

Criteria Matrix of the German Ecodesign Award

jointly developed by the Federal Ministry for the Environment, the German Environment Agency and the International Design Centre Berlin

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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 reuse 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 , dematerialistion)

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)

in utilisation through savings programs, automatic functions, default settings, technical measures to mitigate environmentally harmful behaviour (e.g. automatic capacity regulation in

reduction of energy consumption

mentally 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, multfunctionality, 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

adherance 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 sevices

indications provided for the environmentally sound disposal of the product, also in the instructions