

## Macro Roundup Article

**Headline:** [How to Avoid a Green-Metals Crunch](#)

**Article Link:** <https://www.economist.com/finance-and-economics/2023/09/11/how-to-avoid-a-green-metals-crunch>

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**Tweet:** Meeting decarbonization goals will require significant investments in mining and refining. Industry leaders estimate a copper supply gap of 2m-4m tonnes, 6-12% of demand by 2030.

**Summary:** By 2030 copper and nickel demand could rise by 50-70%, cobalt and neodymium by 150%, and graphite and lithium six- to seven-fold. All told, a carbon-neutral world in 2050 will need 35m tonnes of green metals a year, predicts the International Energy Agency. Industry oracles asked by The Economist predict copper-supply gaps of 2m-4m tonnes, or 6-12% of potential demand, by 2030. They also foresee a shortfall of lithium of 50,000-100,000 tonnes, a 2-4% deficit. Nickel and graphite—plentiful in theory—could cause problems because batteries require pure material. There are too few smelters to refine bauxite into aluminum. Outside China, next to no one produces neodymium.

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**Primary Topic:** Energy

**Topics:** Energy, Investment, News article, Productivity

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