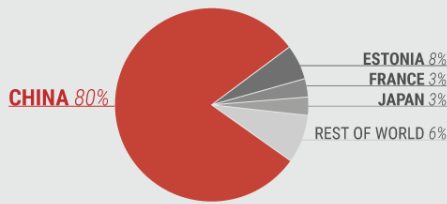




RARE EARTH IMPORTS TO THE U.S. (2014-17)



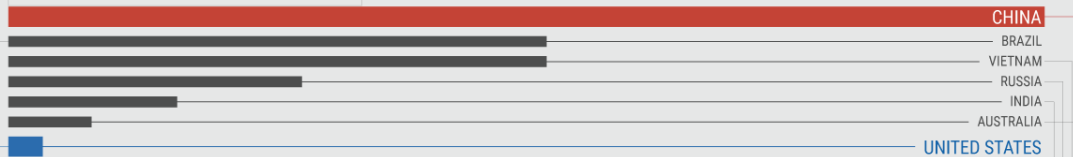
Rare Earth Elements Global Reserves and Production

With China's recent threat to ban exports of rare earths to the United States, it may be time to find an alternative.

Rare earths are a series of seventeen elements found in the Earth's crust with unique magnetic, luminescent and electrochemical properties, making them essential components of many modern technologies.

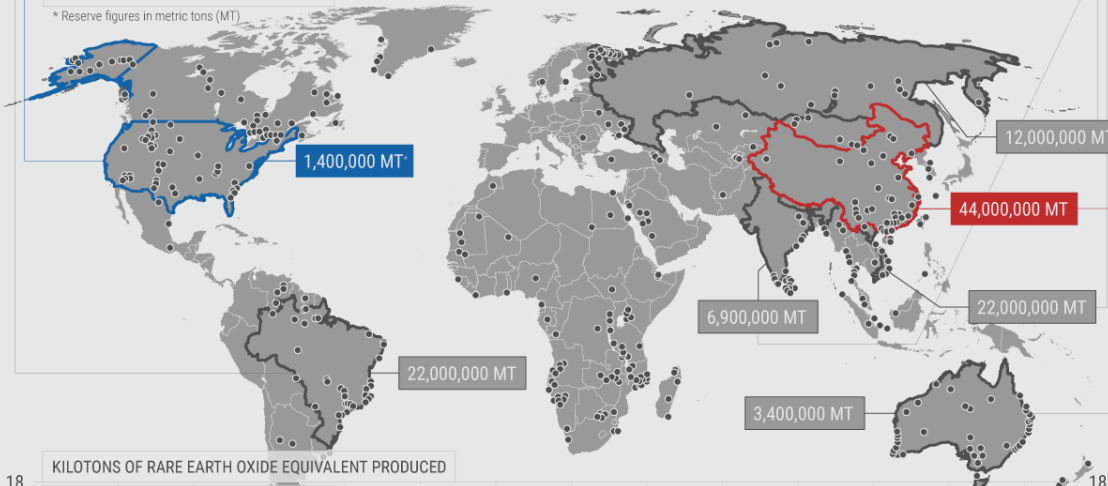
Sc	Y	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
45	89	139	140	141	142	143	150	152	157	158	162	163	164	169	173	175

COUNTRIES WITH MAJOR RARE EARTH RESERVES

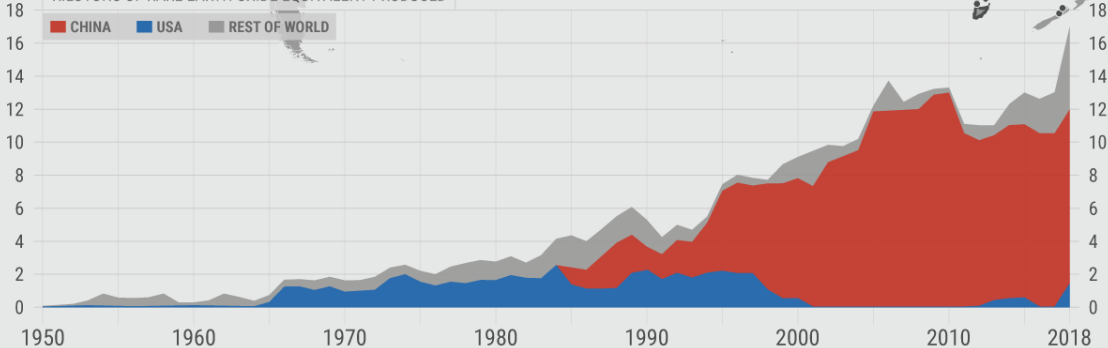


RARE EARTH MINES AND DEPOSIT SITES

* Reserve figures in metric tons (MT)



KILOTONS OF RARE EARTH OXIDE EQUIVALENT PRODUCED



Sources: U.S. Geological Survey - Mineral Commodities Summaries 2019, International Union of Pure and Applied Chemistry, United Nations Conference on Trade and Development © 2019 Geopolitical Futures

(click to enlarge)

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