF CFPS CF Yield IPS ield	x ¢ ¢ ¢ %	(11.4)	(6.1)	(38%)	(44%)	-	(200)	2022E 2023 Operating Cashflow A					20 e Cash Flow	A\$m
:V/EBITDA :V/OCF CFPS :CF Yield PPS field iranking	x ¢ ¢ % %	(11.4)	(6.1)	(39.2) (38%) - -	(44%) - - 0%	49% - - 0%	(200)							A\$m
V/EBITDA V/OCF CFPS CF Yield IPS ield ranking ayout Ratio	x ¢ ¢ % %	(11.4)	(6.1) (6%) - -	(38%)	(44%) - - 0% -	- - 0% -		Operating Cashflow A	\$m 🔲 Capex			\$m — Fre	e Cash Flow	
V/EBITDA V/OCF CFPS CF Yield PPS ield ranking vayout Ratio Searing D/E	x ¢ ¢ % % %	(11.4) (11%) - - -	(6.1) (6%) - -	(38%) - - - 106%	(44%) - 0% - 65%	- - 0% - 44%	VALU	Operating Cashflow A	\$m Capex			\$m Fre A\$m	e Cash Flow A\$/Sh	A\$m %
V/EBITDA V/OCF CFPS CF Yield PS ield ranking ayout Ratio ieearing D/E iterest Cover	x ¢ ¢ % % % %	(11.4) (11%) - - - (221)	(6.1) (6%) - - -	(38%) - - - - 106% 24	(44%) - - 0% - 65% 14	- 0% - 44% 15	VALU	Operating Cashflow A ATION (10% discount erbird Manganese Con	\$m Capex			5m — Fre A\$m 448	e Cash Flow A\$/Sh 2.08	
V/EBITDA V/OCF CFPS CF Yield PS ield ayout Ratio iearing D/E tierest Cover BITDA Margin	X ¢ ¢ % % % % X %	(11.4) (11%) - - - (221) (57%)	(6.1) (6%) - - - n.m. 9%	(38%) - - 106% 24 42%	(44%) - - - - - - - - - - - - - - - - - - -	- 0% - 44% 15 48%	VALU Butch High I	Operating Cashflow A ATION (10% discount erbird Manganese Con Purity Manganese	\$m Capex			6m — Fre A\$m 448 371	e Cash Flow A\$/Sh 2.08 1.72	
W/EBITDA WOCF CFPS CF Yield PPS ield ranking ranking ayout Ratio bearing D/E iterest Cover BITDA Margin	x ¢ ¢ % % % %	(11.4) (11%) - - - (221) (57%) (64%)	(6.1) (6%) - - - - - - - - - - - - - - - - - - -	(38%) - - - - 106% 24	(44%) - - - - - - - - - - - - - - - - - - -	- 0% - 44% 15 48% 44%	VALU	Operating Cashflow A ATION (10% discount erbird Manganese Con Purity Manganese ration	\$m Capex			m ── Fre A\$m 448 371 10	A\$/Sh 2.08 1.72 0.05	
	x ¢ ¢ % % % % x %	(11.4) (11%) - - - (221) (57%)	(6.1) (6%) - - - n.m. 9%	(38%) - - 106% 24 42% 41%	(44%) - - - - - - - - - - - - - - - - - - -	- 0% - 44% 15 48%	VALU Butch High I Explo	Operating Cashflow A ATION (10% discount erbird Manganese Con Purity Manganese ration ash	\$m Capex			6m — Fre A\$m 448 371	e Cash Flow A\$/Sh 2.08 1.72	

Source: Petra Capital



How does manganese fits into battery chemistry?

Manganese is the cheapest and most abundant of the NMC cathode materials (nickel, manganese and cobalt). These cathodes make up the majority of battery designs (Figure 1).

7.0 6.0 5.0 All of the battery types shaded blue require manganese 4.0 3.0 2.0 1.0 0.0 2021 2028 2020 2035 2032 10^{05;} 10³⁶ 10²⁵ 2020 200 2021 ⁵031 2034 2021 202 202 103<u>7</u> 2005 204 204 204 20t 204 ■I FP NCA NCM111 NCM523 NCM622 NCM622-Graphite (Si) NCM811-Graphite (Si) NCM955-Graphite (Si)

Figure 1: EV battery capacity by type (TWh) – Manganese is in most cathodes

Given supply and cost constraints with Nickel and Cobalt, automakers have been looking to increase manganese content where possible. For example, VW is moving to a high manganese cathode for most of its vehicles. In China, lithium-iron-phosphate batteries dominate market share. Battery behemoth CATL announced that with the addition of manganese, its LMFP batteries will have 15-20% higher energy density, at a similar price point to its LFP offering (link).

Givens its relative abundance vs. competing materials, we believe manufacturers could favour high purity manganese sulphate in their battery chemistry. E25 is well positioned with its targeted entry into this market from 2025.

China produces 95% of the worlds battery grade manganese

Nippon Denko in Japan and Vibrantz Technologies in Belgium produce a small quantity of high-purity manganese sulphate using imported ore (Figure 2). Combined these two facilities produce around 5% of the global high-purity manganese sulphate supply.

The Inflation Reduction Act that was passed this year in the United States provides tax credits on the sales of electric vehicles. To obtain the credit, batteries must be made with a certain percentage of the value of critical minerals be mined or processed in the US or in a country with which it has a Free Trade Agreement. In addition, there are restrictions on minerals or components from China. This has led to increased customer interest in manganese that is produced outside of China.

E25 believes it can secure offtake agreements in the coming months to underpin production facilities either in Malaysia or Louisiana. Given the strong economics outlined in recent feasibility studies, the offtake should be the last piece required for project financiers.

Source: Future material demand for automotive lithium-based batteries - Chengjian Xu, Qiang Dai, Linda Gaines, Mingming Hu, Arnold Tukker & Bernhard Steubing





Figure 2: Only two companies outside of China produce battery quality manganese

Source: Benchmark Mineral Intelligence

Plenty of manganese units, not enough upgrading facilities

The global manganese market is circa 20mtpa of contained manganese, with 90% of demand coming from steel markets. Battery quality manganese is a miniscule portion of this market but is expected to grow materially to 1mtpa by 2040 (Figure 3). Unlike some other battery materials, manganese doesn't require a material increase in mining, but does require significant investment in upgrading facilities.

With existing non-China sources using imported ores and supply chain security increasingly a focus from customers, we see strategic value in E25's integrated business model. E25's business plans are advanced and well placed to take a first mover advantage.



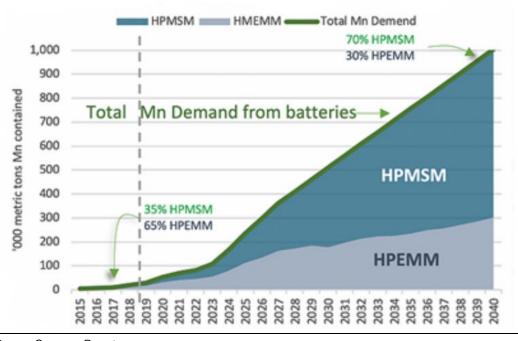




Figure 4: Summary of changes

			2023			2024			2025	
		New	Old	% var	New	Old	% var	New	Old	% var
Revenue	A\$m	50	54	(7%)	167	159	5%	240	232	4%
EBITDA	A\$m	5	8	(38%)	71	63	12%	106	98	8%
EBIT	A\$m	4	7	(41%)	69	62	12%	103	95	8%
NPAT	A\$m	5	7	(38%)	53	48	9%	67	65	4%
NPV/sh	A\$/sh	3.79	3.60	5%						
Mn conc prod	kt	276	280	(2%)	702	702	-	1,007	1,007	-
Op costs	US\$/t conc	98	107	(8%)	92	98	(6%)	93	96	(3%)
AUDUSD	x:x	0.67	0.72	(8%)	0.70	0.75	(7%)	0.73	0.75	(3%)
Price	US\$/t conc	123	140	(13%)	166	170	(2%)	173	173	0%

Source: Company reports, Petra Capital



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Financials:

Legal & Compliance:

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15 December 2022

ABN 95 110 952 782 ACN 110 952 782 AFSL 317 944

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