



**RESOURCE
BASE**

Investor Presentation

Growth Focused Minerals House

November 2021

[RESOURCEBASE.COM.AU](https://resourcebase.com.au)

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COMPETENT PERSON STATEMENT

The information in this report which relates to Exploration Results is based on, and fairly represents, information by a Competent Person as disclosed in the Company's Prospectus dated 7 May 2021 and announced to the ASX on 8 July 2021 or compiled by Mr Ian Cameron. Mr Cameron is a Member of the Australian Institute of Geoscientists (AIG) and a consulting geologist to the Company. Mr Cameron 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 2012 edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' (the JORC Code). The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant market announcement.

Released with the authority of the Board 23 November 2021

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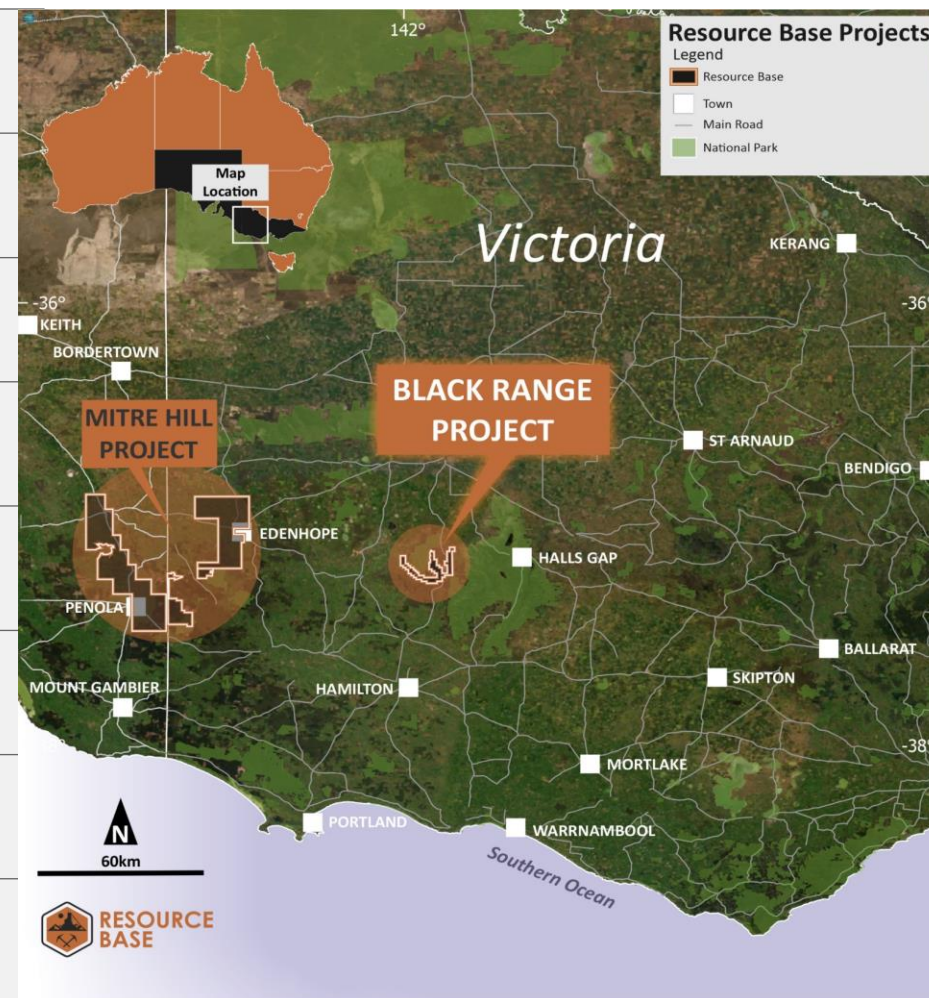
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Projects



Mitre Hill Project

Emerging Region

- Mitre Hill Project located within the Murray Basin in Victoria and South Australia, with the main target ionic clay hosted Rare Earth deposits

Quality Asset

- Mitre Hill Project prospective for ionic clay hosted Rare Earth Element (REE)

Targeted Exploration

- Field mapping to confirm prospective geological horizons to validate geological models and assist in exploration targeting

Drilling Program

- Exploration and drilling program planned to investigate areas prospective for shallow clay ionic hosted rare earth mineralisation



Black Range Project

Established Region

- Black Range Project is located in the well-known and highly prospective Staveland Volcanics corridor in north-west Victoria

Recognised VHMS

- Black Range Project is host to a recognised copper-gold volcanic-hosted massive sulphide (VHMS) system known as the Eclipse Prospect

Untested Targets

- Opportunity to test the potential of a 4km strike of a defined volcanic graben at Eclipse. Multiple, untested base metal and gold targets over approximately 100km of Staveland Arc volcanics

Exploration Program

- Aggressive exploration program at the Eclipse Prospect, focused on quickly establishing an initial inferred JORC compliant resource from existing geological data



Investment Highlights



Resource Base Limited (ASX: RBX) is a mineral exploration company focused on the development of highly prospective exploration projects with demonstrated potential for scalable discoveries



Established Regions

Black Range Project is located in the well-known and highly prospective Staveland Volcanic's corridor in north-west Victoria.

Mitre Hill Project is located within the Murray Basin, known for ionic clay hosted Rare Earth deposits



Thematic Tailwinds

Black Range Project targeting copper, gold and zinc. All supported by strong Economic and Green Tech tailwinds.

Mitre Hill Project targeting Rare Earths, which Western economies are aggressively focusing on securing aligned supply.



Untested Targets

Targeting a recognised **copper-gold** VHMS system known as the Eclipse prospect.

Targeting ionic clay hosted **Rare Earth** deposits, with possible economic concentrations of Heavy Rare Earths



Short Term Catalysts

Air-Core drilling has commenced at Black Range

Diamond drilling to commence at Black Range early 2022

AGM mid December – Vote on Mitre Hill Ionic Clay **Rare Earths** transaction

Commence **Geological field works** at Mitre Hill January 2022

Corporate Overview



Board of Directors

Shannon Green	John Lewis	Jamie Myers	Paul Hissey
Executive Chairman	Non-Executive Director	Non-Executive Director	Non-Executive Director

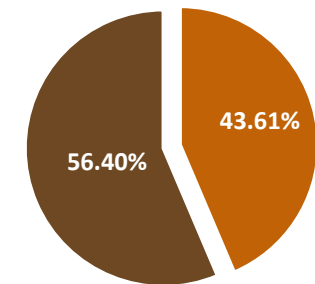
Executives

Shannon Green	Ian Cameron	John Lewis	Shannon Coates
Chief Executive Officer	Exploration Manager	Chief Financial Officer	Company Secretary



Shareholder Breakdown

■ Top 20 Holders ■ Others



Corporate

ASX Ticker	RBX
Share Price (19 Nov 21)	A\$0.20
Shares on issue	49.59m
Options on issue	9.69m
Market cap (undiluted)	\$9.92m
Cash (30 Sept 21)	\$4.8m
Enterprise Value	\$5.1m
Trading range since IPO	\$0.155 – \$0.245

Black Range Project



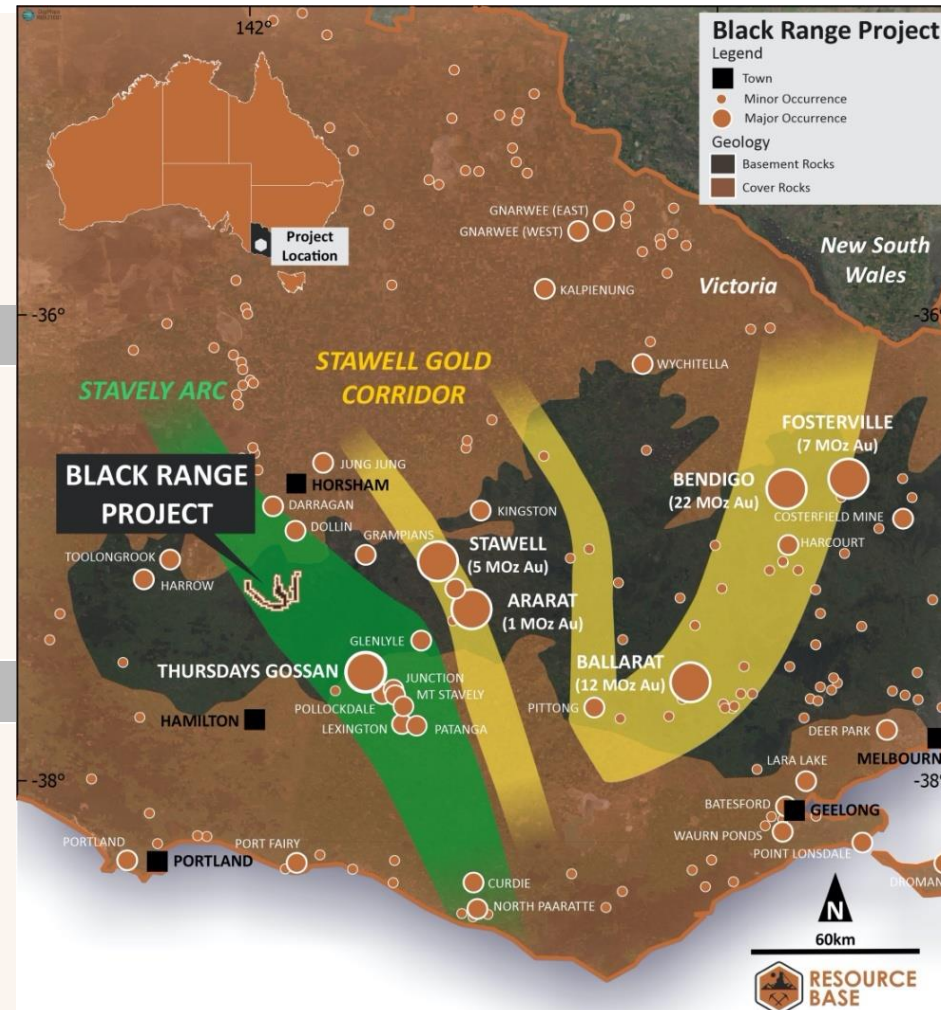
Black Range Project



Acquired 100% of the Black Range Project (EL4590) **from Navarre Minerals Limited (ASX:NML)** who remain a substantial shareholder

Targeting **volcanic massive sulphide**, epithermal and porphyry **copper-gold deposits**

Project hosts a **recognised copper-gold VHMS system** (the Eclipse Prospect)



North of the recent Thursdays Gossan copper discovery by Stavelly Minerals Limited (ASX:SVY)

Rich Chalcocite copper blanket located at the Eclipse Prospect **with grades up to 3% Cu & 2.95g/t Au¹**

Massive Sulphide clasts intersected

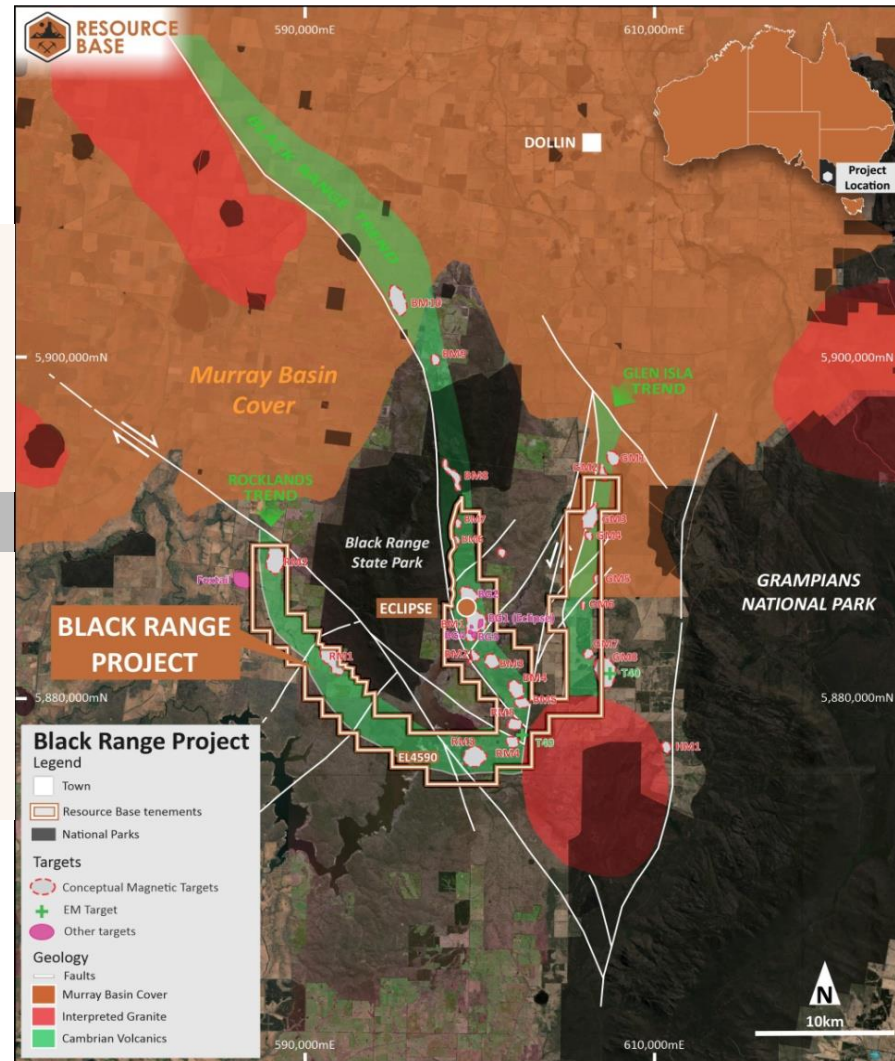
¹ See Company's Prospectus dated 7 May 2021

Black Range Project



Multiple, untested targets over approximately 100km of Stavelly Arc volcanics

The Cambrian aged volcanics within the Project area are under explored due to presence of cover rock units



Discovery of a number of prospects prospective for copper and gold such as Eclipse, Lexington and Pollockdale

Further geophysical test work will be also required throughout the Eclipse basin so as to define the source and opportunity

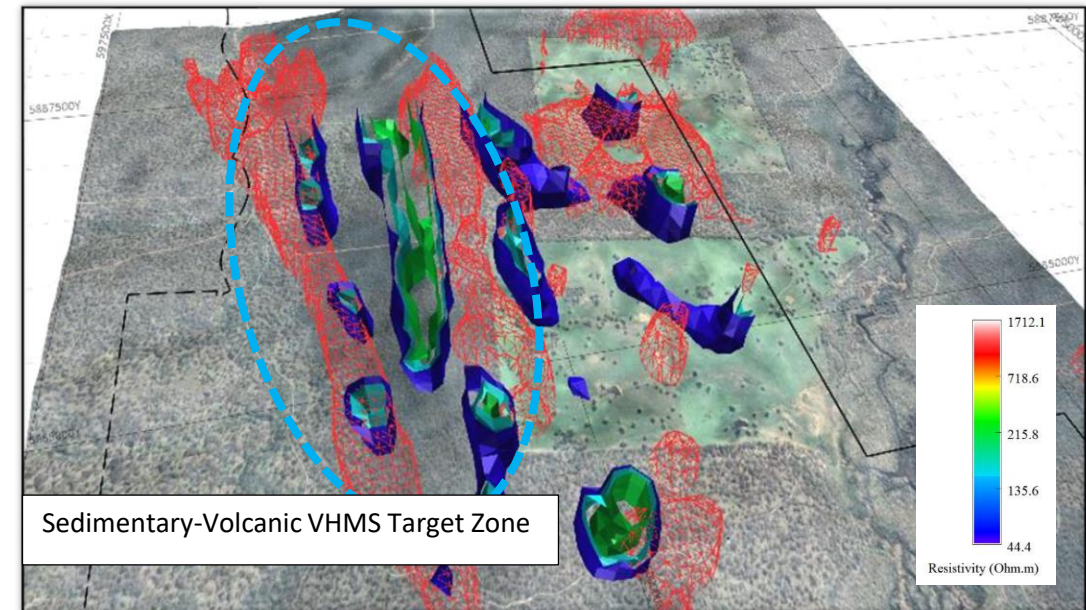
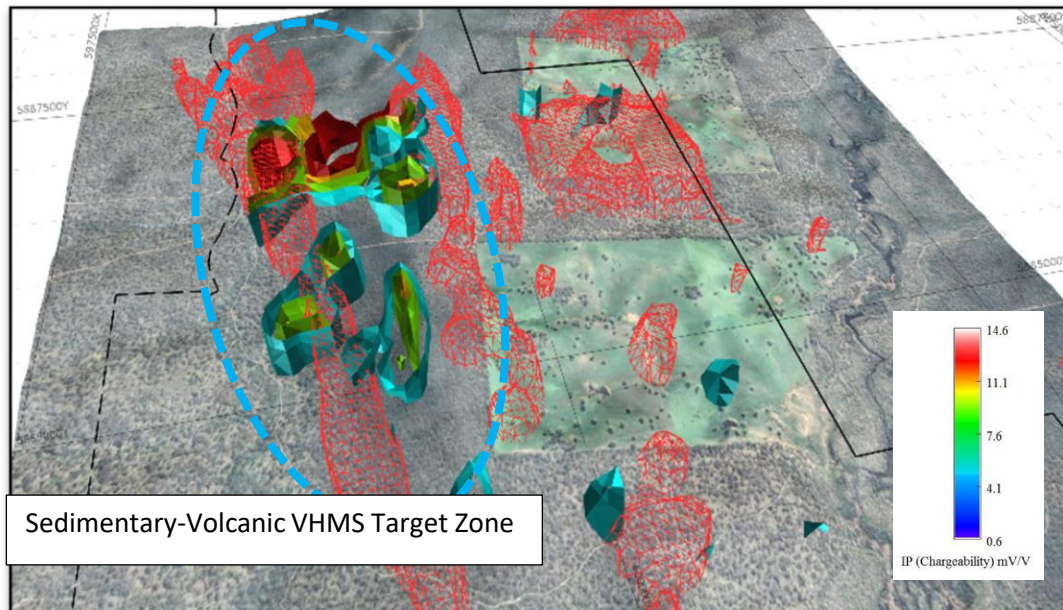
Geophysics



Large-scale geophysical program at Black Range Project completed

The program was designed to test the priority target area between the Eclipse and New Moon prospects

The program combined with previous geological works has assisted with establishing priority drill target areas for the Company's initial drilling program commencing in November 2021



See ASX announcement dated 18 November 2021

Drill Targets



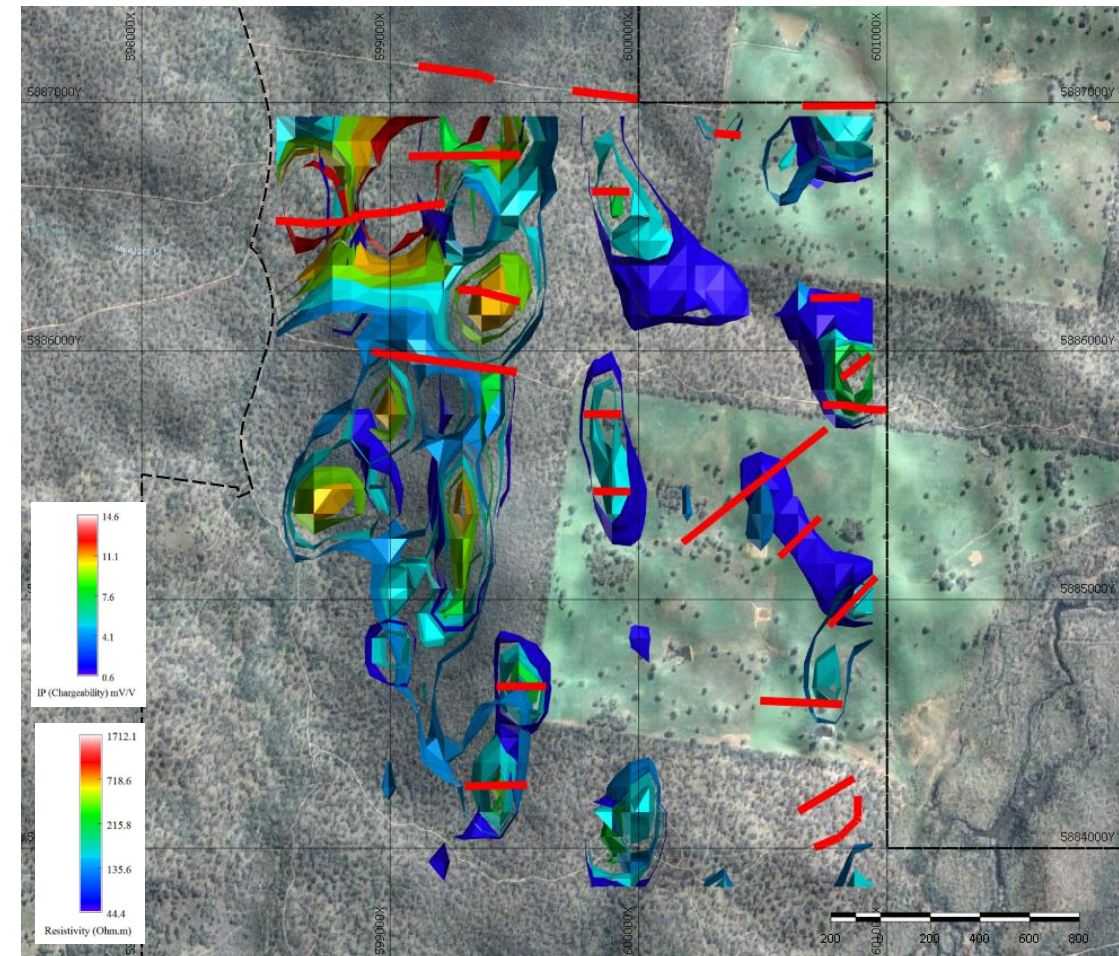
4,000m Air-Core drilling to test a series of geophysical targets generated by recent IP/Resistivity and Gravity geophysical surveys has commenced

Air-Core drilling is being utilised to test geological and geochemical signatures of geophysical targets across the Eclipse Basin which is known to host VHMS mineralisation with potential for Porphyry mineralisation

Drilling is expected to continue for approximately 3 weeks, with first geochemical results available early in the new year

Diamond drilling to commence early in 2022

Map shows planned drilling traverse lines across various IP, Resistivity and Gravity features. Only IP and Resistivity are shown in the image. Drill traverses as thick red lines. Grid coordinate system is GDA94 MGA54



See ASX announcement dated 23 November 2021

Copper & Zinc Growth Thematic



Zinc

Green energy transition to enhance Zinc demand

- Base Case: **2x by 2040** / High Case: **5x by 2040***

Zinc is the fourth most consumed metal globally. **Critical for, renewables, batteries and agriculture**

Zinc recently **added to the US Critical Minerals** List 2021

Global stimulus packages focused on infrastructure will benefit zinc

Recent price movement reflects the markets appreciation of the growth thematic

Copper

Green energy transition to enhance Copper demand

- Base Case: **2x by 2040** / High Case: **4x by 2040***

Demand supported by global decarbonisation focus, with copper playing a critical role in future technologies

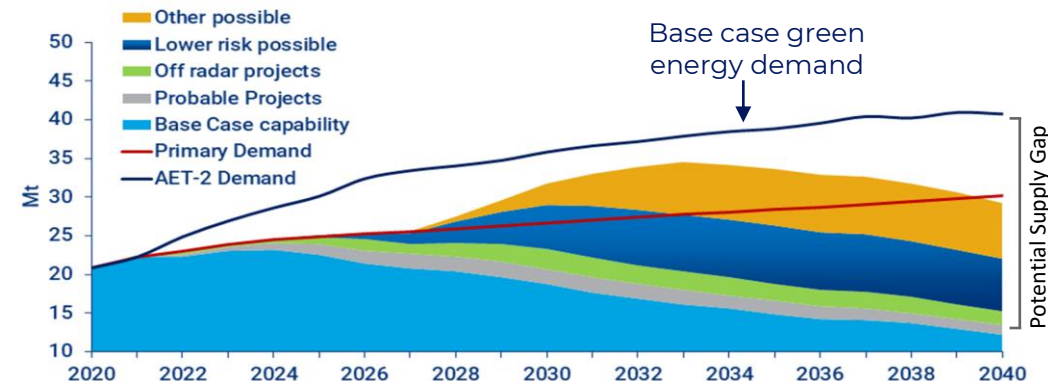
Impending demand/supply imbalance to underpin strong copper pricing going forward

Supply constrained due to decreasing grades at major mines and minimal greenfield discoveries

Copper & Zinc – 12 Month LME Pricing (US\$)



Copper Demand vs Supply Potential



*Source: Woods Mackenzie: Harnessing the sun and opportunities for base metals demand presentation

Source: Woods Mackenzie: Will a lack of supply growth come back to bite the copper industry?

Clean Tech Copper Thematic



Electric Vehicles

- An EV requires 5x the amount of Cu than a internal combustion vehicle
- The cabling for EV charging stations contains up to 25kg of Cu
- Cu is contained in the battery and motor

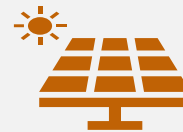
Copper Demand

2.6Mt – 3.2Mt

in 2030

40%

of the green copper demand



Solar Technology

- Cu is critical for efficiency and performance of solar panels
- **4.6t of Cu are required per MW** in a solar power system
- Cu is contained in interconnectors, wiring and investors

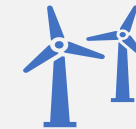
Copper Demand

1.6Mt – 3.3Mt

in 2030

25%

of the green copper demand



Wind Farms

- A 3 MW wind turbine contains up to **4.7t of Cu**
- Offshore projects to require twice as much Cu than onshore
- Cu is contained in cables, generators and transformers

Copper Demand

1.3Mt – 2.1Mt

in 2030

20%

of the green copper demand

Mitre Hill Project



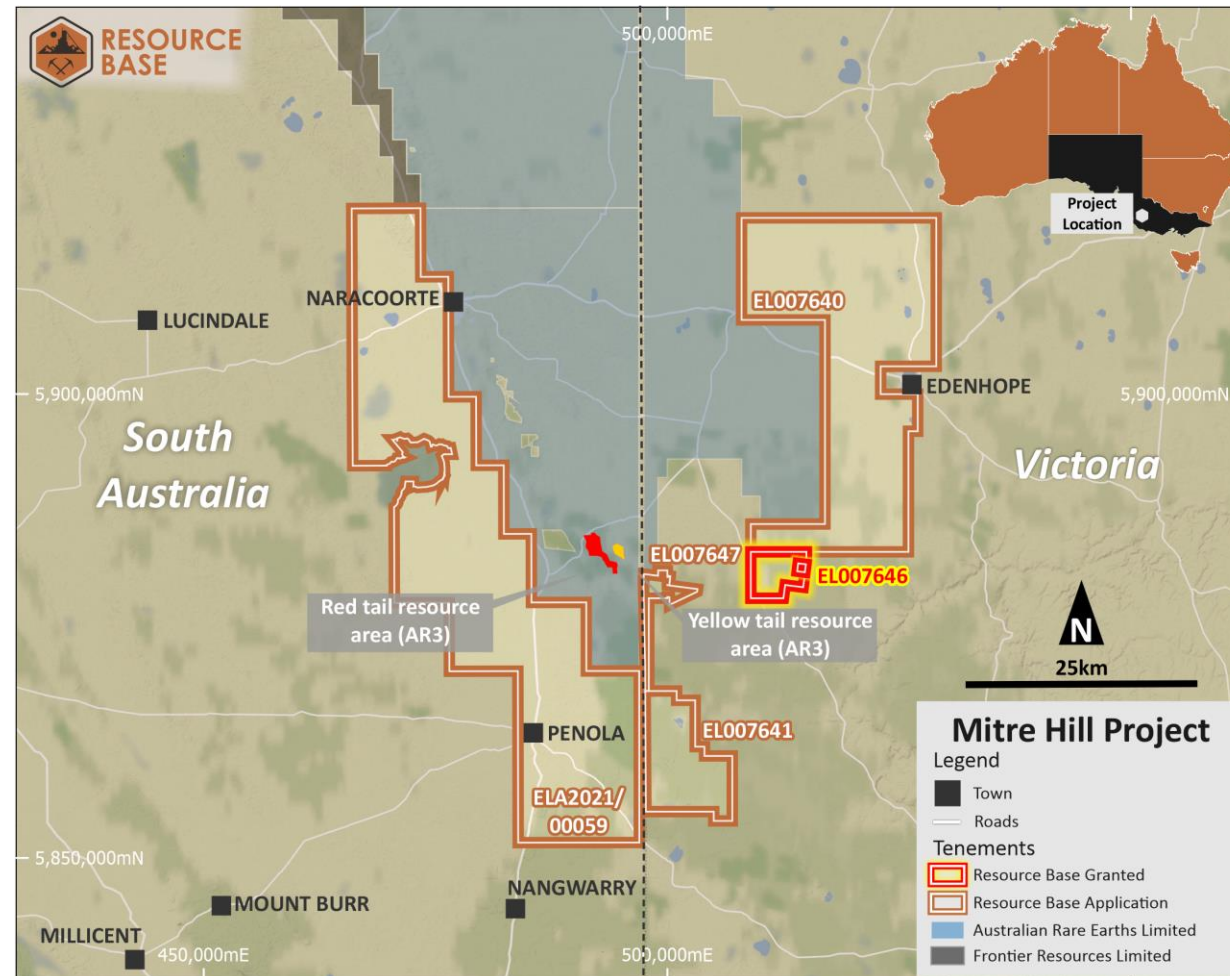
Mitre Hill Project



The Applications are located on either side of Australian Rare Earths' (ASX:AR3) Red Tail and Yellow Tail deposits with a JORC 2021 Inferred Mineral Resource of 39.9Mt @ 725ppm Total Rare Earth Oxide (TREO)^{1,2}

5 strategic Exploration Licence Applications over ground located within the Murray Basin in Victoria and South Australia, prospective for ionic clay hosted Rare Earth Element (REE) deposits

A low-cost exploration and drilling program planned to investigate areas prospective for shallow clay hosted rare earth mineralisation



The largest and most prospective Application, runs approximately in a line, covering over 40km of strike length, from the towns of Naracoorte and Penola in South Australia

The main economic target is ionic clay hosted Rare Earth deposits, with possible economic concentrations of Heavy Rare Earths considered strategically important given global supply modelling

¹ Refer to Australian Rare Earths Limited Prospectus dated 7 May 2021.

² These results do not guarantee the same or similar levels of success on the Mitre Hill Project tenements

Rare Earth Thematic



Strong Rare Earth Thematic Tailwinds



REEs are critical for 'green technologies', underpinning significant anticipated growth



The supply of rare earths have been identified by Western Governments as being at 'high risk' of impeding future economic development



REEs have been designated as critical minerals by USGS, IEA, EU and Australia

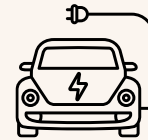


Geopolitical tensions with China, the largest supplier of REEs, continue to grow



There are currently no substitutes for REEs in the majority of their applications

What are rare earth elements used for?



EV
Motors



Wind
Turbines



Automotive
Components



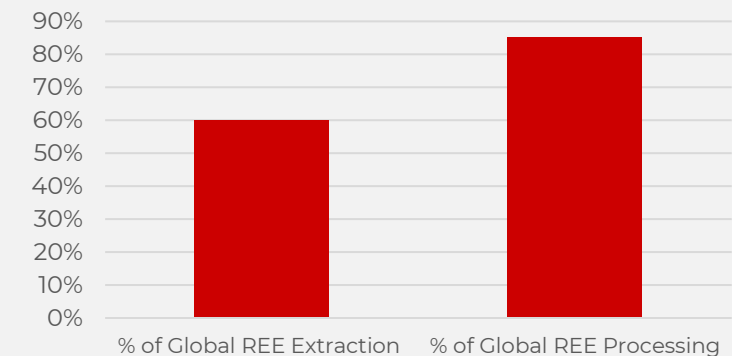
Industrial
Electronics



Electronics &
Appliances

China's Control of Global REE Supply

China's dominance and control of REE's presents a significant supply issue of Western Nations



Source: IAE Report: The Role of Critical Minerals in Clean Energy Transitions

Rare Earth Demand

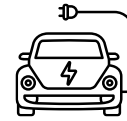


The rare earth elements are a set of 17 metallic elements. These include 15 lanthanides plus scandium and yttrium. **These elements are critical for the performance of high-tech applications**

- Demand for **Neodymium Iron Boron (NdFeB) permanent magnets anticipated to increase from 200ktpa in 2021 to 400ktpa in 2030¹** driven from 'green demand' specifically, EVs and wind turbines.
- RBX is also anticipating the presence of Praseodymium (Pr), Neodymium (Nd), Terbium (Tb), and Dysprosium (Dy), which are critical for high-tech applications.

REE Shortage in the United States²

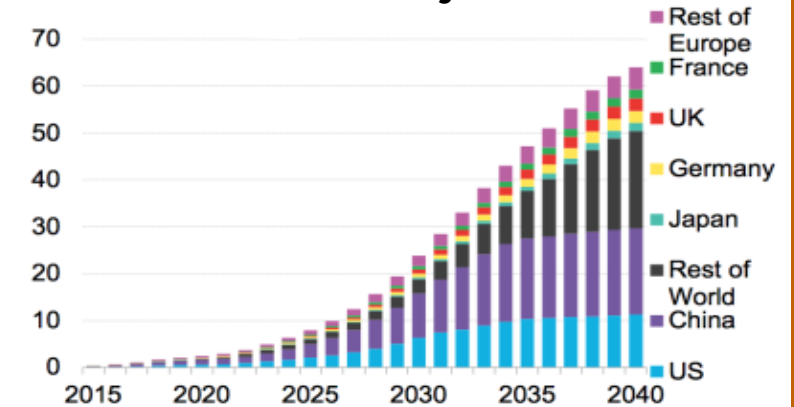
- It is estimated the United States needs 10 times the amount of rare earth metals it currently has to meet Biden's 2030 EV goals.
- High estimates suggest the US needs 20 to 25 times more to meet the burgeoning needs of the green economy — and the military — as they increase investment in wind power, electric vehicles, and even cell phones to the year 2050.



Electric Vehicles

Each electric vehicle require **1-2kg of NdFeB**, for the motor and electronics

Annual EV Sales by Market



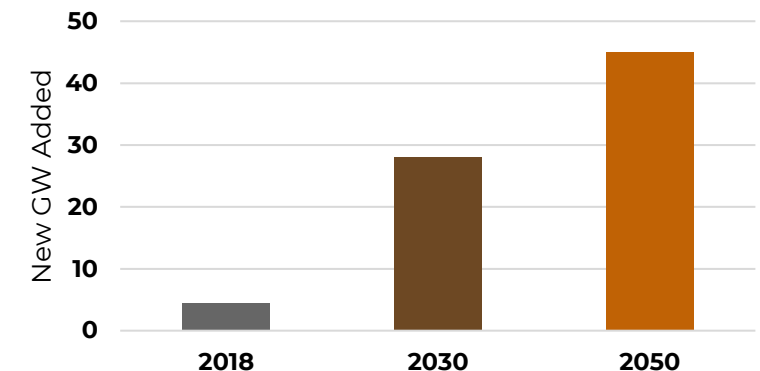
Source: Bloomberg New Energy Finance



Wind Turbines

Wind Turbines require up to **600 tonnes of NdFeB** per gigawatt

Wind Power - New GW P.A³



Road Map

Indicative Milestones

Black Range Project

Mitre Hill Project



Oct 2021

- Initial Geophysics and Gravity Survey

Nov 2021

- Investigative Shallow Air Core Drilling

Dec 2021

- Investigative Shallow Air Core Drilling

Jan 2022

- Field Geological Reconnaissance Works

Jan 2022

- Assembly of Geological Database

Feb 2022

- Diamond Drilling

Feb/Mar 2022

- Sampling of Historic Drill Core

Mar 2022

- Air Core or Auger Drilling

- *Confirm bedrock geology hidden below shallow transported cover and Grampians Sandstone units.*
- *Test for the presence of slight geochemical anomalies over geophysical targets.*
- *Provides vital geological and mineralogical data for the diamond drilling program.*





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Tenements



Victoria Tenements	Application Date	Tenement Size (km2)	Date Granted
EL007640	23.07.2021	490	
EL007641	11.06.2021	103	
EL007646	22.06.2021	28	08.11.2021
EL007647	11.06.2021	30	
South Australia Tenement	Application Date		
ELA 2021/00059	28.05.2021	810	