ITU-T L. 1420 Factsheet

How do I use this methodology? Ask for support!

	ITU-T L.1420 - Recommendation ITU-T L.1420: Methodology for energy consumption and greenhouse gas emissions impact assessment of information and communication technologies in organisations	
Name of Initiative/Methodology	Recommendation ITU-T L.1420: Methodology for energy consumption and greenhouse gas emissions impact assessment of information and communication technologies in organisations	
Link to the latest published version	L.1420 (02/2012): Version 1.0 http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11431	
Developed by	The International Telecommunication Union (ITU)	
History and Status	o Approved in February 2012 o Publicly available and used	
Involved companies / parties	o The Study Group 5 of ITU-T is responsible for studying ICT environmental aspects of electromagnetic phenomena and climate change. o The SG5 includes Huawei, Hitachi, Telecom Italia, Orange, Littelfuse, Ericsson, Epcos AG, the JRC, TU Budapest, Aalto University, ETRI, NTT	
Scope	**Organisation 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	o ICT activities in non-ICT organisations o ICT organisations	
Goals	o Identifying energy consumption and GHG impacts of the organisation o Providing information to decisions-makers in organisations o Selecting relevant indicators for monitoring of environmental performance o Understanding improvements in GHG emissions over time o Assessing first and second order effects defined in ITU-T L.1410 emerging from the use of ICT in non-ICT organisations.	
Generic features	o GHG offset is not taken into account. o For ICT organisations, it can be used as a supplement to ISO 14064-1 and GHG Protocol standards. Scope 1 and Scope 2 GHG emissions shall be included. GHG emissions in scope 3 should also be included. For scope 3 GHG emissions, a reference table indicating the reporting structure and scope 3 sources is given in Appendix I. o The general steps include: • Definition of organisational boundaries defining which parts of the organisation to include in the assessment and operational boundaries defining activity associated with Scope 1, 2 and 3. • Identification of energy consumption and GHG sources. • Selection of quantification methodology • Calculation of energy consumption and GHG emissions o An uncertainty assessment for GHG emissions shall be performed in accordance with clause 5.4 of ISO 14064-1 (ICT organisations) o The result needs to be aggregated to an organisational level and on an annual basis.	
ICT-specific features	o Assessing GHG impact and energy consumption of ICT in organisations, the following aspects shall be addressed in accordance with the considered scopes: • ICT goods used by the organisation (e.g. PCs, flat screens listed in Annex A) • Support equipment for ICT goods used by the organisation (e.g. cooling and power supply equipment) • ICT associated consumables used by the organisation (e.g. ink cartridges, papers and DVDs) • Software and ICT services used by the organisation (e.g. software, telecommunication services) • Staff responsible for purchase, operation and maintenance of ICT goods, networks and services. o For scope 3 GHG emissions, impact from all life cycle stages except the use stage should be divided by the operational life time to get the yearly impacts. o Cut-off principles described in ITU-T L.1410 are applicable to scope 3 categories.	
Examples of implementation / experience feedback	o Alcatel Lucent experience with ITU-T L.1420	
Interaction with other methodologies	o [ITU-T L.1400] Overview and general principles of methodologies for assessing the environmental impact of information and communication technologies o [ITU-T L.1410] Methodology for environmental impact assessment of information and communication technology goods, networks and services o [ISO 14064-1] Greenhouse gases - Part 1: Specification with guidance at the organisation level for quantification and reporting of greenhouse gas emissions and removals o [PAS 2050] Specification for the assessment of the life cycle greenhouse gas emissions of goods and services o [GHG Protocol] A Corporate Accounting and Reporting Standard	

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