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Electrical energy storage (EES) systems –
Part 3-200: Planning and performance assessment of electrical energy storage systems – Design principles of electrochemical based EES systems

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IEC TR 62933-3-200 has been prepared by IEC technical committee TC 120: Electrical Energy Storage (EES) Systems. It is a Technical Report.

The text of this Technical Report is based on the following documents:

Draft	Report on voting
120/381/DTR	120/399/RVDTR

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

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

- reconfirmed,
- withdrawn, or
- revised.

ELECTRICAL ENERGY STORAGE (EES) SYSTEMS –

Part 3-200: Planning and performance assessment of electrical energy storage systems – Design principles of electrochemical based EES systems

1 Scope

This part of IEC 62933, which is a Technical Report, presents an overview and design cases of electrochemical based EES systems in power generation side, transmission and distribution side, and customer side. Furthermore, design principles for electrochemical based EES systems such as sizing and selection of subsystem, integration scheme, site and layout, and system safety measures are provided.

2 Normative references

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

IEC 62933-1:2024, *Electrical energy storage (EES) systems – Part 1: Vocabulary*

IEC TS 62933-3-2:2023, *Electrical energy storage (EES) systems – Part 3-2: Planning and performance assessment of electrical energy storage systems – Additional requirements for power intensive and renewable energy sources integration related applications*

IEC TS 62933-3-3, *Electrical energy storage (EES) systems – Part 3-3: Planning and performance assessment of electrical energy storage systems – Additional requirements for energy intensive and backup power applications*