Responsible minerals sourcing for renewable energy

This engagement is crucial to achieving a just renewable energy transition, advancing the RMI"s mission to enable companies to source all minerals responsibly including from conflict-affected and ...

Product Stewardship; Decarbonisation; Circular Economy for resources, water, energy. Samantha Sharpe. Program lead - Course development Employment, enterprise and policy setting for green and just transition. Melita Jazbec. Research Director Transition to circular economy for resource, water and energy systems. Rusty Langdon ...

This group aims to promote responsible supply chains of minerals and metals and ethical mining practices. We signed the International Renewable Energy Covenant, joining other wind developers, industry partners, civil society, and government stakeholders to address the impact of the renewable energy sector on people and the environment.

And then we"re also helping them to develop a renewable energy resource with the utility there in Greenland. So we have a lot going on in Greenland in the context of clean energy for Greenland as well as their minerals that will be used for energy, clean energy technologies. Washington Examiner: Thanks for doing the call Assistant Secretary ...

Responsible sourcing of transition minerals is no longer just a matter of ethics; it"s a matter of long-term sustainability where all communities benefit . ... The renewable energy transition offers a once-in-a-lifetime opportunity to correct the mistakes of the fossil fuel era. As we continue to push for net-zero technologies, let"s ...

The new report, Securing Minerals for the Energy Transition: Unlocking the Value Chain through Policy, Investment and Innovation, released in collaboration with McKinsey & Company, explores barriers to securing a stable and sufficient supply of critical minerals worldwide and proposes actionable solutions for overcoming them. Timely multistakeholder ...

2 days ago· In contrast, renewable energy sources accounted for nearly 20 percent of global energy consumption at the beginning of the 21st century, largely from traditional uses of biomass such as wood for heating and cooking 2015 about 16 percent of the world"s total electricity came from large hydroelectric power plants, whereas other types of renewable energy (such ...

This report considers a wide range of minerals and metals used in clean energy technologies, including chromium, copper, major battery metals (lithium, nickel, cobalt, manganese and ...

International frameworks for due diligence, facilitated by organisations like the Organisation for Economic Co-operation and Development (OECD), have been critical in setting authoritative ...

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Renewable energy technologies, electric vehicles and battery storage require high volumes of environmentally sensitive materials. This research aims to identify the main "hotspots" in the supply chain, where opportunities to reduce demand and influence responsible sourcing initiatives will be most needed.

responsible sourcing practices. Updated July 2021 ... We"re focused on three important opportunities--the energy transition to drive decarbonization, a future of smarter and more efficient flight, and precision health that ... Responsible Minerals Institute"s (RMI"s) assessment process, known as the Responsible ...

1. Introduction. The global production-consumption cycles of minerals and energy are inextricably connected. Uranium is mined and used in nuclear power production; coal generates electricity used in mineral and metals production and is used as a reductant in blast furnace steel making; rare earth elements - for example in wind turbine magnets - have ...

However, rapidly shifting to renewable energy requires a substantial amount of critical minerals. Responsibly sourcing minerals like copper, nickel and lithium is crucial. How we source these minerals will define environmental and social impacts locally and globally, but an equitable and sustainable strategy is possible.

Responsible minerals sourcing for renewable energy. E Dominish, N Florin, S Teske. ... Renewable energy for Australia-Decarbonising Australia"s energy sector within one generation. S Teske, E Dominish, N Ison, K Maras. Institute for Sustainable Futures, UTS, 2016. 37: 2016:

Coal mining company Ndalamo Resources is actively exploring opportunities in renewable energy and other minerals, paving the way for a diversified and resilient future. Ndalamo CEO Shammy Luvhengo ...

Responsible Minerals Sourcing 42 Responsible Mobility 44 Revolutionizing Health 45 and Safety Through Technology ... energy use, water use, and waste generation. ... we achieved net positive water in three countries, sustained 80% renewable electricity globally, and sent about 5% of our total waste to landfill. This work has contributed to us ...

The demand for critical minerals is set to almost triple by 2030 as the world transitions from fossil fuels to renewable energy in order to reduce global carbon dioxide emissions to net zero by 2050. Without proper management, the increasing demand for critical minerals risks perpetuating commodity dependence, exacerbating geopolitical tensions and ...

Evolving energy generation and the expansion of the renewable energy capacity and associated infrastructure contribute to changing and increasing demands for minerals ... Responsible sourcing for energy transitions: Discussing academic narratives of responsible sourcing through the lens of natural resources justice

A successful transition to renewable, low-carbon energy will need significantly more minerals like copper,

lithium, and nickel. But how can we ensure that the necessary ...

We"re focused on the energy transition to drive decarbonization and a future of smarter and more efficient flight. In innovating products to meet these opportunities, many of our products contain tin, tantalum, tungsten, and/or gold (collectively, 3TG), as well as cobalt or ... Responsible mineral sourcing principles . Created Date:

One recent assessment concluded that expected demand for 14 metals--such as copper, cobalt, nickel, and lithium--central to the manufacturing of renewable energy, EV, fuel ...

Forced Labor and the Clean Energy Transition: Finding A Responsible Way Forward ... one of the most important options for renewable power is PVs, used to convert sunlight into electricity. ... initiatives have examined mineral supply chains and can inform policy decisions regarding minerals sourcing and positive sectoral governance.

Based on a mapping review of 220 studies of responsible mineral supply chains, this study highlights the approaches that responsible minerals sourcing initiatives have taken, focusing on conflict minerals (tin, tungsten tantalum and gold) as well as metals and minerals needed for renewable energy technologies in a transition to a low carbon ...

The Role of Critical Minerals in Clean Energy Transitions - Analysis and key findings. ... Sustainable and responsible development of minerals. Mineral development and climate change; ... In contrast, hydropower and bioenergy have relatively low mineral intensity compared to other renewable power sources. Hydropower and bioenergy each account ...

The transition from fossil fuels to clean energy sources will depend on critical energy transition minerals. Minerals - such as copper, lithium, nickel, cobalt - are essential components in many of today"s rapidly growing clean energy technologies, from wind turbines and solar panels to electric vehicles. The consumption of these minerals could increase sixfold by 2050, according to the ...

This chapter explores the evolution of responsible sourcing in mineral supply chains, given the precedence of negative environmental, social, and economic rights that have been part of our global extractive history. ... Challenges & Actions for Responsible Sourcing in the Renewable Energy Sector. RE-SOURCING Project. Vienna: RE-SOURCING Project ...

Dominish E, Florin N, Teske S (2019) Responsible Minerals Sourcing for Renewable Energy. Report prepared for Earthworks by the Institute for Sustainable Futures. University of Technology Sydney, Australia. Google Scholar DSM Observer. 2018. "The Writing is on the Wall for Solwara 1--PNG Should Withdraw." January.

Diversify and Expand Supply: Identify and secure substantial resources from a wide variety of feedstocks

including primary and secondary sources, co-produced materials from existing operations, and international partners. Develop Alternatives: Produce new materials that have less disruption potential and design manufactured parts and systems that require little to ...

A responsible mineral supply chain is necessary to help rebuild broken trust and ensure the energy transition ... Only recently have human rights and climate organizations started to discuss a just transition that includes mineral sourcing and mining. ... they see the transition to renewable energy and mining minerals as revenue-generating ...

Although this cluster covers fair trade in the cotton sector, similar discourses also emerge around mineral supply chains, e.g. diamonds and gold (such as Hilson et al. (2016)) as well as relevant minerals for renewable energy technologies (e.g., Watzel (2022)). Supplier auditing and game theory are additional themes addressed in this cluster.

Recycling and responsible sourcing are fundamental to improving the sustainability of the renewable energy transition. Recycling is the most important strategy to reduce primary demand.

Platform for Responsible Sourcing in Mineral Value Chains, in particular renewable energy, mobility and electronics. The platform organised a . P. reface. Link. Link. vi . PREFACE. variety of webinars, workshops, in-person events and other activities. It