

Nyrstar Resources for a Changing World

Building the Critical Minerals and Metals Narrative in a Volatile Geopolitical Environment

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About Nyrstar

- International producer of critical minerals and metals essential for a low carbon future
- Leading position in zinc and lead and employing approximately 4,000 people
- Nyrstar has mining, smelting and other operations located in Europe, the U.S. and Australia
- **Corporate Office** is based in Budel-Dorplein, the Netherlands
- Nyrstar's operating business is **wholly owned by Trafigura**, one of the world's leading independent commodity trading and supply chain logistics companies

Our European Operations are Fully Committed to a Resilient European Region

- Nyrstar Stolberg (Aachen area, Germany)
 - One of the **world's most advanced**, clean and energy efficient lead smelters
 - Lead and lead alloys, silver doré, sulphuric acid and copper by-products
- Budel (NL), Balen (BE) and Auby (FR) zinc smelters
 - Highly electrified with unique degree of process flexibility
 - Ready for the next step: Nyrstar 'Virtual Battery'







Lead and Zinc are Key Enablers for the Energy Transition, High Tech Applications and our Regional Security

- Secure supply chain with regional **raw material security**
- Enabling **EU electrification**, battery storage and low carbon goals
- Carriers for **minor**, **critical**, **strategic** minerals and metals
- Essential for high tech applications and EU security and defence









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The Opportunity: Industrial Metals are Carriers of Critical Minerals and Metals

- Nyrstar processes complex raw materials in Europe from all over the world
- In parallel with the primary production of zinc and lead, other metals are also recovered and refined
- Nyrstar is exploring opportunities to produce (additional) critical minerals and metals (such as Sb, Ga and Ge)









The Challenge: China has Significant Share of Refined Critical Metals Production

China has several strategies, significantly supporting its domestic smelting and refining, to meet demand for critical minerals and metals

- Industrial metals, China is short mine supply on shore but has built out substantial smelting capacity, pushing smelter industry globally in overcapacity and collapsing Treatment Charges
- Battery metals, where China doesn't have on shore, it has built smelting and refining offshore
- Minor metals, China is completely dominant in refining and is securing supply of industrial metals, as ores for these metals are carriers of minor metals





Source: Trafigura Research



Our proposition

Nyrstar has significant ambitions....

- To (further) increase the flexibility of our (Zn) production processes → Nyrstar virtual battery
- And add additional production capacity for critical minerals and metals → Antimony and Germanium for Europe

We need the 'Clean Industrial Deal' to compete with other regions and realize these ambitions

- **1.** A long term, stable and coordinated energy policy
- 2. An equal level playing field within Europe and with other global regions
- 3. Competitive energy costs (taxes / commodity- / grid costs) are crucial in order to enable investments
- 4. For Critical Raw Materials:
 - 1. 'Standard' trade remedies (e.g. antidumping) will not be effective
 - 2. China is not 'dumping', but is depleting raw materials from all over the world \rightarrow "reverse dumping"
 - 3. Some forms of direct subsidies / CFD's or price guarantees will be necessary









