

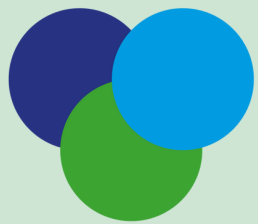


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What is Life Cycle Assessment (LCA)?





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LCA is an in-depth analysis of a product's potential environmental impacts throughout a life cycle:

- raw material acquisition,
- production of (sub-)components,
- transportation and use,
- end-of-life treatment with recycling and final disposal.



It is standardised by ISO 14040:2006 / 14044:2006 and has widely been applied to batteries.



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Why is LCA important?



Decision Support: LCA aids companies in strategic decision-making beyond environmental concerns.



Product Development: LCA guides environmental improvements, enhancing products.



Policy Design: LCA informs sustainable policy creation, preventing "greenwashing" practices.



Consumer Guidance: LCA provides insights for informed purchasing decisions.



Supply Chain Boost: LCA identifies collaboration and efficiency opportunities, enhancing business.





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Challenges of LCA:



Data Availability and Quality: there are limited and often outdated primary datasets.



Complexity: understanding the interrelationships between different life cycle stages is challenging.



Subjectivity and Interpretation: LCA involves selecting impact categories and weighting factors.



Reproducibility and Reliability: LCA results are often not comparable.





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