

Middle East Black Mass Recycling Market Size, Share & Trend Analysis Report; By Battery (Lithium Ion Batteries, Nickel-Based Batteries), By Battery Source, By Recovered Metals, By Country, And Segment Forecasts, 2025 - 2033

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Abstracts

Middle East Black Mass Recycling Market Summary

The Middle East black mass recycling market size was estimated at USD 228.7 million in 2024 and is projected to reach USD 828.0 million by 2033, growing at a CAGR of 15.6% from 2025 to 2033. Strong growth in electric mobility and stationary storage is creating a steady stream of end-of-life lithium-ion batteries across the Middle East.

Fleets of buses, taxis, delivery vans, and ride-hailing vehicles are scaling in the Gulf, while data centers and utility-scale solar and wind projects are adding large volumes of storage. As these batteries retire, a local pathway for recovering nickel, cobalt, lithium, and manganese becomes commercially attractive compared with shipping scrap abroad.

National strategies such as Saudi Vision 2030 and the UAE Net Zero agenda promote circular economy projects, industrial clustering, and localization of advanced materials. Customs and waste rules are evolving toward stricter handling, extended producer responsibility, and traceability, which channels black mass to licensed processors and improves feedstock visibility for financiers.

Refiners and cathode makers in Europe and Asia seek diversified sources of secondary materials, and the Middle East offers reliable logistics through world-class ports and free zones. Offtake frameworks linked to international benchmarks allow recyclers to

monetize recovered metals while giving battery makers a hedge against raw material volatility.

Higher metal prices over recent cycles have lifted the intrinsic value of black mass, while hydrometallurgical and low-temperature processes are increasing recovery yields and cutting energy intensity. Process intensification, better pre-sorting, and safer discharge techniques reduce operating costs and enhance compliance with environmental and worker safety standards.

Automakers, energy storage integrators, and waste management firms are signing collection and processing agreements that guarantee volumes and stabilize cash flow. Financial sponsors favor the region due to bankable industrial infrastructure, abundant renewable power for greener processing, and access to regional and export markets, which underpin rapid capacity buildout for black mass recycling.

Middle East Black Mass Recycling Market Report Segmentation

This report forecasts revenue and volume growth at regional and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the Middle East black mass recycling market report based on battery, battery source, recovered metals, and region:

Battery Outlook (Volume, Kilotons; Revenue, USD Million, 2021 - 2033)

Lithium-Ion Batteries

Nickel-Based Batteries

Battery Source Outlook (Volume, Kilotons; Revenue, USD Million, 2021 - 2033)

Automotive Batteries

Consumer Electronics

Industrial Batteries

Others

Recovered Metals Outlook (Volume, Kilotons; Revenue, USD Million, 2021 - 2033)

Nickel

Cobalt

Lithium

Copper

Others

Regional Outlook (Volume, Kilotons; Revenue, USD Million, 2021 - 2033)

Middle East

Saudi Arabia

UAE

Bahrain

Qatar

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