

## IEC TR 62921:2016 Factsheet

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

IEC.	IEC TR 62921:2016 : Quantification methodology for greenhouse gas emissions for computers and monitors	
Name of Initiative/Methodology	Quantification methodology for greenhouse gas emissions for computers and monitors	
Link to the latest published version	IEC TR 62921 (10/2016): Version 2.0 https://webstore.iec.ch/publication/25994	
Developed by	International Electrotechnical Commissions (IEC), Technical Committee 111: Environmental Standardisation for Electrical and Electronic Products and Systems	
History and Status	Work started in 2011 and first publication in 2015     Updated version published in October 2016	
Involved companies / parties	• Not known	
Scope	Grganisation env. accounting Cope 1 Cope 2 Cope 3	<ul> <li>✓ Product env. assessment</li> <li>✓ Life cycle approach</li> <li>✓ Use phase only</li> </ul>
	<ul><li>✓ GWP</li><li>✗ Energy (focus on secondary energy)</li></ul>	# Other environmental impacts # KPIs
System(s) covered by the methodology	Computers and monitors (incl. notebook, desktop, LCD monitor, etc.)	
Goals	<ul> <li>Providing supporting data for identification of a life cycle stage, subassembly or process that have significant GHG emissions (hot spot)</li> <li>Assessing carbon footprint of computers and monitors</li> <li>Prioritising reduction efforts across the product life cycle</li> <li>Creating a basis for quantifying and reporting CFP performance over time.</li> </ul>	
Generic features	Targeted data collection is performed based on an analysis of the biggest contributors to impacts and to results' uncertainty. This analysis may also be used to determine the appropriate cut-off criteria.  Allocation should be avoided; if proven necessary, several methods can be used and are detailed in the document.  Uncertainty analysis and sensitivity analysis are to be performed  First party verification is recommended for communication  An informative list of life cycle database (public database) is provided in Annex C.	
ICT-specific features	Primary data or aggregated primary data should be used for LCDs, PWBs and ICs. Secondary data should be used for all other data needs.  When assessing GHG emissions of EE products, the following should be considered: The organisation should use primary data from its suppliers All packaging materials should be considered. Distribution stage should include transportation processes The use phase should be estimated under realistic conditions of use (i.e. use profile based on actual usage patterns, power consumption of the different modes, etc.) End of life should cover impacts generated from transport to the recycling facility, recycling or landfilling of the materials Maintenance, refurbishment and second use are excluded. Communication may not necessarily detail results for each life cycle stage.  Recommended sources for product energy consumption are provided in Annex.	
Examples of implementation / experience feedback	None identified	
Interaction with other methodologies	• [IEC TR 62725] Analysis of quantification methodologies of greenhouse gas emissions for electrical and electronic products and systems • [IEC 62430] Environmentally conscious design for electrical and electronic products • [IEC 62474] Material declaration for products of and for the electrotechnical industry • [IEC 62623] Desktop and notebook computers - Measurement of energy consumption • [IEC TR 62635] Guidelines for end-of-life information provided by manufacturers and recyclers and for recyclability rate calculation of electrical and electronic equipment • [ISO 14040] Environmental management - Life cycle assessment - Principles and framework • [ISO 14044] Environmental management - Life cycle assessment - Requirements and guidelines • [ISO 14064-1] Greenhouse gases - Specification with guidance at the organization level for quantification and reporting of greenhouse gase emissions and removals • [ISO/TS 14067] Greenhouse gases - Carbon footprint of products - Requirements and guidelines for quantification and communication • [GHG Protocol] Product Life Cycle Accounting and Reporting Standard • [ETSI TS 103 199] Environmental Engineering (EE); Life Cycle Assessment (LCA) of ICT equipment, networks and services; General methodology and common requirements • [ITU-T L.1410] Methodology for environmental life cycle assessments of information and communication technology goods, networks and services	

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