CRITICAL RAW MATERIALS FOR RENOWABLE ENERGIES

Raw materials are closely linked to clean technologies. They are irreplaceable in solar panels, wind turbines, electric vehicles, and energy-efficient lighting.

RENOWABLE ENERGIES



wind power





biomass energy

geothermal energy





solar energy

Maker: Luna Nieto Gomez La Salle Institución, Madrid



Photovoltaic use already accounts for 8% of silver demand

















Constructing solar panels and wind farms on a significant scale takes a large amounts of metal like Steel, Silicon and Copper

While not technically renewable, nuclear energy is considered sustainable by the most.

In fact, it's the safest type of energy (by far in terms of deaths per TWh generated,



Some high-ranking researchers are trying to make a sustainability plan for the year 2050 on this topic, renewable energies linked to critical raw materials

Source: EEA





1.5 million tonnes of glass,metals and silicon

Principal materials

Aluminium Glass and silicon Silver

Copper Critical raw materials

Indium Germanium



Wind energy

4,75 million tonnes of concrete, metals and composites

Principal materials

Steel and Iron Glass/carbon composites Copper Zine

Dysprosium NEODYMIUM.



Energy storage and mobility

240,000 tonnes of lithium-ion batteries

Principal materials

Graphite Aluminium Copper Nickel

Critical raw materials Critical raw materials

Cobalt Lithtum