



**Circularity of batteries and trade-related challenges and opportunities** 

TESSD working group meeting on circular economy 17 March 2022, Geneva WHO WE ARE

# At a glance

As one of the world's largest natural resource companies, we have been transforming the global commodities industry for nearly half a century, acquiring industrial assets with histories going back even further.

### Two business segments



Industrial business



### Where we operate

Head Office Industrial assets Marketing office/other



### One of the world's largest natural resource companies

35

countries

6 continents c135,000 employees and contractors



GLENCORE

# Key facts and figures

- One of the largest global diversified natural resource companies and a major producer and marketer of more than 60 responsibly-sourced commodities. We produce, process, recycle, source, market and distribute the commodities that enable decarbonisation while meeting the energy needs of today
- More than 40 offices in over 35 countries in both established and emerging regions
- Customers are industrial consumers in the automotive, steel, power generation, battery
  manufacturing and oil sectors. We also provide financing, logistics and other services to
  producers and consumers of commodities
- Listed on London and Johannesburg Stock Exchanges.
- Current rating BBB+ (Positive)/Baa1 (Stable)

### **Metals & Minerals** Energy (Cu ( Co` Cobalt Copper Coal Ē Ni (Zn` Zinc/Lead Nickel Oil ( AI ) Fe Ferroalloys Aluminium





### Marketing

### Key competitive strengths

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Iron Ore

- A major supplier of energy and transition metals and solutions that support the journey to Net zero emissions
- Our asset portfolio is populated with large, long-life and low-carbon advantaged commodities
- Unique capability to supply the sustainable commodities of the future
- · Highly resilient and cash generative business model

### Glencore



## GLENCORE

# Our business model

### Assets and natural resources

- Many long-life and highquality assets
- Value over volume approach
- Embedded network and knowledge in marketing operations

### Our people and partners

- Establishing long-term relationships with customers and suppliers
- Major employer with c.135,000 people globally

### **Financial discipline**

- Capital deployed in disciplined manner
- Marketing hedges out the majority of absolute price risk by volume-driven activities and value-added commodity chain

### Unique market knowledge

• Finding value at every stage in the commodity chain



- Unique position in producing, recycling, sourcing, marketing and distributing the commodities that enable the transition
- Portfolio of critical minerals and energy necessary to meet the needs of today and tomorrow
- Leading CO2e emissions reduction targets for scope 1+2+3 emissions to 2035 with net zero ambition by 2050
- Significant pipeline of future critical mineral growth options
- Flexible business model that adapts quickly to changing conditions and is ideally positioned for the future

# Our diversity by geography, product and activity, maximises the value we create



We produce and market a diverse range of metals and minerals – such as cobalt, copper, ferroalloys, nickel and zinc – and also market aluminium and iron ore from third parties.





We are a major producer and marketer of coal, with mines in Australia, Africa and South America – while our oil business is one of the leading marketers of crude oil, refined products and natural gas.





We physically source commodities and products from our global supplier base – and sell them to customers all over the world.





We are a leading recycler of copper, nickel, zinc and precious metals, committed to producing the commodities the world needs to advance everyday life.

# Recycling

We are targeting a step change in our recycling capabilities over the next five years



Glencore is one of the world's largest recyclers of end-of-life electronics, batteries and battery metals

- Our significant portfolio of smelting and refining assets is designed to handle a wide range of complex feeds, allowing us to process recyclable materials at a significantly lower cost and overall carbon footprint<sup>(1).</sup>
- The goals of the Paris Agreement are best achieved through a circular economy.
- The volumes of commodities needed to decarbonise energy supply place a growing burden on finite raw materials.
- Narrowing the gap between global resource use and recycling is essential to minimise impacts on the world.

### Our recycling strategy

- We are targeting a step change in our recycling capabilities over the next five years through a larger global footprint/capacity in our core and new markets.
- We are working with industry and governments to improve circularity in electronics and batteries and have helped design and launch **Circular Electronics Partnership** (CEP).
- We are also testing new technologies to allow us to responsibly recycle more complex materials in a manner that is safe and sustainable.



## **Primary Supply**

- Still the most substantial source of key battery metals for the foreseeable future
- Can be blended with recycled supply to meet quality / chemistry requirements

### **Recycled Supply**

- Not enough to meet energy transition goals
- But critical to scale massively
- Variability inquantity
- Variability in quality / chemistry

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### **Glencore Edge**

- Effectively combine Primary and Recycled feeds (Ni, Co, Li)
- Meet quantity and quality requirements
- Minimum recycled content (growing over time)
- Potential localization benefits
- Lower carbon footprint

# Glencore is a key player in the global battery recycling market

Leveraging Glencore's low-risk assets while building the next generation platform



Existing asset base providing immediate access to high-yield recycling solutions



# **Global Battery Alliance – Battery Passport**

Glencore is proud to be part of the world's first battery passport proof of concept launched by the Global Battery Alliance



PROOF OF CONCEPT LAUNCH

### About the Battery Passport and the proof-of-concept pilots

On January 18<sup>th</sup>, at the Annual Meeting of the World Economic Forum in Davos, the Global Battery Alliance has officially <u>launched</u> the world's first battery passport proof-of-concept pilots. First <u>conceptualized</u> by the Global Battery Alliance in 2019, the launch builds on three years of pre-competitive multi-stakeholder collaboration across the battery value chain. This included the development of dedicated rulebooks to establish key sustainability performance indicators related to the battery carbon footprint and child labour and human rights due diligence as set out in the <u>Greenhouse Gas rulebook</u> and the <u>Child Labour</u> and <u>Human Rights</u> indices. While the launch of the proof-of-concept battery passport pilots represents a critical milestone and very proud achievement, the long-term objectives of the battery passport are explained in this video.

About the Human Rights Index and Child Labor Index About the Greenhouse Rulebook About the GBA Battery Passport Proof of Concept



We spearheaded the first pilot passport leveraging the **ReSource platform** in collaboration with Glencore's Kamoto Copper Company SA, LG Energy Solution and Tesla.

The **ESG performance** of mineral production as well as battery and vehicle manufacturing must be clearly communicated to our customers and other key stakeholders.

**Traceability** is key to this. It has always been possible to track mineral units back to origin and gather ESG information at each step, for example through chain of custody approaches.

**New technologies** offer us an unprecedented ability for traceability in the supply chain. We support the development of this through being one of the founders of the ReSource consortium – an end-to-end collaboration between major cobalt industry players working in the DRC to deploy various technologies.

The GBA's Battery Passport provides the **framework for a standardized approach** to collecting and reporting on ESG data specific to each battery.

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# **Circularity of batteries**

Trade-related challenges and opportunities

# Challenges

### Classification

- Basel Convention as reference point.
- Divergences exist at country-level particularly on definition, classification and distinction between hazardous waste, non-hazardous waste, and non-waste goods destined for reuse, failure analysis, repair and refurbishment.

### **Transaction costs**

- The nature of the costs include **licensing** for transporters, sending and receiving facilities, as well as storage and delay costs incurred as a result of **paperwork confusion** or **inconsistent understanding** of processes at the border.
- Indirect transaction costs involve administrative burden for obtaining **trade permits** (labour cost).

### Permitting costs

 PIC procedure largely paper-based and cumbersome and thus inefficient. PIC involves notification of export and written consent by importing and transit states, the use of transboundary movement documents and confirmation of disposal.

# Opportunities

### **Border measures**

- Need to **digitalise** and **automate** PIC notification procedures.
- **Regulatory cooperation** to implement fast-track or streamlined trade permit systems or pre-export verification.
- Developing better materials **traceability** throughout the supply and reverse supply chain (e.g. "battery passport")

### Internal measures and transparency

- Need to develop harmonized standards for handling electronic waste that are recognized and accepted by regulators internationally.
- Transparency on domestic requirements for waste classification and movement will help business to plan reverse supply chains
   – good example CPTPP that builds on the WTO TBT Agreement.

### **Policy action**

- Discussion within WTO on reverse supply chains for electronics, batteries. Outline best practice commitments, which reinforce market access obligations and support efforts at regulatory convergence.
- **Regulatory cooperation**: North Sea Resources Roundabout (NSSR) and EU's Waste Shipment Regulation (WSR).





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