

TECHNICAL REPORT



Quantification methodology for greenhouse gas emissions for computers and monitors



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CONTENTS

FOREWORD.....	5
INTRODUCTION.....	7
1 Scope.....	8
2 Terms and definitions	8
3 Symbols and abbreviations.....	10
4 Principles	10
4.1 Comparing streamlined CFP to comprehensive CFP	10
4.1.1 General	10
4.1.2 Level of streamlining.....	11
4.2 Viability of streamlined CFP.....	12
4.2.1 Streamlining in IEC TR 62725.....	12
4.2.2 Metrics for streamlining	12
4.2.3 Principles of CFP from IEC TR 62725.....	14
4.2.4 Uncertainty	15
5 Approaches to streamlined CFP	16
5.1 General.....	16
5.2 Streamlining of data collection.....	16
5.2.1 General	16
5.2.2 Approaches to streamlining data collection	17
5.3 Streamlining of data inputs.....	17
5.3.1 General	17
5.3.2 Approaches to streamlining data inputs (processing)	17
6 Comparative study on existing CFP methodologies.....	18
6.1 Examples of current worldwide streamlined CFP methodologies	18
6.1.1 General	18
6.1.2 Product attribute to impact algorithm (PAIA)	18
6.1.3 iNEMI eco-impact evaluator.....	18
6.1.4 Orange Telecom environmental methodology	18
6.1.5 Japan CFP method	18
6.1.6 China CFP method	19
7 CFP product category rules	19
7.1 General.....	19
7.2 Goal.....	19
7.3 Scope	20
7.3.1 In scope	20
7.3.2 Out of scope	20
7.4 Use of primary, primary aggregated and secondary data.....	20
7.4.1 General	20
7.4.2 Allocation methods	20
7.5 Relevant emission factors and databases	20
7.6 Functional unit	20
7.6.1 General	20
7.6.2 Life cycle stages included.....	20
7.6.3 Life cycle stages excluded.....	21
7.7 Production	21

7.7.1	General	21
7.7.2	State-of-the-art calculation recommendations	21
7.8	Chassis.....	21
7.8.1	State-of-the-art calculation recommendations	21
7.8.2	Additional considerations for input data	22
7.9	Populated printed wiring board (PWB) (excluding integrated circuits).....	22
7.9.1	State-of-the-art calculation recommendations	22
7.9.2	Additional considerations for input data	23
7.10	Integrated circuits (ICs).....	23
7.10.1	State-of-the-art calculation recommendations	23
7.10.2	Additional considerations for input data	23
7.11	Display	24
7.11.1	State-of-the-art calculation recommendations	24
7.11.2	Additional considerations for input data	24
7.12	Data storage device	24
7.12.1	State-of-the-art calculation recommendations	24
7.12.2	Additional considerations for input data	25
7.13	Optical disk drive (ODD)	25
7.13.1	State-of-the-art calculation recommendations	25
7.13.2	Additional considerations for input data	25
7.14	Power supply unit (PSU, internal or external).....	26
7.14.1	State-of-the-art calculation recommendations	26
7.14.2	Additional considerations for input data	26
7.15	Battery.....	26
7.15.1	State-of-the-art calculation recommendations	26
7.15.2	Additional considerations for input data	26
7.16	Final assembly.....	27
7.16.1	State-of-the-art calculation recommendations	27
7.16.2	Additional considerations for input data	27
7.17	Final product packaging	27
7.17.1	State-of-the-art calculation recommendations	27
7.17.2	Additional considerations for input data	28
7.18	Distribution	28
7.18.1	State-of-the-art calculation recommendations	28
7.18.2	Additional considerations for input data	28
7.19	Use.....	29
7.19.1	State-of-the-art calculation recommendations	29
7.19.2	Additional considerations for input data	29
7.20	End of life (EoL).....	29
7.20.1	State-of-the-art calculation recommendations	29
7.20.2	Additional considerations for input data	30
8	Documentation	30
8.1	General.....	30
8.2	CFP database.....	30
9	Communication and verification	30
Annex A (informative) Results of a comparative study on existing relevant streamlined product carbon footprinting methodologies.....		31
Annex B (informative) Generic example of streamlined CFP process for ICT products		41
B.1	Initial analysis	41

B.2	Example calculation for a notebook.....	41
B.3	Data collection	42
Annex C (informative)	Examples of relevant databases for the IT industry	43
C.1	Ecoinvent.....	43
C.2	US Life Cycle Inventory	43
C.3	GaBi	43
C.4	ELCD (European Reference Life Cycle Data System)	43
C.5	PAIA (Product Attribute to Impact Algorithm) Data	43
Bibliography	44
Figure 1	– Depiction of how streamlined CFP fits into comprehensive CFP	11
Table 1	– Depiction of how streamlined CFP fits into comprehensive CFP	14
Table A.1	– Comparison of "streamlined" product carbon footprinting methodologies	32

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**QUANTIFICATION METHODOLOGY FOR GREENHOUSE GAS
EMISSIONS FOR COMPUTERS AND MONITORS**

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IEC TR 62921, which is a Technical Report, has been prepared by technical area 13: Environment for AV and multimedia equipment, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this Technical Report is based on the following documents:

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100/2381/DTR	100/2448/RVC

Full information on the voting for the approval of this Technical Report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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INTRODUCTION

Many organizations are looking to adopt product greenhouse gas emissions reporting mechanisms, including:

- computer and monitor manufacturers, as well as their suppliers and downstream users;
- governmental agencies including France, China, Japan, Korea and the European Commission;
- retailers and non-regulatory agencies.

There have been several international and regional efforts to provide guidance for calculating product greenhouse gas emissions. Some of these efforts include IEC TR 62725, ITU-T L.1410, ETSI TS 103 199, and Greenhouse Gas Protocol ICT Sector Supplement.

Unfortunately, some lack of specificity within these documents allows for variability that can create a significant difference in product greenhouse gas emission results, depending on how a practitioner interprets the information. Throughout the process of developing IEC TR 62725, there was significant discussion regarding the need for further specificity, transparency and pragmatism in methodology guidance for products covered under IEC TC 100, including computers and monitors. There is an urgent need to enable methodologies that offer accurate and defensible estimates of impact in a rapid and effective manner. This Technical Report aims to fill in some of those gaps.

This Technical Report builds upon the structure laid out by IEC TR 62725. Its goal is to support universal streamlined product greenhouse gas methodologies for practitioners, with a further goal of harmonizing the various regional efforts currently in progress.

This Technical Report's quantification methodology aims to be compliant with, and therefore be used within, a number of these broader standards efforts. It will provide detailed guidance for estimating greenhouse gas emissions for computer and monitor products, in order to obtain consistent, accurate results. The benefit of consistent results is that they can assist multiple efforts, including but not limited to:

- supporting customer enquiries;
- instituting sustainable design practices;
- initiating conversations around emissions reduction strategies with suppliers and downstream users;
- targeting data collection within the supply chain in order to address data quality issues.