


## ITU-T L. 1420 Factsheet

### How do I use this methodology? Ask for support!

	<b>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</b>	
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 <a href="http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11431">http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11431</a>	
Developed by	The International Telecommunication Union (ITU)	
History and Status	<ul style="list-style-type: none"> <li>o Approved in February 2012</li> <li>o Publicly available and used</li> </ul>	
Involved companies / parties	<ul style="list-style-type: none"> <li>o The Study Group 5 of ITU-T is responsible for studying ICT environmental aspects of electromagnetic phenomena and climate change.</li> <li>o The SG5 includes Huawei, Hitachi, Telecom Italia, Orange, Liffefuse, Ericsson, Epcos AG, the JRC, TU Budapest, Aalto University, ETRI, NTT</li> </ul>	
Scope	<b>Organisation env. accounting</b> <ul style="list-style-type: none"> <li>✔ Scope 1</li> <li>✔ Scope 2</li> <li>✔ Scope 3</li> </ul>	<b>Product env. assessment</b> <ul style="list-style-type: none"> <li>■ Life cycle approach</li> <li>■ Use phase only</li> </ul>
	<ul style="list-style-type: none"> <li>✔ GWP</li> <li>✔ Energy (focus on secondary energy)</li> </ul>	<ul style="list-style-type: none"> <li>■ Other environmental impacts</li> <li>■ KPIs</li> </ul>
System(s) covered by the methodology	<ul style="list-style-type: none"> <li>o ICT activities in non-ICT organisations</li> <li>o ICT organisations</li> </ul>	
Goals	<ul style="list-style-type: none"> <li>o Identifying energy consumption and GHG impacts of the organisation</li> <li>o Providing information to decisions-makers in organisations</li> <li>o Selecting relevant indicators for monitoring of environmental performance</li> <li>o Understanding improvements in GHG emissions over time</li> <li>o Assessing first and second order effects defined in ITU-T L.1410 emerging from the use of ICT in non-ICT organisations.</li> </ul>	
Generic features	<ul style="list-style-type: none"> <li>o GHG offset is not taken into account.</li> <li>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.</li> <li>o The general steps include: <ul style="list-style-type: none"> <li>• 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.</li> <li>• Identification of energy consumption and GHG sources.</li> <li>• Selection of quantification methodology</li> <li>• Calculation of energy consumption and GHG emissions</li> </ul> </li> <li>o An uncertainty assessment for GHG emissions shall be performed in accordance with clause 5.4 of ISO 14064-1 (ICT organisations)</li> <li>o The result needs to be aggregated to an organisational level and on an annual basis.</li> </ul>	
ICT-specific features	<ul style="list-style-type: none"> <li>o Assessing GHG impact and energy consumption of ICT in organisations, the following aspects shall be addressed in accordance with the considered scopes: <ul style="list-style-type: none"> <li>• ICT goods used by the organisation (e.g. PCs, flat screens listed in Annex A)</li> <li>• Support equipment for ICT goods used by the organisation (e.g. cooling and power supply equipment)</li> <li>• ICT associated consumables used by the organisation (e.g. ink cartridges, papers and DVDs)</li> <li>• Software and ICT services used by the organisation (e.g. software, telecommunication services)</li> <li>• Staff responsible for purchase, operation and maintenance of ICT goods, networks and services.</li> </ul> </li> <li>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.</li> <li>o Cut-off principles described in ITU-T L.1410 are applicable to scope 3 categories.</li> </ul>	
Examples of implementation / experience feedback	<ul style="list-style-type: none"> <li>o <a href="#">Alcatel Lucent experience with ITU-T L.1420</a></li> </ul>	
Interaction with other methodologies	<ul style="list-style-type: none"> <li>o [ITU-T L.1400] Overview and general principles of methodologies for assessing the environmental impact of information and communication technologies</li> <li>o [ITU-T L.1410] Methodology for environmental impact assessment of information and communication technology goods, networks and services</li> <li>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</li> <li>o [PAS 2050] Specification for the assessment of the life cycle greenhouse gas emissions of goods and services</li> <li>o [GHG Protocol] A Corporate Accounting and Reporting Standard</li> </ul>	

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