



# MINING MINNESOTA™

RESPONSIBLE DEVELOPMENT of NATURAL RESOURCES



## THE FUTURE IS IN OUR HANDS

The time to move toward renewable energy is now. Greener energy sources—wind, solar, electric vehicle batteries—are key to a more sustainable future, but they require significant amounts of minerals and metals. If we mine responsibly in Minnesota, if we protect our natural resources while procuring the minerals we need, our state can set the standard for the rest of the world. It's not just mining. It's family-sustaining jobs, better-funded education for all, stronger economies and a thriving state—all things that will build a better future for Minnesota.

### RENEWABLE ENERGY GOALS

The US government has made historic investments in clean energy technologies for solar, wind and electric vehicle batteries. The Defense Product Act for Clean Energy (DPA) was enacted to accelerate the production of clean energy technology, and spur domestic manufacturing and construction. But before we can create all those good-paying jobs, we need to source our materials safely and responsibly.



#### Solar PV

- Copper
- Aluminum



#### Wind

- Copper
- Chromium
- Nickel
- Aluminum
- REEs



#### EVs & Battery Storage

- Copper
- Lithium
- Cobalt
- REEs
- Nickel
- Aluminum
- Zinc

### RECYCLING ISN'T ENOUGH

Recycling metals is an excellent way to prolong usable life and decrease impact, but recycling alone won't produce the vast amounts of minerals required for the future we all want. Recycled quantities of aluminum, lead, copper and cobalt just barely keep up with current demand. As we continue to expand infrastructure for renewable energy, recycling alone isn't enough. Responsible mineral procurement is essential.

### INFLATION REDUCTION ACT

The Inflation Reduction Act (IRA) includes provisions to power homes, businesses, and communities with much more clean energy by 2030, including:



950,000,000  
SOLAR PANELS



120,000  
WIND TURBINES



2,300  
GRID-SCALE  
BATTERY PLANTS

To get there, and to achieve the desirable tax credits outlined in the IRA, we must look inward to provide domestically-sourced minerals and metals.

"Key sections of the bill focus on American job creation with American sourced minerals. For far too long 'made in America' has ignored the front end of the supply chain: domestically sourced mined materials. Requirements that minerals for batteries be sourced close to home rather than from geopolitical rivals directly support high-paying, stable U.S. jobs that strengthen our economy, secure our supply chains and enhance our global competitiveness."

Ashley Burke,

Senior Vice President for Communications,  
National Mining Association



# MINNESOTA'S ROLE IN THE GREEN ECONOMY

MiningMinnesota is a diverse coalition of organizations, companies and individuals that are committed to benefiting our communities and advancing a sustainable future through responsible mining, processing, and domestic supply chain utilization of our mineral resources.

We work with local citizens, businesses and other organizations to bring growth and job creation to the state through the responsible development of natural resources.

## Responsible Mining

Minnesota is fortunate to be the home of the Mid-Century Rift System, an expansive geologic formation containing one of the largest known undeveloped accumulations of copper, nickel and platinum group metals in the world.

## Sustainable Mining

Any permitted project in Minnesota will operate sustainably. Modern mining techniques, tailings storage, water management and progressive reclamation all work together to ensure a sustainable operation.

## Positive Economic Impact

Mining in northeast Minnesota has long been a powerful economic driver, creating and sustaining thousands of high-paying mining jobs and driving growth in key supporting industries throughout the entire state.



**POLYMET**  
MINING

The NorthMet project The project has the potential to generate 1.16 billion pounds of copper, 170 million pounds of nickel, 6.2 million pounds of cobalt and 1.56 million ounces of precious metals like palladium, platinum and gold.



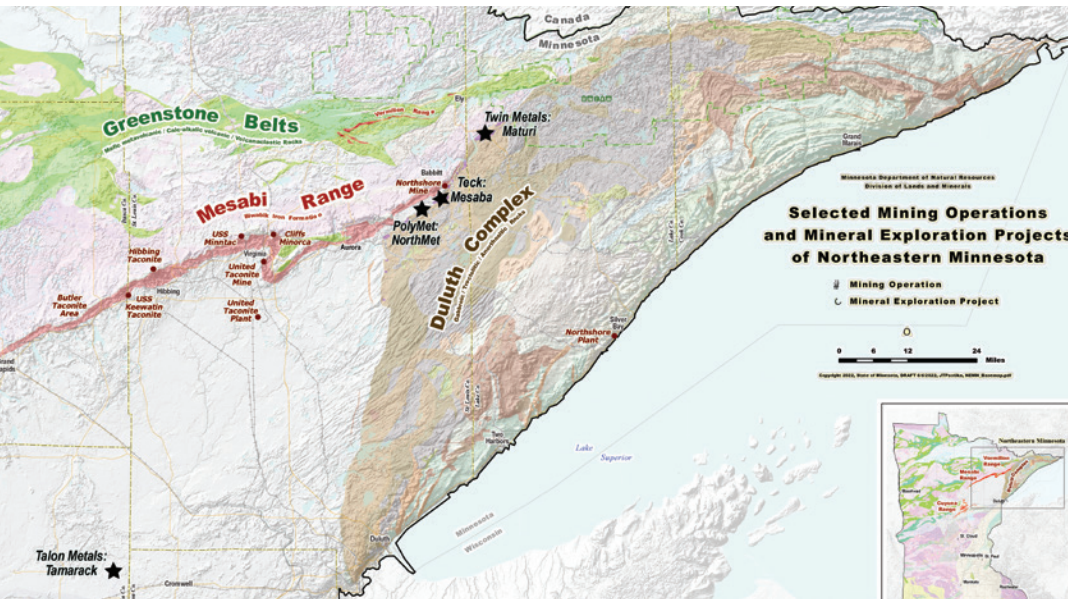
Twin Metals Minnesota has committed to mining responsibly by maintaining a small surface footprint, using non-acid generating tailings storage, advanced water management, carbon sequestration and comprehensive reclamation.

# Teck

The Mesaba Project is one of the world's largest undeveloped copper-nickel-platinum group metal deposits with important platinum-palladium, cobalt, silver and gold credits with the potential for multi-generational production.

**TALON**  
METALS CORP

The Tamarack Project is a proposed nickel-copper-cobalt project. As the Eagle Mine operation in Michigan approaches end-of-life and demand for nickel in EV batteries continues to increase, securing a domestic source of nickel is essential.



# A SUSTAINABLE FUTURE DEPENDS ON MINNESOTA MINING



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