

温馨提示：以下内容均为外文报告原文，请外语不好的同学谨慎打开。

消费电子，智能硬件，工业，农业，自动化，机器人，服务，教育……

INDUSTRIES & MARKETS

Strategic minerals worldwide

Table of Contents

01 Overview

Global critical minerals production share 2023, by majority producing country	
Global critical mineral mine production volume 2022, by leading owner country	
Global share of critical mineral production in politically unstable countries 2022	
M&A deal value of critical minerals from leading global mining companies 2019-2021	
Global critical minerals M&A deal value worldwide 2021, by target commodity	
Global volume of critical minerals in energy technologies 2021, by type	
End of life recycling rate of critical minerals globally, by energy technology	

02 Reserves

Global cobalt reserves 2010-2023	
Global cobalt reserves 2023, by country	
Global lithium reserves 2010-2023	
World lithium reserves 2023, by country	
Share of global lithium reserves 2023, by country	
Global tantalum reserves 2010-2023	
Global tantalum reserves 2023, by country	
Global tungsten reserves 2010-2023	
Global tungsten reserves 2023, by country	

03 Production

Global cobalt mine production 2010-2023	21
Global cobalt mine production 2023, by leading country	22
Share of global cobalt production 2023, by country	23
Global lithium mine production 2010-2023	24
Leading lithium producing countries worldwide 2023	25
Global tantalum mine production 2010-2023	26
Global tantalum mine production 2023, by country	27
Global tungsten production 2010-2023	28
Global tungsten production volume 2023, by country	29

04 Prices

Cobalt average spot price in the U.S. 2010-2023	31
Lithium carbonate price 2010-2023	32
Tantalum price 2012-2023	33
Global tungsten price 2018-2023	34

05 Outlook

Estimated global market value of selected critical materials 2027-2030	36
Global critical minerals production capacity share risk due to heat & drought 2050	37
Global trade value forecast of select mineral commodities 2019-2030	38
Global estimated demand for energy transition relevant metals 2030-2050	39

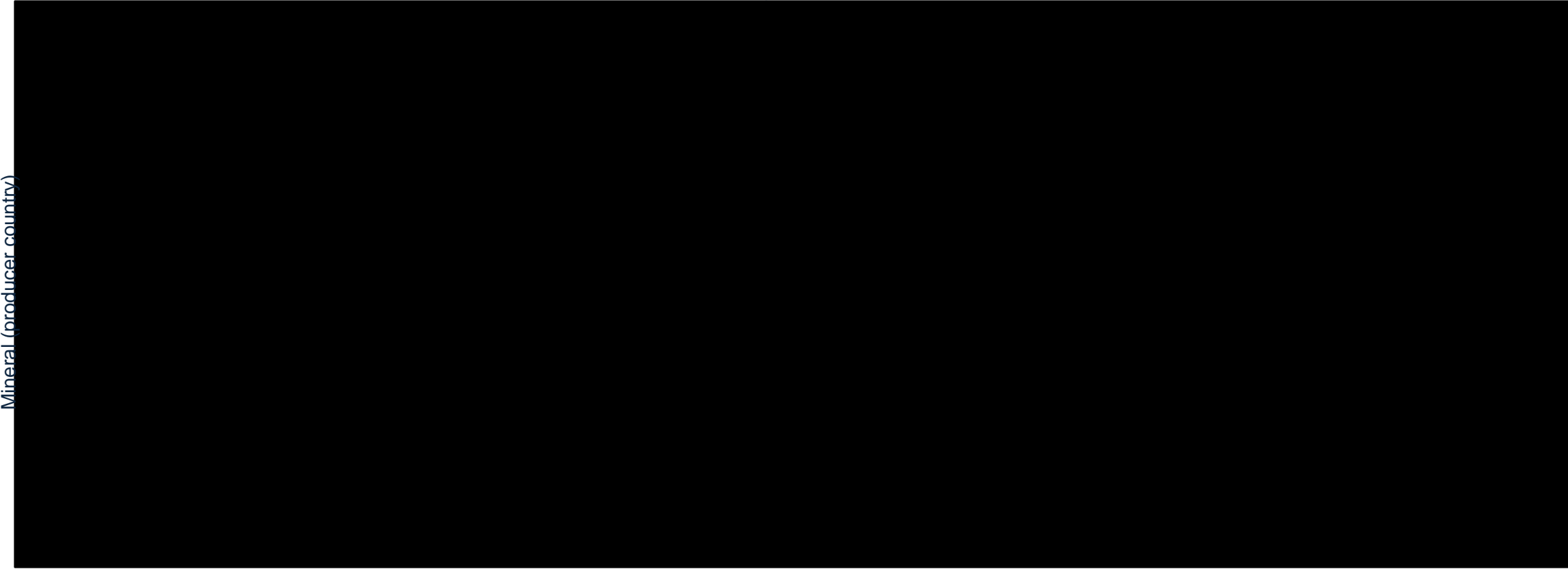
CHAPTER 01

Overview

Production share of critical minerals worldwide as of 2023, by majority producing country

Global critical minerals production share 2023, by majority producing country

Share of production

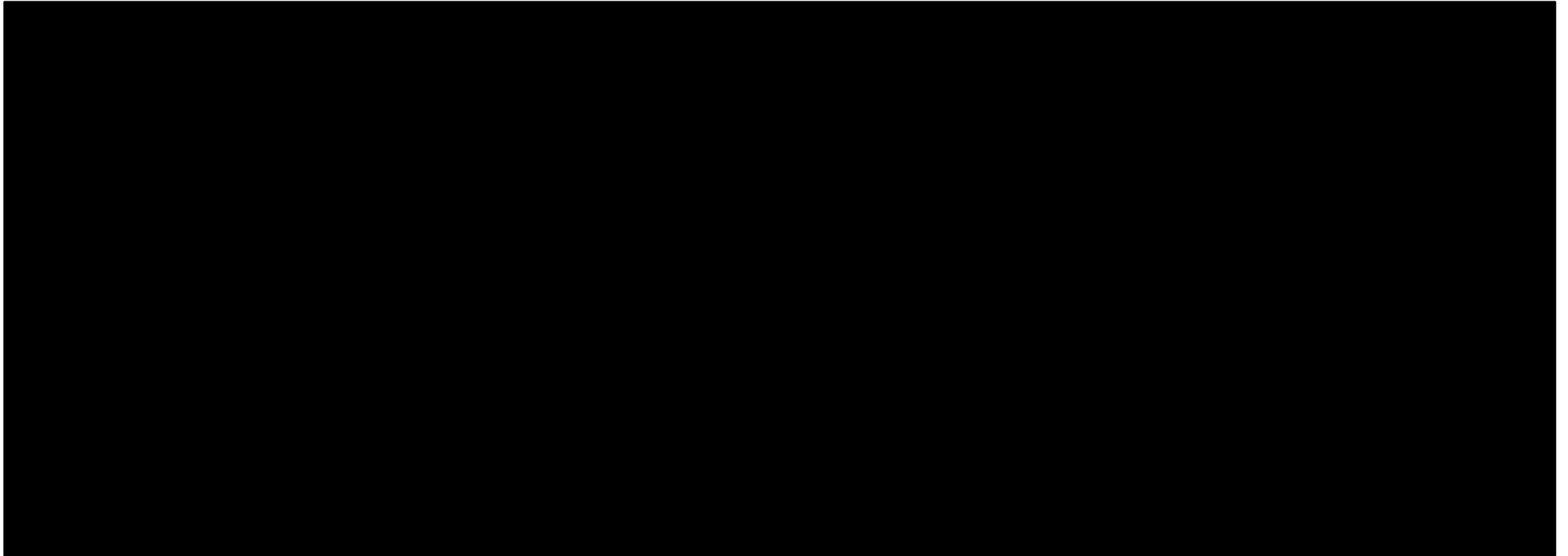


3 **Description:** Critical minerals can be defined as minerals that are essential to the economy, and their supply is generally limited. China is the largest producer of many of the world's critical minerals. For example, China produced a 98.18 percent share of the world's gallium, 88 percent of the world's magnesium, and 80.8 percent of tungsten in 2023. [Read more.](#)
Note(s): 2023; Based on the USGS list of critical minerals updated in February 2022
Source(s): US Geological Survey

Critical mineral mine production volume worldwide in 2022, by leading corporate owner country (in million metric tons)

Global critical mineral mine production volume 2022, by leading owner country

Production in million metric tons



4

Description: A total of nearly 508 million metric tons of critical minerals were produced in overseas mines that had corporate owners based in Canada as of 2022. This made Canada the world's leading headquarters country for critical mineral producing mines that were operating overseas at that time. Chile, on the other hand, had the largest critical mineral production from domestically-owned mines at that time, producing 330.46 million tons of critical minerals that year. [Read more](#)

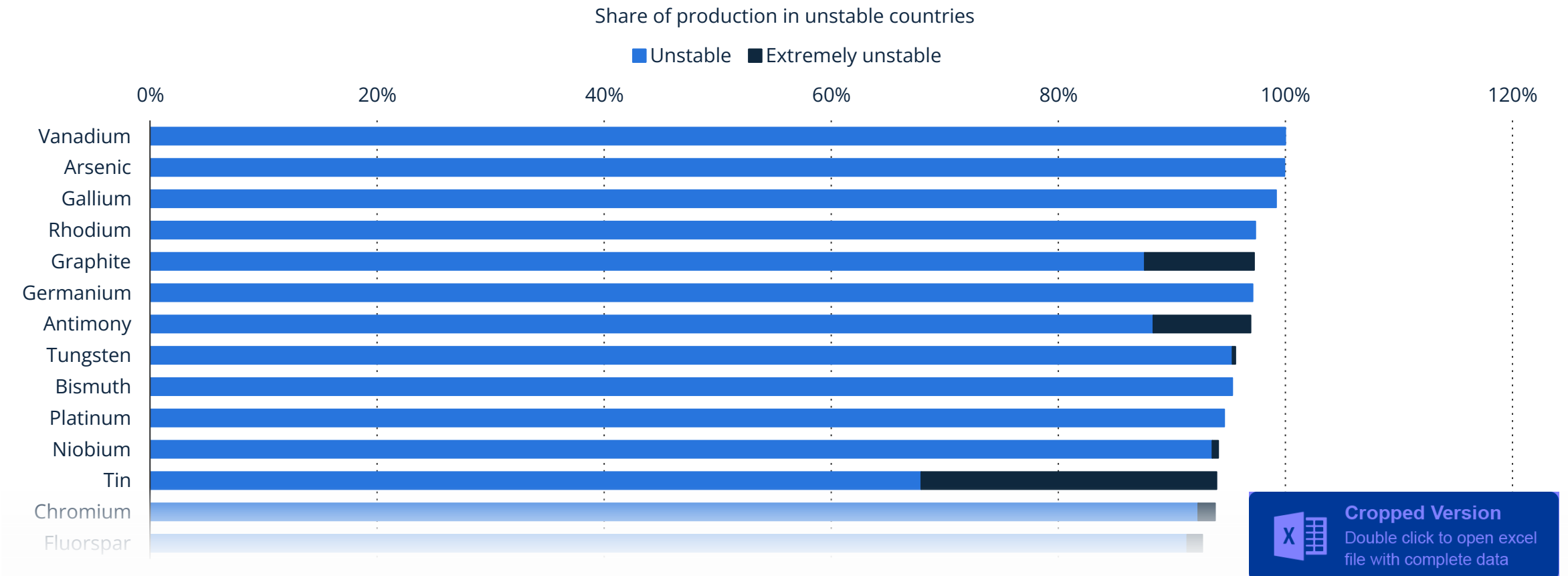
Note(s): Worldwide; 2022; domicile country of primary-equity owners of operational mines that include copper, cobalt, lithium, manganese, and/or nickel as a primary commodity; *Data for domestic mines in China was not available, so China is not [...]

[Read more](#)

Source(s): Energy Monitor; GlobalData

Share of critical minerals produced in politically unstable countries worldwide in 2022, by mineral

Global share of critical mineral production in politically unstable countries 2022



acquisition deals worldwide from 2019 to 2021 (in billion U.S. dollars)

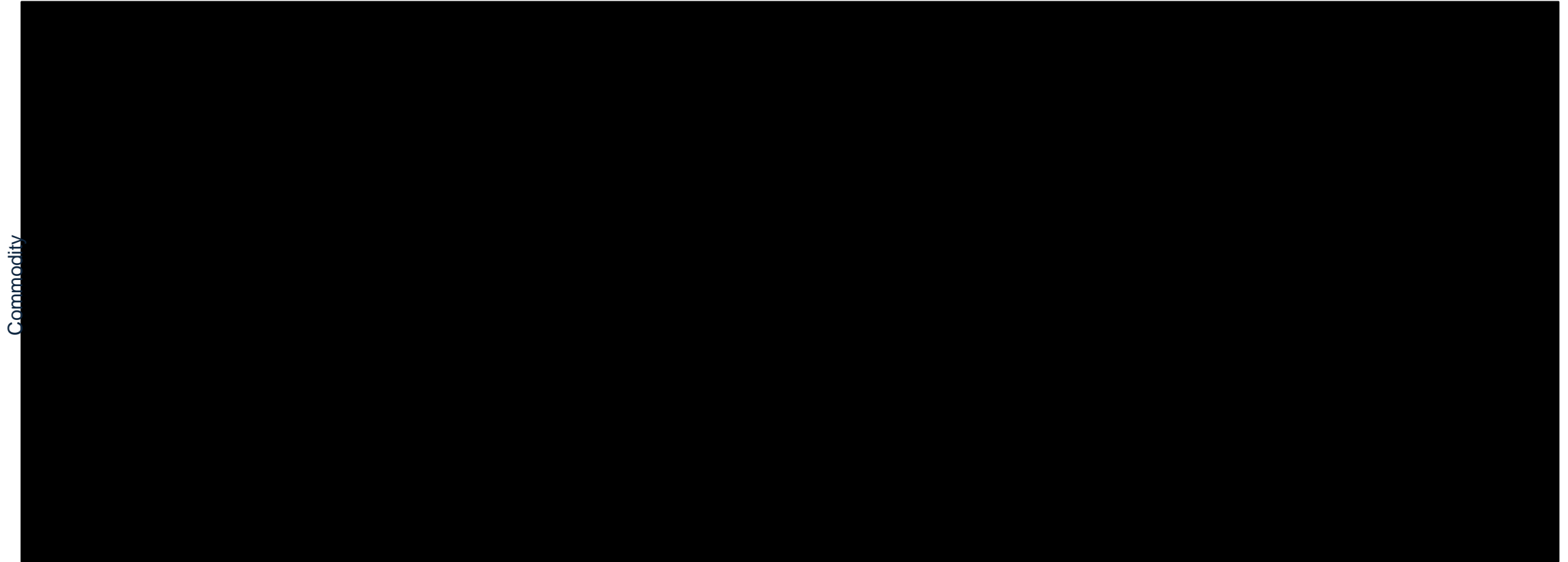
M&A deal value of critical minerals from leading global mining companies 2019-2021



Merger and acquisition deal value of selected critical minerals worldwide in 2021, by target commodity (in billion U.S. dollars)

Global critical minerals M&A deal value worldwide 2021, by target commodity

Deal value in billion U.S. dollars



7 **Description:** The total value of global merger and acquisition (M&A) deals targeting copper resources in 2021 amounted to 6.1 billion U.S. dollars. Of that amount, nearly one-third was attributable to the acquisition of the Spanishcopper mining company Minas de

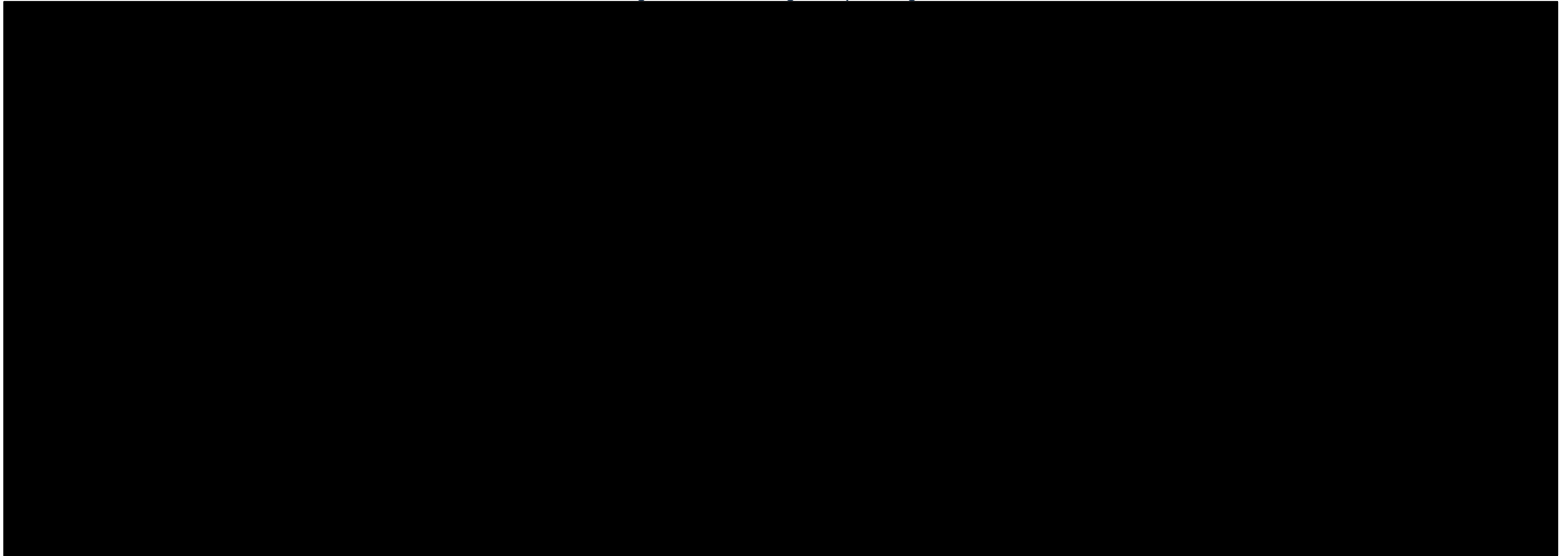
Note(s): Worldwide; 2021

Source(s): PwC; S&P Global Market Intelligence

Volume of critical minerals contained in selected energy technologies worldwide as of 2021, by type (in kilograms per megawatt of power generated)

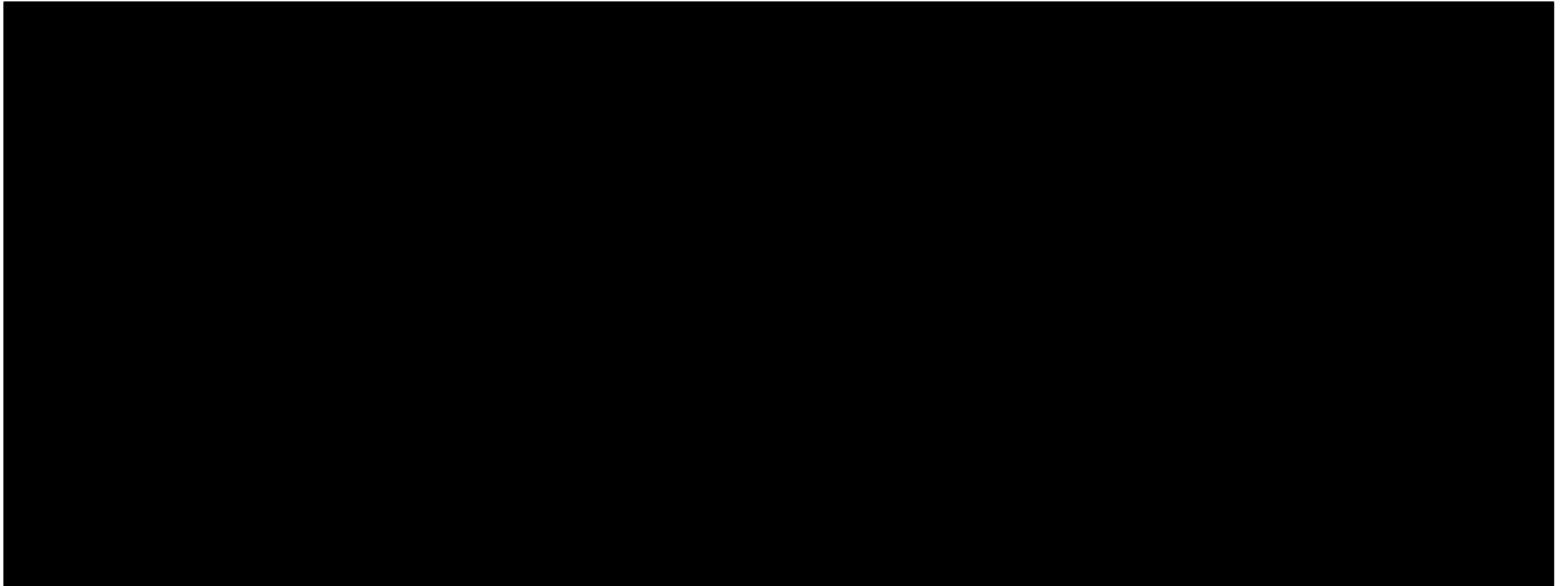
Global volume of critical minerals in energy technologies 2021, by type

Power generation in kilograms per megawatt



End of life recycling rate of selected critical minerals worldwide, by energy technology (in percent)

End of life recycling rate of critical minerals globally, by energy technology



CHAPTER 02

Reserves

Reserves of cobalt worldwide from 2010 to 2023 (in million metric tons)

Global cobalt reserves 2010-2023

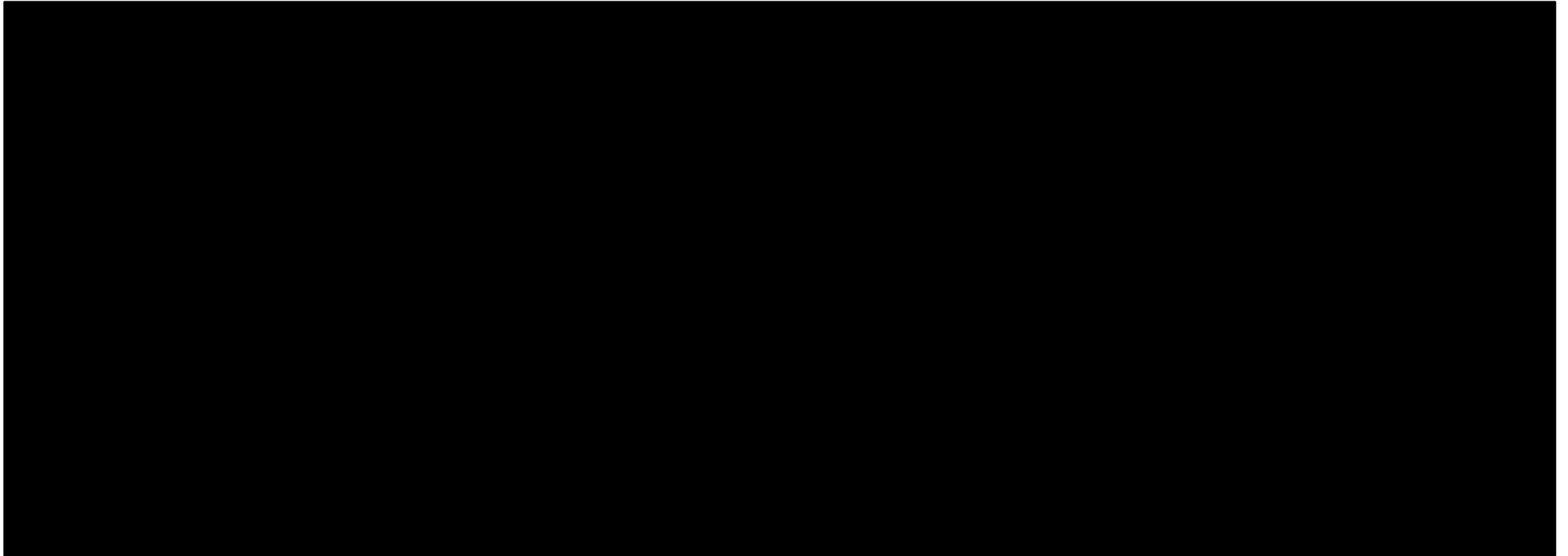


11 **Description:** The total reserves of cobalt across the globe amounted to an estimated 11 million metric tons in 2023. Although cobalt is not especially rare, ranking 32nd in global abundance among metals, it has become an increasingly important commodity due to its use in batteries, as well as in alloys, chemicals and ceramics, cemented carbides, and more. [Read more](#)
Note(s): Worldwide; 2010 to 2023
Source(s): US Geological Survey

Leading countries based on reserves of cobalt worldwide in 2023 (in metric tons)

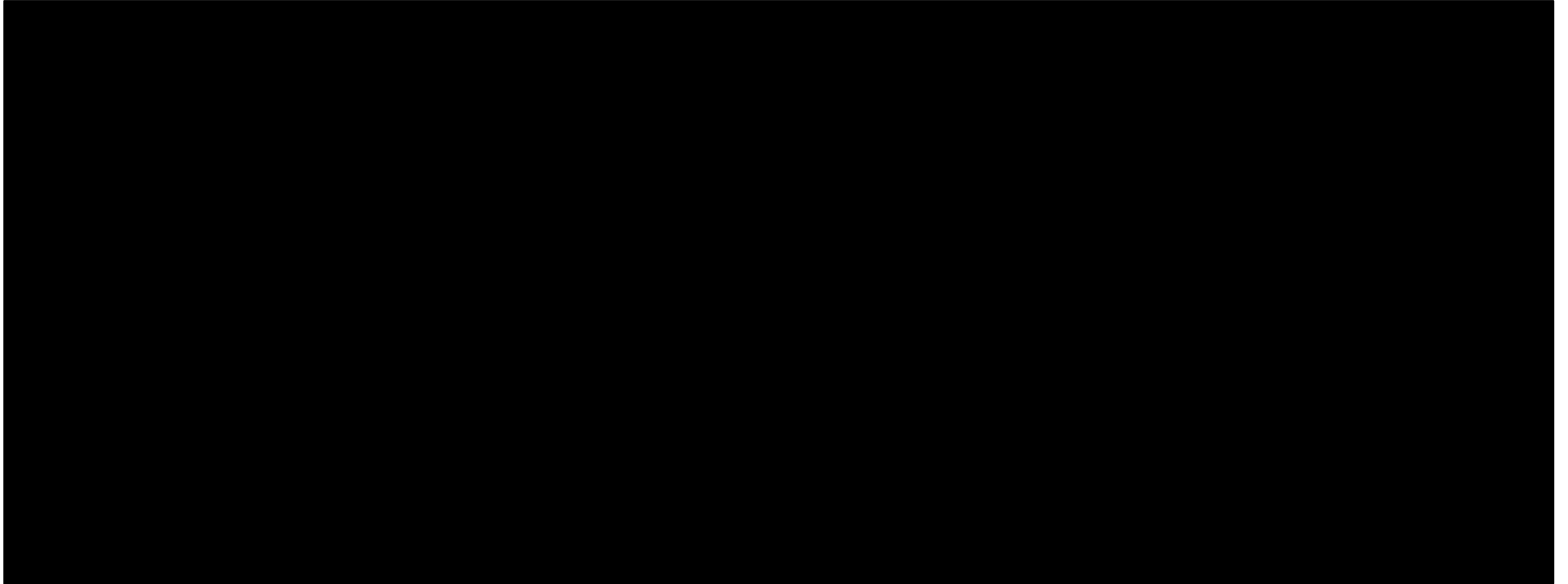
Global cobalt reserves 2023, by country

Cobalt reserves in metric tons



Reserves of lithium worldwide from 2010 to 2023 (in million metric tons)

Global lithium reserves 2010-2023



Reserves of lithium worldwide as of 2023, by country (in 1,000 metric tons)

World lithium reserves 2023, by country

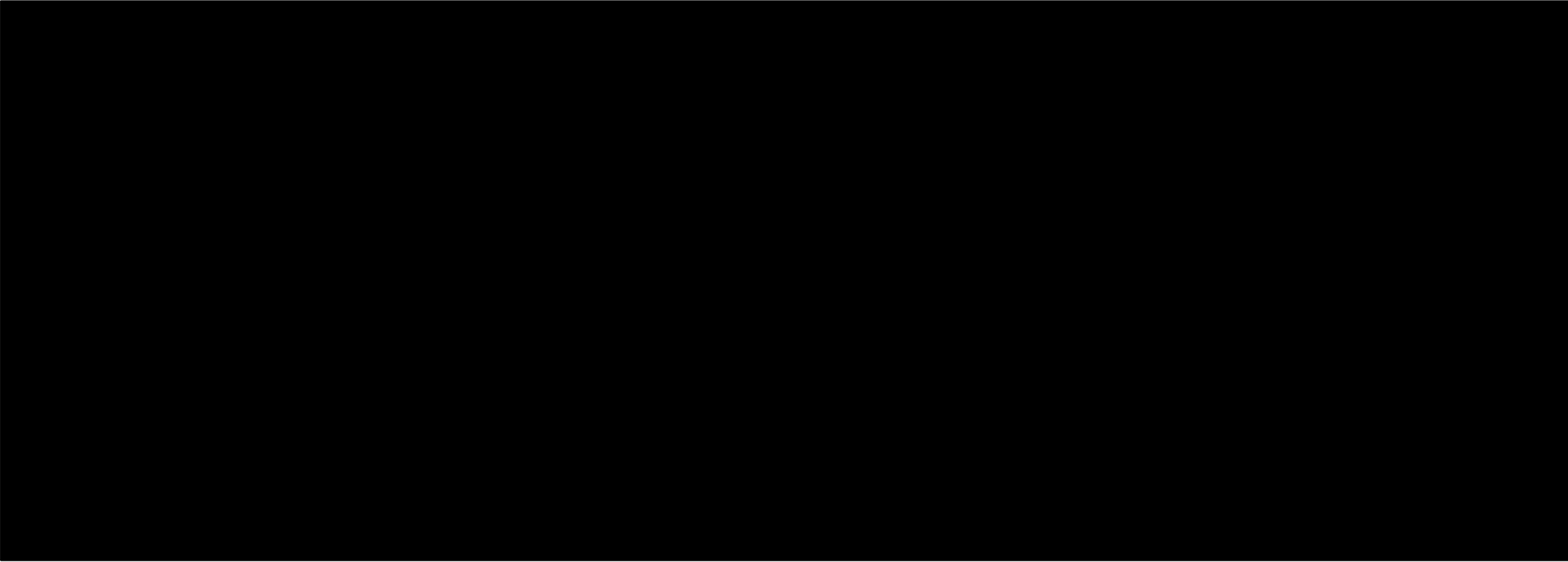
Reserves in thousand metric tons



Distribution of lithium reserves worldwide in 2023, by country

Share of global lithium reserves 2023, by country

Share of reserves



15 **Description:** Chile has the largest reserves of lithium worldwide, accounting for over one-third of the total reserves as of 2023. This was followed by Australia, with a 22.4 percent share of global lithium reserves that year. Meanwhile, the United States accounted only for about four percent of the world's reserves of lithium. [Read more](#)
Note(s): Worldwide; 2023
Source(s): US Geological Survey

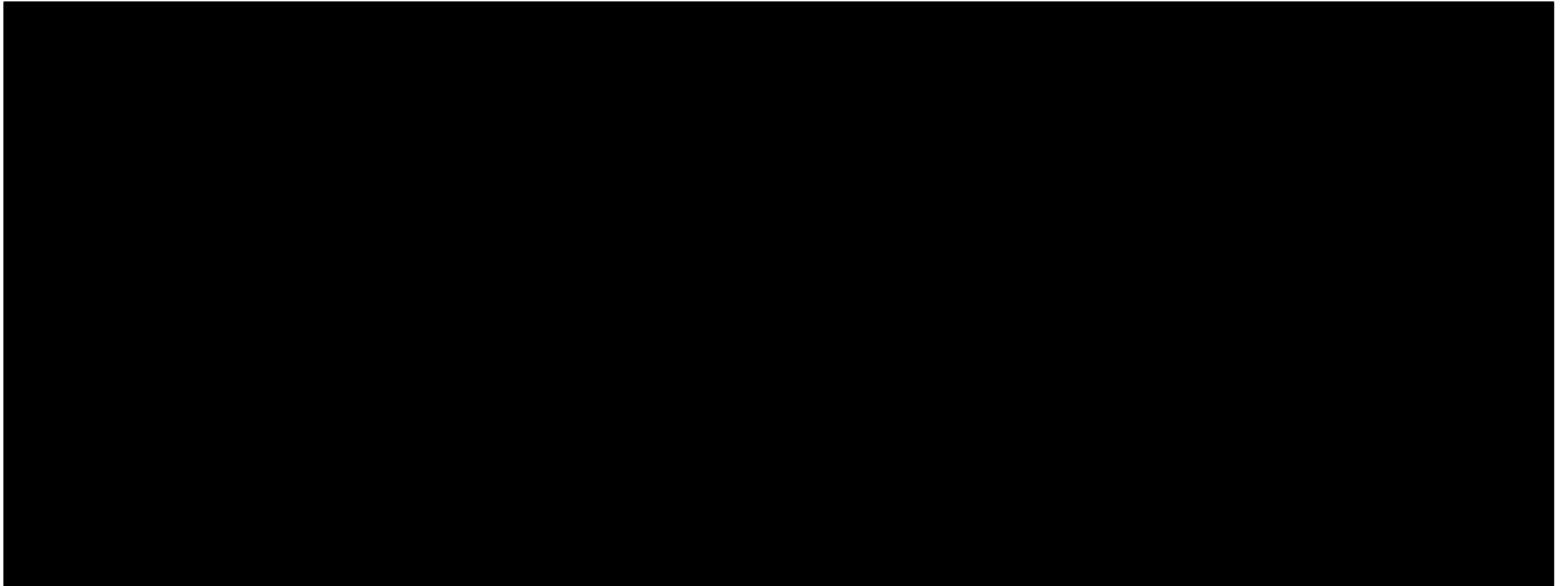
Reserves of tantalum worldwide from 2010 to 2023 (in 1,000 metric tons)

Global tantalum reserves 2010-2023



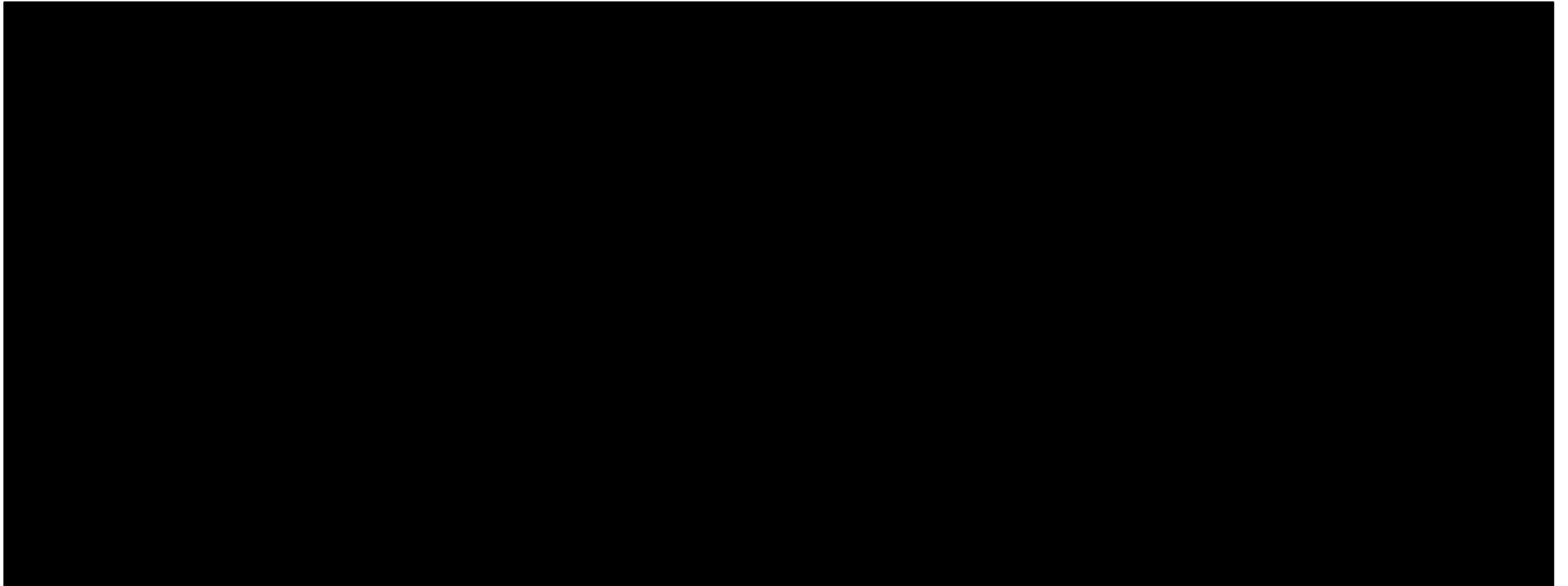
Leading countries based on reserves of tantalum worldwide in 2023 (in metric tons)

Global tantalum reserves 2023, by country



Reserves of tungsten worldwide from 2010 to 2023 (in 1,000 metric tons)

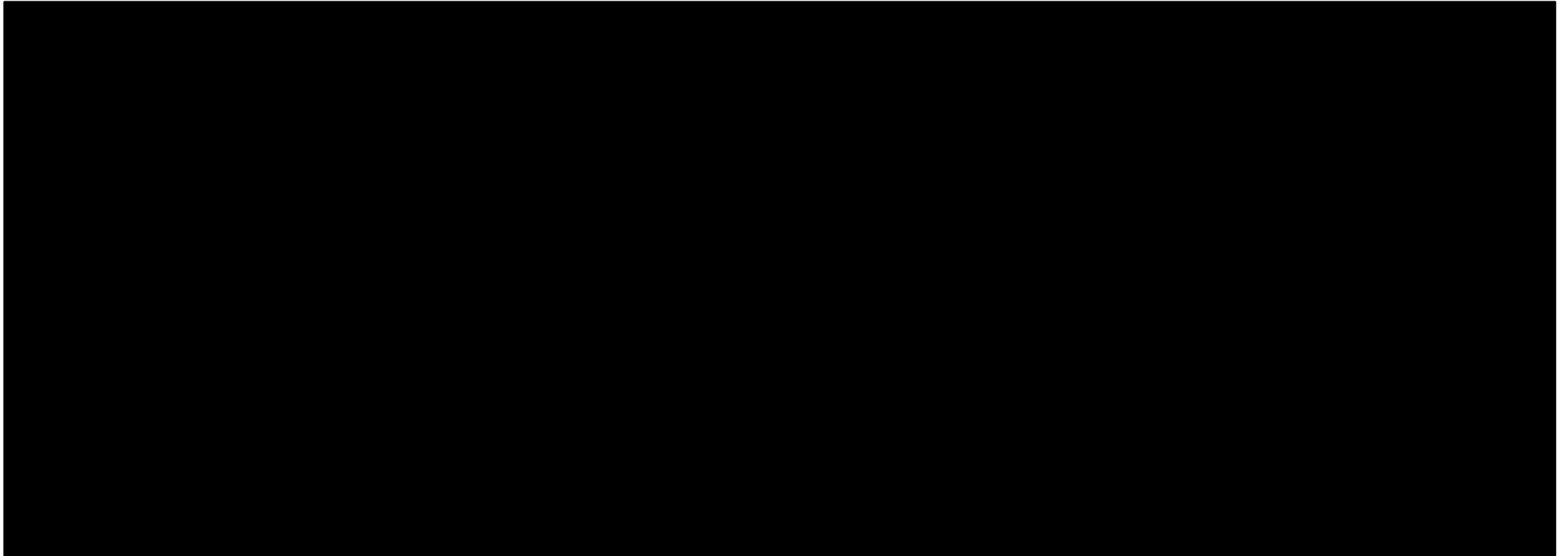
Global tungsten reserves 2010-2023



Leading countries based on reserves of tungsten worldwide in 2023 (in metric tons)

Global tungsten reserves 2023, by country

Reserves in metric tons



以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：<https://d.book118.com/548066013022007004>