ISO 20294:2018 (E)

Graphic technology — Quantification and communication for calculating the carbon footprint of e-media

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

3.1 Terms relating to carbon footprint
3.2 Terms relating to greenhouse gases
3.3 Terms relating to life cycle assessment
3.4 Terms relating to organisations and consumers
3.5 Terms relating to electronic media
3.6 Terms relating to electronic media delivery
3.7 Terms relating to information and communication technology

4 Principles for carbon footprint quantification

4.1 General requirements
4.2 Life cycle perspective
4.3 Relative approach and functional unit
4.4 Relevance
4.5 Completeness
4.6 Consistency
4.7 Accuracy
4.8 Transparency
4.9 Assumptions for content use
4.10 Avoidance of double counting
4.11 Implementation criteria
4.12 Uncertainty

5 Methodology

5.1 General Requirements
5.2 Goal and scope
5.2.1 General
5.2.2 LCA carbon footprint
5.2.3 System boundary
5.2.4 Scope of e-media carbon footprint studies
5.2.5 Life cycle stages
5.3 System boundary definitions
5.4 Time boundary for data
5.5 Carbon footprint quantification of life-cycle stages
5.5.1 Inventory analysis
5.5.2 Data collection for each life-cycle stage
5.5.3 General requirements applied to all stages
5.5.3.1 General
5.5.3.2 Precision of data
5.5.3.3 Cumulative and allocation method
5.5.3.3.1 General
5.5.3.3.2 Allocation procedure
5.5.3.4 Related scenarios
5.5.3.5 Energy sources and use
5.5.3.6 Supply and internal transport determination (optional)

5.5.3.7 Regional differences and seasonal variations
5.5.3.8 Performance tracking
5.5.3.9 Disposal/recycling (optional)
5.5.3.10 Corporate carbon footprint (optional)
5.5.4 Production stage for contents
5.5.5 Distribution stage for contents (optional)
5.5.6 Use stage for contents
5.5.7 Production stage for e-media devices
5.5.8 Distribution stage for e-media devices
5.5.9 Use stage for e-media devices
5.5.10 End-of-life stage for e-media devices (optional)

6 Reporting

6.1 General
6.2 Documentation requirements
6.2.1 General
6.2.2 Reporting requirements
6.3 Interpretation of the carbon footprint of a product
6.3.1 General
6.3.2 Life cycle interpretation phase
6.3.2.1 General
6.3.3 Allocation method

7 Communication requirements

7.1 General
7.2 Interpretation and comparison
7.3 Product definitions and product category rules

Annex A (informative) Inventory analysis of input criteria used to define the product profile

A.1 General
A.2 Inventory analysis of input criteria used to define the product profile
A.3 Examples of functional units

Annex B (normative) Operations and materials in processes and data collection itemswithin the system boundary

B.1 General
B.2 Data collection items within system boundary
B.3 Example of life cycle/life span flow of contents

Annex C (normative) Allocation method regarding e-media devices

C.1 Allocation method
C.2 Use hours per day for e-media devices
C.2.1 General
C.2.2 Questionnaire survey
C.2.3 Value of CFP registration information
C.3 Supplementation of allocation method

Annex D (informative) Method regarding the number of downloads

D.1 Allocation method

Annex E (informative) Calculation examples

Annex F (normative) Information to be included in e-media carbon footprint comparisons

Annex G (normative) Limitations of the CFP

G.1 General
G.2 Focus on a single environmental issue
G.3 Limitations related to the methodology

Page count: 31