



Life Cycle Analysis

Life Cycle Assessment is potentially the most important method for assessing the overall environmental impact of products, processes or services. It is also sometimes referred to as Life Cycle Analysis or LCA.

Life Cycle Assessment (LCA) is a tool that can be used to assess the environmental impacts of a product, process or service from design to disposal i.e. across its entire lifecycle, a so called cradle to grave approach. Through analysing the life cycle impacts of product or service (environmental footprint), the business can come up with a better designed product (eco-labelling or design), a greener service or a better option: LCA can describe and compare the environmental impact qualitatively and quantitatively to make the decision more environmentally sensed.

If you want to go beyond total quality management, six sigma or any other measures focusing only on production, to the scope of the whole life cycle of the products or service, from the range of eco design, waste treatment, selection of raw materials to environmental product declaration or supplier sustainability audit, name the one service you need, Ecovane can decide how LCA can fit in and help you with.



To know our service better please visit :

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Scope of Life Cycle Analysis support

Keywords: ISO 1404X | LCA training | Peer review service | Life cycle management service (ecolabelling) | EPDs | Ecodesign | Material flow analysis etc.)

Public policy making assist

- Effective public policy analytical tool regarding life cycle impact
- The basis for future China legislation (environmental labelling & Product declaration)

Product development and improvement

- Instigate design or material change to provide improved performance
- Ensure that new developments are not damaging

Marketing

- Compare competing products
- Prove the environmental merits of your product or avoid criticism
- Defend company image

Strategic planning

- Identifying gaps in the design, procurement, supplier selection and disposal of wastes



Benefits for customers

LCA does not provide answers to sustainability directly, however, a LCA study could provide:

- A study of your environmental impacts that can vary in complexity and data requirements
- An important marketing tool with eco-labelling
- Potential cost savings when used as a driver for innovation
- A starting point for future studies and action



LCA involves the collection and evaluation of quantitative data on the inputs and outputs of material, energy and waste flows associated with a product over its entire life cycle so that the environmental impacts can be determined.

With the world-leading software-Simapro, we utilize data libraries for inventory analysis stage:

- Ecoinvent 2 - 3500 materials and processes
- Metals, plastics, construction, electronics, chemicals, food etc.
- 1kg, 1tkm, 1 litre, 1m³



Uses method libraries to conduct impact assessments:

- The CML 1992 method
- Uses the characterisation factors developed by the Intergovernmental Panel on Climate Change (IPCC) for Global Warming Potential (GWP)
- The eco-indicator 99 method
- Provides connection to human health, eco systems and resource use

“Standing on the front edge of science and technology and management know-how, EcoVane work closely with industrial and commercial companies and other entities by providing tailor-made consulting service on environment, health, safety and sustainability. With our familiarity with the more and more challenging issues on sustainable development and our capability handling them, we believe regulatory compliance, risk minimization and strategic sustainability can be realized for our clients, as well as the harmonization of economic, social and environment.

—Will Kung
Director of EcoVane