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Responsible committee: ESL/120 Electrical Energy Storage

Interested committees:

Title: Draft BS EN 62933-4-4 Ed.1.0 Electrical energy storage (EES) systems. Part 4-4: Standard on environmental issues battery based energy storage systems (BESS) with reused batteries – requirements.

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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Full document details: 21/30414088 DC

Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



120/242/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER: IEC 62933-4-4 ED1	
DATE OF CIRCULATION: 2021-08-27	CLOSING DATE FOR COMMENTS: 2021-10-22
SUPERSEDES DOCUMENTS: 120/170/NP, 120/175/RVN	

IEC TC 120 : ELECTRICAL ENERGY STORAGE (EES) SYSTEMS	
SECRETARIAT: Japan	SECRETARY: Mr Hideki HAYASHI
OF INTEREST TO THE FOLLOWING COMMITTEES: SC 8A,TC 21,SC 21A,TC 69,TC 77,TC 111	PROPOSED HORIZONTAL STANDARD: ☐ Other TC/SCs are requested to indicate their interest, if any, in this CD to the secretary.
FUNCTIONS CONCERNED: ☐ EMC ☒ ENVIRONMENT ☐ QUALITY ASSURANCE ☐ SAFETY	

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

TITLE:

Electrical energy storage (EES) systems- Part 4-4: Standard on environmental issues battery-based energy storage systems (BESS) with reused batteries – requirements

NOTE FROM TC/SC OFFICERS:

WG4 experts have proposed that the title of 62933-4-4 will be changed to a more appropriate title. This CD will be circulated with a modified title shown below based on the results of this review.

"Modified title of 62933-4-4"

ELECTRICAL ENERGY STORAGE (EES) SYSTEMS -

Part 4-4: Standard on environmental issues battery-based energy storage systems (BESS) with reused batteries – requirements

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL ENERGY STORAGE (EES) SYSTEMS –

Part 4-4: Standard on environmental issues Battery-based energy storage systems (BESS) with reused batteries - Requirements

FOREWORD

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International Standard IEC XXXXX has been prepared by subcommittee XX: TITLE, of IEC technical committee XX:XXX.

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

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

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

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

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

- 83 • reconfirmed,
- 84 • withdrawn,
- 85 • replaced by a revised edition, or
- 86 • amended.

87

88 The National Committees are requested to note that for this document the stability date
89 is 20XX..

90 THIS TEXT IS INCLUDED FOR THE INFORMATION OF THE NATIONAL COMMITTEES AND WILL BE
91 DELETED AT THE PUBLICATION STAGE.

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INTRODUCTION

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95 Introduction of renewable energy is progressing in the trend of decarbonisation aiming at
96 reducing CO₂ emissions. These power generation methods have large fluctuations in voltage
97 and frequency, which causes instability in the power supply. As the transition to renewable
98 energy progresses, the grid becomes more vulnerable to sudden fluctuations in power
99 generation or consumption. Stabilization can be achieved by introducing a battery energy
100 storage system (BESS). Given this background, it is expected that the use of BESS will increase.
101 It is expected that BESS system will mainly be utilized to ensure the stability of the power grid
102 as renewable energy systems are connected to electrical grid.

103 From the perspective of life-cycle thinking (LCT), it is necessary to consider the use of reused
104 storage batteries as one of the methods for acquiring storage batteries. Reuse batteries,
105 however, are expected to be distributed in various form such as cells or modules and packs
106 which consists of multiple cells. It is necessary to consider the environmental impact while
107 applying various reuse batteries to BESS in situations where necessary and sufficient
108 information cannot always be obtained.

109 Environmental issues on BESS are described in IEC / TS 62933-4-1. The text complements
110 from the perspective of reuse batteries.

111 The expected users of this document are: manufacturers or users of BESS connected to the
112 power grid by utilizing reuse batteries.

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