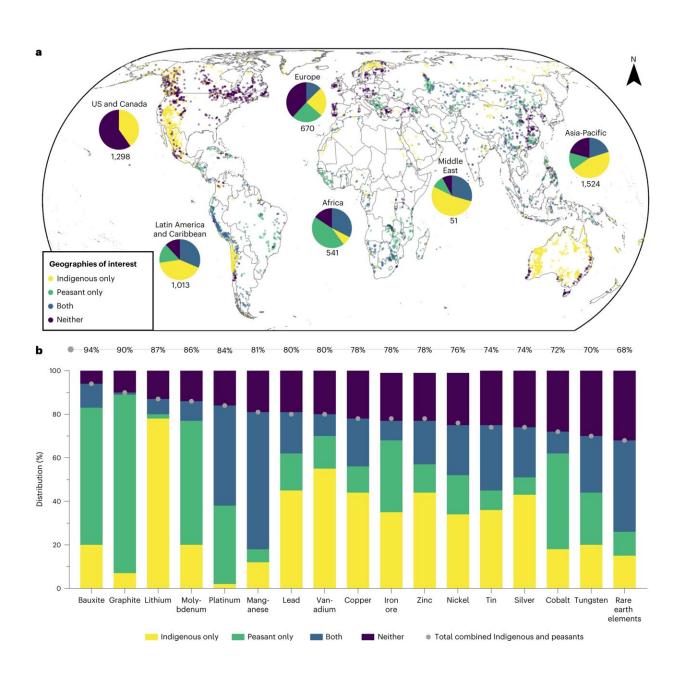


54% of projects extracting clean energy minerals overlap with Indigenous lands, research reveals

December 2 2022, by Deanna Kemp, John Owen and Kado Muir





Distribution of ETMs by Indigenous peoples' and peasant land. a, Geographic distribution of mining projects, n = 5,097. b, Distribution of energy transition minerals and metals reserves and resources. The selected 17 minerals and metals have the highest number of extractive projects worldwide. Percentages at the top of the figure represent those for the 'total combined Indigenous and peasants' variable. Credit: *Nature Sustainability* (2022). DOI: 10.1038/s41893-022-00994-6

Vast <u>quantities</u> of minerals are needed to accelerate the transition to a clean energy future. Minerals and metals are essential for wind turbines, solar panels, and batteries for electric vehicles. But <u>Indigenous peoples</u> have <u>raised concerns</u> about more mining on their lands and territories.

A new study led by authors John Owen and Deanna Kemp, published in *Nature Sustainability* on Dec. 1, supports First Nations peoples' concerns. We identified 5,097 mining projects involving about 30 minerals needed in the energy transition. Some 54% are located on or near Indigenous peoples' lands.

These lands are <u>valuable</u> ecologically and culturally. Their soils, and land cover such as forests, store carbon which helps to regulate the planet's climate. Typically, the lands are also intrinsic to Indigenous peoples' identity and way of life.

Energy transition minerals are essential to tackling climate change. But First Nations people must have a genuine say in where and how they're extracted.

When minerals and communities collide



The International Energy Agency <u>projects</u> lithium demand for electric vehicle batteries will grow 40 times on current levels by 2040. Our study found 85% of the world's lithium reserves and resources overlap with Indigenous peoples' lands.

Demand for nickel and manganese is projected to grow 20-25 times. We found 75% of manganese and 57% of nickel reserves and resources also overlap with these lands.

Copper and iron ore are essential for <u>power generation</u>, as well as its transport, storage and use. Some <u>scenarios</u> predict an increase in copper demand of more than 250% by 2050. We found 66% of the world's copper and 44% of iron reserves and resources overlap with Indigenous peoples lands globally.

Overall, across the 5,097 projects in our study, 54% are on or near Indigenous peoples' lands. And almost one-third are on or near lands over which Indigenous peoples are recognized as having control or influence for conservation purposes.

Free, prior and informed consent

Last year, Indigenous groups and from around the world signed a <u>declaration</u> calling on climate negotiators at the <u>COP26</u> United Nations Climate Change Conference to commit to sourcing transition minerals more responsibly.

They also called on governments and corporations to obtain the "<u>free</u>, <u>prior and informed consent</u>" of Indigenous peoples in decisions that affect them.

This type of consent is <u>enshrined</u> in the United Nations Declaration on the Rights of Indigenous Peoples. It means Indigenous peoples should be



able to accept or reject mining on their traditional lands, and to negotiate conditions such as protecting natural and cultural heritage.

Mining has hugely complex repercussions <u>and can cause</u> severe harms to societies, the environment and human rights. Consultation and consent processes take time. Companies and governments seeking to extract resources in haste are likely to fail to <u>meaningfully engage</u> with communities.

If new mining projects are <u>fast-tracked</u>, there is a huge risk of corners being cut. Without proper consultation and <u>legal protections</u>, the future supply of transition minerals could put Indigenous peoples' lands at greater risk.

Weak laws must be strengthened

Australia has a shocking track record in protecting Indigenous heritage and obtaining consent.

In May 2020, Rio Tinto <u>destroyed</u> 46,000 year old Aboriginal rock shelters to mine <u>iron ore</u>, against the wishes of traditional owners, the Puutu Kunti Kurrama and Pinikura peoples.

The traditional owners <u>said</u> the destruction was a tragedy for their people, all Australians and humanity. Alarmingly, the destruction was legal.

Last week, responding to a federal parliamentary inquiry into the Juukan Gorge incident, Environment Minister Tanya Plibersek said the destruction of the rock shelters was "completely wrong". She acknowledged the massive power imbalance when traditional owners negotiated with mining companies, and the lack of resources they can draw on.



Plibersek said legal reform is urgently needed to stop such destruction happening again. In this vein, the Commonwealth has signed an <u>agreement</u> with the <u>First Nations Heritage Protection Alliance</u> to codesign new <u>cultural heritage</u> laws.

Initiatives such as <u>Dhawura Ngilan</u> (Remembering Country) set a collective vision for best-practice heritage standards and legislation. Companies and investors should apply these protocols while our laws catch up.

In the meantime, other heritage sites in Western Australia are <u>threatened</u> by existing development approvals. And the new Aboriginal Cultural <u>Act</u> still vests the minister with <u>ultimate power</u> to decide the fate of Aboriginal heritage.

Indigenous <u>leaders</u> remain deeply concerned that tragic incidents such as Juukan Gorge could happen again.

What does the future hold?

To avoid a dual climate and cultural catastrophe, First Nations groups in Australia and elsewhere are joining forces and making their voices heard on the world stage.

At this year's <u>COP27</u> climate conference, the International Indigenous Peoples <u>Forum</u> on Climate Change hosted an Indigenous <u>pavilion</u> in the "<u>blue zone</u>", where advocates gather to network and discuss important issues. Such global First Nations <u>solidarity</u> is becoming vital in the fight against <u>climate change</u> and achieving a <u>just energy transition</u>.

Indigenous peoples must also have access to the latest data and information—including what future mineral wealth lies on their lands. This is one practical step towards addressing power imbalances.



Solutions to the climate crisis must be found, and energy transition minerals are an important part of the puzzle. However, First Nations aspirations for maintaining the natural and cultural integrity of their lands and territories, and participating in decisions about mining, must be at the forefront.

More information: John R. Owen et al, Energy transition minerals and their intersection with land-connected peoples, *Nature Sustainability* (2022). DOI: 10.1038/s41893-022-00994-6

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