

Communities Affected by Transiton Mineral in Indonesia

February 12, 2025

Sawung
WALHI/FoE Indonesia







Transisi Energi

FOSSIL FUELS



Large mining quantities

In 2021, 15 billion tonnes of fossil fuels were extracted.¹



Generate huge rents

Oil and gas exports alone represented a value of USD 2 trillion in 2021.³



Combusted as fuel

Fossil fuels are primarily burned as fuel, accounting for approximately 94% of their usage.⁵



Energy security risk

A disruption in the supply of fossil fuels can lead to immediate energy shortages and price spikes.



Not recyclable

Fossil fuels are primarily consumed through combustion and cannot be recovered or repurposed.





Low mining quantities

Some 10 million tonnes energy transition minerals were produced in 2022 for low-carbon technologies.²



Generate smaller profits

Exports of copper, nickel, lithium, cobalt and rare earths generated 96 billion in 2021.4



Input to manufacturing

Critical materials are housed within energy assets that typically have a 10–30 year lifespan.



Energy transition risk

Disruptions in the supply of critical minerals can delay the construction of new clean energy assets, but do not affect current energy prices or supply.



Reusable and recyclable

High potential for reducing use, reusing and recycling.





Cobalt	Co Co
Democratic Republic of the Congo	70.0%
Indonesia	5.4%
Russian Federation	4.8%
Australia	3.2%
Canada	2.1%
Cuba	2.0%
Philippines	2.0%
Others	10.5%

	29
Copper	Cu
Chile	23.6%
Peru	10.0%
Democratic Republic of the Congo	10.0%
China	8.6%
United States	5.9%
Russian Federation	4.5%
Indonesia	4.1%
Australia	3.7%
Zambia	3.5%
Mexico	3.3%
Kazakhstan	2.6%
Canada	2.4%
Poland	1.7%
Others	16.1%

Dysproslum	Dy		
China	48.7%		
Myanmar	23.1%		
Australia	7.6%		
United States	2.9%		
Canada	2.7%		
Others	15.0%		
	6		
Graphite			

Grupilite	1000
China	64.6%
Mozambique	12.9%
Madagascar	8.4%
Brazil	6.6%
Others	7.5%

Iridium	14dan
South Africa	88.9%
Zimbabwe	8.1%
Russian Federation	2.9%
Others	0.1%
	3

	3
Lithium	Li
Australia	46.9%
Chile	30.0%
China	14.6%
Argentina	4.7%
Brazil	1.6%
Others	2.2%

	25
Manganese	Mn
South Africa	35.8%
Gabon	22.9%
Australia	16.4%
China	4.9%
Ghana	4.7%
India	2.4%
Brazil	2.0%
Ukraine	2.0%
Côte d'Ivoire	1.8%
Malaysia	1.8%
Others	5.3%

Neodymlum	Nd Md
China	45.8%
Australia	23.1%
Greenland*	8.2%
Myanmar	7.4%
Brazil	4.4%
India	2.1%
Others	9.0%

*Kingdom o	of Denmark

Nickel	Ni water
Indonesia	48.8%
Philippines	10.1%
Russian Federation	6.7%
France (New Caledonia)	5.8%
Australia	4.9%
Canada	4.0%
China	3.3%
Brazil	2.5%
Others	13.9%

	78 D+
Platinum	Pl
South Africa	73.6%
Russian Federation	10.5%
Zimbabwe	7.8%
Canada	3.1%
United States	1.7%
Others	3.3%

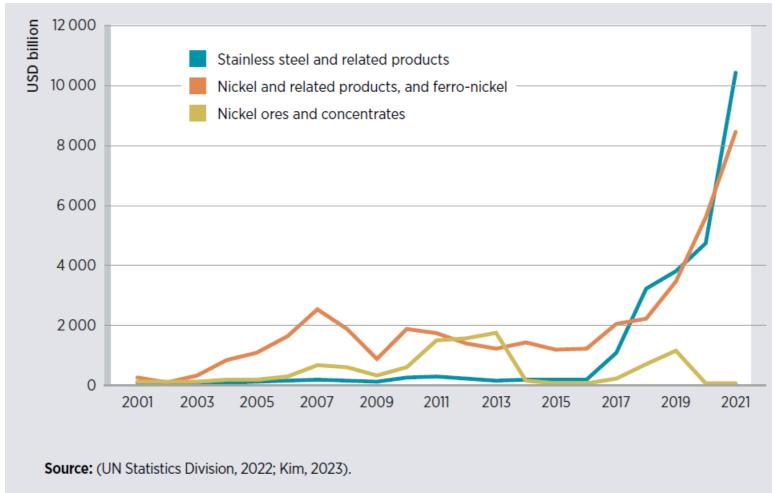


^{*} latest data available as of 2023

Source: (US Geological Survey and US Department of the Interior, 2023; JRC, 2020; USGS, 2023b).



Indonesia Nickel Product Eksport \$









Perkembangan Ekspor Nikel dan Produk Nikel Indonesia

Q Search in table

Nilai (US\$) Berat (Kg)

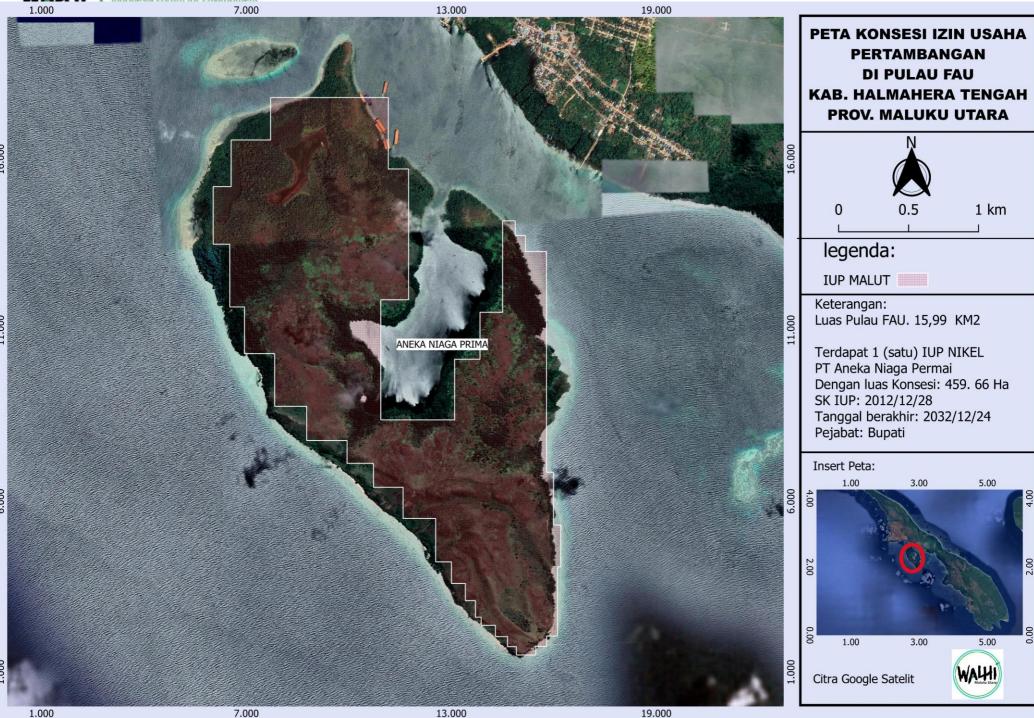
Tahun	Bijih nikel	Ferro nikel	Nikel dan barang daripadanya	Bijih nikel	Ferro nikel
2010	532,446,129	373,596,120	1,435,873,060	17,566,047,388	80,141,696
2011	1,428,040,011	470,120,738	1,217,975,282	40,792,164,833	78,837,659
2012	1,489,084,347	336,764,138	993,317,965	48,449,392,135	77,121,342
2013	1,685,247,617	232,038,214	941,569,462	64,802,857,120	6,818,828
2014	85,913,010	292,133,409	1,058,062,058	4,160,120,660	83,749,431
2015	0	330,332,112	806,080,508	0	181,699,869
2016	0	571,298,623	595,513,650	0	411,438,077
2017	155,189,439	1,331,356,652	646,654,846	4,882,727,800	1,016,014,982
2018	628,026,535	1,361,123,814	790,515,322	19,764,458,737	846,994,788
2019	1,097,012,524	2,595,556,909	813,159,313	32,380,134,812	1,593,695,385
2020	117	4,738,860,405	808,419,686	1,405	2,871,507,780
2021	43	7,087,354,344	1,284,499,463	65	3,503,988,031
2022	29	13,621,270,768	5,977,671,430	492	5,779,785,224





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Saporlite; Low Fe, Ni 1,5%-3%, Type of smelter in Indonesia Blast Furnance dan RKEF Product: Nikel Pig Iron, Nikel Matte Limonite; Hi Fe, Ni 0,8%-1,5%, Type smelter in Indonesia High Pressure Acid Leaching Product: Nickel Sulfate



WHI Wahana Lingkungan Hidup Indonesia Indonesia Forum for Environment

Mahana Lingkungan Hidup Indonesia Indonesia Forum for Environment

Community



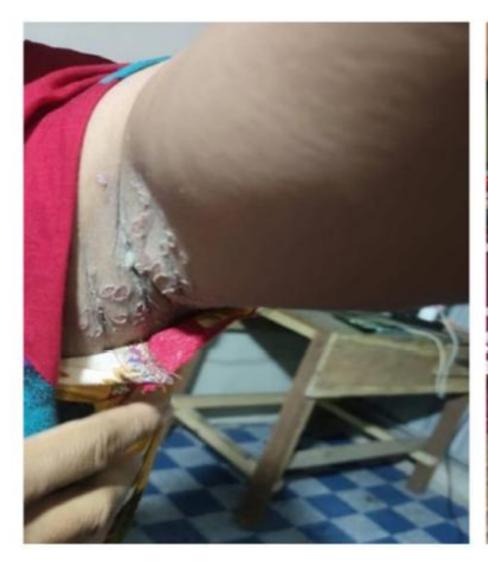








WALLING Wahana Lingkungan Hidup Indonesia Indonesia Forum for Environment Mahana Lingkungan Hidup Indonesia Indonesia Forum for Environment Community







Wahana Lingkungan Hidup Indonesia Indonesia Forum for Environment The Community Wahana Lingkungan Hidup Indonesia Indonesia Forum for Environment The Community







Wathana Lingkungan Hidup Indonesia Indonesia Forum for Environment Community Demand

- Stop land and sea grabbing
- Stop Pollution
- Environment Restoration and damage compensation
- Stop mining ekspansion
- Health assasment and treatment







Terima Kasih Thank You sawung@walhi.or.id



