# Sprott

# 9 CRITICAL ENERGY MINERALS

FOR INVESTORS

**Sprott has identified nine essential** minerals from the U.S. 2022 Critical Minerals List that play a vital role in transitioning to clean energy, opening up investment opportunities in the fast-changing clean energy market.



#### MINERALS NEEDED BY TECHNOLOGY



### 9 Minerals for Clean Energy

COMPOUND ANNUAL GROWTH RATE (CAGR), 2022-2027P

# **LITHIUM** 25% CAGR 95% of lithium demand is expected to come from batteries by 2030.

SOURCE: ReportLinker (CAGR),

### **SILVER**



Silver is essential for contacts in solar panels as it has the highest electrical and thermal conductivity among all metals.

SOURCE: ReportLinker (CAGR), The Silver Institute

#### RARE **EARTHS**



Neodymium, praseodymium, dysprosium, and terbium are key components in the magnets used in EVs and wind turbines.

SOURCE: Technavio (CAGR), IRENA

## **URANIUM**

McKinsey & Company



Nuclear power ranks as the second-largest contributor to low-carbon energy generation for electricity production.

SOURCE: Technavio (CAGR), International Energy Agency

#### **COPPER**



Renewable energy systems can use up to six times more copper than traditional sources.

SOURCE: Technavio (CAGR), Copper Alliance

## **COBALT**



**Cobalt** enhances battery power density and is part of 63% of EV batteries worldwide.

SOURCE: 360 Market Updates (CAGR), Cobalt Institute

## **GRAPHITE**



**Graphite** is the largest component in a lithium-ion battery by volume.

SOURCE: IndustryARC (CAGR), European Carbon and Graphite Association

#### **NICKEL**



**Nickel-based** battery cathodes offer high energy density and increased driving ranges for EVs.

SOURCE: Market Research Future (CAGR), Reuters

## **MANGANESE**



Manganese is crucial for its use as a stabilizing component in many lithium batteries for EVs.

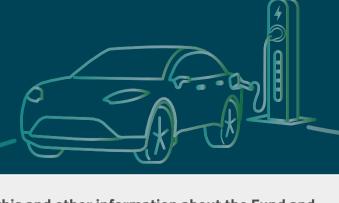
SOURCE: IndustryARC (CAGR), Umicore

Sprott Energy Transition ETFs offer a focused investment opportunity in the miners of minerals essential to the clean energy transition.



**Invest in the Energy of Tomorrow** 

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Before investing in Sprott Energy Transition ETFs, you should consider each Fund's investment objectives, risks, charges and expenses. Each Fund's prospectus contains this and other information about the Fund and should be read carefully before investing. A prospectus can be obtained by calling 888.622.1813 or by visiting sprottetfs.com

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