

# HANNANS

## AGM Presentation

[www.hannans.com](http://www.hannans.com)

ASX:HNR

29 November 2022

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# About Hannans

Our vision is to sustainably produce metals for society in Europe.

We aim to achieve this vision by recycling lithium batteries – shredding, sorting and refining active battery components into battery grade chemicals for sale to lithium battery precursor manufacturers.

We aim to become an important part of the European lithium battery supply chain and the circular economy.

**Compelling Reasons  
to Recycle  
Lithium Batteries  
from Electric Vehicles in the  
European Union (EU)**

# EU aiming for net-zero greenhouse gas emissions by 2050

Electric vehicles (**EV**) do not emit greenhouse gas emissions.



The screenshot shows the top navigation bar of the European Commission website. It includes the EU flag, the text 'An official EU website', the European Commission logo, and language options for 'English' and 'Search'. Below this is a blue header for 'Climate Action' with a 'Menu' icon. The breadcrumb trail reads: 'European Commission > ... > EU Action > Climate strategies & targets > 2050 long-term strategy'. The main heading is '2050 long-term strategy'. The text below states: 'The EU aims to be climate-neutral by 2050 – an economy with net-zero greenhouse gas emissions. This objective is at the heart of the [European Green Deal](#) and in line with the EU's commitment to global climate action under the [Paris Agreement](#).' A second paragraph begins: 'The transition to a climate-neutral society is both an urgent challenge and an opportunity to build a better future for all.'

Source: [https://climate.ec.europa.eu/eu-action/climate-strategies-targets/2050-long-term-strategy\\_en](https://climate.ec.europa.eu/eu-action/climate-strategies-targets/2050-long-term-strategy_en)

# EU to end sale of combustion engines by 2035



The screenshot shows the ABC News website interface. At the top, there's a navigation bar with the ABC NEWS logo, a location selector for Perth (21°C Now, Feels like 19°), a search icon, and a Log In button. Below this is a secondary navigation bar with categories: Just In, Watch Live, Coronavirus, Politics, World, Business, Analysis, Sport, and More. The main headline reads: "European Union bans sale of petrol and diesel cars from 2035 to boost electric vehicle uptake". Below the headline, it says "Posted Sat 29 Oct 2022 at 11:11am". The main image is a white silhouette of a car with a charging cable plugged into it, set against a green, cracked, textured background. Below the image, there is a caption: "Many European car manufacturers have announced investments in electrification ahead of the EU agreement. (ABC News: Elizabeth Pickering)".

ABC NEWS

Perth  
Change location

21°C Now  
Feels like 19°

Log In

Just In Watch Live Coronavirus Politics World Business Analysis Sport More

## European Union bans sale of petrol and diesel cars from 2035 to boost electric vehicle uptake

Posted Sat 29 Oct 2022 at 11:11am



Many European car manufacturers have announced investments in electrification ahead of the EU agreement. (ABC News: Elizabeth Pickering)

"The European Union has struck a deal on a law to effectively ban the sale of new petrol and diesel cars from 2035, aiming to speed up the switch to electric vehicles and combat climate change."

<https://www.abc.net.au/news/2022-10-29/eu-ban-new-fossil-fuel-cars-boost-ev-uptake/101593696>

# European Critical Raw Materials Act



An official EU website

 European Commission | English EN

Statement | 14 September 2022 | Brussels


## Critical Raw Materials Act: securing the new gas & oil at the heart of our economy | Blog of Commissioner Thierry Breton

*“Lithium and rare earths will soon be more important*

“Lithium and rare earths will soon be more important than oil and gas. We will identify strategic projects all along the supply chain, from extraction to refining, from processing to **recycling**. This is why today I am announcing a European Critical Raw Materials Act.” - *European Commission President von der Leyen*

Source: [https://ec.europa.eu/commission/presscorner/detail/en/STATEMENT\\_22\\_5523](https://ec.europa.eu/commission/presscorner/detail/en/STATEMENT_22_5523)

# Europe Set For Battery Supply Shortage



**BENCHMARK**  
MINERAL  
INTELLIGENCE

MENU

**EUROPE SET FOR BATTERY  
SUPPLY SHORTAGE THIS  
DECADE AS US, ASIA  
EXPAND PRODUCTION**

20th October 2022 📁 Batteries

"The region's supply deficit is set to grow from a 66 GWh in 2022, to almost 270 GWh deficit in 2030, according. The data highlights how Europe needs to accelerate the build-out of a battery supply chain, as the US and China rapidly expand capacity to meet their own demand." - *Benchmark Mineral Intelligence*

Source: <https://www.benchmarkminerals.com/membership/europe-set-for-battery-supply-shortage-this-decade-as-us-asia-expand-production/>



# Auto Recyclers Changing The Way They Do Business



## TRANSITIONING FROM ICE TO EV IMPACTS RECYCLERS

Automotive Front Page Batteries Alternative Fuels

by MAURA KELLER

New technologies and innovative products can keep any industry fresh. And the innovation and subsequent influx of electric vehicles (EVs) into the country's transportation market – albeit slow – is no exception.



"While recyclers – both large and small – are continually enhancing and expanding their products, processes and automotive recycling know-how, they are also aware that the transition from internal combustion engines (ICE) to EVs may change the way they do business."

[Source: Transitioning from ICE to EV impacts recyclers - American Recycler News, Inc.](#)

# EU Agrees Recycled Content Target For Batteries

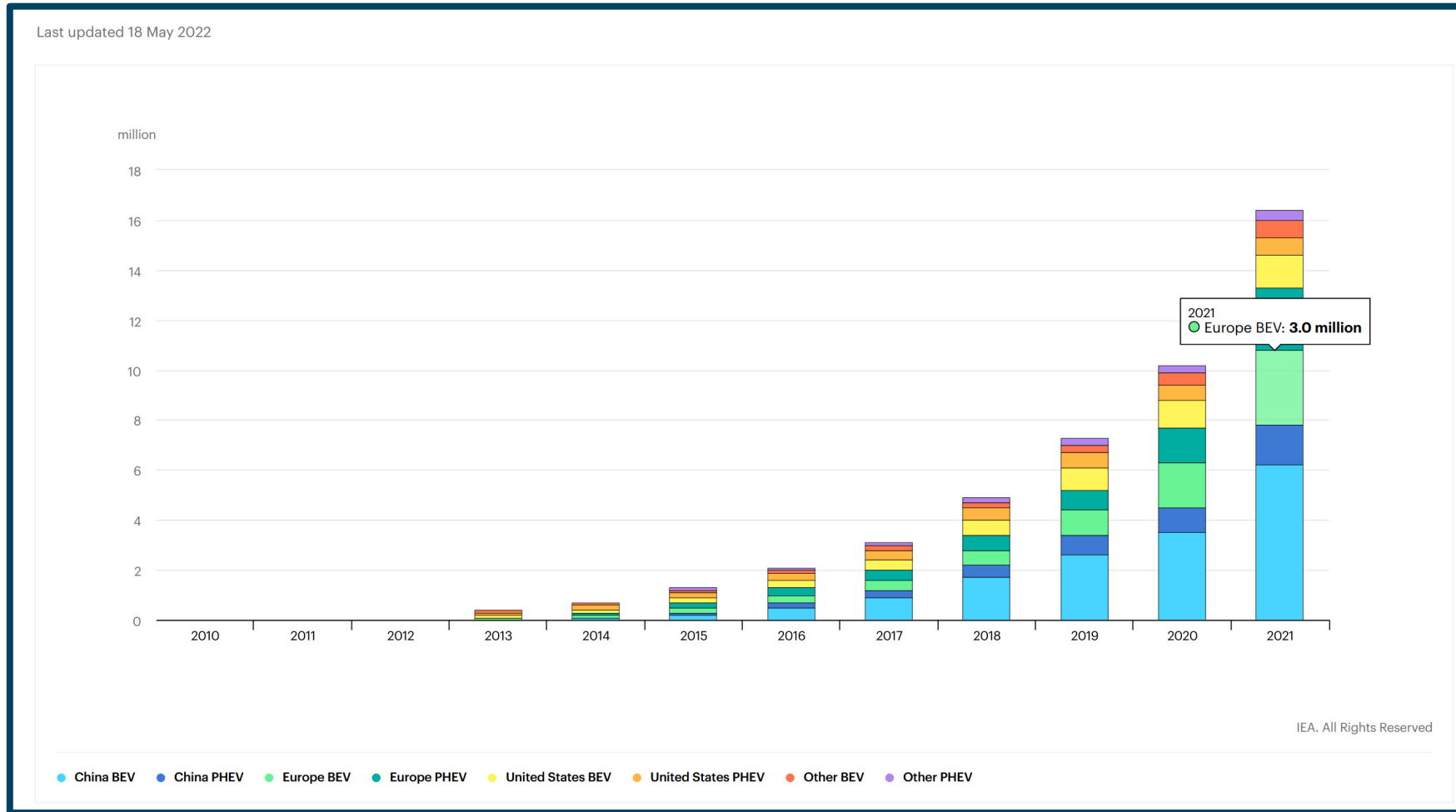


The screenshot shows a news article from MRW. The header includes the MRW logo and a user profile icon. The main headline is "EU agrees recycled content target for batteries". Below the headline, it says "11 MARCH, 2022 | BY WILL HATCHETT". There are social media sharing icons for Twitter, LinkedIn, and Facebook, and a "COMMENT" button with a speech bubble icon. The article text begins with "The European Parliament has voted to impose mandatory recycled content targets for the lithium, cobalt, nickel and lead in lithium-ion batteries." followed by a paragraph: "The Parliament was considering an amendment to the Battery Regulation drawn up by the ENVI committee, which advises it." and another paragraph: "The amendments have been designed in line with the EU's Green Deal. If approved, they will make lithium-ion batteries, now used in most electronic devices, easier to use and recycle. Current rules, from the Battery Directive 2006, were based on previous battery technology, before rechargeable, embedded batteries became widespread."

"The European Parliament has voted to impose mandatory recycled content targets for the lithium, cobalt, nickel and lead in lithium-ion batteries."

<https://www.mrw.co.uk/news/eu-moves-closer-to-circular-battery-economy-11-03-2022/>

# EU is second largest EV market in the world



Source: <https://www.iea.org/data-and-statistics/charts/global-electric-car-stock-2010-2021>

# European Commission – batteries must be recycled



"All industrial, automotive or electric vehicle batteries have to be collected in full. All collected batteries have to be recycled and high levels of recovery have to be achieved, in particular of valuable materials such as cobalt, lithium, nickel..." *European Commission, "Green Deal: Sustainable batteries for a circular and climate neutral economy"*

Source: [https://ec.europa.eu/commission/presscorner/detail/en/ip\\_20\\_2312](https://ec.europa.eu/commission/presscorner/detail/en/ip_20_2312)

# Compelling Reasons to own Hannans

# Proven, Safe and Scalable Technology



Hannans has rights (via licensing arrangements) to commercialise a lithium battery recycling technology developed by Neometals Ltd (ASX:NMT)<sup>1</sup>. Neometals filed a patent application for its technology in 2018 and since that time they have entered a joint venture arrangement with German engineering group **SMS group** which has led to further agreements with German automotive company **Mercedes-Benz**, North American steel company **Stelco** and Japanese trading company **Itochu**.<sup>2</sup>

Neometals Investments Pty Ltd is Hannans largest shareholder (26.09%).

Note: The shredding and sorting facility shown (left) is owned by Primobius, a joint venture between Neometals and SMS group. It is not owned by Hannans.

<sup>1</sup> Comprising (1) exclusive rights in Denmark, Finland, Norway and Sweden via a sub-licence from LiB Recycling Pty Ltd, (2) exclusive rights in South-Eastern Europe (Albania, Bulgaria, Bosnia and Herzegovina, Croatia, Greece, Romania, Serbia, Slovakia and Slovenia) via a licence from Neometals Ltd subsidiary company ACN 630 589 507 Pty Ltd (ACN) and (3) non-exclusive rights in the United Kingdom and Republic of Ireland via a licence with ACN. Refer to Hannans Ltd announcements on 1 February 2022 and 27 July 2022 for further details.

<sup>2</sup> Refer Neometals Ltd ASX releases dated 31 July 2020, 5 March 2021, 31 December 2021, 13 May 2022 and 25 November 2022.

# Extensive European Coverage



\* Yellow stars represent countries with existing relationships

- > Hannans commercialisation licenses cover a significant number of Territories in Europe.
- > Exclusive and 100% rights to Italy, Greece and the South-Eastern Europe. Non-exclusive and 100% rights to UK and Ireland.\*\* Exclusive and 50% rights to Nordic region.#
- > Hannans has developed several relationships in the relevant Territories. Each relationship is unique and typically they have taken several years to develop.
- > Hannans must convert strategic relationships in UK, Ireland, the Nordic region, Italy and South-Eastern Europe into binding agreements securing supply of lithium-ion battery feedstock.

\*\* Refer Prospectus lodged with Prospectus dated 14 October 2022 sections 9.1 and 9.2.

# 50% rights retained by Critical Metals Ltd, [www.criticalmetals.eu](http://www.criticalmetals.eu)

## New Directors\* with European Expertise



**Mr Andrew Umbers** - Proposed Non-Executive Director (nominated by Neometals Ltd). Resides in London, UK. Formerly a Director at Barclays De Zoete Wedd, Managing Director at Credit Suisse, CEO at Evolution plc and Director of European Equities of Credit Suisse. Has been responsible for advising on the listing and financing of approximately 100 companies on European stock markets. Former Chairman of Leeds United Football Club.



**Mr Mark Sumich** – Proposed Non-Executive Director (nominated by Greenhouse Investments Ltd). Resides in Perth, Australia. Has held Chair and Managing Director roles in ASX-listed companies in the IT, technology and resources sectors, raised over A\$100m in C-level roles, co-founded two ASX-listed entities and has significant international business experience in Europe, Africa and China. Previously employed by Clayton Utz and Price Waterhouse Coopers.

\*Jonathan Murray will continue as Non-Executive Chair. The appointment of Mr Umbers and Mr Sumich is conditional on the reinstatement of Hannans to trading on ASX, anticipated 8 December 2022. The remaining existing Directors and Company Secretary will resign immediately prior to reinstatement of trading on ASX anticipated 8 December 2022. Mindy Ku will be appointed Company Secretary on reinstatement to trading.



# European Recycling Relationships



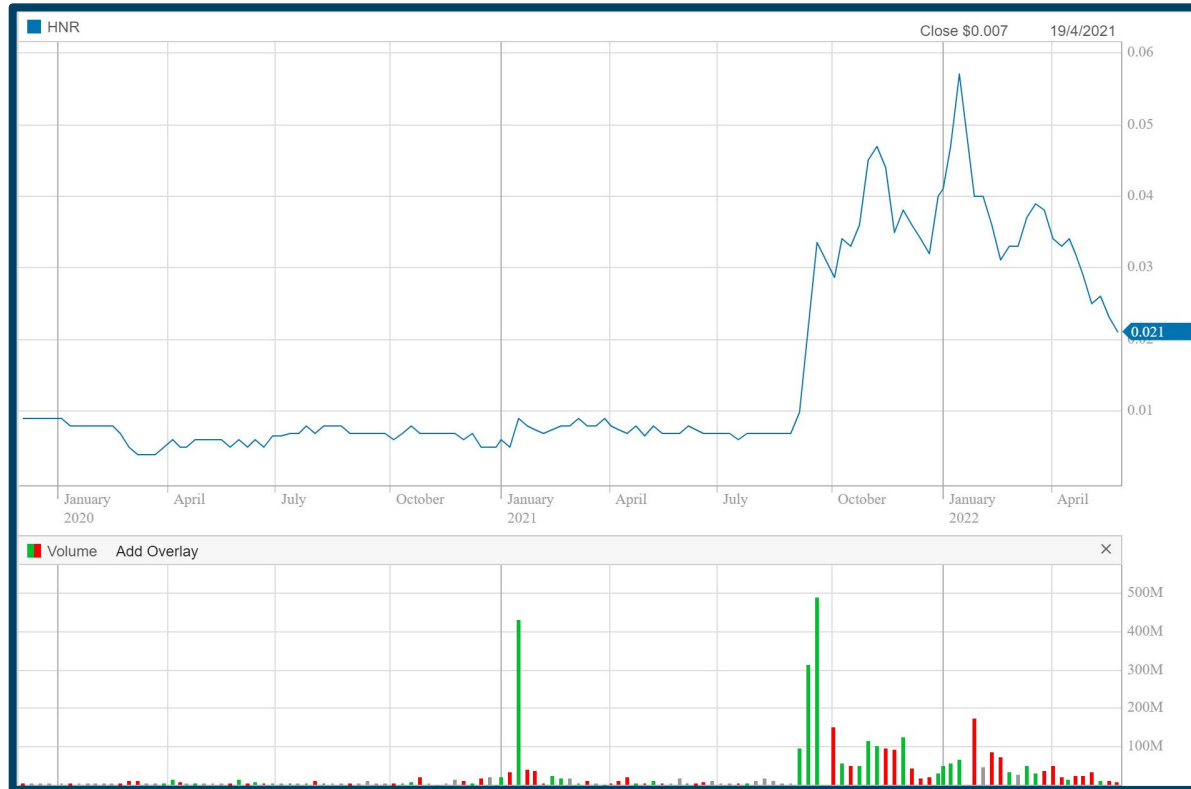
- > Michael O'Leary-Collins, representing Hannans second largest shareholder resides in Zagreb, Croatia. He will be responsible for business development activities in Europe.
- > Michael is a law graduate from Bond University, Queensland and has a background in technology commercialisation in Europe.
- > Hannans short term focus is converting existing relationships in UK, Ireland, the Nordic region, Italy and South-Eastern Europe into binding long term agreements securing supply of lithium-ion battery feedstock.
- > Hannans aims to secure at least one such agreement during Q1, 2023.

# Well Supported by Technology Licensor

Rank	Name	Number of Shares	%
1	Neometals Investments Pty Ltd	879,812,014	26.09
2	Greenhouse Investments Limited	647,500,653	19.20
3	Citicorp Nominees Pty Limited	194,575,844	5.77
4	MCA Nominees Pty Ltd	84,601,689	2.51
5	Zero Nominees Pty Ltd	60,000,000	1.78
	Remainder	1,505,615,262	44.65
	Grand total	3,372,105,462	100.00

Range	Total Holders	Units	%
1 – 1,000	139	31,109	0.00
1,001 – 5,000	196	658,640	0.02
5,001 – 10,000	176	1,504,137	0.04
10,001 – 100,000	2,358	106,245,259	3.15
100,001 – 9,999,999,999	1,840	3,263,666,317	96.79
<b>Total</b>	4,709	3,372,105,462	100.00

# Well Funded to Initiate Strategy



Source: [www.comsec.com.au](http://www.comsec.com.au)

- > Cash: circa A\$5.0M
- > Debt: nil
- > Technology R&D costs: nil
- > Technology royalty: 10% of gross revenue
- > Market capitalisation: A\$70.8M
- > Reinstatement anticipated 8 December 2022

# Contact Details

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