

Analysis & Research Critical Materials

July 2024



Critical Materials: Analytical highlights

CRM by substitutability and recycling rates



Source: TAC ECONOMICS, USGS, Royal Society of Chemistry

The critical materials listed at the top and right of the table demonstrate a high level of recyclability and a strong ability to be substituted by other metals, such as zinc.

In contrast, the materials positioned at the bottom left of the table are either not recyclable, not recyclable to a significant extent, or can only be substituted for other metals to a limited extent, as is the case with lithium.



Critical Materials: Analytical highlights



Reserve distribution versus import concentration

Bubble size: Top5 Producers (% total)

Source: TAC ECONOMICS, CEPII/BACI, Royal Society of Chemistry

This graph illustrates the balance of power between holders of critical materials reserves and the main importers/demanders.

It also highlights the absolute power of a monopoly supplier, as seen with palladium, and the influence of importers for a material that is not monopolized and can have diversified supply sources, as is the case with lithium.



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