MINING MINNESOTA

ABOUT MINING MINNESOTA
Mining Minnesota is a membership organization committed to sustainable and environmentally responsible critical and strategic metals mining development. Driven by a diverse coalition of organizations, companies and individuals, Mining Minnesota will bring growth and job creation to the state through the responsible development of Minnesota's natural resources.

WE INVITE YOU TO LEARN MORE
MINING MINNESOTA
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WIND POWER NEEDS AMERICAN METALS AND MINERALS
A single 3MW wind turbine needs:
- 335 tons steel
- 47 tons copper
- 1,200 tons concrete (cement and aggregates)
- Rare earth elements
- Aluminum
- Zinc
- Molybdenum

CARS NEED AMERICAN METALS AND MINERALS
A single car needs:
- 2,124 lbs. iron & steel
- 240 lbs. aluminum
- 50 lbs. carbon
- 42 lbs. copper, 75 lbs. for a hybrid
- 41 lbs. silicon
- 24 lbs. lead
- 22 lbs. zinc
- 17 lbs. manganese
- 15 lbs. chromium
- 9 lbs. nickel
- 4.5 lbs. magnesium
- 2 lbs. sulfur
- 1 lb. molybdenum
- 1 lb. vanadium

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

<table>
<thead>
<tr>
<th>METALS/MINERALS USED IN CLEAN POWER SYSTEMS</th>
<th>% NET IMPORT RELIANCE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>7%</td>
</tr>
<tr>
<td>Steel</td>
<td>13%</td>
</tr>
<tr>
<td>Copper</td>
<td>36%</td>
</tr>
<tr>
<td>Nickel (with recycled)</td>
<td>48%</td>
</tr>
<tr>
<td>Silver</td>
<td>58%</td>
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<tr>
<td>Palladium</td>
<td>60%</td>
</tr>
<tr>
<td>Zinc</td>
<td>74%</td>
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<tr>
<td>Cobalt</td>
<td>76%</td>
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<tr>
<td>Platinum</td>
<td>79%</td>
</tr>
<tr>
<td>Manganese</td>
<td>100%</td>
</tr>
<tr>
<td>Rare earth elements</td>
<td>100%</td>
</tr>
</tbody>
</table>

*2013 USGS DATA