



## Life Cycle Analysis

Life Cycle Analysis (LCA) is a data-based process that is grounded in science and used to help organizations evaluate the environmental impacts of their products, from raw material extraction to final disposal. LCA performed by our consultants on your product lines can deliver two main benefits. First, it will help you understand the “big picture” of water, energy and waste impacts associated with your products, including impacts incurred after they leave the production facility. Second, going through the LCA process will promote a “total cost accounting” mindset, allowing your company to get a true picture of the total costs associated with the production process, beyond traditional material and labor costs.

## Life Cycle Inventory Analysis

Completing a comprehensive inventory analysis is the first step in the overall LCA process. Our consultants will analyze the inputs and outputs associated with the production, use and disposal of your products. This will give your organization a complete picture of the resources your products require, along with the wastes produced. This inventory analysis maps inputs and outputs across the life cycle of the product, enables you to pinpoint “trouble spots” and opportunities for improvement. In addition, an inventory analysis can assist your organization in determining which impacts are outside its sphere of influence, along with identifying areas where it can make a positive difference.

## Life Cycle Impact Analysis

This analysis measures total water, energy and carbon impacts – building on the results obtained during the inventory analysis. Here, our consultants will evaluate the environmental impacts of your products in terms of water consumption, carbon emissions, total waste created and energy use. Insights gained will help your organization manage and mitigate identified impacts, which can result in enhanced brand image and increased brand loyalty. Results can also aid in discussions with collaborative partners and other external stakeholders.

## Product Redesign

The results of a life cycle analysis can also have a bigger, longer-term impact. Our consultants can use what’s learned to help your organization redesign products, packaging and processes to lessen inputs, outputs and impacts. Recommendations for integration of additional sustainable features into your products can also be provided. Together, we can work to increase the sustainability of your product line and the sustainability of your business.

## About Sustainability Services

Waste Management Sustainability Services is a nationwide network of environmental professionals offering sustainability advisory services, environmental and project management experience to help companies advance along the path toward sustainability. By leveraging the network of assets and expertise of WM, the leading provider of comprehensive waste and environmental services in North America, our team can design and implement value-driven solutions unrivaled in the industry.

**TO LEARN HOW OUR TEAM OF CONSULTANTS CAN HELP YOUR BUSINESS, PLEASE VISIT [WWW.WMSUSTAINABILITYSERVICES.COM](http://WWW.WMSUSTAINABILITYSERVICES.COM).**  
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