

Global High-Purity Manganese Sulfate Market 2026

Market size, segmentation, competitive landscape and outlook

2021-2031

Moving forward, together



Every one of us has, at some point, heard the line from *Alice in Wonderland*: “It takes all the running you can do, to keep in the same place. If you want to get somewhere else, you must run at least twice as fast.” Cliché as the quote has become, our world is changing at extraordinary speed. And yet, to my mind, it matters not only to run fast, but — more importantly — to know where you are running.

We see ourselves as the navigator, ready at the right moment to point out the correct course. By providing current, timely information for the decisions that matter, we aim to protect our clients from missteps and to help them find new opportunities.

It matters to us that you are satisfied with the work we have done. If you have any questions about this report, we will be glad to answer them.

ANDREY SHEVCHENKO, Managing Partner

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Market at a glance

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Indicator	Value
Market size (2025)	USD 0.5 bn
Forecast (2031)	USD 1.8 bn
CAGR (2021-2031)	22%
Study period	2021-2031
Largest region	Asia-Pacific · 81.5%
Fastest-growing region	North America · 31.4%
Market concentration	High
Licence	Individual / Company

The global high-purity manganese sulfate market reached USD XXX billion in 2025 and will expand to USD XXX billion by 2031, advancing at a XX% CAGR. Electric-vehicle batteries remain the principal demand engine, while lithium manganese iron phosphate is creating a second high-growth pathway alongside nickel-manganese-cobalt cathodes. Asia-Pacific accounts for XX% of current revenue, but policy-backed investments are establishing qualified supply chains in North America, Europe and Africa. The report examines market value, physical demand, pricing, production routes, cathode applications, regional supply security and the competitive project pipeline.

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Executive summary

The global high-purity manganese sulfate market reached USD XXX billion in 2025 and will expand to USD XXX billion by 2031, advancing at a XX% CAGR. Electric-vehicle batteries remain the principal demand engine, while lithium manganese iron phosphate is creating a second high-growth pathway alongside nickel-manganese-cobalt cathodes. Asia-Pacific accounts for XX% of current revenue, but policy-backed investments are establishing qualified supply chains in North America, Europe and Africa. The report examines market value, physical demand, pricing, production routes, cathode applications, regional supply security and the competitive project pipeline.

Indicator	Value
Market size 2025	XXX
Forecast 2031	XXX
CAGR	XXX
Largest region	XXX
Fastest region	XXX

Key findings

- Global high-purity manganese sulfate revenue reached USD XXX billion in 2025 and will reach USD XXX billion in 2031.
- Market demand rises from XXX metric tons in 2025 to XXX metric tons in 2031.
- Asia-Pacific represented XX% of 2025 market value, reflecting China's dominant battery-material refining and precursor-manufacturing base.
- Cathode precursor production generated XX% of 2025 demand, with NMC formulations accounting for XX% of chemistry-linked consumption.
- LMFP-related consumption grows at a XX% CAGR through 2031 as cell producers pursue greater energy density than LFP without nickel and cobalt exposure.
- North America is the fastest-growing regional market at a XX% CAGR, supported by localized cathode investments and policy-qualified mineral sourcing.
- The International Energy Agency finds that announced battery-grade manganese sulfate supply covers only XX% of projected 2035 demand under its Stated Policies Scenario.
- Element 25's planned Louisiana facility is designed to produce up to XXX metric tons of HPMSM annually for United States electric-vehicle supply chains.

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Market size and forecast

Market value by year, USD bn

Indicator	2026	2027	2028	2029	2030	2031	CAGR
Market value, USD bn	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Market volume	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Production	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Imports	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Exports	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Apparent consumption	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

Year-over-year value change

Indicator	2027	2028	2029	2030	2031	CAGR
Market value	X%	X%	X%	X%	X%	X%
Production	X%	X%	X%	X%	X%	X%
Imports	X%	X%	X%	X%	X%	X%
Exports	X%	X%	X%	X%	X%	X%

Source: XXX

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Global High-Purity Manganese Sulfate Market Trends and Growth Drivers

High-purity manganese sulfate sits at the intersection of upstream manganese processing and tightly controlled cathode-material manufacturing. Demand is no longer determined principally by broad manganese availability; it is governed by conversion capacity, impurity performance, customer qualification and the geographic location of precursor plants.

The market's growth profile reflects two distinct battery pathways. NMC provides the large installed demand base, while LMFP creates faster incremental growth by increasing manganese intensity in lower-cost phosphate cathodes. This combination supports strong tonnage expansion even as conventional LFP captures part of the global electric-vehicle market.

Supply-chain localization changes project economics. Chinese material remains the reference price, but North American and European customers increasingly assign value to policy eligibility, transport resilience, lifecycle carbon performance and auditable provenance, allowing qualified regional producers to compete on delivered strategic value.

Growth drivers

NMC battery production scales manganese demand

NMC batteries remain central to long-range electric vehicles, especially in premium passenger cars and commercial platforms. New precursor and cathode plants translate cell-capacity additions directly into demand for consistently qualified manganese sulfate, with procurement increasingly secured through multi-year contracts.

LMFP commercialization raises manganese intensity

LMFP introduces manganese into the established LFP production platform to increase voltage and energy density while retaining a nickel- and cobalt-free cost structure. Its higher manganese loading creates an incremental demand pool that grows faster than conventional NMC consumption during the forecast period.

Regionalized battery supply chains unlock new capacity

Automakers and battery manufacturers are reducing dependence on geographically concentrated refining through direct investment, offtake and supplier qualification. This supports projects in the United States, Canada, Europe, Australia and southern Africa even where operating costs exceed the prevailing Chinese benchmark.

Critical-mineral policy improves project bankability

Tax incentives, grants, concessional finance and strategic-material designations reduce financing barriers for local manganese conversion. Public support is most effective when paired with automaker offtake, giving lenders clearer evidence of future utilization and price realization.

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Stationary storage broadens battery demand

Grid storage is diversifying beyond standard LFP as developers seek chemistry portfolios optimized for energy density, cycle life and thermal performance. LMFP and manganese-rich systems provide a new addressable channel for sulfate suppliers beyond passenger electric vehicles.

Carbon and traceability premiums reshape procurement

Battery producers increasingly evaluate lifecycle emissions, renewable-power content, chain of custody and waste management alongside chemical purity. Producers using hydropower, direct ore-to-sulfate conversion or secondary feedstocks can secure differentiated contracts in regulated markets.

Restraints

Chinese oversupply compresses merchant pricing

Large incumbent conversion capacity and weak utilization discipline periodically push Chinese export prices below the incentive level for greenfield Western plants. The resulting margin compression delays final investment decisions and increases reliance on contractual premiums or policy support.

Qualification delays commercial ramp-up

Cathode customers require multiple sample campaigns, impurity verification and electrochemical testing before approving a new source. A technically completed refinery can therefore face a prolonged interval before reaching contracted utilization and stable product acceptance.

LFP captures mass-market battery platforms

Conventional LFP contains no manganese and continues to gain share in entry-level electric vehicles and stationary storage. Faster LFP adoption reduces the addressable manganese requirement unless LMFP conversion occurs at sufficient scale.

Complex hydrometallurgy raises execution risk

Battery-grade production requires effective leaching, impurity removal, crystallization, water treatment and residue management. Variability in ore mineralogy or recycle streams can reduce recovery, increase reagent consumption and prevent consistent customer specifications.

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High-Purity Manganese Sulfate Driver and Restraint Impact on the Forecast

Drivers — impact on forecast

Driver	Impact on CAGR	Geography	Horizon
NMC battery production scales manganese demand	XXX	XXX	XXX
LMFP commercialization raises manganese intensity	XXX	XXX	XXX
Regionalized battery supply chains unlock new capacity	XXX	XXX	XXX
Critical-mineral policy improves project bankability	XXX	XXX	XXX
Stationary storage broadens battery demand	XXX	XXX	XXX
Carbon and traceability premiums reshape procurement	XXX	XXX	XXX

Source: XXX

Restraints — impact on forecast

Restraint	Impact on CAGR	Geography	Horizon
Chinese oversupply compresses merchant pricing	XXX	XXX	XXX
Qualification delays commercial ramp-up	XXX	XXX	XXX
LFP captures mass-market battery platforms	XXX	XXX	XXX
Complex hydrometallurgy raises execution risk	XXX	XXX	XXX

Source: XXX

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High-Purity Manganese Sulfate Market Segmentation Analysis

By Product Form

Crystalline HPMSM dominates international trade, storage and long-distance supply because it offers standardized manganese content and established handling practices. High-purity solution grows faster near integrated precursor clusters by removing crystallization and redissolution steps. Anhydrous and customized forms remain concentrated in specialist chemical and research applications.

Value by product Form, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Manganese sulfate monohydrate crystals	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
High-purity manganese sulfate solution	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Anhydrous and customized forms	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

By Application

Precursor cathode active material producers form the core addressable market because impurity control directly affects cathode yield and electrochemical performance. Specialty electronics and chemical applications pay for purity but consume substantially smaller tonnage. Pilot, qualification and battery-research demand grows rapidly as new Western projects distribute samples before commercial ramp-up.

Value by application, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Cathode precursor manufacturing	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Battery qualification and research	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Specialty electronics and chemicals	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Other high-purity applications	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

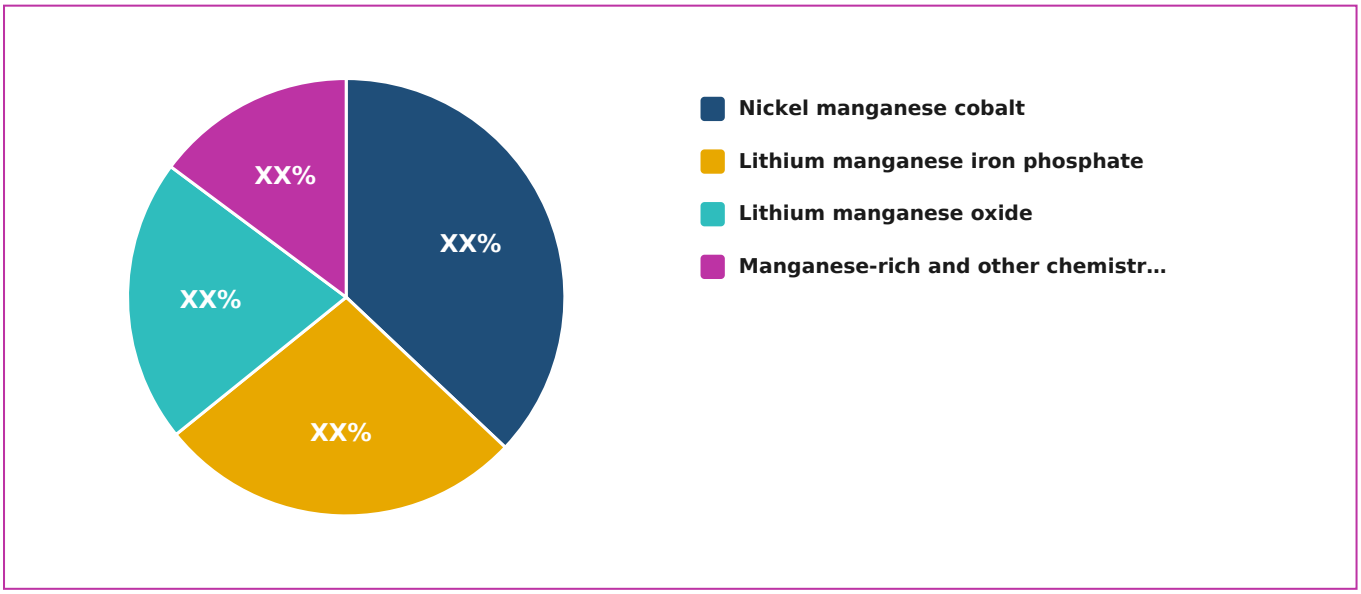
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By Battery Chemistry

NMC remains the volume leader through its installed precursor base and use in long-range electric vehicles. LMFP expands at XX% annually as manufacturers add manganese to LFP platforms to improve voltage and energy density without adopting nickel or cobalt. LMO remains relevant in power tools, two-wheelers and selected hybrid or specialty batteries, but its growth trails LMFP.

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Value share by battery Chemistry, 2025



Source: XXX

Value by battery Chemistry, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Nickel manganese cobalt	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Lithium manganese iron phosphate	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Lithium manganese oxide	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Manganese-rich and other chemistries	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

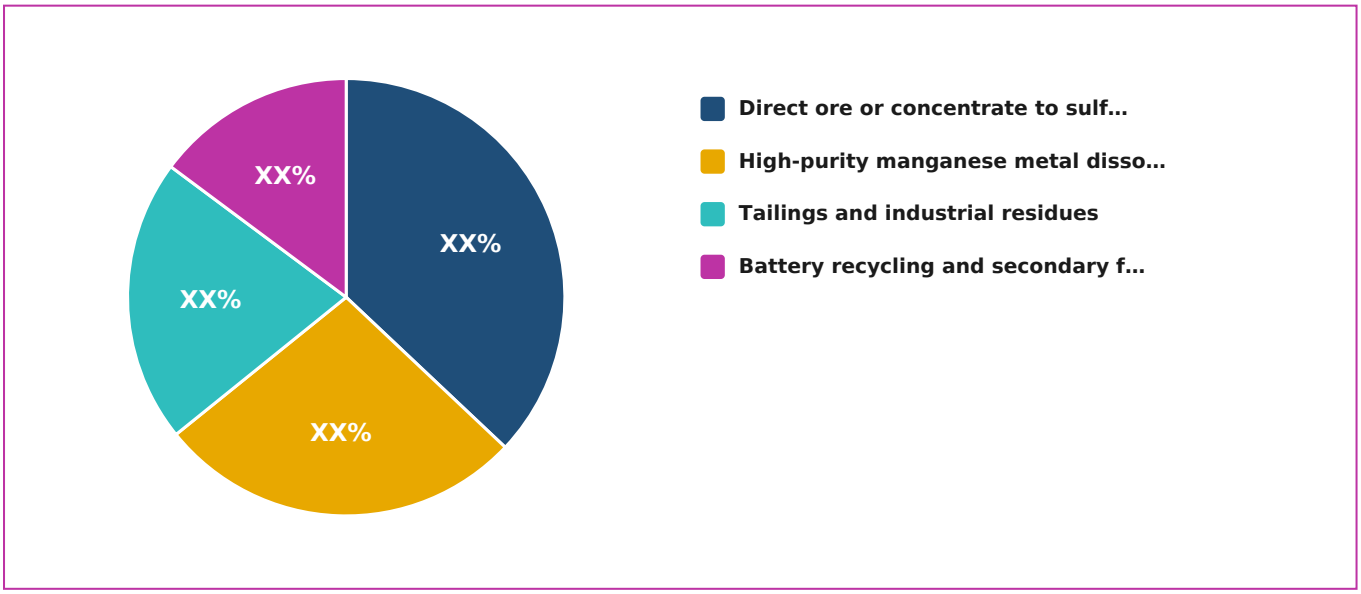
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By Production Route

Ore-to-sulfate plants lead through scale and the avoidance of a separate electrolytic-metal conversion stage. Dissolution of high-purity manganese metal offers feed consistency and flexible siting but carries the embedded cost and energy intensity of metal production. Tailings, residues and recycled battery materials are the fastest-growing routes as developers monetize circularity and lower feedstock costs.

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Value share by production Route, 2025



Source: XXX

Value by production Route, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Direct ore or concentrate to sulfate	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
High-purity manganese metal dissolution	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Tailings and industrial residues	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Battery recycling and secondary feedstock	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

By Sales Model

Long-term offtake and captive supply dominate because cathode producers require qualified material with predictable impurity profiles. Merchant contracts retain an important balancing role in China, where established logistics and multiple qualified suppliers facilitate switching. Strategic automaker-backed agreements grow fastest as projects use offtake to secure construction finance.

Value by sales Model, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Long-term offtake	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Captive and affiliated transfer	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Merchant and spot supply	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

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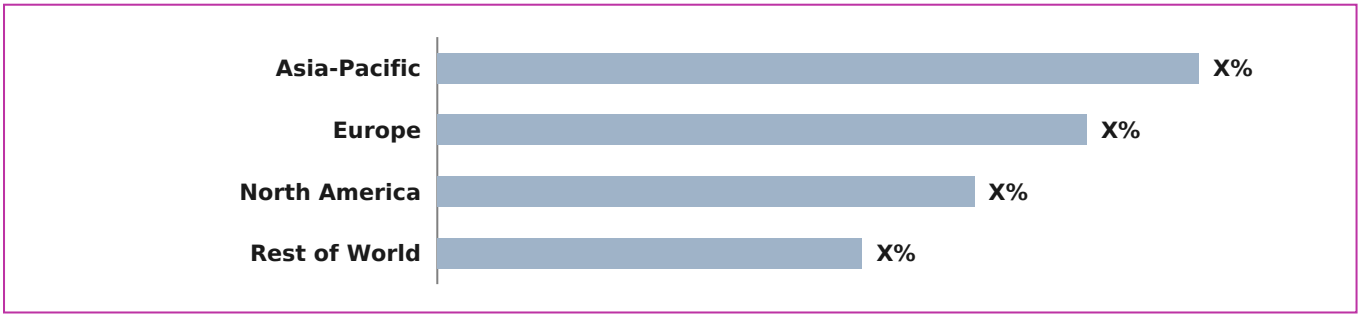
High-Purity Manganese Sulfate Market Regional Analysis and Country Outlook

Asia-Pacific generated XX% of global revenue in 2025 and remains the center of commercial battery-grade manganese conversion, cathode precursor production and customer qualification. China sets the global merchant price benchmark through its integrated chemical-processing ecosystem, while South Korea and Japan contribute high-specification cathode demand and long-standing quality-control capabilities. Indonesia is emerging as a downstream battery-material location, although its manganese sulfate requirements remain smaller than its nickel-related processing base.

North America records the fastest regional CAGR at XX% through 2031. United States demand is supported by announced cathode and cell factories, automaker procurement commitments and federal support for domestic critical-mineral processing; Element 25's planned Louisiana facility is the most prominent dedicated HPMSM project. Canada combines hydropower, mineral-processing expertise and access to United States customers, creating opportunities for conversion facilities and integrated mine developments.

Europe expands at a XX% CAGR as the Critical Raw Materials Act, battery carbon-footprint rules and strategic-autonomy objectives influence sourcing. Euro Manganese's Chvaletice project is positioned around tailings reprocessing and traceable European supply, while Finland, Germany, France, Poland and Hungary provide prospective cathode or cell demand. Africa and Australia remain important prospective supply regions: South Africa has established high-purity manganese processing expertise, Botswana is advancing K.Hill, and Australia offers large ore resources linked to proposed downstream projects.

Growth rate by region, 2025-2031



Source: XXX

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Market value by region, USD bn

Region	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Asia-Pacific	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Europe	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
North America	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Rest of World	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

Market value by leading country, USD bn

Country	2025	2031	Share 2025	CAGR
United States	XXX	XXX	XXX	XXX
Germany	XXX	XXX	XXX	XXX
United Kingdom	XXX	XXX	XXX	XXX
Belgium	XXX	XXX	XXX	XXX
Netherlands	XXX	XXX	XXX	XXX
Japan	XXX	XXX	XXX	XXX
China	XXX	XXX	XXX	XXX
Mexico	XXX	XXX	XXX	XXX

Source: XXX

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High-Purity Manganese Sulfate Competitive Landscape and Company Share

The market is highly concentrated because commercial output, precursor demand and technical know-how remain centered in China. Leading Chinese suppliers compete through scale, integration, reagent procurement and proximity to cathode customers, while Prince Erachem and Manganese Metal Company provide established specialty-chemical or high-purity manganese capabilities outside the dominant production cluster.

The emerging competitive contest is defined by qualification and contracted capacity rather than announced tonnage alone. Element 25 is developing a Louisiana refinery with General Motors and Stellantis relationships; Euro Manganese is advancing Chvaletice around European traceability; Giyani has produced HPMSM from its demonstration plant; and Firebird Metals is developing integrated manganese-processing and cathode-material technology.

Strategic direction is shifting toward direct ore-to-sulfate conversion, renewable electricity, residue valorization and flexible production of crystals or solution. Automaker-backed offtake, government grants and project-level carbon credentials are becoming core financing tools, while acquisitions remain secondary to partnerships because many non-Chinese assets are still in demonstration, feasibility or qualification stages.

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Leading companies

Company	HQ	Est. revenue 2025	Market share 2025	YoY
Guizhou Redstar Developing Co., Ltd.	XXX	XXX	XXX	XXX
South Manganese Investment Limited	XXX	XXX	XXX	XXX
CITIC Dameng Mining Industries Ltd.	XXX	XXX	XXX	XXX
ISKY Chemicals Co., Ltd.	XXX	XXX	XXX	XXX
Prince Erachem	XXX	XXX	XXX	XXX
Manganese Metal Company	XXX	XXX	XXX	XXX
Element 25 Limited	XXX	XXX	XXX	XXX
Euro Manganese Inc.	XXX	XXX	XXX	XXX
Giyani Metals Corp.	XXX	XXX	XXX	XXX
Firebird Metals Limited	XXX	XXX	XXX	XXX
Manganese X Energy Corp.	XXX	XXX	XXX	XXX
Jost Chemical Co.	XXX	XXX	XXX	XXX

Source: XXX

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High-Purity Manganese Sulfate Market Forecast and Investment Opportunities

The market enters a high-growth phase as conventional NMC capacity expands and LMFP moves from qualification into larger commercial programs. Global demand reaches XXX metric tons in 2031, with incremental consumption increasingly split between established Chinese precursor producers and localized supply chains serving North American and European battery plants.

The base case assumes disciplined commissioning of a portion of the announced non-Chinese pipeline, continued NMC use in long-range vehicles and accelerating LMFP penetration after 2027. A high-growth scenario emerges if LMFP scales rapidly across mass-market electric vehicles and stationary storage; a lower-growth scenario results if conventional LFP retains its cost advantage and announced Western conversion projects experience financing delays.

Winning suppliers will combine low delivered cost with verified purity, consistent batch performance, transparent feedstock provenance and competitive lifecycle emissions. Projects with committed customers, modular ramp-up plans, renewable power and saleable by-products will secure financing and utilization ahead of projects relying on uncontracted merchant demand.

Opportunities

- Integrated non-Chinese ore-to-HPMSM supply chains
- High-manganese and manganese-rich cathodes
- Conversion of mine tailings and industrial residues into battery-grade sulfate
- Renewable-powered refining with product-level carbon accounting
- Localized sulfate-solution supply near precursor plants
- Closed-loop recovery of manganese from battery scrap and black mass

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