Renewable energy minerals

US President Donald Trump"s massive One Big Beautiful Bill is poised to reshape America"s entire industrial and energy future, dramatically reorienting policies and incentives for various ...

Exclusive: Hindustan Copper, GAIL to collaborate on global critical mineral hunt The collaboration will focus on securing essential minerals such as copper, lithium, cobalt and rare earth ...

News, blogs and events Transition minerals The shift from fossil fuels to renewable energy will lead to increased demand for critical minerals such as cobalt, copper, lithium, nickel and vanadium. Heightened demand has the ...

The global shift toward renewable energy has highlighted a critical concern: the potential for human rights violations associated with the mining and processing of minerals required for green technologies.

India has identified a total of 8.52 million tonnes (MT) of in-situ Rare Earth Elements Oxide (REO) resources across multiple states, as the government pushes ahead with efforts to secure ...

Why This Matters Important technologies, including electric vehicle batteries, smartphones, and solar panels, require "critical" minerals such as magnesium and lithium. But the U.S. obtains ...

The budget bill the U.S. Senate passed on Tuesday and the House of Representatives is now debating for final approval would dampen development of wind and solar power, kill climate ...

Minerals like copper, lithium, cobalt, nickel and rare earth elements play an indispensable role in manufacturing electric vehicles (EVs), renewable energy systems and advanced electronics. ...

"As the global appetite for critical minerals intensifies to fuel renewable energy, smartphones, semiconductors, and defense industries, Africa faces the risk of history repeating itself under a ...

Our world is changing. The transition from fossil fuels to more sustainable, cleaner energy is under way. This energy transition relies on new technology. The critical minerals essential for ...

These investments present significant opportunities for independent power producers (IPPs) and renewable energy developers, fostering a more dynamic and competitive energy landscape. ...

Critical minerals, globally, have become essential for manufacturing and technological needs to advance industries and develop nations. For one, rare earth elements are crucial components ...

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This study presents a bibliometric analysis and systematic literature review of renewable energy applications in mineral processing and mining operations from 2000 to 2024, identifying key ...

From electric vehicles to renewable power sources, critical minerals are key to several clean energy technologies: Batteries: Lithium, nickel, cobalt, manganese, and graphite are essential ...

Australia"s Nuclear Science and Technology Organization (ANSTO) and the Critical Minerals R& D Hub at CSIRO are leading research on processing jadarite and other lithium minerals to ...

On July 4, 2025, President Trump signed H.R. 1--dubbed the One Big Beautiful Bill Act (OBBBA)--enacting significant modifications to clean-energy credits previously enacted under ...

Non-renewable energy sources, including fossil fuels, nuclear fuel, minerals, and metals, are finite and continuously deplete with use. Among non-renewables, coal is notorious for its toxic output, generating more greenhouse gases compared ...

House appropriators voted along party lines Monday to advance a fiscal 2026 energy and water spending bill backing nuclear and minerals while slashing funding for renewable energy. Why ...

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