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Electric energy storage (EES) systems - Part 4-2: Guidance on environmental issues - Assessment of the environmental impact of battery failure in an electrochemical based storage system

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 62933-4-2

April 2025

ICS 13.020.30; 27.010

English Version

**Electric energy storage (EES) systems - Part 4-2: Guidance on
environmental issues - Assessment of the environmental impact
of battery failure in an electrochemical based storage system
(IEC 62933-4-2:2025)**

Systèmes de stockage de l'énergie électrique (EES) - Partie
4-2: Recommandations relatives aux problèmes
environnementaux - Évaluation de l'impact environnemental
d'une défaillance de batterie dans un système de stockage
d'énergie électrochimique
(IEC 62933-4-2:2025)

Elektrische Energiespeichersysteme (EES) - Bewertung der
Umweltauswirkungen eines Batterieausfalls in einem
elektrochemischen Speichersystem
(IEC 62933-4-2:2025)

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 62933-4-2:2025 (E)**European foreword**

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electric energy storage (EES) systems –
Part 4-2: Guidance on environmental issues – Assessment of the environmental
impact of battery failure in an electrochemical based storage system**

**Systèmes de stockage de l'énergie électrique (EES) –
Partie 4-2: Recommandations relatives aux problèmes environnementaux –
Évaluation de l'impact environnemental d'une défaillance de batterie dans un
système de stockage d'énergie électrochimique**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL ENERGY STORAGE (EES) SYSTEMS –**Part 4-2: Guidance on environmental issues –
Assessment of the environmental impact of battery
failure in an electrochemical based storage system**

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IEC 62933-4-2 has been prepared by IEC technical committee 120: Electrical Energy Storage (EES) Systems. It is an International Standard.

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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.

A list of all parts in the IEC 62933 series, published under the general title *Electrical energy storage (EES) systems*, can be found on the IEC website.

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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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ELECTRICAL ENERGY STORAGE (EES) SYSTEMS –

Part 4-2: Guidance on environmental issues – Assessment of the environmental impact of battery failure in an electrochemical based storage system

1 Scope

This part of IEC 62933 defines the requirements for evaluating and reporting the negative impact on the environment caused by the failure of a cell, flow cell, battery or flow battery in the accumulation subsystem of a battery energy storage system (BESS).

The batteries within this scope used in a BESS are classified according to the type of their electrolyte. These electrolyte types are aqueous, non-aqueous or solid.

The environmental impacts directly caused by the failure of other components of the BESS are not within the scope of this document.

2 Normative references

There are no normative references in this document.

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