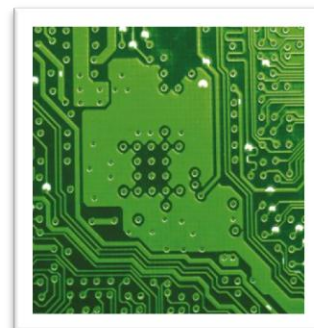


Minerals Make Manufacturing

Minerals are essential to manufacturing the products and technologies that propel our economy, enable America to compete globally and improve the quality of our lives.

Manufacturing Depends on Minerals

- Manufacturers use minerals to create the high-tech devices that connect us to the world. TVs require 35 different minerals and computer chips can require up to 60 minerals and elements.
- From the mirrors and paint to the body frame and engine, minerals are integral to every vehicle on the road. Gold, platinum and aluminum are just a few of the minerals used by auto manufacturers.
- Advanced energy technologies such as wind turbines, electric vehicles and solar panels depend on minerals including rare earths, copper and zinc.

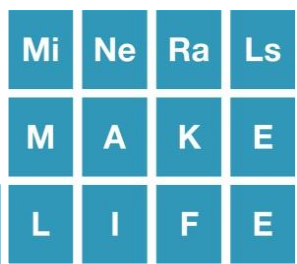


Forced to Import Foreign Minerals

- America's reliance on imported minerals has more than doubled in the past 30 years.ⁱⁱ Unable to secure reliable supply chains of domestic minerals, some manufacturers have moved overseas.
- In a recent PricewaterhouseCoopers report, 78 percent of high-tech industry CEOs revealed that their businesses face minerals and metals scarcity. Seventy-three percent of automotive CEOs and 67 percent of renewable energy CEOs agreed.ⁱ
- Though the United States is home to more than \$6.2 trillion worth of key mineral resources,ⁱⁱⁱ our nation imported more than \$42 billion worth of minerals last year to help meet manufacturing needs.ⁱⁱ

Minerals for the Future of U.S. Manufacturing

American manufacturing depends on a reliable, affordable supply chain of minerals. In order to ensure access to these materials, barriers to domestic minerals mining must be removed.



Sources:

- ⁱ PwC Report: *Minerals and Metals Scarcity in Manufacturing: The Ticking Timebomb*
- ⁱⁱ U.S. Geological Survey *Mineral Commodity Summaries 2012*
- ⁱⁱⁱ U.S. Geological Survey and U.S. Department of Defense