

# **Demand for antimony in photovoltaic energy storage batteries**





## Overview

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Demand for antimony for sodium antimonate production, an antimony compound used as a cleaning agent in the photovoltaic industry, rose to over 30,000t/yr during 2021 and 2022 from 10,000-20,000t/yr earlier, driven by developments in the solar photovoltaic (PV) industry, according to market participants. 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.

How will antimony prices affect the energy industry?

The surge in antimony prices has significant implications for various industries. Manufacturers of lead-acid batteries, solar panels, and flame-retardant materials are facing higher production costs. This could lead to increased prices for end consumers and potentially slow down the adoption of renewable energy technologies.

Can antimony be integrated in energy storage materials?

With over 37% rise in electric vehicle production in recent years and more than 21% growth in demand for stationary energy storage systems, the opportunity for antimony integration in energy storage materials is expanding.

Why is antimony important for solar panels?

Antimony's demand has risen due to increasing industrial use and China's dominance in production. The silver white metal is crucial in solar panels. It makes perovskite solar cells work better by helping them absorb more light and convert energy more effectively. It also enhances thermal stability, helping panels endure extreme conditions.

Why is the antimony market gaining momentum?



Investment in the antimony market is gaining momentum due to its strategic importance in energy storage, flame retardants, and alloy applications. Over 34% of global demand is now driven by technological upgrades in battery chemistry, especially in electric vehicles and grid storage solutions.

What is the future of antimony supply?

The global antimony market is evolving, with countries diversifying their supply chains to mitigate risks associated with concentrated production centers. The future of antimony supply hinges on collaborative efforts and innovative solutions to ensure a stable and sustainable global supply chain. Matt Lyons is the founder of Forestry & Carbon.



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### [The Future of Antimony: Rising Prices, Supply Chain Risks, and Demand](#)

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.

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Antimony trisulfide is a promising light harvester for photovoltaics. Here the growth of single-crystals of antimony trisulfide on polycrystalline titania is reported to proceed via an epitaxial ...

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With the development of clean energy technology, the demand for antimony in photovoltaic and energy storage fields will increase significantly.

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China recently announced a ban on the export of key raw materials: gallium, germanium, antimony, and graphite. ranging from energy storage in batteries to heat management, ...



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The current paper gives an overview of battery systems commonly used in PV installation, as well as several new options which are found suitable or have been modified ...

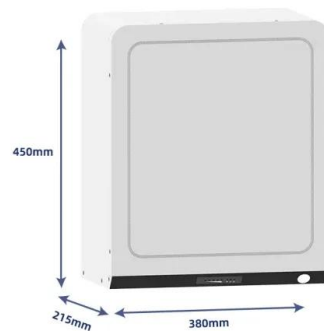
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In the energy storage sector, liquid-metal batteries utilize antimony to store and distribute excess solar power efficiently. With the growing prominence of solar installations, ...

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### [Solar Integration: Solar Energy and Storage Basics](#)

The AES Lawai Solar Project in Kauai, Hawaii has a 100 megawatt-hour battery energy storage system paired with a solar photovoltaic system.

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## [A SHARES ENERGY STORAGE BATTERY ANTIMONY](#)

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 ...

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## **Antimony Metal Market**

Lead-acid batteries, consuming 20% of antimony supply, remain critical for automotive and energy storage systems. Despite competition from lithium-ion batteries, antimony's role in ...

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## [How the Green Energy Boom is Impacting Antimony Price Trends ...](#)

Use of antimony in energy storage devices, especially in lead-acid batteries used in the storage of solar and wind energy, is another of the key drivers of demand.

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## [The Future of Antimony: Rising Prices. Supply Chain Risks. and ...](#)

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.

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About Photovoltaic energy storage should use antimony or antimony As the photovoltaic (PV) industry continues to evolve, advancements in Photovoltaic energy storage should use ...

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### [Antimony Market Growth Outlook & Insights to 2033](#)

The US Antimony Market is witnessing consistent growth, supported by increasing demand in automotive and energy storage applications. Around 19% of the domestic market is ...

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As global PV storage capacity surges past 1.2 terawatt-hours in 2025\*, a critical component often flies under the radar - antimony. This brittle metalloid plays a pivotal role in lead-acid batteries ...

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### [How the Green Energy Boom is Impacting Antimony Price Trends...](#)

Antimony is a critical element to be utilized in most sectors, but the green energy industry has especially put into perspective how significant it is. The metal finds most ...

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### [Viewpoint: Antimony use likely in new technologies](#)

Antimony could be used in several new technologies in coming years, supporting the market for the element even as supply remains tight because of depleted resource around the world.

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### [Antimony may be a renewable energy hero](#)

An unsung war hero that saved countless American troops during World War II, an overlooked battery material that has played a pivotal role in storing electricity for more than ...

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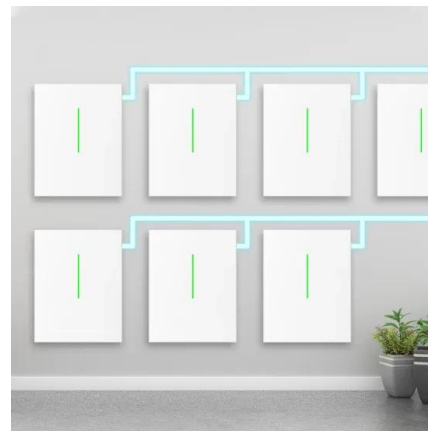
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### **Antimony**

Emerging Battery Applications: Antimony's applications have expanded into battery storage technology, particularly in utility-scale storage plants. Its properties make batteries ...

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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. ...

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### [A Review on the Recent Advances in Battery ...](#)

1. Introduction In order to mitigate the current global energy demand and environmental challenges associated with the use of fossil fuels, there is a ...

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With record levels of solar PV installations, especially in China, the demand for antimony has surged. The metal is also essential in the production of lead-acid batteries, ...

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### [New energy storage battery antimony](#)

As the photovoltaic (PV) industry continues to evolve, advancements in New energy storage battery antimony have become critical to optimizing the utilization of renewable energy ...

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### [Demands and challenges of energy storage ...](#)

Through analysis of two case studies--a pure photovoltaic (PV) power island interconnected via a high-voltage direct current (HVDC) system, ...

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### [Technological trends, emerging applications and metallurgical](#)

With technological advances, recent trends indicate a growing demand for this metal; however, with the on-going production rate, antimony is anticipated to become one of ...

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### [Exploring antimony material flow in the context of energy ...](#)

As North America and the EU have largely transitioned to antimony-free batteries, the future demand for antimony-containing batteries would be primarily concentrated outside ...

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