

As investment in lithium ion battery recycling capacity increases, the pricing and availability of black mass is becoming increasingly important. This valuable material, a mix of crushed metals produced by shredding battery scrap, is often exported to Asia from the West.

What is a black mass battery price assessment?

Valued on a delivered-duty-paid(DDP) basis, the assessments build on black mass price references launched in April for Europe and Asia, and complement Platts' existing suite of daily battery metals price assessments. Black Mass is a recycled material produced through the collection, dismantling and shredding of used batteries.

Why is lithium not included in black mass valuation?

And as the use of hydrometallurgy processes becomes the norm, lithium will be accounted for in assessing the value of black mass. "With pyrometallurgy, lithium is extremely difficult and not economically possible to recover, which is why pyrometallurgy operators leave it out of black mass valuation," Couture said.

How much is the recycling of lithium-ion batteries worth?

The market around the recycling of lithium-ion batteries is huge and growing,mostly thanks to electric vehicles. Surely,a lot of other lithium-ion batteries get recycled,including from phones and power tools,but the majority comes from EVs. In 2019,it was estimated that the recycling market was worth \$1.5 billion.

Is S&P launching a black mass battery price offering?

Anna Crowley, global head of Metals Pricing, S&P Global Commodity Insights, adds, "We're pleased to be following on our Black Mass offerings launched earlier this year in Asia and Europe with a Western price offering for the U.S., further filling out the global battery raw materials supply chain.

What is a black mass price assessment?

In response to this need, Benchmark Mineral Intelligence launched its Black Mass Price Assessments suite in July, providing the industry with real market trade prices for all of the major specifications trading in China - the current hub of global battery recycling.





1 INTRODUCTION. One of the main challenges of lithium-ion batteries (LIBs) recycling is the lower value of the recycled second raw materials compared to primary precursors. 1 Even though the black mass (BM) industry is expected to expand with rapidly increasing sales of electric vehicle (EV) batteries, the most sustainable circular recycling strategies are still far ???



About \$300 per metric ton of the incoming battery unit is the black mass that sells on the open market, or \$500/MT of the actual black mass. The aluminum and copper are quite valuable. If you consider the amount of copper and aluminum that are in the battery, multiply that by 30% of London Metal Exchange prices, and you get approximately \$450



Read how increased prices for key battery raw materials such as nickel, cobalt and lithium are continuing to assist demand for shredded nickel cobalt manganese (NCM) lithium-ion batteries.

Methodology Contact us In recent days,

Fastmarkets has heard of assessments at about 7-10% for lithium payables based on black mass of 3-4% lithium





In independent testing conducted by a major battery supplier, lithium-ion battery cells using RecycLiCo's high-nickel pCAM with N83 and N90 compositions (nickel-manganese-cobalt oxide containing



At current payable levels and lithium prices,
Fastmarkets calculates the cost of lithium in
NCM/NCA black mass in the South Korea market at
around \$170-175 per tonne. "Everything is going
down and it is coming to a point where there is
almost no value to lithium in black mass for the
[Southeast Asian] market," the European trader
source said.



MB-BMS-0010 Black mass, LCO, payable indicator, cobalt, cif South Korea, % payable Fastmarkets" standard-grade cobalt price (low-end)
MB-BMS-0011 Black mass, LCO, payable indicator, lithium, cif South Korea, % payable Fastmarkets" lithium carbonate 99.5% Li2CO3 min, battery grade, spot prices cif China, Japan & Korea





A lithium-ion or Li-ion battery is a type of rechargeable battery that uses the reversible Overall, between 1991 and 2018, prices for all types of lithium-ion cells (in dollars per and hydrophobicity. Copper, aluminum and steel casing can be recovered by sorting. The remaining materials, called "black mass", which is composed of nickel



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Black Mass and the Battery Revolution: An Overview of Experimental Research Conducted by Alfred H Knight As we enter a new era known as the "battery revolution", the number of lithium-ion batteries (LIB) in circulation is likely to increase significantly. The light elements, such as lithium and 67 other non-metals and metals at a 20





Battery production offcuts and end-of-life batteries are collected, dismantled and shredded to produce black mass from which critical materials such as lithium, nickel, cobalt and manganese can be extracted. The recycling of black mass has become increasingly important as a supplement to virgin material supply and to reduce the carbon footprint of the battery supply ???



Platts has observed growing interest in black mass recycling, which will play an integral role in future battery metals supply. Battery production offcuts or used batteries at end-of-life are collected, dismantled and shredded to produce black mass, from which critical materials including lithium, nickel, cobalt and manganese can be extracted.



Black Mass is what you obtain once a battery has been processed for recycling. Batteries are composed of metals including lithium, manganese, cobalt, and nickel. Lithium-ion battery processing at end of life produces a black mass, a source of critical raw materials. According to the EU Waste Legislation this black mass could be qualified as





SMM brings you current and historical Used Lithium-ion Battery price tables and charts, and maintains daily Used Lithium-ion Battery price updates. Ternary Battery Black Mass Lithium Discount Factor (%) 70-74. 72. 0. Nov 01, 2024. Used Lithium Iron-phosphate Aluminum Shell Battery (CNY/mt) 7,000-8,000. 7,500. 0.



? Fastmarkets data showed a 54% drop in lithium carbonate prices year-on-year as of mid October, along with a 34% fall for cobalt and an 8% decline in nickel prices on the London Metal Exchange. This sharp price drop has led to smaller profit margins for Black Mass refiners, making it more challenging to operate in the current market.



A review on spent lithium-ion battery recycling: from collection to black mass recovery. has downscaled the battery price from 57% of the total EV cost in 2015 to 33% in 2019 and is forecasted to drop to about 20% by 2025 for a medium-sized car. 4 Nevertheless,





The battery explored is a Chevy Bolt 60 kilowatt-hour (kWh) capacity battery (7). The prices are based on the cost per weight of the materials as of November 2023. Note that the prices of the raw materials do not reflect the actual price of an EV battery as this is influenced by several other factors. Black mass refining is the last stage



US refining capacity for black mass ??? the remains of lithium-ion battery packs after shredding, sorting and some processing ??? is also expected to double over the next two to four years, according to the US Department of Energy (DOE).. Last year, 6% of globally generated lithium-ion battery scrap was generated by the US, but that percentage is expected to rise to ???



Black mass, NCM/NCA, payable indicator, lithium, cif South Korea, % payable Fastmarkets" lithium carbonate 99.5% Li2CO3 min, battery grade, spot prices cif China, Japan & Korea Fastmarkets" new prices build on its existing benchmarks in cobalt and lithium, providing consistency for clients by being one of the go-to PRAs for payables and





S& P Global Commodity Insights launched nine new daily "black mass" evaluations last month "to bring greater transparency to pricing of the battery raw materials market." created the first examples of the rechargeable lithium-ion battery in the 1970s. He and two other researchers were awarded the 2019 Nobel Prize in Chemistry for the



In response to increasing attention on lithium-ion battery recycling and the black mass market, Benchmark has launched its long-term Recycling Forecast report, and most recently, a monthly Black Mass Price Assessment. Upcoming Benchmark Mineral Intelligence Events Battery Gigafactories Asia Pacific 20-21 September 2023, Hilton, Tokyo



Current Lithium-Ion Battery Pricing Trends Record Low Prices in 2023. In 2023, lithium-ion battery pack prices reached a record low of \$139 per kWh, marking a significant decline from previous years. This price reduction represents a 14% drop from the previous year's average of over \$160 per kWh. The decline in battery prices has been driven by a combination ???





Critical materials such as lithium, nickel, cobalt and manganese can be extracted from the black mass and reintroduced to manufacturing. Platts says it is focusing its US Black Mass assessments and calculations on nickel-cobalt (Ni-Co) containing material, which includes battery production scrap and spent lithium-ion batteries. The assessments



SMM brings you current and historical LCO Battery Black Mass price tables and charts, and maintains daily LCO Battery Black Mass price updates.

Material Anode Materials Artificial Graphite
Diaphragm Electrolyte Other Materials Chemical
Compound Lithium-ion Battery Used Lithium-ion
Battery Sodium-ion Battery Hydrogen Energy
Energy Storage.

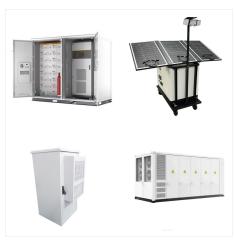


To reduce the environmental footprint of hydrometallurgical processing of black mass from spent lithium-ion batteries (LIBs), a green leaching system based on glycine and sodium metabisulfite (Gly-SMS) was proposed. The novel leaching system was validated using black mass from end-of-life batteries and manufacturing scrap from battery producers, representing ???





Recycling lithium-ion batteries is crucial for the environment and the sustainability of primary resources. In this paper, we report on the characterization of two grades of black mass from spent



To explain this, I can say that the price of Black Mass is much higher than the price of Cobalt Sulphate (a finished good obtained from refining Black Mass, which is in the majority content and a part of precursor material to be used in the manufacturing of Lithium-ion Batteries). Global players deliberately do this to discourage final refining