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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Environmental management - Guide on life cycle assessment
for electrical and electronic equipment**

环境管理 生命周期评价在电子电气产品领域应用指南

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Description of electrical and electronic products	2
5 Contents and methods of product life cycle assessment	3
6 Additional environmental information	6
10 Reference	12

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part

1. Structure and Drafting Rules of Standardization Documents" Drafting. Please note that some of the contents of this document may involve patents. The issuing agency of this document is not responsible for identifying patents. This document was proposed and managed by the National Environmental Standardization Technical Committee (SAC/TC297) for Electrical and Electronic Products and Systems. Drafting organizations of this document. China National Institute of Standardization, Renmin University of China, China Quality Certification Center, Xiamen Amasu Electronic Sanitary Ware Co., Ltd. Company, China Electrical Equipment Industry Association, Huzhou Jiuding Electronics Co., Ltd., Tianjin University of Technology. The main drafters of this document. Gao Dongfeng, Lin Ling, Jin Min, Fu Yun, Ding Shuang, Sun Liang, Bao Wei, Zhu Yi, Gao Yanxin, Luo Mingfei, Hou Quanduo, Zhang Liang, Chen Linfeng, Hu Biao. Environmental Management Life Cycle Assessment Application guide in the field of electrical and electronic products

1 Scope

GB/Z 40824-2021 is the Chinese national standard on environmental management - guide on life cycle assessment for electrical and electronic equipment, in the field of environment and health protection, safety. The /Z suffix marks it as a guiding technical document: it does not prescribe requirements that can be certified against, but sets out the technique, the method or the state of the art that the standards bodies recommend following. It was issued on 11 October 2021 by the State Administration for Market Regulation; Standardization Administration of China. As a guiding technical document it carries no separate date of entry into force: it applies from publication. Classification: ICS 13.020.10, CCS Z00. This

page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document provides the product description, product life cycle assessment content and methods involved in the life cycle assessment of electronic and electrical products Guidance on additional environmental information and product life cycle assessment reports. This document is applicable to the life cycle assessment of electrical and electronic products, and other products are used as reference.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Lifecycle A series of consecutive stages in the product system, from the natural world or from natural resources to obtain raw materials, until the final disposal. [Source: GB/T 24040-2008, 3.1]

3.2 Lifecycle assessment lifecycleassessment;LCA The compilation and evaluation of inputs, outputs and their potential environmental impacts during the life cycle of a product system. [Source: GB/T 24040-2008, 3.2]

3.3 Lifecycle inventory analysis; LCI In the life cycle assessment, the stage of compiling and quantifying the input and output of the researched product throughout the life cycle. [Source: GB/T 24040-2008, 3.3]

3.4 Functionalunit Used as a benchmark unit to quantify the performance of the product system. [Source: GB/T 24040-2008, 3.20]

3.5 Systemboundary A set of criteria is used to determine which unit processes are part of the product system. [Source: GB/T 24040-2008, 3.32]

3.6 Dataquality The ability of the data to meet the stated requirements. [Source: GB/T 24040-2008, 3.19]