ICTFOOTPRINT

ETSI 203 199 Factsheet

How do I use this methodology? Ask for support!

ETSI	ETSI 203 199: Environmental Engineering (EE); Methodology for environmental Life Cycle Assessment (LCA) of Information and Communication Technology (ICT) goods, networks and services	
Name of Initiative/Methodology	Environmental Engineering (EE); Methodology for environmental Life Cycle Assessment (LCA) of Information and Communication Technology (ICT) goods, networks and services	
Link to the latest published version	ETSI ES 203 199 (02/2015): Version 1.3.1 203199v010301p.pdf	
Developed by	The European Telecommunications Standards Institute (ETSI) The International Telecommunication Union (ITU)	
History and Status	Work started in 2014 and finished in 2015 Published in February 2015	
Involved companies / parties	Nokia Siemens Networks Alcatel-Lucent Ericsson Huawei Technologies Co. Ltd.	
Scope	Crganisation env. accounting Scope 1 Scope 2 Scope 3	✓Product env. assessment ✓ Life cycle approach ¥ Use phase only
	 ✓ GWP ✓ Energy (focus on secondary energy) 	✓ Other environmental impacts KPIs
System(s) covered by the methodology	ICT goods ICT networks ICT services	
Goals	 Revision of the [ETSI TS 103 199] and alignment with the [ITU-T L.1410] Providing generic and specific requirements for LCA Assessing environmental impacts of ICT goods, networks and services Providing detailed methodological framework of comparative analysis of specific ICT goods, networks or services or between ICT and reference products systems. 	
Generic features	 Data quality analysis, sensitivity analysis and uncertainty assessment shall be conducted. With regards to emissions: Non-material emissions like radiation, odour, noise and direct impact on health are beyond scope of this methodology. With regards to resource: Species, biodiversity and eco-system depletion as well as aesthetical values are beyond the scope of this methodology. A mandatory set of raw materials which shall be included in the LCA of ICT goods is given (Annex D). It is optional to include the construction of plants concerning the ICT goods Energy recovery of incineration processes is optional (Annex H). Allocation recommendations for material recycling (e.g. 50/50 or 100/0) are given. It is indicated that primary energy usage (e.g. CED) is to be reported as LCI result. Cut-off rules for end-of-life should not significantly change the overall conclusions and should meet the intended application. In the case of comparative analysis, the same processes or input/output data can be cut-off, if the purpose of the study is to assess the difference of impacts between them, rather than the total impacts of each product. 	
ICT-specific features	 Handling of Software should be considered Functional units differentiate between ICT goods, networks and services are described Eight items should be considered: ICT software, ICT software, Consumables and other supportive products, Site infrastructure, Travel (movement of goods), Travel (movement of people), Storage of goods, Working environment. Specifies which type of data (specific/generic) should be used for the required life cycle stages/unit processes Specifies which life cycle stages/unit processes are mandatory/recommended/optional Concerning ICT goods: Use and Repair in the ICT equipment assembly is optional. Including Testing and Repair in the ICT equipment assembly is optional. Including Testing and Repair in the ICT equipment assembly is optional. The raw material acquisition and production for the additional PCBAs used during the operational lifetime for maintenance purpose are mandatory. List of a mandatory set of EOLT (find of Life Treatment) processes to be included (Annex F). Concerning Networks: ICT and support equipment use (e.g. cooling) is to be included. List of network equipment use (e.g. cooling) is to be included assessed in the same way as other ICT goods and support goods. The important data that defines the hardware associated with the service is are operating are to be included assessed in the same way as other ICT goods and support goods. The important data that defines the hardware supporting bervice is integ (i.e. number of servers; energy consumption nerger consumption of a network than to assess the energy consumption per service and adu up to a total value Concerning Service: The datacentres where the service is are operating are to be included assessed in the same way as other ICT goods and support goods. The important data that defines th	
Examples of implementation / experience feedback	None identified - to be filled later	
Interaction with other methodologies	 (ISO 14040) Environmental management - Life cycle assessment - Principles and framework (ISO 14044) Environmental management - Life cycle assessment - Requirements and guidelines (ETSI TS 102 706) Environmental Engineering (EE): Energy Efficiency of Wireless Access Network Equipment (ETSI ES 202 336-1) Environmental Engineering (EE): Monitoring and Control Interface for Infrastructure Equipment (Power, Cooling and Building Environment Systems used in Telecommunication Networks) Part 1: Generic Interface (ILCD Handbook) General Guide for Life Cycle Assessment - Detailed Guidance (ILCD Handbook) Framework and Requirements for Life Cycle Impact Assessment Models and Indicators 	



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