



Life Cycle **Assessment service.**

Understand and reduce your business's
environmental impacts.

Contents

- 1 Life Cycle Assessment – Introduction.
- 2 What is a Life Cycle Assessment (LCA)?
- 3 How can an LCA benefit your business?
- 4 Valpak's Life Cycle Assessment service.
- 5 Valpak's Life Cycle Assessment service.
- 6 Complementary services.
- 7 What our customers say.

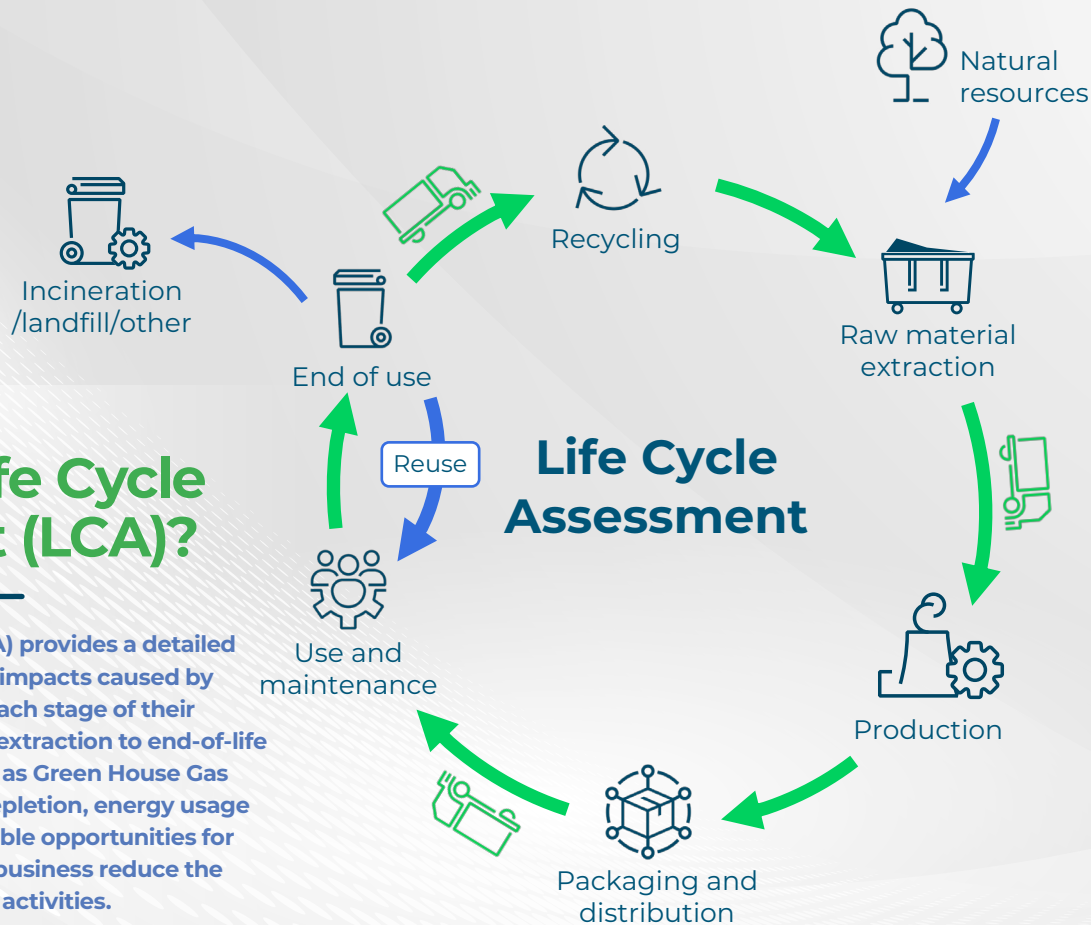
Life Cycle Assessment – Introduction.

Your businesses must take proactive steps to measure and reduce its environmental impact to meet sustainability expectations. Understanding the full lifecycle of your products and packaging is key to making informed, responsible decisions that meet global sustainability goals and legislative requirements.



What is a Life Cycle Assessment (LCA)?

A Life Cycle Assessment (LCA) provides a detailed analysis of all environmental impacts caused by products and packaging at each stage of their lifecycles, from raw material extraction to end-of-life disposal. Key indicators such as Green House Gas (GHG) emissions, resource depletion, energy usage and pollution inform and enable opportunities for improvement and help your business reduce the environmental impacts of its activities.



How an LCA will benefit your business?

By undertaking an LCA, your business will uncover opportunities to enhance sustainability and achieve environmental goals.

An LCA enables you to:

Helping you to achieve:



Business & financial benefits



- Save costs – Identify inefficiencies in resource use and waste management
- Improve attractiveness to investors with strong ESG performance

Sustainability & compliance



- Identify areas for impact reduction to improve sustainability and meet targets
- Ensures compliance with environmental regulations and frameworks (e.g., the Recyclability Assessment Methodology)

People & engagement



- Align your business with key UN Sustainability Goals
- Attract and retain top talent by prioritising corporate sustainability values

Data & decision-making



- Make data-driven decisions for packaging and product design
- Develop Environmental Product Declarations (EPDs), providing verified sustainability credentials for your products

Innovation & risk management



- Drive innovation through sustainable materials and design improvements
- Mitigate supply chain risks, regulatory fines, and reputational damage

Valpak's Life Cycle Assessment service.

Our experts help businesses measure and manage their environmental impacts with Life Cycle Assessments. Our flexible service addresses a wide range of environmental issues, from Green House Gas emissions to water footprinting, land use and biodiversity impacts, pollution and ecotoxicity.

We follow a systematic and internationally recognised approach to measure and report the environmental impacts of products and packaging across their entire lifecycles, which is outlined below:

1. Defining the scope and objectives

- Collaborate with your business to determine the goals of the LCA, such as identifying carbon reduction opportunities, improving sustainability, or achieving compliance with regulations.
- Define the boundaries of the assessment, including the stages of the product lifecycle to be analysed (e.g., raw material extraction, manufacturing, distribution, use, and disposal).

2. Data collection and analysis

- Gather detailed data on materials, energy use, emissions, and other environmental factors across the product's lifecycle.
- Use advanced tools and modelling techniques to analyse the environmental impacts, including carbon footprint, water use, land use, and ecotoxicity.

3. Impact assessment

- Evaluate the environmental impacts using the latest environmental impact metrics.
- Identify hotspots - areas where substantial improvements can be made - ensuring that changes in one area do not negatively affect another.

4. Tailored reporting and recommendations

- Comprehensive and flexible reporting with actionable insights, clear recommendations and messaging for reducing environmental impacts.
- Development of Environmental Product Declarations (EPDs) to provide verified sustainability credentials for your products.

5. Compliance and alignment with standards

- Ensure the LCA adheres to internationally standardised methodologies, such as ISO 14044 and PAS 2050.
- Enable your businesses to comply with regulatory and voluntary sustainability requirements.

6. Ongoing support and customisation

- Offer flexible LCA services tailored to your specific needs and objectives, whether you require streamlined or comprehensive studies.
- Provide ongoing support to help your business implement recommendations and continue its journey to achieving sustainability goals.



Valpak's team of qualified LCA practitioners ensures that the process is efficient, reliable, and aligned with the highest standards, allowing businesses to focus on their core operations while gaining valuable insights into their environmental performance.

Complementary services.

We understand that tackling sustainability challenges requires a holistic approach. In addition to LCA/EPDs, we offer a suite of complementary services designed to support your business in achieving its environmental goals. From reducing carbon footprints to optimising supply chains, our expertise ensures that you have the tools, data and insights to enable and drive meaningful change.

Carbon Footprinting

A detailed analysis of your business's Green House Gas emissions, including Scope 1, 2, 3 and Scope 4 emissions, to meet compliance obligations, identify reduction opportunities and support your sustainability goals.

Environmental Product Declarations (EPDs)

Building on your LCAs, we can develop verified EPDs to provide transparent and standardised information about the environmental impacts of your products to inform your customers and other stakeholders.

Packaging Technology Consultancy

Expert support to optimise your packaging for sustainability, compliance, and performance. Our consultancy helps businesses improve recyclability, reduce material use, and prepare for evolving packaging legislation. Services include technical assessments, format redesign, and guidance aligned with packaging EPR and Recyclability Assessment Methodology requirements.

Sustainable Supply Chain Analysis

This service leverages our Insight Platform and extensive experience in supplier data collection to provide businesses with clarity and actionable insights. We evaluate supply chain practices to identify areas for improvement, reduce environmental impact, and enhance sustainability credentials.

Energy Efficiency Audits

We can provide a clear overview of your company's current energy usage, giving you insights into the areas that might be impacting your business. Energy audits involve analysing energy bills, conducting site visits, and making recommendations for improvement. Through this service we can help identify areas where energy consumption can be reduced, leading to cost savings and environmental benefits as well as helping you ensure compliance with regulatory requirements.

What our customers have to say.

“ Valpak provided a high level LCA to compare the environmental impacts of the new and the old packaging for Football Manager 2020 on PC for SEGA. They were a very professional and personable company to deal with, on hand to support the brief and wider project. The report has since been shared with other various industry bodies and had really positive feedback. ”

SEGA Europe Limited



“ Glen Dimplex approached Valpak Consulting in order to undertake a study into alternative packaging types for our range cooker to allow us to make an informed choice in relation to potential packaging changes that we are considering. Valpak's team was responsive and easy to deal with, and the output from their Life Cycle Assessment on three alternative packaging options has been really helpful in allowing us to identify the right packaging option to pursue from an environmental perspective. ”

Glen Dimplex Consumer Appliances



“ Valpak produced a Life Cycle Assessment (LCA) for our biobased material, Treekind®. The LCA provides quantitative data to corroborate the sustainability of Treekind®, which is so important for the brands and consumers with which we engage. We found the Valpak team to be diligent, professional and friendly and would highly recommend working with them. ”

Biophilica

BIOPHILICA

“ We engaged Valpak's Consultancy team to conduct research in order to help us to embed sustainability into a key decision-making process. Valpak was responsive and flexible to our needs, and the research yielded valuable insights which enabled us to make an informed decision for our business. ”

KP Snacks



For a **free**
consultation
to assess your
business's
requirements
please
contact us.



Unit 4,
Stratford Business Park,
Banbury Road,
Stratford-upon-Avon
CV37 7GW

03450 682 572

qariem.radix@valpak.co.uk

valpak.co.uk