

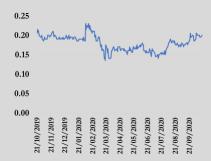
Neometals Ltd.

Ticker: NMT AU Share Price: A\$0.19 Market cap: A\$103.6m Cash: A\$81.3m

Investments (Listed): A\$5.0m

Debt: A\$0m

Enterprise Value: A\$17.3m Shares Outstanding: 545.4m Shares - Fully Diluted: 555.6m Managing Director: Chris Reed



Prices as of the close of business 2 November 2020

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Neometals Ltd.

2 November 2020

Battery Recycling: In the Right Place at the Right Time

Neometals' recent success, securing SMS group as a 50:50 Joint Venture (JV) partner for its battery recycling technology, is a strategic coup. SMS group, with headquarters in Düsseldorf, is a global supplier of industrial plants and equipment and generated approximately EUR3.0 billion of revenue in 2019. The JV, called Primobius GmbH, is in an enviable position since both partners contribute significantly to the venture. Neometals' hydro-metallurgical process to recover lithium, nickel, cobalt and other materials from lithium-ion batteries is environmentally superior to both landfill disposal and pyrometallurgical recycling. At the same time, SMS group, brings engineering clout and are located in one of the most competitive and innovative automarkets in the world. Managing Director, Chris Reed commented recently in an interview with Benchmark Minerals, "Having a large reputable German partner certainly doesn't hurt given many target partners are domestic and well known to SMS".

Importantly, the European Union's vision for a climate-neutral economy, initially communicated by the EU Commission in November 2018, provides an unavoidable backdrop for the European auto industry's transition towards electrification. Primobius GmbH looks exceptionally well placed to benefit from this long-term policy, since hydrometallurgical recycling processes have the ability to lower carbon emissions significantly and support resilient, ethical domestic supply-chains, hungry for battery raw materials. Primobius will complete its Life-Cycle-Assessment calculations with output from the demonstration plant. Li-Ion battery recycler Duesenfeld claim that their hydrometallurgical process saves 8.1 tonnes of CO₂ per tonne of recycled batteries relative to primary extraction of raw materials. And saves 4.8 tonnes of CO₂ per tonne of recycled batteries relative to conventional smelting processes.

A recent comment from Herbert Weissenbaeck of SMS group highlights the opportunity perfectly, "The timing is good to secure a foothold and build credibility with OEMs who value closing the loop in the battery value chain. There is a groundswell of global, and particularly European, support for sustainability and circular opportunities and this strengthens our commitment to Primobius".

While the Primobius JV appears to have found itself in the right place at the right time, for Neometals' shareholders, the key question is - what value does this opportunity represent? To make sense of this, we've gone back to Neometals' battery recycling scoping study released in June 2019, and used this data as the basis for some 'back-of-the-envelope' calculations. By our conservative estimates, if Primobius uses profit-sharing arrangements to secure feed source with OEMs and only builds one 20,000 tpa recycling plant, then Neometals shares could be worth A\$0.29 per share, based solely on Neometals' 50% JV share of Primobius plus current cash.

Prepared by Arlington Group Asset Management Limited, 47/48 Piccadilly, London, W1J 0DT.
See important disclosures at end of this report

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> Neometals' Lithium Battery Recycling Scoping Study, released 4 June 2019, considers a lithium-ion battery feedstock comprising 50% LCO (Lithium Cobalt Oxide) and 50% NMC 1,1,1 (Lithium Nickel Manganese Cobalt Oxide).

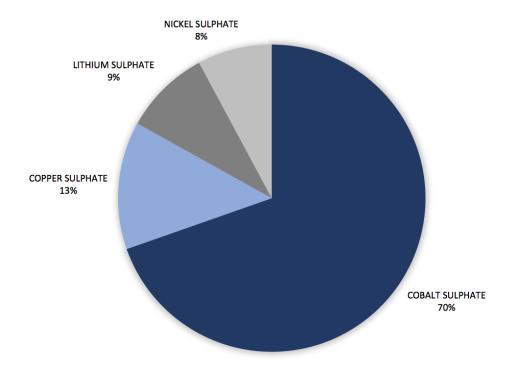
Operating at 50 tonnes per day (~20,000 tonnes per annum), the recycling plant is forecast to produce the following amounts of cobalt, copper, lithium and nickel in sulphate form.

ANNUAL PRODUCTION	(TONNES)	
COBALT SULPHATE	(TONNES)	9623
COPPER SULPHATE	(TONNES)	5635
LITHIUM SULPHATE	(TONNES)	1544
NICKEL SULPHATE	(TONNES)	2020

We've used Neometals' price deck and held prices flat over 15 a year period, despite expecting price increases for these battery materials as electric vehicle production grows. We've also ignored manganese and a host of other low-value outputs from the recycling process.

PRICES		
COBALT SULPHATE	(USD/T)	6,151
COPPER SULPHATE	(USD/T)	2,030
LITHIUM SULPHATE	(USD/T)	5,000
NICKEL SULPHATE	(USD/T)	3,298

Total revenue generated per annum is estimated at US\$85million. A breakdown of revenue by production is shown below;



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The demonstration plant is being constructed in Hilchenbach, 100km outside of Düsseldorf.

The JV is currently constructing a demonstration plant at a 2,000-square metre facility in Germany owned by SMS group, with commissioning expected early next year. Results will be used in a formal feasibility study, with a final investment decision (FID) by JV partners expected in the March quarter 2022.

The Scoping Study considered processing of 50 tonnes per day of whole batteries. Shredding and beneficiation removes metal casings and plastics, leaving a 'black powder' predominantly made up of cathode, anode and electrolyte material.

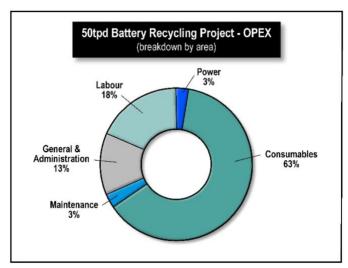


Schematic of Lithium-ion Battery:

Source: Neometals' August 2020 Presentation.

Source: Chris Hillseth Enterprises - 2014

Process facility operating costs were estimated to be US\$6.65/lb of cobalt recovered as cobalt sulphate, excluding by products. Consumables (ie sulphuric acid and ammonia) make up the lion's share of the operating costs.



Source: Neometals' Lithium Battery Recycling Scoping Study, June 2019.

Source: ASEAN Environment - Sept 2014

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> In our 'back-of-the-envelope' calculation, we have assumed that longterm supply of feedstock is secured with an automaker, whereby the OEM receives a share of profits.

We have also assumed tax of 30% and calculated an after-tax NPV using a 10% discount rate.

COBALT SULPHATE COPPER SULPHATE LITHIUM SULPHATE NICKEL SULPHATE LBS/T	(USD/T) (USD/T) (USD/T) (USD/T) 2204.6			6,151 2,030 5,000 3,298														
YEAR			-2 -1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ANNUAL PRODUCTION																		
COBALT SULPHATE COPPER SULPHATE LITHIUM SULPHATE NICKEL SULPHATE	(I) (I) (I)			9,623 5,635 1,544 2,020														
COBALT SULPHATE COBALT SULPHATE (CONTAINED CO	LBS - MLN LBS - MLN	20.50%		21.2 4.3														
REVENUE	USD (M)			85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
COSTS (AVE. NET OP. COST OF RECO	6.65			28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
CASH FLOW BEFORE OEM PROFIT SHA CASH FLOW AFTER OEM PROFIT SHA TAX RATE		-3	33 -33 33 -33	56 38														
AFTER TAX CASH FLOW DISCOUNT RATE	10%	-1	33 -33	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
NPV (US\$ - M) (100% JV)	108																	
NPV (US\$ - M) 50% ATTRIB. TO NMT	54																	

While the Battery Recycling project remains 'early-stage', and scoping study estimates (operating and capital) are based on bench-scale test work, given where the market is going we believe it's useful to try and make sense of what the recycling project could be worth.

By our calculations, if only ONE plant (20,000 tonnes per annum) was constructed, it would have a value to Neometals' shareholders of approximately US\$54 million (A\$76 million). This equates to approximately A\$0.14 per share.

It should be noted that the starter plant we have modelled relies on 10% production scrap and precedes a potential plant of 200,000 tpa (10 times larger than the starter plant) to capture end-of-life cells when the remaining 90% of battery material starts coming back. Primobius intend to build multiple recycling plants globally AND plan to expand each plants throughput.

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By our estimates, Neometals' A\$81.3 m of cash and their attributable share of the Primobius JV equates to A\$0.29 per share.

With Neometals' cash and cash equivalents of A\$81.3 million equating to a further A\$0.15 per share, the Neometals share-price continues to appear undervalued by the market, assigning little value to the compelling progress of the Battery Recycling Project and assigning no value at all to the rest of its projects.

Conclusion:

Neometals' share price remains considerably undervalued and we see any news relating to battery recycling feedstock agreements with OEMs as likely acting as a catalyst for Neometals' share price.

REPORT END

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