



## One Flew Over the Greenies' Nest

### Description

Western societies are in a race to achieve net-zero carbon emissions by 2050. Greenies claim technology currently exists to reach net zero, is affordable, and is not an economy wrecker. The [elites](#) want a first-generation green power grid relying on renewable wind turbines, solar panels, and power storage batteries to entirely phase out fossil fuel or nuclear power plants. Also, replacing the internal combustion engine with electric motors powered by lithium batteries. **The problem with renewable energy is it is intermittent and not scalable.**

Wind turbines and solar panels have a short life cycle of twenty years or so. They can't be retrofitted like fossil fuel or nuclear power plants, which can be extended up to fifty years. Electric vehicles must be scrapped too. **The term "replaceable" would be better suited than "renewables."** Once their short economic lives are exhausted, renewable energy and EVs must be disposed of into massive toxic dumps.



Wind Turbine Dump in West Texas

I have horrible news for the greenies; net-zero carbon isn't achievable. All because Greenies failed to research whether or not there are sufficient base and rare earth metals and adequate time to mine and build out the technologies to accomplish the net-zero carbon 2050 target date.

A recent study by the Geological Survey of Finland found that implementation would take centuries at the current extraction rates, and there need to be more proven reserves of base metals and rare earth.

The study found the current estimated metal reserves are woefully deficient in almost every category. The table below has categories where deficits are yellow highlighted. So are the Greenies counting on [mining](#) the moon and asteroids to make up the scarcities?

### **Estimated Metal Reserves 2022**

Metal Source: USGS	Total metal required produce one generation of technology units to phase out fossil fuels (tonnes)	Reported Global Reserves 2022 (tonnes)	Global Reserves as a proportion of metals required to phase out fossil fuels (%)	Number of generati technology units that produced from gl reserves
Copper	4 575 523 674	880 000 000	19,23 %	
Zinc	35 703 918	250 000 000		7,0
Manganese	227 889 504	1 500 000 000		6,6
Nickel	940 578 114	95 000 000	10,10 %	
Lithium	944 150 293	22 000 000	2,33 %	
Cobalt	218 396 990	7 600 000	3,48 %	
Graphite (natural flake)	8 973 640 257	320 000 000	3,57 %	
Silicon (Metallurgical)	49 571 460	-		
Silver	145 579	530 000		3,6
Vanadium	681 865 986	24 000 000	3,52 %	
Zirkonium	2 614 126	70 000 000		26,8

Source: BGR 2021, USGS, Friedrichs 2022

Below is the study's table estimating the years to produce the required metals. For example, **lithium would take almost ten millenniums to achieve.** In addition, these scarce minerals must be mined, transported, and processed, relying exclusively on hydrocarbons, which would create more carbon emissions.

### Estimated Annual Metal Production Rates

Metal	Element	Total metal required produce one generation of technology units to phase out fossil fuels (tonnes)	Global Metal Production 2019 (tonnes)	Years to produce metal at 2019 rate production (years)
Copper	Cu	4 575 523 674	24 200 000	189,1
Nickel	Ni	940 578 114	2 350 142	400,2
Lithium	Li	944 150 293	95 170 *	9920,7
Cobalt	Co	218 396 990	126 019	1733,0
Graphite (natural flake)	C	8 973 640 257	1 156 300 ♦	3287,9
Graphite (synthetic)	C		1 573 000 ♦	-
Silicon (Metallurgical)	Si	49 571 460	8 410 000	5,9
Vanadium	V	681 865 986	96 021 *	7101,2
<b><u>Rare Earth Metals</u></b>				
Neodymium	Nd	965 183	23 900	40,4
Germanium	Ge	4 163 162	143	29113,0
Lanthanum	La	5 970 738	35 800	166,8
Praseodymium	Pr	235 387	7 500	31,4
Dysprosium	Dy	196 207	1 000	196,2
Terbium	Tb	16 771	280	59,9

Source: BGR 2021, USGS, Friedrichs 2022

The above tables are from the “Assessment of Extra Capacity Required of Alternative Energy Electrical Power System to Completely Replace Fossil Fuels” study by Associate Professor Simon P. Michaux of Geometallurgy. The Powerpoint summary can be downloaded from the link below:

<https://docs.google.com/presentation/d/1ZVUI9UAWeydwhbBAqzm7vvSgV2kU0ki3/edit?usp=sharing&ou>

The hard cold facts and math don't support the Greenies' rhetoric. Eliminating fossil fuels at an accelerating rate without replacing the equivalent of alternative energy would quickly collapse modern society. Energy is the economy. The net-zero movement is 'sound and fury, signifying nothing' but misery.

**Could the NATO proxy war with Russia have an ulterior motive to collapse Russia to grab its vast natural resources to fulfill the Greenies' net-zero fantasies?**

**by Bob Bishop**

**Category**

1. ECO-Climate-Environment

2. Main

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