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# HVDC-transmission – Anvendt terminologi

High-voltage direct current (HVDC) transmission – Vocabulary

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## EUROPÄISCHE NORM

July 2019

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Supersedes EN 60633:1999

English Version

## High-voltage direct current (HVDC) transmission - Vocabulary (IEC 60633:2019)

Transport d'énergie en courant continu à haute tension  
(CCHT) - Vocabulaire  
(IEC 60633:2019)

Hochspannungsgleichstrom-Übertragung (HGÜ) - Begriffe  
(IEC 60633:2019)

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The text of document 22F/480/CDV, future edition 3 of IEC 60633, prepared by SC 22F "Power electronics for electrical transmission and distribution systems" of IEC/TC 22 "Power electronic systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60633:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-02-28
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IEC 60027 (series)	NOTE	Harmonized as EN 60027 (series)
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IEC 60146-1-1	NOTE	Harmonized as EN 60146-1-1
IEC 60146-1-3:1991	NOTE	Harmonized as EN 60146-1-3:1993 (not modified)
IEC 60700-2	NOTE	Harmonized as EN 60700-2
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# NORME INTERNATIONALE

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**High-voltage direct current (HVDC) transmission – Vocabulary**

**Transport d'énergie en courant continu à haute tension (CCHT) – Vocabulaire**



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### HIGH-VOLTAGE DIRECT CURRENT (HVDC) TRANSMISSION – VOCABULARY

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International Standard IEC 60633 has been prepared by subcommittee 22F: Power electronics for electrical transmission and distribution systems, of IEC technical committee 22: Power electronic systems and equipment.

This third edition cancels and replaces the second edition published in 1998, Amendment 1:2009 and Amendment 2:2015. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) 40 terms and definitions have been amended and 31 new terms and definitions have been added mainly on converter units and valves, converter operating conditions, HVDC systems and substations and HVDC substation equipment;
- b) a new Figure 13 on capacitor commutated converter configurations has been added.

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

CDV	Report on voting
22F/480/CDV	22F/491A/RVC

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

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## HIGH-VOLTAGE DIRECT CURRENT (HVDC) TRANSMISSION – VOCABULARY

### 1 Scope

This document defines terms for high-voltage direct current (HVDC) power transmission systems and for HVDC substations using electronic power converters for the conversion from AC to DC or vice versa.

This document is applicable to HVDC substations with line commutated converters, most commonly based on three-phase bridge (double way) connections (see Figure 2) in which unidirectional electronic valves, for example semiconductor valves, are used. For the thyristor valves, only the most important definitions are included in this document. A more comprehensive list of HVDC valve terminology is given in IEC 60700-2.

### 2 Normative references

There are no normative references in this document.