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Responsible committee: AMS/1/-/1 Management of Assets in Power Systems

Interested committees:

Title: Draft BS EN IEC 63223-1 ED1 BS EN IEC 63223-1 Management of network assets in power systems - Overview, principles and terminology.

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

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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.

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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 Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.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

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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	Comment (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.	



123/107/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER:

IEC 63223-1 ED1

DATE OF CIRCULATION:

2024-09-06

CLOSING DATE FOR COMMENTS:

2024-11-29

SUPERSEDES DOCUMENTS:

123/68/NP, 123/81/RVN

IEC TC 123 : MANAGEMENT OF NETWORK ASSETS IN POWER SYSTEMS		
SECRETARIAT: Japan		SECRETARY: Mr Hiroki SHIGETSUGU
OF INTEREST TO THE FOLLOWING COMMITTEES: TC 8,SC 8C,TC 56		HORIZONTAL FUNCTION(S):
ASPECTS CONCERNED: Electricity transmission and distribution		

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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.

Recipients of this document are invited to submit, with their comments, notification of any local regulations or technical reasons that may exist and should be considered should this proposal proceed, recognizing that failure to address such requirements could result in the need for new or existing "In Some Countries" clauses. (SEE AC/22/2007 OR NEW GUIDANCE DOC).

TITLE:

Management of network assets in power systems - Overview, principles and terminology

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MANAGEMENT OF NETWORK ASSETS IN POWER SYSTEMS –

PART 1: OVERVIEW, PRINCIPLES AND TERMINOLOGY

FOREWORD

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International Standard IEC **XXXXX** has been prepared by IEC technical committee No. 123.

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.

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

- 101 • reconfirmed,
- 102 • withdrawn,
- 103 • replaced by a revised edition, or
- 104 • amended.

105 The National Committees are requested to note that for this document the stability date
106 is 2029.

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

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INTRODUCTION

1) Background

The IEC white paper "Strategic asset management of power networks" was published in 2015 [1]¹ and TC 123 was established the following year to develop a management standard covering power network assets.

This white paper and power network sector specific Asset Management (AM) standard (TC 123, IEC 63223 series) was initiated by the CEO of a power network company who found that some sections of AM management system standards (ISO 55000 series) were very generic and as such the requirements were not easy to follow and to discuss with the country's regulator.

The scope of TC 123 is "*standardisation to deliver, in co-operation with other TC/SCs and international organizations, common methods and guidelines for coordinated lifetime management of network assets in power systems to support good asset management*". This possibly includes the development of new methods and guidelines. "Asset management" means "*coordinated activity of an organization to realize value from assets*" defined by ISO 55000 series [2][3][4].

In TC 123, two projects have delivered Committee Drafts (CDs) on terminology (IEC 60050-693) and on practice and case studies for management aspects (IEC TS 63224) [5][6]. Another project on asset risk mitigation is preparing its first CD (IEC 63223-2) based on the approved new work item proposal (NP) 123/47/NP [7].

One of the comments on the NP 123/47/NP and on the CD of IEC TS 63224 was: "*The scope is supposed to be about realizing value from power network assets, but it is biased towards only reducing the risk of existing assets. TC 123 should have a broader scope*". Therefore, it was decided at the 2022 plenary meeting to create a new project, IEC 63223-1, to present an overall picture that includes value creation as well as asset risk mitigation.

TC 123 deliverables have the following structure:

- IEC 63223-1 (this document) provides an overview and explains the principles of asset management applied to power systems,
- IEC 60050-693 explains the terms to be used and their definitions,
- IEC 63223-2 (under development)², will explain the requirements for development of a risk-informed decision-making process within asset management and provide case studies relating to asset risk mitigation and value-based risk-informed life cycle decisions, and
- IEC TS 63224 explains management aspects and provides case studies related to asset management practices or implementation of an asset management system, in the power systems sector.

2) Purpose of this document

The purpose of the IEC 63223 series is to create power network sector-specific International Standards for the ISO AM Standards: ISO 55000 series.

The purpose of this document, IEC 63223-1, is to provide an overview of the scope of the whole IEC 63223 series, with principles and terminologies.

3) Audiences

¹ Numbers in square brackets refer to the Bibliography.

² To be published in a separate standard.