

## **PIENAAR ENERGY (PTY) LTD**

# **Is there a big demand for lithium batteries for energy storage stations**



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### Lithium gains momentum in 2025 , Kitco News

Lithium-ion batteries are becoming increasingly vital for use in rapidly growing data centers. They have a longer lifespan, higher energy density and faster recharge and discharge cycles than other batteries.

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### Status of battery demand and supply - Batteries and Secure Energy

In the past five years, over 2 000 GWh of lithium-ion battery capacity has been added worldwide, powering 40 million electric vehicles and thousands of battery storage projects.



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### Lithium Demand for Energy Storage Systems Growth 2025

Energy Storage Systems are projected to account for approximately one-third of total battery demand by 2030, representing a 65% increase from the current 20% market share.

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## Advancing energy storage: The future trajectory of lithium-ion battery

Lithium-ion batteries have become the dominant energy storage technology due to their high energy density, long cycle life, and suitability for a wide range of applications.



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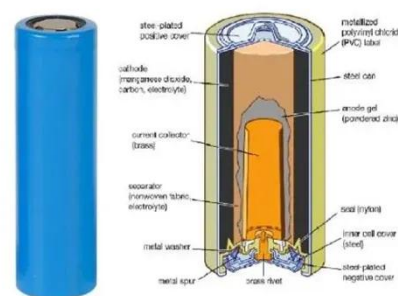
## The Future of Energy Storage: Five Key Insights on ...

What's more, the rapid growth in electric vehicle (EV) sales will similarly push massive demand for batteries, especially lithium-ion ones.

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## Lithium May Get Much-Needed Demand Boost From Battery Storage

Lithium bulls are betting on energy storage systems as the next meaningful pillar of demand for the battery metal, nudging the global market back toward balance after years of oversupply.



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## The Future of Lithium: Trends and Forecast

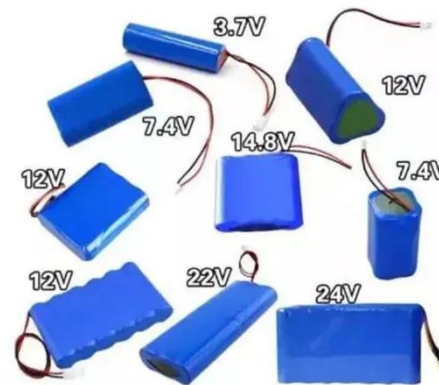


With renewable energy infrastructure expanding rapidly across the globe, the demand for lithium-ion batteries in energy storage systems will only continue to rise.

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## What's Driving Lithium Demand in 2025 and Beyond?

Stationary storage is emerging as the second pillar of demand growth. Global grid-scale battery deployments exceeded 90 GWh in 2024, with costs for lithium-based systems expected to fall by up to 40% ...



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## Beyond Lithium: The Next Frontier In Energy Storage

Global demand for energy storage is surging. Lithium-ion leads today, but new contenders like sodium-ion, flow, and gravity systems are shaping the future grid.

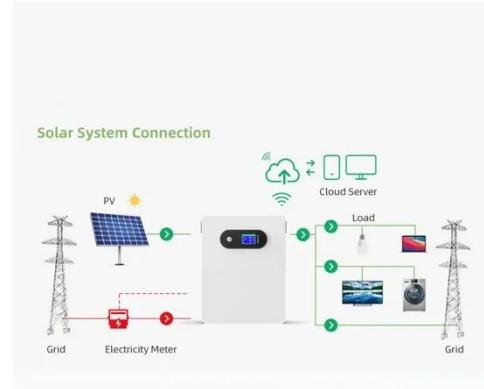
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## The Lithium Bottleneck: Challenges in Energy Storage

As the global energy transition accelerates, lithium-ion batteries have

become the cornerstone of both electric mobility and stationary energy storage. Yet, this massive growth in demand has brought a ...

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