OCEAN MINERALS FORWARD »

A New Resource for America's Industrial Future

America's economy is entering a mineral-intensive era.

Artificial intelligence, data centers, advanced manufacturing, defense systems, energy infrastructure, transportation, and consumer technologies all depend on growing supplies of critical minerals. Copper, nickel, cobalt, manganese, rare earth elements, and other materials are becoming increasingly important to both America's economic competitiveness and national security.

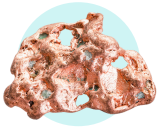
Demand is growing. New supply is difficult and time-consuming to develop. And many of the world's most important mineral supply chains remain concentrated outside the United States.

- AI + Data Centers
- Defense Systems
- Advanced Manufacturing
- Energy Infrastructure
- Transportation Technology

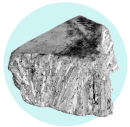
But America has another resource opportunity.

Beneath the ocean lies an enormous and diverse mineral resource base that could complement terrestrial mining, recycling, and allied supply while helping build a more secure American industrial future.

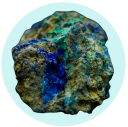
The Opportunity is Below the Surface: A new mineral resource that can complement terrestrial mining, recycling, and allied supply. A foundation for stronger American supply chains.



COPPER



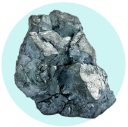
NICKEL



COBALT



MANGANESE



RARE EARTHS

Why Ocean Minerals Matter:

Beneath the ocean lies an enormous and diverse mineral resource base that could complement terrestrial mining, recycling, and allied supply while helping build a more secure American industrial future.

The Opportunity is Below the Surface: A new mineral resource that can complement terrestrial mining, recycling, and allied supply. A foundation for stronger American supply chains.

DEMAND IS OUTRUNNING SUPPLY: UP TO 500% PROJECTED GROWTH IN DEMAND FOR SOME CRITICAL MINERALS BY 2050

AI, data centers, defense, advanced manufacturing, energy and transportation increasingly compete for many of the same mineral inputs. New sources of supply can take decades to develop.

MINERAL SECURITY IS NATIONAL SECURITY: 12 + 29 CRITICAL MINERALS WITH HIGH U.S. NET-IMPORT RELIANCE

Resources alone are not enough. Processing, refining and manufacturing determine whether mineral supply can become usable industrial capacity. Diversification requires more domestic, allied and recycled supply.

Control of the Supply Chain Matters.

RESOURCE » PROCESSING » REFINING » MATERIALS » MANUFACTURING

A RESOURCE BASE WITH SCALE: ~1 BILLION TONS

Estimated polymetallic nodule resources in U.S. waters

AMERICA ISN'T STARTING FROM SCRATCH

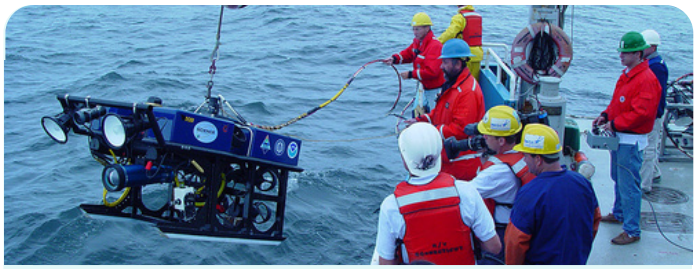
More than 50 years of offshore innovation have advanced dynamic positioning, ROVs, autonomous systems, subsea engineering, mapping, sensors, advanced vessels and deepwater operations

Science Leads the Way:

Responsible development starts with understanding the ocean. More than five decades of deep-ocean research, environmental baselines, autonomous vehicles, subsea sensors and real-time monitoring provide tools to observe conditions before, during and after operations.

GOOD DATA » BETTER DECISIONS

BASELINE — MONITOR — MEASURE — ADAPT



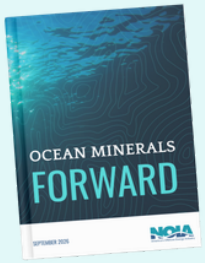
FROM THE SEAFLOOR TO THE FACTORY FLOOR:

The opportunity extends far beyond mineral recovery. Ocean minerals can connect offshore resources with American vessels, ports, shipyards, engineers, processors, refiners, manufacturers, technology companies and skilled workers.



AMERICAN LEADERSHIP

The strategic value is bigger than the minerals themselves. Developing this capability builds technology, data, operating experience, workforce expertise, supply chains and the ability to help shape high standards for an emerging industry.



AMERICAN RESOURCES. AMERICAN INNOVATION. AMERICAN INDUSTRY.

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