

Life cycle phases

	Prep-stages production: idea generation, planning, development, choice of raw materials, materials and production techniques, raw material extraction and processing.	Production	Distribution: marketing, packaging, distribution	Use	End of Life: further use/re-use, recycling and disposal
Idea and overall concept	level of innovation and originality of craftsmanship user integration in the creative process and in development attention to the needs of potential users and not to current fashions and trends	innovative, environmentally friendly method of production	innovative distribution concepts that help to conserve energy and resources	new use concepts (e.g. using instead of owning)	integrated concept assumes re-use or further use of parts of a product/a garment e.g. cascading, vintage, clothes swapping) disposal-compatible design: Idea/concept aims at as environmentally sound disposal as possible
Use of materials and energy	choice of environmentally compatible materials: replenishable/renewable, available in sufficient quantity, certified organic, recycled, locally produced and processed, recyclable, biodegradable, durable, low an inherent energy non-use of environmentally- and health-damaging substances resource efficient design (e.g. through lightweight construction, miniaturisation, dematerialisation)	resource efficiency: savings in manufacturing in terms of raw materials, water and energy low material diversity unmixed use of materials, mono-material, no composites labelling of used materials and components utilisation of energy produced in an environmentally responsible manner and from renewable energy sources local manufacturing, close proximity to suppliers	packaging comprises environmentally friendly materials reusable and recyclable packaging reduction of fuel and energy consumption in transportation	reduction of consumables (e.g. detergents, printing inks, coffee filters, paper, oil, solvents) reduction of energy consumption in utilisation through savings programs, automatic functions, default settings, technical measures to mitigate environmentally harmful behaviour (e.g. automatic capacity regulation in washing machines, warning signs upon potentially environmentally harmful behaviour, information on current or aggregated energy consumption)	separation and recycling of materials and recirculation into the natural and technical material flows environmentally friendly disposal (e.g. through composting or good combustion properties of materials)
Design and construction	aesthetic quality of the craftsmanship quality, longevity modular construction, choice of robust construction mechanisms design that is appropriate to the function and materials	technically high-quality workmanship, low susceptibility to wear variability, multifunctionality, adaptability option to upgrade (replacement of obsolete components e.g. highquality technical equipment) or to refurbish (overhaul and repair for resale) logistics-oriented manufacturing: reduction of product volume and weight (e.g. folding mechanisms, straightforward dismantling of the product)	minimal and lightweight packaging reduction in the loading and storage requirements	self-explanatory, intuitive user-friendly, easy to handle, forgiving easy to read and straightforward to understand product graphics, menus and instructions straightforward to maintain, easy and environmentally sound to clean repairable	straightforward disassembly of individual components, to as great as extent as possible with standard tools reparability of materials, pollutants, batteries for environmentally sound disposal
Pollutants (in air, water, soil) and wastes	in the development of new products: Non-use of environmentally harmful materials and manufacturing processes in the reworking of existing products: Identification of pollutants and waste-causing components, processes and substitution with sustainable materials and/or technologies	low-emission manufacturing, prevention of noise and smells reduction in CO2 emissions, carbon-neutral manufacturing pollution- and waste prevention, minimisation in the manufacturing process use of Best Available Technology (BAT), cf. BAT reference documents on the Integrated Pollution Prevention and Control Directive (IPPC) treatment of wastewater including production residues	reduction of emissions through efficient logistics choice of environmentally friendly means of transportation, non-use of air freight	pollution prevention and minimisation in utilisation waste prevention and minimisation in utilisation	recycling of waste, recirculation in natural cycles environmentally sound disposal of waste and pollutants
Social and health compatibility	non-use of health-threatening materials and processes in the raw material extraction and processing convention with the ILO's Core Labour Standards	compliance with the ILO's Core Labour Standards, no child labour, socially just working conditions, fair/appropriate pay, no obstructions for works councils/unions no hazardous handling and coating processes, protection of biodiversity	adherence to principles of consumer protection and data protection	safe to use, ergonomic handling no toxic/hazardous substances in the finished product prevention/reduction of noise, low radiation exposure (relevant above all for IT products)	application of social- and health-compatible recycling and disposal processes
Product communication and services	the symbolic content, function of the design	Utilisation of resource-conserving communication formats and media e.g. digital instruction manuals, use of recycled paper in printed materials etc.	good quality, consumer-oriented product information indications provided for higher running costs (e.g. power consumption, consumables such as printer cartridges, etc) customer-friendly and fair contracts	clear, understandable, transparent indications provided for the environmentally sound use of the product, also in the instructions consumer information, product identification e.g. Blue Angel repair and maintenance services	return system upgrading/refurbishment services indications provided for the environmentally sound disposal of the product, also in the instructions