



WHAT YOU NEED TO KNOW ABOUT RARE EARTH ELEMENTS (REES)

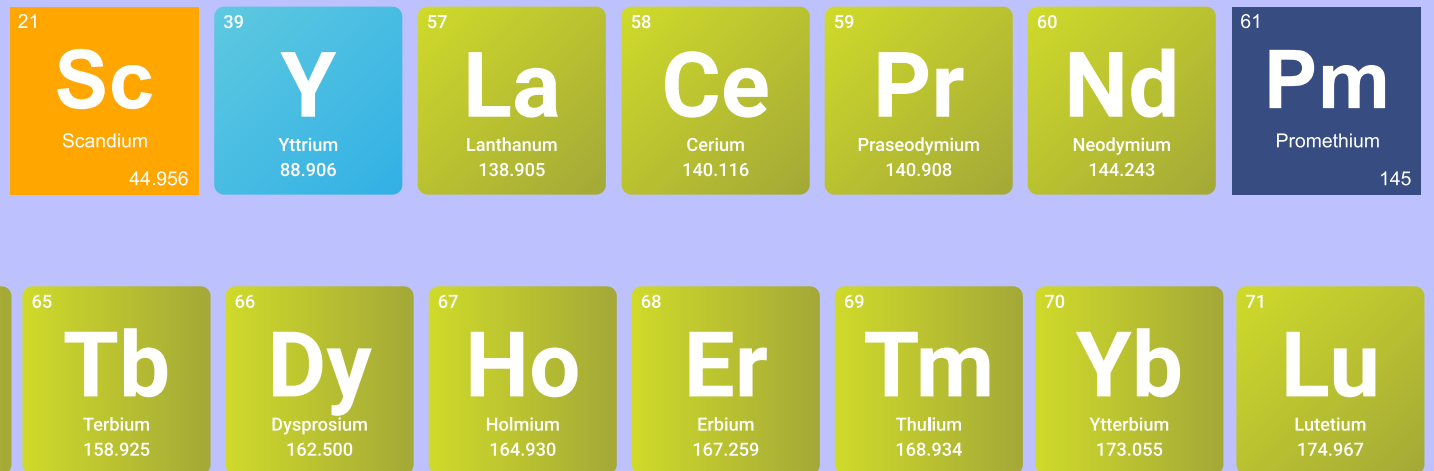


What are Rare Earth Elements (REEs)?

They provide significant value to a nation's national security, energy independence, environmental future, and economic growth. Critical REEs are those deemed as supply risk and crucial towards clean energy technologies.

How many REEs are there?

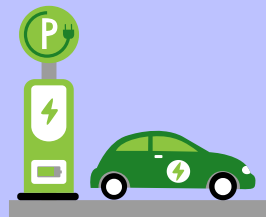
There are 17 REEs as found in the periodic table.



Key Usages



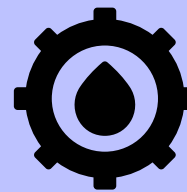
1 DEFENCE
Satellite Communications
Aircraft Structures



2 METAL ALLOYS
NiMH Batteries
Fuel Cells



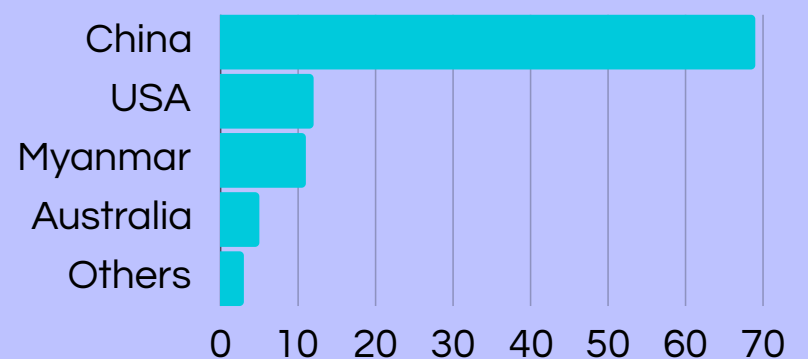
3 CERAMICS
Capacitors
Refractories



4 CATALYSTS
Petroleum Refining
Fuel Additives

Major Global Producers

China remains the world's top producer of rare earth elements, accounting for 69% of global production in 2023. USA is the second largest producer with 12% and Myanmar third with 11%.



Sources:

<https://netl.doe.gov/sites/default/files/2019-05/REE-Success-Infographic.pdf>

<https://pubs.usgs.gov/periodicals/mcs2024/mcs2024-rare-earths.pdf>

Accurate as of January 2024