

# Demand for antimony in photovoltaic energy storage batteries

Can antimony be used for solar energy storage?

In the energy storage sector, liquid-metal batteries utilize antimony to store and distribute excess solar power efficiently. With the growing prominence of solar installations, antimony's significance in the energy transition is set to expand further.

Could antimony be a key component in battery technology?

The future increase in demand for antimony lies in its potential to become a crucial component in battery technology. Antimony's unique property as a heat retardant is essential in preventing thermal runaway in batteries, making it a crucial element in the development of effective energy storage systems.

What is the demand for antimony?

**Rising Demand** The demand for antimony has been steadily increasing, particularly in the renewable energy sector. Antimony is a critical component in photovoltaic (PV) glass used in solar panels. With record levels of solar PV installations, especially in China, the demand for antimony has surged.

Why are antimony prices so volatile?

The metal is also essential in the production of lead-acid batteries, energy storage systems, and flame-retardant materials. **Geopolitical Factors** Geopolitical tensions have further contributed to the volatility in antimony prices.

Apart from PV glass, more antimony will be needed for growing use of battery and electronics, increasing the risk of shortages for clean energy. Sb is also used as a cathodic material ...

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In energy storage, liquid-metal batteries use antimony to store and distribute excess solar power. As solar installations grow, antimony's role in the energy transition will expand.

Antimony is a type of critical metal for the energy transition. The antimony industry chain is distributed among the major developed and developing countries around the world. With the ...

Estimated recyclable antimony (Sb) in end-of-life PV glass by region from 2000 to 2050. (Note: In each subplot, solid-colored lines represent regional antimony demand under different ...

The diverse end uses of antimony result in its recycling being challenging. Furthermore, its accelerated demand is rapidly depleting its reserve. Therefore, the surging demand for antimony ...

These battery storage systems are capable of operating safely in any climatic condition, lasting for over 20 years with minimal degradation, Ambri said. Commercial production of Ambri's batteries in 2023 ...

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The Silent Crisis: Solar Growth vs. Antimony Shortages As global PV storage capacity surges past 1.2 terawatt-hours in 2025 \*, a critical component often flies under the radar - antimony. This brittle ...

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