

ISO 14006:2011

ENVIRONMENTAL MANAGEMENT SYSTEMS - GUIDELINES FOR INCORPORATING ECODESIGN

Life Cycle Engineering – Italy

TERMS AND SCOPES

The newly published ISO 14006:2011 provides instructional guidance on incorporating ecodesign into any environmental, quality or similar management system, but is not intended for certification.

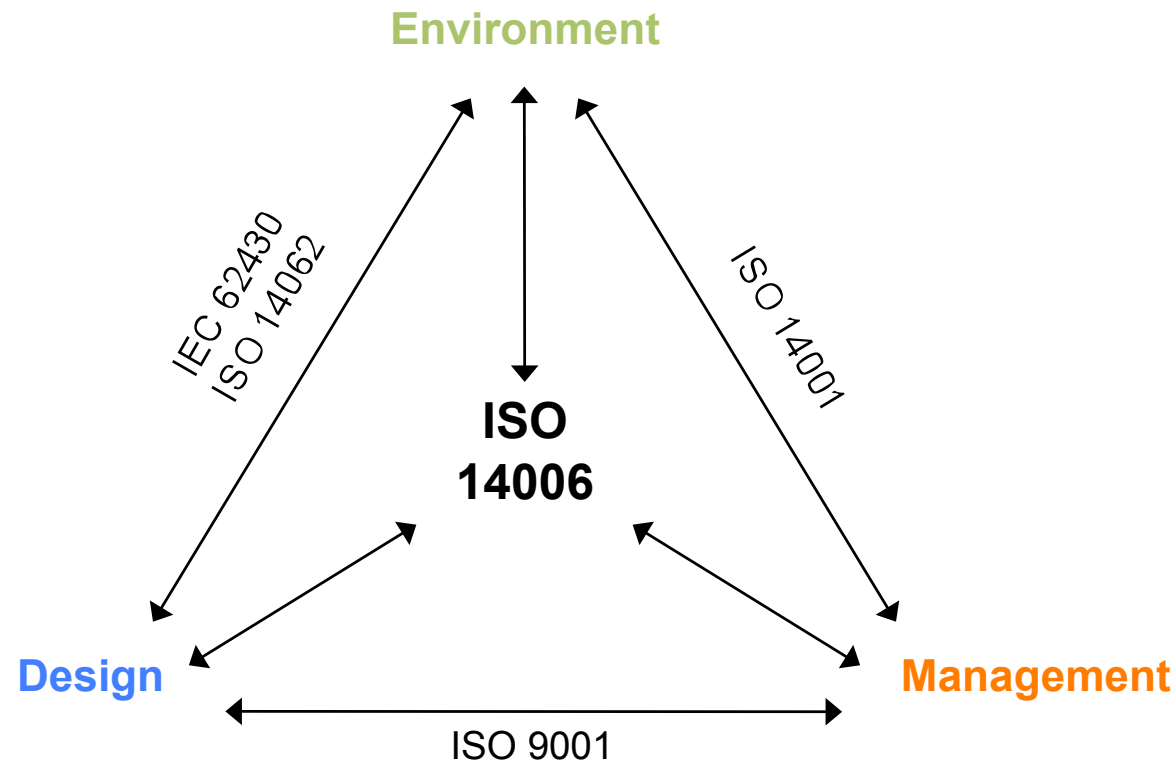
The standard aims to help organizations establish, document, implement, maintain and continually improve their management of ecodesign as part of an environmental management system (EMS). It applies to those environmental aspects of an organization's products and/or services over which it has control or influence.

TO WHOM IT MAY CONCERN?

ISO 14006:2011 is said to be applicable to **ANY ORGANIZATION**, irrespective of their size, geographical location, culture, or complexity of their management systems, and no matter how simple or complex the product or service.

- ➔ **with EMS:** the standard, however, is intended to be used primarily by organizations that have implemented an EMS according to ISO 14001, whether or not they have a quality management system according (QMS) to ISO 9001.
- ➔ **without EMS:** the new standard can be useful for organizations without a formalized EMS or Quality Management System but are interested in reducing the adverse environmental impacts of their products.

WHY IS A NEW STANDARD NEEDED?



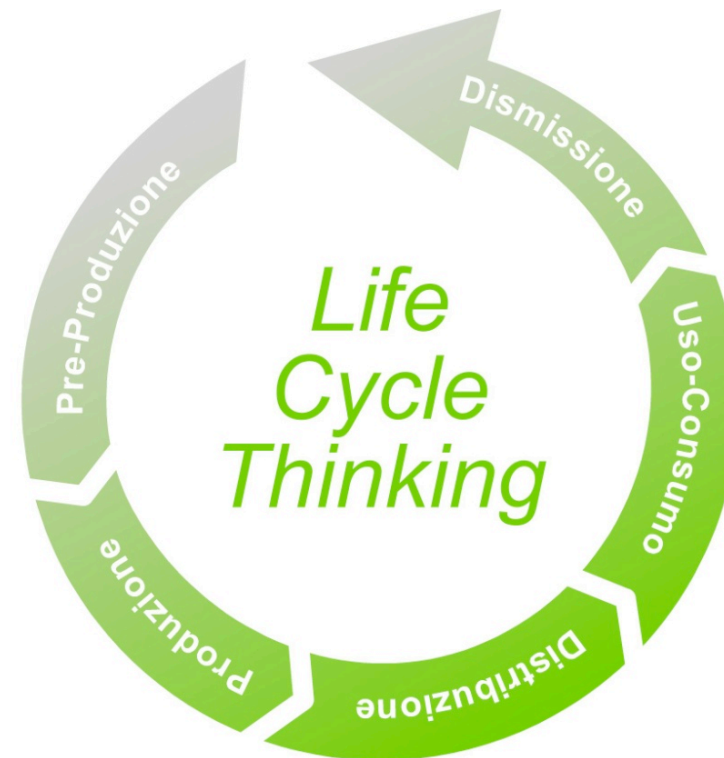
ISO 14001 links management of an organization's processes with environmental impacts, but does not include design management processes. ISO 9001 covers the design management process, but does not explicitly cover environmental impacts. ISO/TR 14062 and IEC 62430 assist incorporation of the evaluation of environmental aspects and impacts into the design and development process, but as such, they do not fully explain the activities involved within an environmental and business management framework, such as those described in ISO 14001.

WHAT IS ECODESIGN?

The Integration of environmental aspects into product design and development, with the aim of reducing adverse environmental impacts throughout a product's life cycle.

Life cycle thinking

An ecodesign process should be based on the concept of life cycle thinking, which requires consideration during the design and development process of the significant environmental aspects throughout their life cycle stages.



WHY DO ECODESIGN?

to reduce significant life cycle environmental impacts of products

Integrating ecodesign into product development offers advantages such as:

1. Economic benefits, e.g. through increased competitiveness, cost reduction and attraction of financing and investments
2. Comply with legislation
3. Promotion of innovation and creativity, and identification of new business models
4. Reduction in liability through reduced environmental impacts and improved product knowledge
5. Improved public image
6. Enhancement of employee motivation

To be successful and realise these benefits, ecodesign must be integrated into the strategic planning and operational management of the organisation

ECODESIGN PROCESS

The choice of a design solution should achieve a balance between the various environmental aspects and other relevant considerations, such as function, technical requirements, quality, performance, business risks, and economic aspects.

The following steps should be carried out during design and development (see 5.4.6):

- a) specify the function of the product;
- b) define significant environmental parameters from the analysis of interested parties' environmental requirements (see 6.5) and inputs (see 5.4.6.3) and the evaluation of the environmental aspects (see 6.4 and 5.3.1):
- c) identify relevant environmental objectives/targets based on the improvement strategies
- d) develop environmental objectives/targets based on the improvement strategies
- e) establish a product specification addressing the environmental objectives/targets, while taking into account other design considerations.
- f) develop technical solutions to meet the environmental objectives/targets, while taking into account other design considerations.

Design and development vary depending on products and organizations. There are various approaches to incorporating environmental aspects into product design and development processes

Studio LCE and ISO 14006:2011

LCE supports companies to integrate Ecodesign in their environmental management systems as required by standards UNI EN ISO 14006:2011 in accordance with UNI EN ISO 14001:2004 and/or EMAS.

LCE plans training courses about Ecodesign and EMS according to ISO 14006:2011, ISO14001:2004 and/or EMAS.

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