GREEN CRITICAL RAW MATERIAL SUPPLY CHAINS

AGM Presentation

November 2020 ASX Code: NMT OTC/Nasdaq Intl: RDRUY

Neometals

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Financial data: All figures in this document are in Australian dollars (AUD) unless stated otherwise.

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Compliance Statement:

The information in this report that relates to Mineral Resource and Ore Reserve Estimates and updated DFS Results for the Barrambie Vanadium/Titanium Project and Mineral Resource Estimates and Nickel drill results for the Mt Edwards Project are extracted from the ASX Announcements listed in the table below, which are also available on the Company's website at www.neometals.com.au

05/10/2020	132N Nickel Mineral Resource and Exploration Update at Mt Edwards
26/05/2020	Mt Edwards Nickel – Increase in Mt Edwards Nickel Mineral Resource
16/04/2020	Mt Edwards Nickel – 60% Increase in Armstrong Mineral Resource
13/11/2019	Additional Nickel Mineral Resource at Mt Edwards
25/06/2018	Mt Edwards Nickel – Mineral Resource over 120,000 Nickel Tonnes
19/04/2018	Mt Edwards Nickel – Mineral Resource Estimate
17/04/2018	Updated Barrambie Mineral Resource Estimate

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

EXECUTIVE SUMMARY

Neometals innovatively develops opportunities in minerals and advanced materials essential for a sustainable future 55

- Innovative ASX-listed project developer
- Focus on integrated minerals/materials for EV and ESS sectors
- 4 core projects with partners
- Pivoting from traditional hard-rock mining to eco-friendly materials recovery
- EU projects supporting resource efficiency, circularity and domestic supply chains
- Team with growing track record in delivering project outcomes – Mt Marion
- Future-proof balance sheet to fund all projects through to FID's
- Paid A\$55M in dividends in last 5 financial years



CLEAR GROWTH STRATEGY

Our early-partnering model to maximise ROIC is different



We identify and secure opportunities

Organically (e.g. Battery Recycling) and acquisition (Mt Edwards)



We build value

Risk-conscious exploration, cost/ benefit driven R&D and studies



We validate and realise value

With strong partners to develop at optimum scale, lower operating and financial risks, minimise invested capital and accelerate returns



We return value

Dividends and buy backs +A\$60M to date

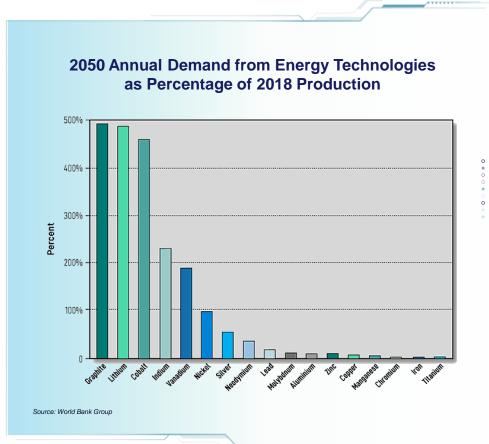
^{*} As at 30 June 2020

^{**} A\$10.9 Partially franked dividend (2cps) paid April 20

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UNPARALLELED EXPOSURE TO THE NEW ENERGY (STORAGE) MEGATREND

- Exposure to key commodities as the World transitions to low carbon:
 - o Li, Co, Ni, V
- All the right elements[®]



OPERATIONAL FOCUS ON ADVANCED PROJECTS

- Vanadium Recovery
- LiB Recycling

Lithium Refinery •

Titanium & Vanadium • Nickel •



Lithium-Ion Battery Recycling Project

(Feasibility / Demo Plant Stage, 50:50 Incorporated JV)



Vanadium Recovery Project

(Pre-Feasibility Stage, option to form 50:50 Incorporated JV)



Lithium Refinery Project

(Feasibility Stage, MOU for 50:50 Incorporated JV)



Barrambie Titanium and Vanadium Project

(Pilot-stage, 100% NMT, MOU for 50:50 Operating JV);



Mt Edwards Nickel and Lithium Project

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OUR PEOPLE

NE Board Members



Steve Cole Chair



David Reed



Dr Natalia Streltsova



Doug Ritchie



Dr Jennifer Purdie



Les Guthrie

Management Team



Chris Reed Managing Director / CEO



Jason Carone Company Secretary / CFO



Michael Tamlin COO



Darren Townsend CDO



Irena Ivanova GM - Engineering



Paul Wallwork
GM – Marketing
and Product
Development



Jeremy Mcmanus GM – Commercial and Investor Relations



Gavin Beer GM – Lithium Processing



Matthew Read GM – Lithium Projects



David Robinson GM – Metallurgy and R&D



Greg Hudson GM – Geology

CORPORATE DASHBOARD



ASX:	NMT	OTC:RDRUY
AUA.	IAINII	OIG.NDNOI

Shares on Issue ¹	m	545.4
Share Price (23-Nov-20)	A\$	0.235
Market capitalisation (23-Nov-20)	A\$m	128.2
Cash (30-Sep-20) ²	A\$m	76.6
Debt	A\$m	-
Investments (30-Sep-20) ³	A\$m	7.3

Major Shareholders (23-Nov-2020)

major onaronolaoro (20 mor 2020)					
David Reed (Non-Executive Director)	8.5%				
Westoz Funds Management	3.3%				
Top 20	35.8%				
No of Shareholders	~8,000				



Note 1: Excludes 10.26M performance rights. Note 2: incl A\$4.3M restricted term deposits Note 2: Loan receivables and investments

TSR since last AGM = 27.5%



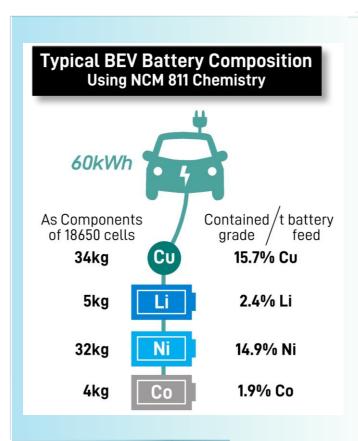


RECYCLING AND RECOVERY

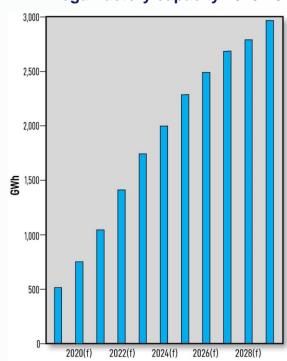
LI ION BATTERY RECYCLING PROJECT

50:50 JV with SMS group – 'Primobius GmbH'

OPPORTUNITY - LIB'S CONTAIN SIGNIFICANT VOLUMES OF HIGH-PURITY METALS



World Lithium ion battery mega- factory capacity 2019-29

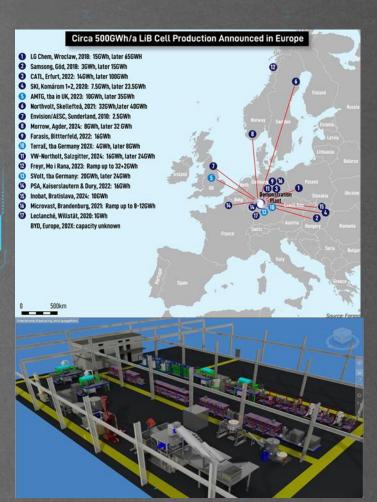


SOLUTION - RECYCLING

We proved our safe, eco-friendly, proprietary rocess can produce high-purities at pilot-scale



ENTERED JV TO COMMERCIALISE GLOBALLY WITH INITIAL FOCUS ON EUROPE – 2ND LARGEST MARKET



Primebius

SMS o group

Battery recycling without limits

50:50 JV WITH SMS group GmbH

- Incorporation of Primobius GmbH to commercialise recycling technology
- Constructing a showcase demonstration plant in Germany and complete feasibility study end 2021
- Evaluating both 20ktpa and 200ktpa plants
- SMS will build, operate and procure debt financing on behalf of JV*
- Global commercial roll out capitalising on the SMS global footprint / reputation (140 years old, 14,500 employees at 95 sites)

*for 50:50 debt:equity on a best endeavours basis

FIRST MOU WITH BATTERY-MAKER INOBAT

Primobius

Battery recycling without limits



IPM GROUP





MOU with InoBat j.s.a

- InoBat j.s.a.is founder of Slovakian battery manufacturer InaBat Auto j.s.a.
- InoBat is part of IPM Group, which has secured funding from a consortium of CEZ (Leading Czech Power Co), MOL (Multinational Hungarian Oil and Gas) and sovereign wealth funds
- Evaluation of commercial recycling facility in Central/Eastern Europe with an initial capacity of 20,000tpa
- Baseload LiB feedstock sourced from InoBat's operations in Bratislava, which are scaling up to 10 GWh by 2024.
- Evaluating hub and spoke model, centralised hydromet circuit fed by multiple shredding/beneficiation plants







RECYCLING AND RECOVERY

VANADIUM RECOVERY PROJECT

Earning into 50:50 JV with Critical Metals Ltd (15.8% NMT)

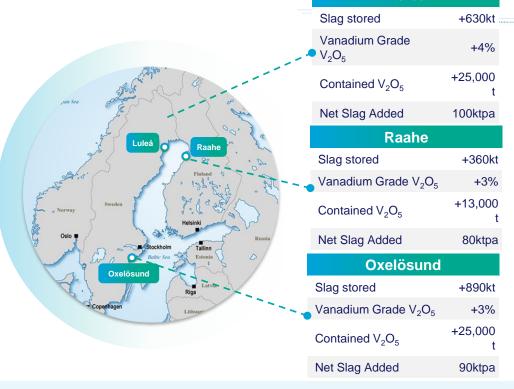
OPPORTUNITY

Scandinavian steel giant SSAB has +2Mt of high-grade vanadium-bearing by-product ("Slag") stored at 3 steel mills in Sweden and Finland.

Approx 2Mt secured by Critical Metals Ltd (15.8%~ NMT) under supply agreement

Neometals funding evaluation of vanadium recovery using proprietary eco-friendly hydromet process

Scoping study indicated potential lowest quartile position opex for proposed 50:50 Incorporated JV



Agreement Volumes and Price

- Initial purchase of 700kt of Slag from Luleå post FID
- Purchase 200ktpa
 Slag post commercial production for 10 years

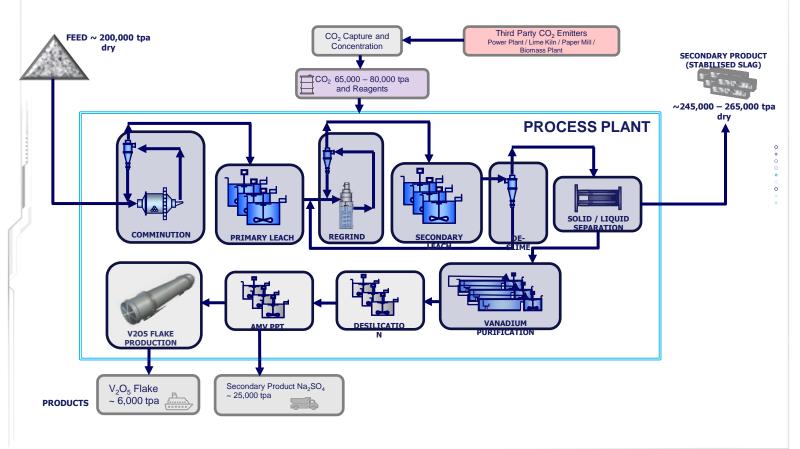
Price linked to prevailing FeV80 vanadium price and vanadium content (reference grade 2.2% V ~ 3.9% V2O5)

Luleå



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PATENT PENDING VANADIUM RECOVERY FLOWSHEET SEQUESTERS CARBON



SUCCESSFULLY TESTED IN MINI-PILOT PLANT FOR ~ 100 HOURS



- Successful demonstration of Neometals' proprietary vanadium recovery flowsheet in continuous mini-pilot test work campaign
- Exceptional product purity of greater than 99.5% V₂O₅
- Vanadium recoveries exceeding 75%
- Leach residence times reduced by 50% from Scoping Study design positive implications for capital costs
- Preliminary feasibility study ("PFS") manager appointed (Hatch Ltd),

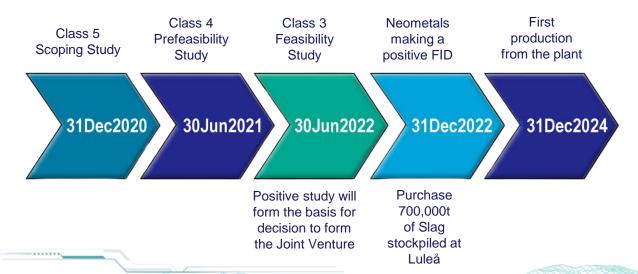
For full details of Mini Pilot Plant results refer ASX release dated 4th November 2020 titled "Successful Vanadium Recovery Mini-Pilot and commencement of PFS"

FORWARD WORK PROGRAM

Evaluation studies to be funded and managed by Neometals to timetable below:

- Metallurgical testwork
- Class 5, 4 and 3 AACE (Association for the Advancement of Cost Engineering) Engineering Cost studies

Indicative Project Timeline – Steel Slag Project







DOWNSTREAM PROCESSING

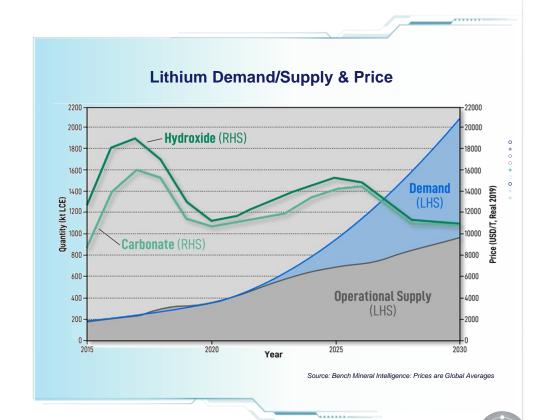
LITHIUM REFINERY PROJECT

Neometals 100% - MoU 50:50 JV with Manikaran Power



THE OPPORTUNITY: BATTERY QUALITY LITHIUM HYDROXIDE FROM MT. MARION OFFTAKE RIGHT

- Mt Marion is 2nd largest source of lithium concentrates globally
- Develop India's first lithium refinery with strong partner
- Development timing in-step with market



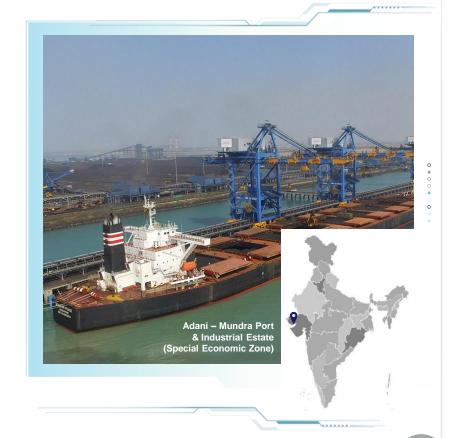
PROJECT PARTNER & PROPOSED LOCATION

Binding memorandum of understanding (MOU) with Manikaran Power Limited (MPL)

- Co-fund evaluation studies to build India's first Lithium Refinery India currently has no domestic lithium production
- Potential for 50:50 Incorporated JV

MPL is the third largest power trading and diversified renewable energy company in India, part of large diversified civil construction group





FEASIBILITY STUDY FOR 20KTPA LIOH REFINERY

Mt Marion Fines

Concentrates

Primero Group - Class 3 Engineering Study and key vendor package integration

- Strategic Metallurgy Process Modeling and Process Engineering
- Sichuan Calciner technologies to design and estimate the pyrometallurgical process package
- Veolia HPD to design and estimate the hydrometallurgical process package

Indicative Timeline



Study

Offtake, Reagent Supply, Land Approvals & Financing activities in parallel

Class 2 FEED

Study

Subject to NMT and JV Board Approval

Study

Engineering Cost

Study



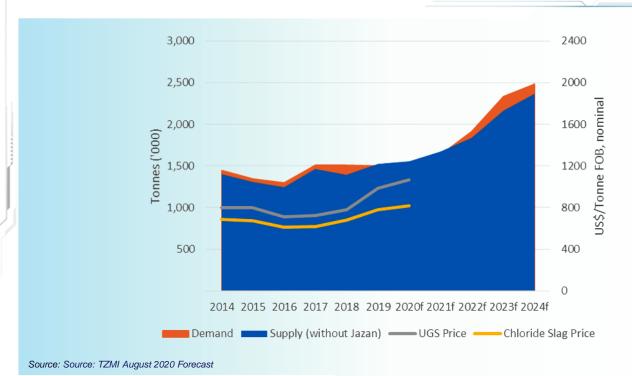


UPSTREAM MINERALS

BARRAMBIE TITANIUM AND VANADIUM PROJECT

100% Neometals Owned

THE OPPORTUNITY: GROWING CHINESE DEMAND FOR FEEDSTOCKS SUITABLE FOR CHLORIDE PIGMENT



^{*}Jazan smelter has capacity of 500ktpa TiO2 slag

BARRAMBIE OVERVIEW

Globally one of the highest-grade hard-rock titanium assets

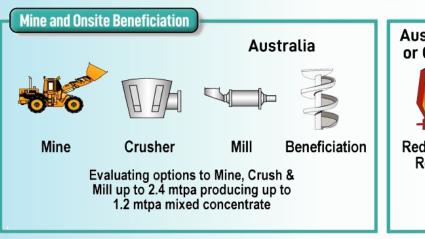
- 100% owned
- Tier 1 jurisdiction
- Granted mining lease
- EPA approval
- >A\$30M spent to date in exploration / evaluation (inc. 55,000m of drilling)
- Established a large resource base
- Evaluated a number of flowsheets and now focused on recovery of value from titanium and iron/vanadium from two processes
- Completed work to demonstrate value in use to end users
- Attracted partner to optimise value realisation

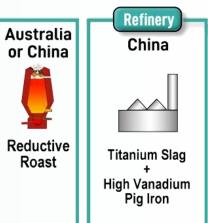


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SOLUTION: REDUCTIVE ROASTING GRAVITY CON TO PRODUCE SEPARATE TI AND V CONCENTRATES

Schematic Barrambie Development





Reductive roast reduces vanadium level in titanium slag and creates additional options for processing high vanadium iron concentrate



THE STRATEGY: SECURE STRONG PARTNER

Conditional MOU signed for 50:50 operating JV with leading Ti-V Research Institute IMUMR

- IMUMR has Chinese national mandate to develop upstream supply chains for strategic industries. China is half of global titanium pigment production
- IMUMR (China Geological Survey) to fund Demonstration Plant
- Subject to positive Demonstration Plant trials, Neometals and IMUMR will jointly fund Class 2 Engineering Cost Study on developing mine and concentrator in Australia and downstream processing in China
- Consider FID and proceed to negotiate 50:50 JV
- JV will have right to mine Barrambie for commercial consideration payable to Neometals subsidiary holding mining lease





UPSTREAM MINERALS

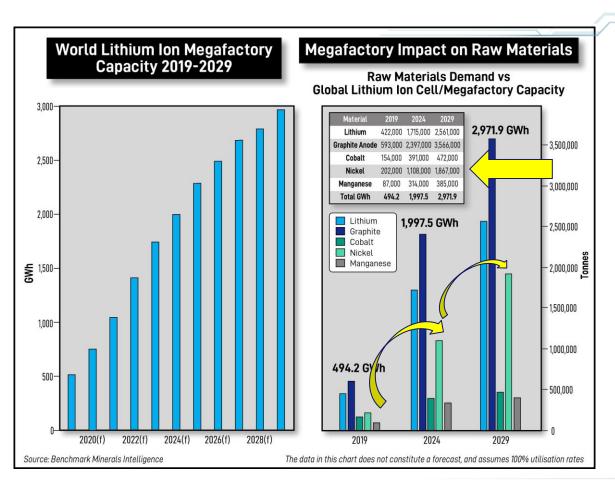
MT EDWARDS NICKEL PROJECT

Neometals - 100% Nickel Mineral Rights

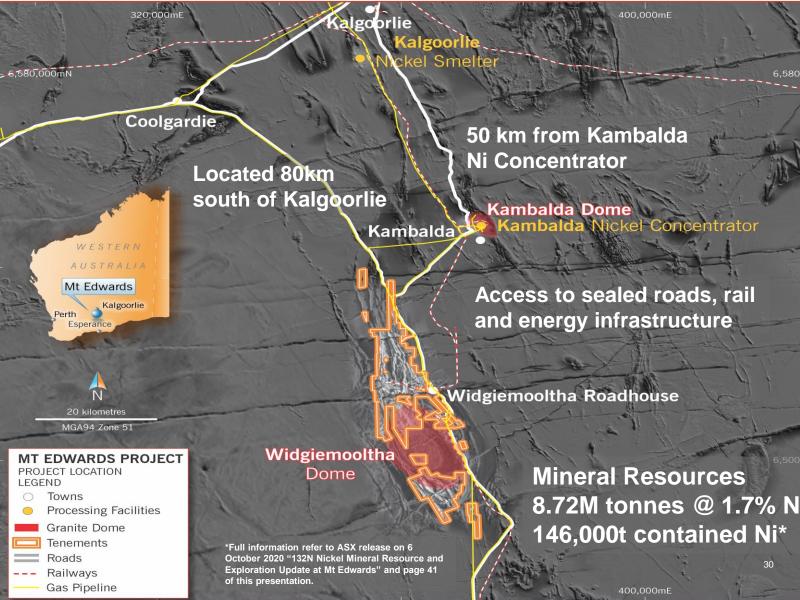
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OPPORTUNITY

Lithium-ion Megafactories will impact demand for Raw Materials including Nickel



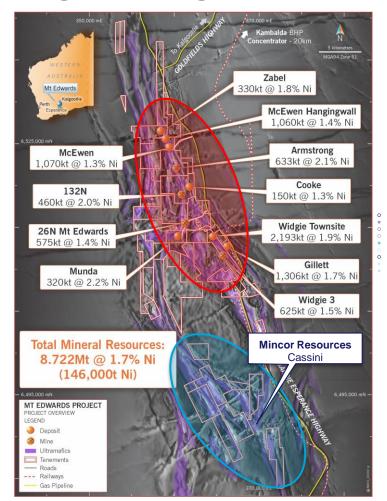
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MT EDWARDS UNDER NEOMETALS

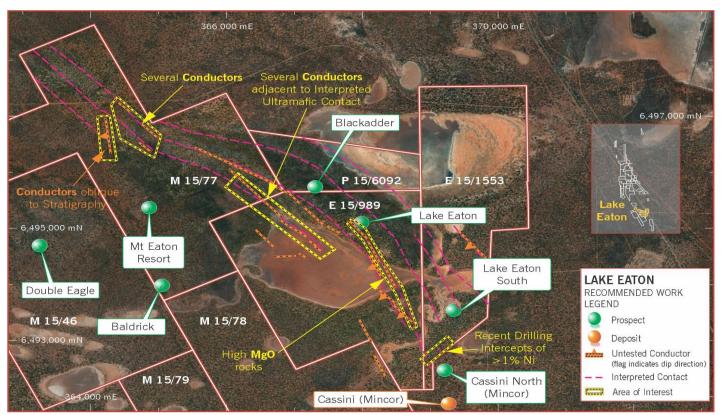
- Validated and grown the database which now comprises 11,887 drillholes, 36,000 soil samples
- Drilled 251 holes since acquisition, discovered more nickel
- Newexco engaged to assist in data review and future discoveries
- >45 prospects and targets
- Regional exploration in 2020 has focused on the southern tenements proximal to Mincor's Cassini deposit
- Best option deposits subject to mine planning
- Neometals is considering optimal structure to realise value of NiS development assets





REGIONAL EXPLORATION – LAKE EATON

- Multiple geophysics surveys at Lake Eaton and Lake Eaton South NW of Mincor's Cassini. Including:
 - Passive Seismic, Moving Loop EM and UAV (drone) supported Magnetic Surveys







SUSTAINABILITY AND ESG

NEOMETALS PORTFOLIO

SUSTAINABILITY

Neometals is committed to optimising finite resources with circular practices to benefit society and the environment for a sustainable future

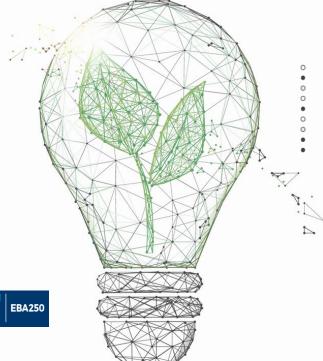
- All projects, particularly EU, focused on materials for decarbonisation and the clean energy revolution
- Further to support domestic supply chain resilience and increasing the lifetime of ethical resources
- Genuine ESG conviction core business to support resilience and adaptability
- Foundation ESG practices being formalised in inaugral Sustainability Report (GRI)











SUSTAINABILITY ACTIONS

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- Aligning with sustainable development goals
- Delivering minerals and materials to support decarbonisation
- Treading lightly to develop (best practice)
- Diverting hazardous waste, recovering minerals and upgrading for re-use
- Sequestering CO₂
- Remediating sites
- Reducing CO₂ footprint of offtakers/partners (LCA)
- Supporting domestic sourcing i.e. reduced transport



SOCIAL / GOVERNANCE ACTIONS

- Joined alliances International Responsible Mining Initiative, UN Global Compact, European Battery Alliance
- Continued investments in technology development and R&D
- Social charitable investments, scholarships, community benefit
- Governance 33% females, training
- Community Consultation



COMPANY HIGHLIGHTS

SECURITY



Strong balance sheet, no debt – can fund developments to FID



Consistent strategy - partnering to reduce risks and realise returns



Strong Board and management – project execution experience



History of cash returns to shareholders



Pivot to recycling and recovery removes traditional mining risk

OPPORTUNITY



Green critical materials for Europe



Resource efficiency for circular economy



Secure, ethical supply chain certainty



Multiple catalysts across portfolio



Transitioning to best practice ESG - 'sustainable investment'

SUPPORTING INFORMATION

BARRAMBIE MINERAL RESOURCE ESTIMATE

Global Mineral Resource as at 17 April 2018 ¹							
Classification	Tonnes (M)	TiO ₂ (%)	V ₂ O ₅ (%)				
Indicated	187.1	9.61	0.46				
Inferred	93.0	8.31	0.40				
Total	280.1	9.18	0.44				

High Grade V_2O_5 witheral Resource at (0.5% V_2O_5 cut-off) ²						
Classification	Tonnes (M)	TiO ₂ (%)	V ₂ O ₅ (%)			
Indicated	49.0	16.93	0.82			
Inferred	15.9	16.81	0.81			
Total	64.9	16.90	0.82			

High Grade 110 ₂ wilneral Resource at (14% 110 ₂ cut-off) ²						
Classification	Tonnes (M)	TiO ₂ (%)	V ₂ O ₅ (%)			
Indicated	39.3	21.18	0.65			
Inferred	14.3	21.15	0.58			
Total	53.6	21.17	0.63			

(1) Based on Cut-off grades of ≥0% TiO₂ or ≥.2% V₂O₅

BARRAMBIE MINERAL RESOURCE AND ORE RESERVE ESTIMATE

Competent Person Attribution

The information in this report that relates to the Barrambie Mineral Resource estimates is extracted from an ASX Announcement dated 17 April 2018 (see ASX Announcement "Updated Barrambie Mineral Resource Estimate"). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the Mineral Resource estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are represented have not been materially modified from the original market announcement.

The information in this report that relates to the Barrambie Ore Reserve estimates is extracted from an ASX Announcement dated 22 May 2019 (see ASX Announcement "DFS Results for Barrambie Vanadium Production and commencement of Titanium Pilot Program"). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the Ore Reserve estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are represented have not been materially modified from the original market announcement.

The information in this report that relates to metallurgical testwork results is extracted from an ASX Announcement dated 11th July 2018 (see ASX Announcement "Barrambie Test Work Produces +90% Purity Titanium Slag at High Recoveries"). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are represented have not been materially modified from the original market announcement.

MT EDWARDS MINERAL RESOURCE ESTIMATE

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Competent Person attribution on Next page

	Indicated		Inferred		TOTAL Mineral Resources		
Deposit	Tonne (Kt)	Nickel (%)	Tonne (Kt)	Nickel (%)	Tonne (Kt)	Nickel (%)	Nickel Tonnes
Widgie 3 ²			625	1.5	625	1.5	9,160
Gillett ⁵			1,306	1.7	1,306	1.7	22,500
Widgie Townsite ²	2,193	1.9			2,193	1.9	40,720
Munda ³			320	2.2	320	2.2	7,140
Mt Edwards 26N ²			575	1.4	575	1.4	8,210
132N ⁶	34	2.9	426	1.9	460	2.0	9,050
Cooke ¹			150	1.3	150	1.3	1,950
Armstrong ⁴	526	2.1	107	2.0	633	2.1	13,200
McEwen ¹			1,070	1.3	1,070	1.3	13,380
McEwen Hangingwall ¹			1,060	1.4	1,060	1.4	14,840
Zabel ¹			330	1.8	330	1.8	5,780
TOTAL	2,753	1.9	5,969	1.5	8,722	1.7	146,000

NOTE: Figures may not sum due to rounding. Significant figures do not imply an added level of precision.

Mineral Resources quoted using a 1% Ni block cut-off grade, except Munda at 1.5% Ni.

Note: 1 refer announcement ASX: NMT 19 April 2018 titled: Mt Edwards JORC Code (2012 Edition) Mineral Resource 48,200 Nickel Tonnes

Note: 2 refer announcement ASX: NMT 25 June 2018 titled: Mt Edwards Project Mineral Resource Over 120,000 Nickel Tonnes

Note: 3 refer announcement ASX: NMT 13 November 2019 titled Additional Nickel Mineral Resource at Mt Edwards

Note: 4 refer announcement on the ASX: NMT 16 April 2020 titled 60% Increase in Armstrong Mineral Resource

Note: 5 refer announcement on the ASX: NMT 26 May 2020 titled Increase in Mt Edwards Nickel Mineral Resource

Note: 6 refer announcement on the ASX: NMT 6 October 2020 titled 132N Nickel Mineral Resource and Exploration Update at Mt Edwards



MT EDWARDS MINERAL RESOURCE ESTIMATE

Competent Person Attribution

Competent Person Attribution

The information in this presentation that relates to Exploration Results is based on information compiled by Gregory Hudson, who is a member of the Australian Institute of Geoscientists. Gregory Hudson is an employee of Neometals Ltd.

The information in this presentation for Mt Edwards that relates to Widgie Townsite, Widgie 3, Zabel, McEwen & McEwen Hangingwall Mineral Resources is based on, and fairly represents, information and supporting documentation compiled and prepared by Mr Luke Marshall. Mr Marshall is a sole trader and independent contractor to Neometals Ltd.

The information in this presentation for Mt Edwards that relates to the Mt Edwards 26N Mineral Resource is based on, and fairly represents, information and supporting documentation compiled and prepared by Mr Andrew Bewsher. Mr Bewsher is an employee of BM Geological Services who provides consulting services to Neometals Ltd.

Messrs Hudson, Marshall and Bewsher are Members of The Australasian Institute of Geoscientists have sufficient experience which is relevant to the styles of mineralisation and types of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the JORC Code.

The information in this presentation that relates to the Munda, Armstrong, Gillett & 132N Nickel Mineral Resources is based on, and fairly represents, information and supporting documentation compiled by Richard Maddocks; MSc in Mineral Economics, BAppSc in Applied Geology and Grad Dip in Applied Finance and Investment. Mr. Maddocks is a consultant to Auralia and is a Fellow of the Australasian Institute of Mining and Metallurgy (member no. 111714) with over 30 years of experience. Mr. Maddocks has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the JORC Code. Mr. Maddocks consents to the inclusion in this Report of the matters based on his information in the form and content in which it appears.