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### Plenary Session - LCA and its application to aviation

*mardi 19 mai 2026 09:00 (1h 25m)*

Life Cycle Assessment (LCA) is a scientific method to evaluate the total environmental impact of a product, process, or service. The approach includes resource use and emissions from raw material extraction, through manufacturing, use, and final disposal/recycling. It is an essential methodology to assess the full environmental impact of current and future technologies in aviation. This session provides an introduction to LCA, fundamentals of the theory and approaches behind it, and its relationship with other life cycle engineering methodologies. Then, applications of LCA to aviation use-cases are detailed. Last, an overview of challenges and opportunities for LCA in aviation are presented.

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