



**SLOVENSKI STANDARD**  
**oSIST prEN IEC 63372:2024**  
**01-julij-2024**

**Merjenje in sporočanje ogljičnega odtisa in emisij toplogrednih plinov iz električnih in elektronskih proizvodov in sistemov - Principi, metode, zahteve in vodila**

Quantification and communication of Carbon FootPRINT and GHG emission reductions/avoided emissions from electric and electronic products and systems - Principles, methodologies, requirements and guidance

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**Ta slovenski standard je istoveten z: prEN IEC 63372:2024**

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**ICS:**

13.020.40	Onesnaževanje, nadzor nad onesnaževanjem in ohranjanje	Pollution, pollution control and conservation
29.020	Elektrotehnika na splošno	Electrical engineering in general
31.020	Elektronske komponente na splošno	Electronic components in general

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**en**





## COMMITTEE DRAFT FOR VOTE (CDV)

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DATE OF CIRCULATION: <b>2024-05-03</b>	CLOSING DATE FOR VOTING: <b>2024-07-26</b>
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IEC TC 111 : ENVIRONMENTAL STANDARDIZATION FOR ELECTRICAL AND ELECTRONIC PRODUCTS AND SYSTEMS	
SECRETARIAT: Italy	SECRETARY: Mr Alfonso Sturchio
OF INTEREST TO THE FOLLOWING COMMITTEES: TC 2,TC 4,TC 5,TC 7,TC 9,TC 10,TC 14,TC 15,TC 17,TC 18,TC 20,TC 21,SC 21A,TC 22,SC 22H,TC 23,TC 26,TC 27,TC 32,TC 33,TC 34,TC 35,TC 36,TC 37,TC 38,TC 40,TC 45,TC 46,TC 47,TC 48,TC 49,TC 51,TC 55,TC 62,TC 68,TC 69,TC 72,TC 76,TC 78,TC 79,TC 82,TC 86,TC 88,TC 91,TC 94,TC 95,TC 96,TC 100,TC 103,TC 105,TC 110,TC 114,TC 117,TC 119,TC 120,TC 121,TC 122,TC 124	PROPOSED HORIZONTAL STANDARD: <input checked="" type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input checked="" type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING <input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING	
<p><b>Attention IEC-CENELEC parallel voting</b></p> <p>The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.</p> <p>The CENELEC members are invited to vote through the CENELEC online voting system.</p>	

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TITLE:

**Quantification and communication of Carbon FootPRINT and GHG emission reductions/avoided emissions from electric and electronic products and systems – Principles, methodologies, requirements and guidance**

PROPOSED STABILITY DATE: 2030

NOTE FROM TC/SC OFFICERS:

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**QUANTIFICATION AND COMMUNICATION OF CARBON FOOTPRINT AND  
 GHG EMISSION REDUCTIONS/AVOIDED EMISSIONS FROM ELECTRIC  
 AND ELECTRONIC PRODUCTS AND SYSTEMS – PRINCIPLES,  
 METHODOLOGIES, REQUIREMENTS AND GUIDANCE**

## FOREWORD

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International Standard IEC 63372 has been prepared by IEC technical committee 111: Environmental standardization for electrical and electronic products and systems.

The text of this International Standard is based on the following documents:

Draft	Report on voting
XX/XX/FDIS	XX/XX/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English].

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at <http://www.iec.ch/standardsdev/publications>.



162 The committee has decided that the contents of this document will remain unchanged until the  
163 stability date indicated on the IEC website under [webstore.iec.ch](https://webstore.iec.ch) in the data related to the  
164 specific document. At this date, the document will be

- 165 • reconfirmed,
- 166 • withdrawn,
- 167 • replaced by a revised edition, or
- 168 • amended.

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169

## INTRODUCTION

170 Based on IPCC reports regarding global warming, there is broad understanding that greenhouse  
171 gas (GHG) emissions must be significantly reduced in the coming 10 or more years. Products  
172 and systems including ones called as solution composed of electric and electronic (EE) products,  
173 operated and controlled by new digital technologies and methods such as AI, digital twins and  
174 IoT can significantly change patterns of energy usage for energy intensive activities, although  
175 having by themselves an environmental impact.

176 Such a change of the pattern of energy usage by adding a digital technology has the potential  
177 to avoid GHG emissions represented by CO<sub>2</sub> emission for energy intensive activities. Although  
178 the EE products themselves lead to GHG emissions, the GHG emission of the complete activity  
179 is significantly lowered, so that the net effect is a reduction of GHG emissions. As a  
180 consequence of them expanding to meet future decarbonization needs, many EE businesses  
181 will increase their total emissions (in contrast to e.g., a fossil fuel business that is scaling down  
182 and showing reduced emissions) and many new products will be manufactured, creating  
183 emissions that didn't exist before. The concept of avoided emissions provides a way of showing  
184 that they are still contributing a net improvement to society.

185 The necessity of a sector specific approach applicable to EE products and systems is  
186 recognized by considering the specific characteristics of EE products which could include a  
187 large quantity of components/materials in a product, dynamic, long, and complicated supply  
188 chains, rapidly evolving technology, the complexity of production processes, and use/end-of-  
189 life scenarios, etc., which can lead to considerable challenges in performing CFP, emission  
190 reductions and avoided emissions.

191 Furthermore, manufacturers of products, systems composed of EE products need robust and  
192 reliable calculation methods to establish the amount of avoided emissions caused by their  
193 products, systems and solutions. One of important purpose for this standard is to define  
194 methodologies which assess avoided emissions from the use of new technologies in an  
195 unambiguous and transparent manner.

196 Use of this GHG standard allows the EE industry to declare or disclose the information about  
197 GHG emissions, emission reductions and avoided emissions from any EE products, systems  
198 on the basis of an international standard, linking social needs for GHG emission reductions.  
199 Through the information disclosure based on this IEC standard, EE industry can claim fairly that  
200 the products, services and systems can reduce/avoid users' emissions and contribute to solving  
201 societal issues directly linked with UN-SDG13 Climate Action.

202 This document refers to established methodologies stipulated by international standards such  
203 as Life Cycle Assessment (LCA) methods covered by existing product specific rules (PSR) when  
204 defined or to product category rules (PCR) when defined. See IEC 63336 CDV (Current status)  
205 for EE products or ITU 1410 for ICT products and services or to ISO 14040 for any other  
206 products and services.

207 The PCRs and PSRs address the climate change impact category within GHG emissions  
208 quantification. The methodologies in this document are based on ISO 14064 series and  
209 ISO 14067 which might be completed by GHG protocol methodologies if any.

210 **QUANTIFICATION AND COMMUNICATION OF CARBON FOOTPRINT AND**  
 211 **GHG EMISSION REDUCTIONS/AVOIDED EMISSIONS FROM ELECTRIC**  
 212 **AND ELECTRONIC PRODUCTS AND SYSTEMS – PRINCIPLES,**  
 213 **METHODOLOGIES, REQUIREMENTS AND GUIDANCE**  
 214

215 **1 Scope**

216 This document describes principles and methodologies, specifies requirements and provides  
 217 guidance for GHG quantification and communication of Carbon footprint, emission reductions  
 218 and avoided emissions from electric and electronic (EE) products and systems. The GHG  
 219 quantification such as carbon footprint of product (CFP) is based on life cycle assessment (LCA)  
 220 methods.

221 This document is applicable to EE products, systems and EE product-related GHG project.

222 In accordance with IEC Guide 108, this basic essential horizontal standard is intended for use  
 223 by product committees as a starting point in preparing GHG quantification and communication  
 224 standards for their own product families. Specific requirements developed by product  
 225 committees in their standards take precedence over requirements in this standard.

226 When there is no specified standard available in a product committee, this generic essential  
 227 horizontal standard could be applied by GHG quantification and communication practitioners  
 228 with recorded complementary specifications.

229 **2 Normative references**

230 The following documents are referred to in the text in such a way that some or all of their content  
 231 constitutes requirements of this document. For dated references, only the edition cited applies.  
 232 For undated references, the latest edition of the referenced document (including any  
 233 amendments) applies.

234 <https://standards.iteh.ai/>  
 235 IEC 63366, Product category rules for life cycle assessment of electrical and electronic products  
 and systems (*CDV stage*)

236 ISO14067:2018, Greenhouse gases — Carbon footprint of products — Requirements and  
 237 guidelines for quantification

238 **3 Terms, definitions, and abbreviated terms**

239 For the purposes of this document, the following terms and definitions apply.

240 ISO and IEC maintain terminological databases for use in standardization at the following  
 241 addresses:

242 IEC Electropedia: available at <http://www.electropedia.org/>

243 ISO Online browsing platform: available at <http://www.iso.org/obp>

244 **3.1 Terms related to greenhouse gas**

245 **3.1.1**  
 246 **carbon dioxide equivalent**  
 247 **CO<sub>2</sub> equivalent**

248 **CO<sub>2</sub>e**

249 unit for comparing the radiative forcing of a GHG to that of carbon dioxide

250 Note 1 to entry: Mass of a GHG is converted into CO<sub>2</sub> equivalents by multiplying the mass of the GHG by the  
251 corresponding GWP or GTP of that gas.

252 Note 2 to entry: In the case of GTP, CO<sub>2</sub> equivalent is the unit for comparing the change in global mean surface  
253 temperature caused by a GHG to the temperature change caused by CO<sub>2</sub>.

254 [SOURCE: ISO 14067:2018, 3.1.2.2]

255 **3.1.2**

256 **global warming potential**

257 **GWP**

258 index, based on radiative properties of GHGs, measuring the radiative forcing following a pulse  
259 emission of a unit mass of a given GHG in the present-day atmosphere integrated over a chosen  
260 time horizon, relative to that of carbon dioxide (CO<sub>2</sub>)

261 Note 1 to entry: "Index" as used in this document is a "characterization factor" as defined in ISO 14040:2006, 3.37.

262 Note 2 to entry: A "pulse emission" is an emission at one point in time.

263 Note 3 to entry: Always following "global warming potential values relative CO<sub>2</sub> for greenhouse gas" IPCC latest  
264 assessment report.

265 [SOURCE: ISO14067:2018, 3.1.2.4, modified — Note 3 to entry has been added.]

266 **3.1.3**

267 **greenhouse gas**

268 **GHG**

269 gaseous constituent of the atmosphere, both natural and anthropogenic, that absorbs and emits  
270 radiation at specific wavelengths within the spectrum of infrared radiation emitted by the earth's  
271 surface, the atmosphere, and clouds

272 Note 1 to entry: For a list of GHGs, see the latest IPCC Assessment Report.

273 Note 2 to entry: Water vapour and ozone, which are anthropogenic as well as natural GHGs, are not included in the  
274 CFP and partial CFP.

275 Note 3 to entry: The focus of this document is limited to long-lived GHGs, it therefore excludes climate effects due  
276 to changes in surface reflectivity (albedo) and short-lived radiative forcing agents (e.g., black carbon and aerosols).

277 [SOURCE: ISO 14067:2018, 3.1.2.1]

278 **3.1.4**

279 **greenhouse gas emission**

280 **GHG emission**

281 release of a GHG into the atmosphere

282 [SOURCE: ISO 14067:2018, 3.1.2.5]

283 **3.1.5**

284 **greenhouse gas emission factor**

285 **GHG emission factor**

286 coefficient relating activity data with the GHG emission

287 [SOURCE: ISO 14067: 2018, 3.1.2.7]

288 **3.1.6**289 **greenhouse gas removal**290 **GHG removal**

291 withdrawal of a GHG from the atmosphere

292 Note to entry: Examples of ways in which GHG removals can be achieved include carbon sequestration in soils,  
293 direct air capture, carbon capture and storage.

294 [SOURCE: ISO 14067:2018, 3.1.2.6]

295 **3.2 Terms related to the GHG quantification process**296 **3.2.1 Quantification of Carbon footprint (GHG emissions and GHG removals)**297 **3.2.1.1**298 **allocation**299 partitioning the input or output flows of a process or a product system, correlating the product  
300 system under study with one or more other product systems

301 [SOURCE: IEC TR 62725:2013, 3.1]

302 **3.2.1.2**303 **carbon emission intensity**304 **CO<sub>2</sub> emission intensity**305 **carbon intensity**306 carbon metric expressed in relation to a specific reference unit related to the function of the  
307 activity or to a location308 Note to entry: carbon intensity of energy use can be electricity generation (renewable energy production such as  
309 photovoltaic, wind turbine) or consumption (electrical loads).310 **3.2.1.3**311 **carbon footprint of a product**312 **CFP**313 sum of GHG emissions and GHG removals in a product system, expressed as CO<sub>2</sub> equivalents  
314 and based on a life cycle assessment using the single impact category of climate change315 Note 1 to entry: A CFP can be disaggregated into a set of figures identifying specific GHG emissions and GHG  
316 removals. A CFP can also be disaggregated into the stages of the life cycle.317 Note 2 to entry: The results of the quantification of the CFP are documented in the CFP study report expressed in  
318 mass of CO<sub>2</sub>e per functional unit.

319 [SOURCE: ISO 14067:2018, 3.1.1.1]

320 **3.2.1.4**321 **carbon footprint of a product – product category rules**322 **CFP-PCR**323 set of specific rules, requirements and guidelines for CFP or partial CFP quantification and  
324 communication for one or more product categories

325 Note 1 to entry: CFP-PCR include quantification rules conforming to ISO 14044.

326 Note 2 to entry: ISO/TS 14027 describes the development of PCR applicable to this document.

327 [SOURCE: ISO 14067:2018, 3.1.1.10]

328 **3.2.1.5**  
329 **carbon footprint of a product study**  
330 **CFP study**

331 all activities that are necessary to quantify and report a CFP or a partial CFP

332 [SOURCE: ISO 14067:2018, 3.1.1.4]

333 **3.2.1.6**  
334 **carbon footprint of a product study report**  
335 **CFP study report**

336 report that documents the CFP study, presents the CFP or partial CFP, and shows the decisions  
337 taken within the study

338 Note to entry: The CFP study report demonstrates that the provisions of this document are met.

339 [SOURCE: ISO14067:2018, 3.1.1.5]

340 **3.2.1.7**  
341 **declared unit**

342 quantity of a product for use as a reference unit in the quantification of a partial CFP

343 EXAMPLE Mass (1 kg of primary steel), volume (1 m<sup>3</sup> of crude oil).

344 [SOURCE: ISO 14067, 3.1.3.8]

345 **3.2.1.8**  
346 **direct greenhouse gas emission**  
347 **direct GHG emission**

348 greenhouse gas emission from greenhouse gas sources owned or controlled by an organization

349 [SOURCE: ISO 14050:2020, 3.9.9]

350 **3.2.1.9**  
351 **energy indirect greenhouse gas emission**  
352 **energy indirect GHG emission**

353 greenhouse gas emission from the generation of imported electricity, heat, or steam consumed  
354 by an organization

355 [SOURCE: ISO 14050:2020, 3.9.11]

356 **3.2.1.10**  
357 **functional unit**  
358 **LCA functional unit**

359 main function(s) description and associated quantified performance of a product system for use  
360 as a reference unit

361 Note 1 to entry: As the CFP treats information on a product basis, an additional calculation based on a declared unit  
362 can be presented.