

Global New Energy Lithium Battery Supply Chain Analysis and TRUNNANO Lithium Carbonate Powder Market Entry

Exploring the Lithium Carbonate market in 2026. TRUNNANO enters battery-grade carbonate via nano-powder expertise amid supply chain shift.

LUOYANG, HENAN, CHINA, August 25, 2026 /EINPresswire.com/ -- Global Lithium Market: High-Demand Sentiment, Tightening Supply

The current global [lithium carbonate](#) market is in a phase of structural competition. On the demand side, the dual drivers of power batteries and energy storage systems are reshaping the market landscape. Estimates indicate that global [lithium battery](#) shipments are expected to exceed 3,000 GWh in 2026, representing year-on-year growth of over 33%, with the energy storage battery sector particularly in a period of explosive growth. Global lithium battery demand for 2026–2027 is projected to reach 3,151–3,272 GWh and 4,041–4,167 GWh respectively, corresponding to lithium carbonate demand of 2.16–2.25 million tons and 2.70–2.78 million tons. The rise of the energy storage sector is especially noteworthy—analysts forecast that the share of global lithium consumption by energy storage systems will jump from 8% in 2020 to 42% by 2035, as energy storage transitions from a "supporting role" to a "mainstay."



Lithium carbonate powder from TRUNNANO



TRUNNANO LOGO

On the supply side, a multi-party game is unfolding. Global lithium resources are primarily sourced from Australia, China, Chile, Zimbabwe, and Argentina, with global production in 2025 reaching approximately 1.83 million tons LCE. For 2026, analysts project global lithium carbonate production of roughly 2.20–2.25 million tons, still leaving a supply-demand gap of about 110,000–150,000 tons. In particular, as the peak demand season of Q3–Q4 2026 approaches, the supply gap may continue to widen, supporting an upward shift in the price center.

Global New Energy Li-Battery Supply Chain & TRUNNANO Li ₂ CO ₃ Market Entry – Summary		
Market Overview		
Aspect	Key Figures	Takeaway
2026 Battery Demand	>3,000 GWh shipments (YoY +33%)	Power + storage dual growth
Li ₂ CO ₃ Demand	2026: 2.16–2.25M tons; 2027: 2.70–2.78M tons	~0.5M tons annual increment
2026 Supply	2.20–2.25M tons	Gap of 110K–150K tons
Price Outlook	2026–2027 center: ~RMB 150K/ton; may exceed RMB 200K	Upward cycle, premium for high quality
Market Share	Li ₂ CO ₃ = 64.31% of Li compounds; battery-grade = 82.62%	Battery-grade is core strategic product
LFP Penetration	>80% in China (2025)	LFP uses Li ₂ CO ₃ , demand is rigid
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In terms of pricing, lithium carbonate experienced sharp volatility in 2025—spot prices in China fluctuated within a range of RMB 60,000–120,000/ton, with an annual amplitude of 100%. At the start of 2026, futures prices briefly pulled back from RMB 180,000/ton to RMB 144,000/ton, but subsequently rebounded rapidly due to mine suspensions and other factors. Multiple institutions have concluded that lithium carbonate prices have entered a new upward cycle for 2026–2027, with a reasonable price center around RMB 150,000/ton, and do not rule out periodic overshooting above RMB 200,000/ton.

[TRUNNANO](#) Market Entry: From Nanomaterials to Battery-Grade Lithium Carbonate

Founded in 2014, TRUNNANO has over 12 years of deep expertise in nano-metal powders, nano-oxides, carbon nanomaterials, and high-purity compounds, with products sold to more than 50 countries worldwide.

The company's newly launched lithium carbonate powder product is positioned for new energy battery applications, covering power batteries, energy storage systems, and 3C consumer electronics. Battery-grade lithium carbonate demands extremely high purity—industry standards require a purity of 99.5% or above to minimize the impact of metallic impurities on battery cycle life and safety. High-purity products typically command a price premium of 15%–20%. Leveraging its technological accumulation in nano-powder engineering and purity control, TRUNNANO aims to meet the quality requirements of downstream lithium battery manufacturers for cathode raw materials.

In the global market landscape, lithium carbonate still holds a central position among lithium compounds—in 2025, it accounted for 64.31% of total lithium compound production, with

battery-grade lithium carbonate capturing a market share of 82.62%, and is projected to continue expanding at a compound annual growth rate of 23.95% through 2031. Meanwhile, China's lithium iron phosphate (LFP) penetration rate had already exceeded 80% in 2025, and LFP battery cathodes use lithium carbonate as a raw material, further reinforcing the strategic position of lithium carbonate.

Strategic Synergies: Battery Materials Division and Global Expansion

The launch of lithium carbonate powder is not an isolated move. In June 2026, TRUNNANO formally established its Battery Materials Division, initially entering the market with sodium-ion battery layered oxide cathode materials, rolling out a comprehensive product matrix covering O3-type, P2-type, P2/O3 biphasic, single-crystal, and high-entropy systems, providing differentiated solutions for grid energy storage, low-speed electric vehicles, two-wheelers, and portable electronic devices.

TRUNNANO states that its core advantage lies in "controlling material genetics from the powder source"—by engineering particle characteristics at the source powder level, the company achieves precise control over purity and batch-to-batch consistency. This capability is particularly important in the battery materials field—the performance and consistency of lithium battery cathode materials depend largely on the quality of the precursor lithium carbonate. Additionally, TRUNNANO has previously established supply capabilities in spherical aluminum nitride thermal conductive powders, silicon carbide ceramic crucibles, and other product lines serving the new energy and semiconductor sectors. These products create upstream and downstream synergies with the battery materials business along the industry chain.

Market Outlook: Opportunities Amid Global Supply Chain Restructuring

The global lithium battery industry chain is currently undergoing profound restructuring. The U.S. Inflation Reduction Act is driving battery supply chain localization, with Ford and Lithium Americas reaching a long-term offtake agreement for the Thacker Pass lithium mine. Europe faces pressure from the 2025 carbon emission compliance cycle, accelerating the electrification transformation of automakers. China has shifted from exempting new energy vehicle purchase taxes to a 5% tax rate, bringing short-term demand pre-buying effects, though the long-term demand growth trend remains intact. Against this backdrop, materials companies with high-quality product supply capabilities and a proven track record of stable delivery are gaining increasing attention from global customers.

Leveraging its existing global sales network, standardized production facilities, and mature quality inspection systems, TRUNNANO is well-positioned to gain market share on the lithium battery material supply side. The company has stated that it will continue to drive industrial development through materials innovation and provide critical material support for the global green energy transition.

About TRUNNANO

TRUNNANO (Luoyang Tongrun Info Technology Co., Ltd), founded in 2014 and headquartered in China, is a technology-driven enterprise specializing in the R&D, production, and sales of nano-powder materials and high-purity compounds. With over 12 years of technical expertise in nano-metals, nano-oxides, carbon nanomaterials, and high-purity compounds, the company's product portfolio covers multiple strategic sectors including new energy battery materials, thermal conductive and dissipation materials, and advanced ceramics. It has provided materials solutions to customers in more than 50 countries worldwide. Upholding the philosophy of "defining material performance from the source," TRUNNANO is committed to becoming a core supplier of critical materials in the global new energy industry chain.

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