

Solar Power Needs American Metals & Minerals



Solar PV Systems Need These Metals and Minerals:

- Rare Earths
- Steel
- Copper
- Quartzite Gravel
- Silicon
- Titanium
- Phosphorus
- Lead
- Aluminum

However, we are increasingly dependent on foreign nations for many strategic minerals ...

Metals / Minerals Used in Clean Power Systems	% Net Import Reliance
Steel	8%
Concrete	12%
Copper	32%
Lithium	50%
Titanium	54%
Silver	60%
Zinc	73%
Cobalt	81%
Platinum	91%
Aluminum	100%
Rare earth elements	100%
<i>Nickel (new sources)</i>	100%



Questions For Policymakers:

- Should we get cobalt from Idaho or rely on the Congo, Tibet & Siberia.
- Should we get rare earths from California or rely on China?
- Should we get silicon from Washington or rely on China, Russia & Venezuela?
- Should we get copper from Arizona and Utah or rely on Peru, Chile, & Mexico?
- Should we get titanium from Nevada, Oregon and Utah or rely on Kazakhstan & China?

Mining: Indispensable to our way of life - Indispensable to our future

