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The electricity used (798,545 kWh per 100,000 capacitors) and the raw material aluminum ingots (5130 kg per 100,000 capacitors) are the environmental hotspots for ...

Based on the generated LCIs of the AECs and ReCiPe2016, fossil depletion, climate change, and terrestrial ecotoxicity were identified as the key environmental impact categories in the production stage for the AEC product family.

Starting from the environmental analysis of the stages of selection and supply of raw materials, it is possible to improve the sustainability of the manufacturing process of a capacitor. In ...

The impact assessment method, ReCiPe2016 (midpoint, hierarchist perspective), was used to quantitatively calculate the potential environmental impacts of the AECs. Results and discussion Based on the generated LCIs of the AECs and ReCiPe2016, fossil depletion, climate change, and terrestrial ecotoxicity were identified as the key environmental ...

environmental scoping report submitted to MET: DEA recommended that a full EIA be carried out and the Consultant has done as such giving rise to this EIA report. 1.3.1. Terms of Reference For The Environmental Impact Assessment M.SHIKONGO [S INVESTMENT GROUP ONE (Pty) Ltd appointed Outrun Investments cc to conduct an

which allows quantification of environmental performance of products and processes based on complete product life cycle was utilised to evaluate the environmental burdens associated with manufacturing a 48 V lithium-ion capacitor (LIC) module. The prospective LCA compared the environmental impact of manufacturing a LIC

types of capacitor for LCA is beyond the scope of the current work. This work therefore provides a novel and important insight into the environmental impacts of the production of MLCCs and TECs at a laboratory scale. The results can be directly translated to the day to day production of each capacitor type and can serve as a viable tool in design

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