# Environmental Life Cycle Assessment (LCA)



## TECHNICAL COMMITTEES ON ENVIRONMENTAL LCA STANDARDIZATION

### - International level -

### ISO/TC 207/SC 5: Environmental Management – Life Cycle Assessment

**Scope**

ISO/TC 207/SC 5 carries out standardization work in the field of life cycle assessment and related management systems and tools for products (and services) and the product portfolio of organizations, including related environmental, social, and economic aspects, in support of sustainable development. Its scope includes life cycle based environmental, social, economic, and technical assessments. Such assessments can apply to, for example, circularity of resources and eco-efficiency. The outcome of the assessment provides input for decision making to minimize or to prevent potential adverse impacts.

### IEC/TC 111/WG 15: Environmental Standardization for Electrical and Electronic Products and Systems – Product Category Rules for LCA of Electrical and Electronic Products and Systems

**Scope**

IEC/TC 111/WG 15 deals with product category rules for LCA of electrical and electronic products and systems.

### - European level -

### CLC/TC 111X/WG 8: Environment – Method for Quantitative Eco Design via Life Cycle Assessment and Environmental Declarations through Product Category Rules for EEE

**Scope**

CLC/TC 111X/WG 8 develops methods for quantitative eco design via life cycle assessment and environmental declarations through product category rules for EEE.

### ETSI/TC EE: Environmental Engineering

**Scope**

ETSI/TC EE is responsible for defining the equipment engineering, the bonding and grounding, the power supply interface, the eco-design and environmental aspects for telecommunication infrastructures and equipment, including equipment installed in subscriber premises and mobile phones.

# MAIN STANDARDS ON ENVIRONMENTAL LCA

## ISO/TC 207/SC 5: Environmental Management – Life Cycle Assessment

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| ISO 14040:2006 and amendment | Environmental management — Life cycle assessment — Principles and framework |
| ISO 14044:2006 and amendments | Environmental management — Life cycle assessment — Requirements and guidelines |
| ISO/TR 14047:2012 | Environmental management — Life cycle assessment — Illustrative examples on how to apply ISO 14044 to impact assessment situations |
| ISO/TR 14049:2012 | Environmental management — Life cycle assessment — Illustrative examples on how to apply ISO 14044 to goal and scope definition and inventory analysis |
| ISO/TS 14048:2002 | Environmental management — Life cycle assessment — Data documentation format |
| ISO 14071:2024 | Environmental management — Life cycle assessment — Critical review processes and reviewer competencies |
| ISO 14072:2024 | Environmental management — Life cycle assessment — Requirements and guidance for organizational life cycle assessment |
| ISO/TS 14074:2022 | Environmental management — Life cycle assessment — Principles, requirements and guidelines for normalization, weighting and interpretation |
| ISO 14075:2024 | Environmental management — Principles and framework for social life cycle assessment |
| ISO 14045:2012 | Environmental management — Eco-efficiency assessment of product systems — Principles, requirements and guidelines |
| ISO 14046:2014 | Environmental management — Water footprint — Principles, requirements and guidelines |
| ISO/TR 14073:2017 | Environmental management — Water footprint — Illustrative examples on how to apply ISO 14046 |
| ISO 59014:2024 | Environmental management and circular economy — Sustainability and traceability of the recovery of secondary materials — Principles, requirements and guidance |

## CLC/TC 111X/WG 8: Environment – Environment – Method for Quantitative Eco Design via Life Cycle Assessment and Environmental Declarations through Product Category Rules for EEE

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| EN 50693:2019* | Product category rules for life cycle assessments of electronic and electrical products and systems |

## ETSI/TC EE: Environmental Engineering

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| ETSI ES 203 199 | Methodology for environmental Life Cycle Assessment (LCA) of Information and Communication Technology (ICT) goods, networks and services |
| ETSI TR 104 080 | Environmental Engineering (EE); Example of a Life Cycle Assessment (LCA) of a mobile phone |

\* Equals standard IEC 63366 ED1 – Product category rules for life cycle assessment of electrical and electronic products and systems *(of IEC/TC 111/WG 15: Environmental Standardization for Electrical and Electronic Products and Systems – Product Category Rules for LCA of Electrical and Electronic Products and Systems)*