

Environmental Conscious manufacturing

Environmentally conscious manufacturing (ECM) is a new way of thinking about manufacturing which focuses on the most efficient and productive use of raw materials and natural resources, and minimizes the adverse impacts on workers and the natural environment. In its most advanced form, a product's entire life cycle is considered, from design, raw material and natural resource use to end use and disposal.

In order to reach this goal, tools like life cycle analysis (LCA) may be used. Concepts like pollution prevention, energy efficiency, material substitution and maximization of recycled content guide the process.

Many of these other terms and concepts are used in conjunction with ECM, and are listed in the menu on the left.

National governments, international conferences, some industry associations, and a number of individual companies are increasingly emphasizing the need for a company to take responsibility both for the environmental consequences of its production and for the ultimate disposal of the products it produces. As a result companies are increasingly challenged - by competitors, government regulation, public pressure, or good conscience - to improve and manage their processes and products from both an environmental and an economic standpoint. To be effective, these efforts, to the extent possible, need to address the energy uses and materials flows related to the entire cycle of production, consumption and ultimate disposition. Rules of thumb for environmentally-conscious manufacturing include improving efficiency and productivity through efficient energy and materials use, substituting more abundant and environmentally preferable materials for those that are rare or environmentally problematic, as well as recycling and reusing products at the ends of their lives. Expounds on some of the challenges in integrating environmental considerations in design.

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