

Appendix 1 Definition of some environmental analysis tools

Matrice Environmentally Responsible Product Assessment (MERPA) : is a form of simplified LCA. It can be used for evaluating products, processes, services, infrastructure, etc., taking into account their life cycle. This method is based on a 5x5 matrix powered by a control List.

The "Materials, energy content and toxicity" matrix (MET) lists the flows inputs, and outputs for each stage of the life cycle on three criteria: consumption of materials, energy consumption, and toxicity (emissions and waste). A fourth "other" dimension can be integrated.

The simplified and qualitative assessment of the life cycle (SLCA) is a diagnostic method that borrows concepts used during LCA but in a faster, more selective, and simpler way. It allows the qualitative assessment of the impacts of a product on certain phases of its life cycle.

The ad hoc matrix approach consists of establishing an environmental diagnosis in the form of a table, considering the environmental impacts related to each stage of the life cycle

The Ecological Index Matrix is a matrix tool allowing the development of an environmental diagnosis of a product over its entire life cycle.