

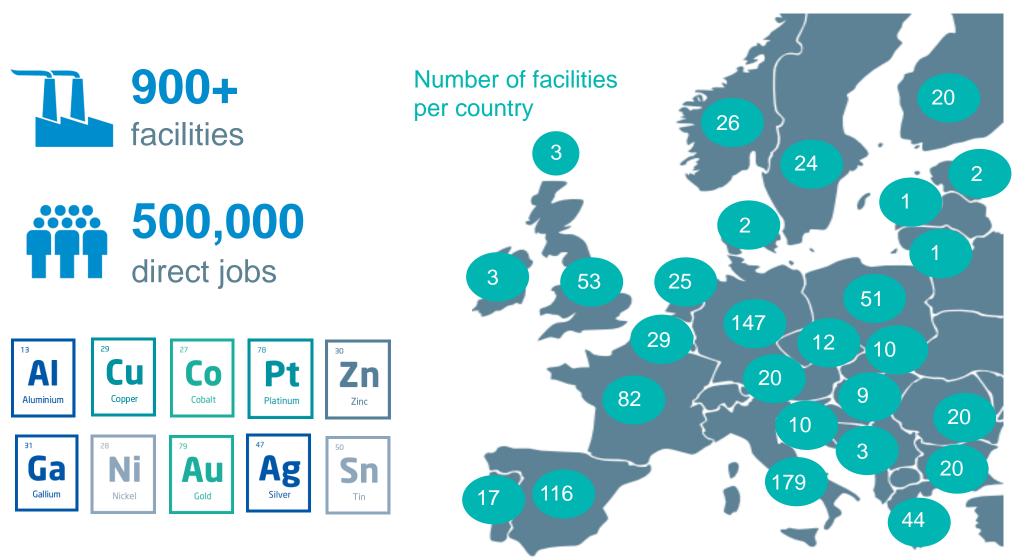


Raw Materials - The Basis for the Energy Transition and the Competitiveness of Europe's Industry James Watson, Director General

20/03/2025



## Who are we? A collective advocacy network for Europe's non-ferrous metals value chain



#### **Our Membership: Company Members across the full metals value** chain



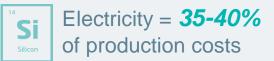
+ Commodities associations + National federations + Associate members

### **3 key facts about non-ferrous metals production in** Europe

## Electro-intensiveWe allOne of Europe's most<br/>electro-intensive<br/>industriesAluminium<br/>hourly cons<br/>profile in

AIElectricity = 38% ofProduction costs

Electricity = **40%** of production costs



# We are baseload consumers Aluminium smelter Vs. Aluminium smelter Wind hourly profile in a year a year

European production is being replaced by imports with higher carbon footprint



Tonnes of CO<sub>2</sub>\*\* China 20 Europe 7



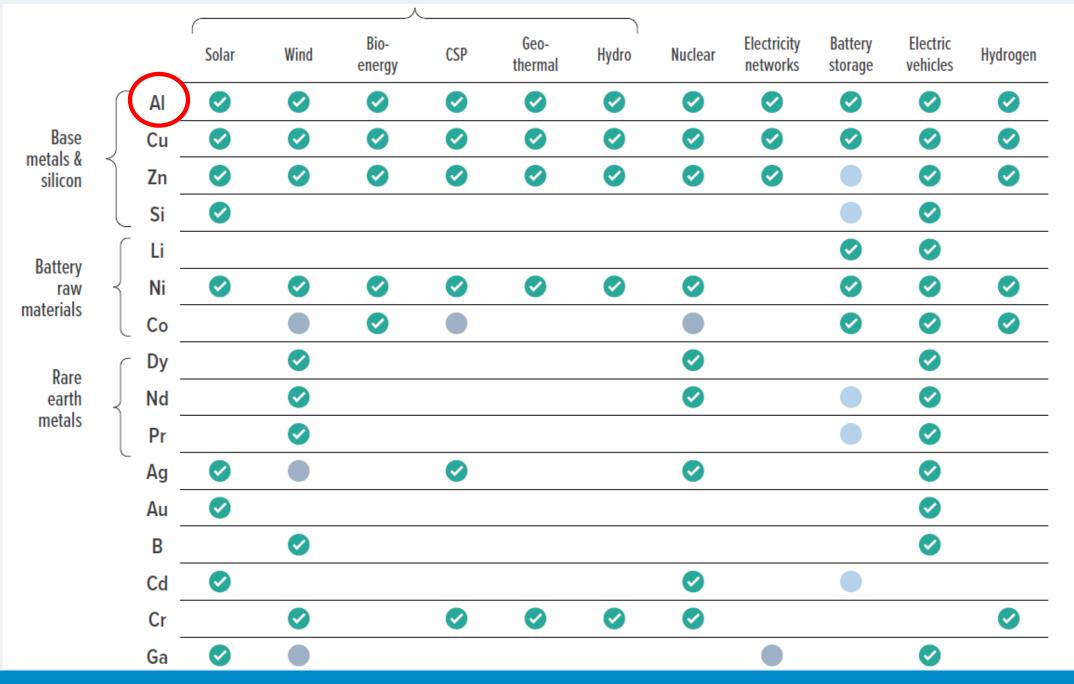
As price-takers, we cannot pass on any regulatory costs to the customer



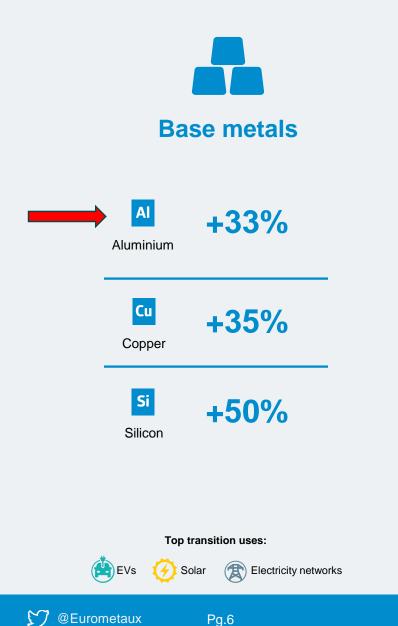


Metals priced globally by London Metals Exchange Electricity costs vary from country to country

Automatic competitive disadvantage on global market



#### **Europe's energy transition =** Massive increase in metals demand by 2050



|                      | Batte                | Battery materials |  |  |  |  |  |
|----------------------|----------------------|-------------------|--|--|--|--|--|
|                      | Ni<br>Nickel         | +103%             |  |  |  |  |  |
|                      | Co<br>Cobalt         | +331%             |  |  |  |  |  |
|                      | Li<br>Lithium        | +3,500%           |  |  |  |  |  |
| Manganese & Graphite |                      |                   |  |  |  |  |  |
|                      | Top transition uses: |                   |  |  |  |  |  |
|                      | EVs                  | Battery storage   |  |  |  |  |  |

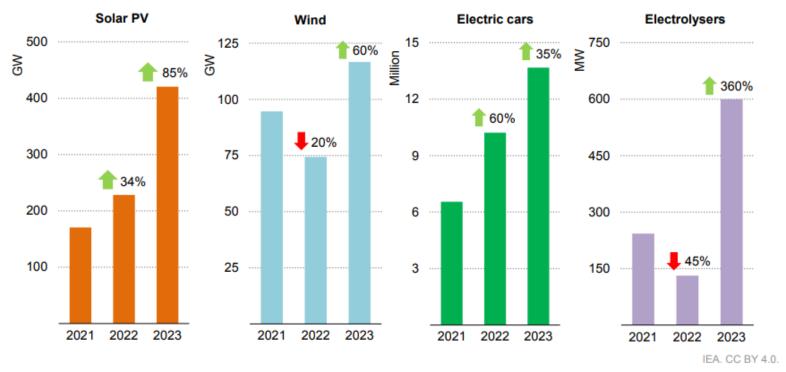
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## The energy transition is powered by metals – as demand for low carbon applications increases...

#### Global clean energy deployment climbed to new heights in 2023

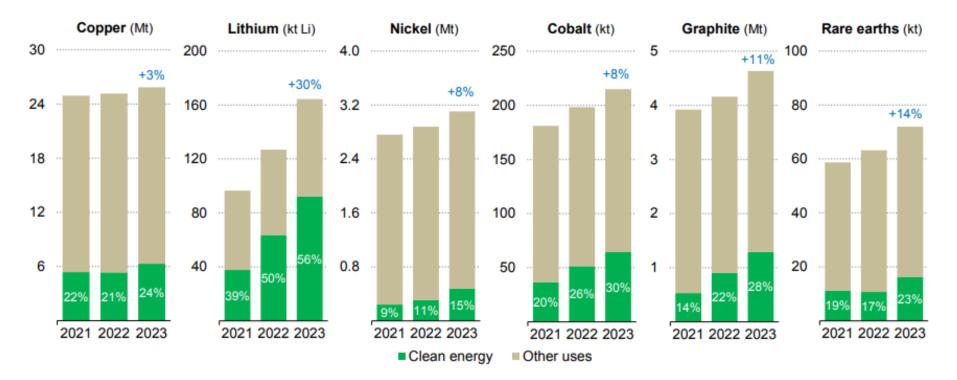


Annual capacity additions for selected clean energy technologies

Sources: IEA (2024), Clean Energy Market Monitor - March 2024, and IEA (2024), Global EV Outlook 2024.

#### ... so does the demand for metals

## Demand for key energy transition minerals continued to grow strongly in 2023, propelled by the expansion of clean energy technologies



Demand outlook for selected minerals, 2021-2023

IEA. CC BY 4.0.

Notes: Rare earths include the four magnet elements: neodymium, praseodymium, dysprosium and terbium. Demand for clean energy applications includes consumption for low-emissions power generation, EV and battery storage, grid networks and hydrogen technologies.

## In parallel, production in Europe is being curtailed rather than being reinforced...

## Slovalco will stop primary aluminium production

Hydro's majority owned Slovalco aluminium facility in Slovakia has decided to close the primary aluminium production at the plant. The closure will be completed by the end of September 2022.

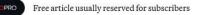


#### Europe's impossible choice: Which industries should survive the green transition?

One German aluminum factory decided to go green and close its smelter. The EU faces a similar choice, with Europe's future at stake.

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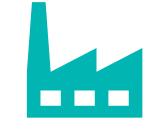






Critical Raw Materials Act: 2030 benchmarks for raw materials supply chain









The EU should extract at least **10%** of its strategic raw materials domestically The EU should process at least **40%** of its strategic raw materials domestically

The EU's recycling capacity should be able to produce at least **25%** of EU consumption for each strategic raw material The EU should not be dependent on one single third country for imports for more than 65% of imports of any strategic raw material

## **Base Metals & Silicon:** Existing EU capacity mostly already exceeds 2030 benchmarks

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2030 Euro             | ope supply proje          | Diversification          |                                  |                                      |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------|--------------------------|----------------------------------|--------------------------------------|--|--|
| CRITICAL<br>RAW<br>MATERIALS<br>ACT GOALS <del>)</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MINING<br>(>10% goal) | PROCESSING<br>(>40% GOAL) | RECYCLING<br>(>15% GOAL) | MINING<br>(<65% TOP<br>IMPORTER) | PROCESSING<br>(<65% TOP<br>IMPORTER) |  |  |
| Cu Copper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 40%                   | 85%                       | 55%                      | <b>20%</b> (Chile)               | 20% (Chile)                          |  |  |
| Zn Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 50%                   | 100%                      | 40%                      | <b>20%</b> (Peru)                | -                                    |  |  |
| Al Aluminium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3%                    | 43%                       | 45%                      | <b>65%</b> (Guinea)              | <b>20%</b> (Russia)                  |  |  |
| Si Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       | 73%                       | 4%*                      |                                  | <b>40%</b> (Brazil)                  |  |  |
| 50% $FELINE$ $F = 10%$ |                       |                           |                          |                                  |                                      |  |  |

## What we need to thrive: concrete policy measures to address the needs of the non-ferrous metal industry



An EU Energy Policy for Clean and Affordable Energy

An EU policy to foster global competitiveness and support investments in the transformation of our sector

Secure Access to Raw Materials from primary and secondary sources

An EU trade Policy that works for industrial resilience

An EU Social Policy for High Quality Industrial Jobs

#### Looking beyond our borders - Risks

EU Strategic Metals Dependencies

Foreign dominance in key strategic areas is already leading European sectors to supply crises and creating further risks in the next decade. E.g., China covers more than half of the global production of processed minerals and metals and is the major EU supplier of several critical raw materials 2

Protracted EU vulnerabilities, in the long run, could also give our competitors a huge advantage over supplies of many metals required for low-carbon applications, including batteries, hampering EU industrial capacity & the EU Green Deal



3

Europe should take action to secure its own long-term supply sources and refining capacity through domestic and global investment coupled with action to address trade distortions

#### Looking beyond our borders – Opportunities and actions

## Reduce strategic dependencies

## Safeguard industrial base

#### **EU-US relationship**

- Establish Raw Materials
   Partnerships
- Ensure access to new markets for metal
- Reduce **tariffs** at the border
- Safeguard the security of supply and developmental benefits

- Ensure strong trade defence
   measures and other trade
   tools (anti-coercion, foreign
   subsidies)
- Safeguard EU businesses from unfair practices of nonmarket economies (e.g. China).

- Re-assess the EU-US cooperation
- Continue talks on a Critical
   Minerals Agreement
- Try to use the Trade and Technology Council (TTC) to reduce trade tensions.



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