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McKinsey: How Sustainable is the Battery Supply?Here, Scope 3 Magazine takes a closer look at key materials including lithium, nickel, cobalt and manganese as McKinsey reveals the complexities of ensuring a sustainable A forecast on future raw material demand and recycling potential This study focuses on the future demand for electric vehicle battery cathode raw materials lithium, cobalt, nickel, and manganese by considering different technology and "Ukraine's Lithium, Nickel, Cobalt, and Manganese The project is expected to attract significant investments and create jobs in the region. In addition to lithium, Ukraine has significant reserves of other non-ferrous metals. Supply-demand imbalance looms for critical battery Based on current market observations, battery manufacturers can expect challenges securing supply of several essential battery raw materials by , McKinsey's report finds. What Impact are EVs and Renewables Having on Raw Materials?With only modest increases in HPMSM production projected and a fraction of demand expected to be met by , this highlights significant supply challenges ahead. McKinsey: EV Growth Tests Raw Material Supply ChainsA McKinsey report warns that base-case supply may fall short of demand, leading to shortages, price fluctuations and substantial investment requirements. Here, we explore the Ukraine Could Be One of the World's RichestWith Ukraine decimated and under Russian influence, the production of battery raw materials that Europe needs for electrification has been suppressed and the Western world will need to continue to rely on China for McKinsey: Is the Battery Supply Sustainable?By , this figure is projected to increase to 95%. Innovations such as direct lithium extraction are progressing, yet demand continues to outpace supply, underscoring the McKinsey: Supply shortage looms for critical battery In a world where the rapid adoption of LFP technology is coupled with a lower growth in EV production, the demand of battery materials could look different: there would be enough lithium, high-grade nickel and cobalt, but North America's Potential for an Environmentally The Detroit Big Three General Motors (GMs), Ford, and Stellantis predict that electric vehicle (EV) sales will comprise 40-50% of the annual vehicle sales by . Among the key components of LIBs, the Nickel Power: Will Demand for EVs Drive Supply to As of , global nickel production reached 3.6 million tonnes, with Indonesia and the Philippines supplying nearly 60% of the world's nickel. By , demand for nickel in EV batteries is projected to rise to 18%, up from 8% Nickel-Manganese-Cobalt (NMC) Lithium-ion BatteriesThe thin films of carambola-like g-MnO2 nanoflakes with about 20nm in thickness and at least 200nm in width were prepared on nickel sheets by combination of potentiostatic and cyclic voltammetric EU adds 13 new critical mineral projects abroad, including sites in The 13 projects are expected to mobilize a combined EUR5.5 billion (US$6.3 billion) in capital investments. Ten of them focus on materials essential to battery technologies such Cobalt Market Report Cobalt is now rightly seen as a linchpin in the transition to a low-carbon economy. As demand for cobalt is expected to more than double on levels by , stake-holders around the world Commission selects 47 strategic projects to secure access to raw Notably, multiple initiatives focus on lithium (22), nickel (12), cobalt (10), manganese (7), and graphite (11), strengthening the EU battery value chain. With

these efforts, What Impact are EVs and Renewables Having on Raw Materials?The Democratic Republic of Congo (DRC) produces 64% of the global cobalt output, largely as a by-product from copper and nickel mining. Despite the decreasing role of Supply-demand imbalance looms for critical battery While the share of cobalt in battery chemistry mix is expected to decrease, the absolute demand for cobalt for all applications could rise by 7.5% a year from and , McKinsey estimates Navigating battery choices: A comparative study of lithium This research offers a comparative study on Lithium Iron Phosphate (LFP) and Nickel Manganese Cobalt (NMC) battery technologies through an extensive methodological approach that focuses McKinsey: Supply shortage looms for critical battery Based on the current market, battery manufacturers can expect challenges securing the supply of several essential battery raw materials such as lithium, high-grade nickel, cobalt and manganese. McKinsey: Is the Battery Supply Sustainable?McKinsey reveals battery raw material outlook on lithium, nickel and cobalt as demand for these materials may soon outstrip base-case supply The electrification of Cobalt Market Report Nickel-cobalt-manganese (NCM) chemistries became the largest driver of cobalt demand, above all other end-use markets. was the first year in which lithium cobalt oxide (LCO) demand

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