

Nickel-manganese-cobalt batteries nmc north korea

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**Keywords:** Lithium nickel manganese cobalt oxide, end-of-life, material flow analysis, global distribution

Sales of BEVs and NMC and change in NMC battery size in 2010-2019.

BEVs: battery electric vehicles; NMC: Lithium nickel manganese cobalt oxide batteries.

The remainder of this paper is organized as follows. Next section describes the methodology applied in this research. The results are presented in Section "Results and Discussion", followed by the discussion in the next section. Final section concludes this study with future recommendations.

The average battery size of BEVs entering the global market is estimated based on previous trends, as well as future technological advancements that can affect the overall weight of the battery. The total number of BEVs in a certain year was multiplied by the battery size of the EV model, and then the total number of models was divided by the total number of sales to provide the average NMC battery size for the top 10 countries, including the other countries, as shown in Table 1. The values given in Table 1 are selected based on the published literature.

BEVs: battery electric vehicles; NMC: Lithium nickel manganese cobalt oxide batteries.

Materials bills for the NMC battery pack (39 kWh) in a BEV (Based on Richa, 2016).

BEVs: battery electric vehicles; NMC: Lithium nickel manganese cobalt oxide.



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