Slovenia energy storage for electric vehicles

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Obrecht, M., Singh, R. and Zorman, T. (2022), "Conceptualizing a new circular economy feature - storing renewable electricity in batteries beyond EV end-of-life: the case of Slovenia", International Journal of Productivity and Performance Management, Vol. 71 No. 3, pp. 896-911. https://doi /10.1108/IJPPM-01-2021-0029

Due to composite materials and battery structure, batteries are incredibly complex and expensive to recycle (especially lithium extraction) (Ho?evar, 2017). Remanufacture is also problematic, and due to hazardous materials and metal compounds, they are inappropriate for energy recovery. Therefore, relating used but operational batteries from used EV after the end of their life cycle is a viable solution that enhances circular economy strategy R3 - reuse (increasing lifespan of products or their parts) (Kirchherr et al., 2017).

Nowadays, it is hard to imagine a world without batteries. However, the first batteries based on a zinc rod negative electrode were made in the late 19th century. Not long after that, the widely known lithium battery came into existence (Scrosati, 2011).

Data for the research were gathered from viable sources and special databases related to researching EV and EV batteries EOL such as Web of Science, Scopus, Science direct as well as statistical databases SURS, Eurostat, Statista and PV portal reviewing journals not included in these databases. The focus was on papers published from 2014 on. The study was made as a case study based on data for registered EV and solar PV installed in Slovenia.

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