

Overhead electrical lines exceeding AC 1 kV - Part 2-16:
National Normative Aspects (NNA) for NORWAY (based
on EN 50341-1:2012)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 50341-2-16:2016 sisaldab Euroopa standardi EN 50341-2-16:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 50341-2-16:2016 consists of the English text of the European standard EN 50341-2-16:2016.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

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English Version

Overhead electrical lines exceeding AC 1 kV - Part 2-16:
National Normative Aspects (NNA) for NORWAY (based on EN
50341-1:2012)

Lignes électriques aériennes dépassant 1 kV en courant
alternatif - Partie 2-16 : Aspects Normatifs Nationaux pour
la NORVEGE (Basé sur l'EN 50341-1:2012)

This European Standard was approved by CENELEC on 2016-09-13. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

- 1 The Norwegian National Committee (NC) is identified by the following address:

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Mustads vei 1, NO-0283 Oslo
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- 2 The Norwegian NC has prepared this Part 2-16 of EN 50341-1:2012, listing the Norwegian national normative aspects, under its sole responsibility, and duly passed it through the CENELEC and CLC/TC 11 procedures.

NOTE The Norwegian NC also takes sole responsibility for the technically correct coordination of this EN 50341-2-16 with EN 50341-1:2012. It has performed the necessary checks in the frame of quality assurance/control. It is noted however that this quality assurance/control has been made in the framework of the general responsibility of a standards committee under the national laws/regulations.

- 3 This EN 50341-2-16 is normative in Norway and informative for other countries.
- 4 This EN 50341-2-16 has to be read in conjunction with EN 50341-1:2012, hereinafter referred to as Part 1. All clause numbers used in this Part 2-16 correspond to those of Part 1.

Specific subclauses, which are prefixed "NO", are to be read as amendments to the relevant text in Part 1. Any necessary clarification regarding the application of Part 2-16 in conjunction with Part 1 shall be referred to the Norwegian NC who will, in cooperation with CLC/TC 11 clarify the requirements.

When no reference is made in Part 2-16 to a specific subclause, then Part 1 applies.

- 5 In the case of "boxed values" defined in Part 1, amended values (if any) which are defined in Part 2-16 shall be taken into account in Norway.

However any "boxed values", whether in Part 1 or Part 2-16, shall not be amended in the direction of greater risk in a Project Specification.

- 6 The national Norwegian standards/regulations related to overhead electrical lines exceeding 1 kV (AC) are identified in 2.1/NO1.

NOTE All national standards referred to in this Part 2-16 will be replaced by the relevant European Standards as soon as they become available and are declared by the Norwegian NC to be applicable and thus reported to the secretary of CLC/TC 11.

Clause National regulation**1** **Scope**

(snc)

This Part 2-16 is applicable for new permanent overhead lines only and generally not for existing lines in Norway. If some planning/design or execution work on existing lines in Norway has to be performed, the degree of application of this Standard shall be agreed upon by the parties concerned and the authorities.

2 **Normative references, definitions and symbols****2.1** **NO.1 Normative references**

(A-dev)

These references shall be added to the list:

Act No. 4 of 24 May 1929 of Supervision of Electrical Installations and Electrical Equipment Regulations for Electrical Installations – system for generating, transmission and distribution.

The Norwegian Regulations FEF 2006. Guidelines to the Norwegian Regulations FEF 2006.

If newer acts and regulations are issued, the ones mentioned above shall be replaced with the valid version.

3 **NO.1 Basis of design**

(snc)

Unless mentioned below, the clauses 3.1 - 3.7.4 may be considered as informative.

3.2 **Requirements of overhead lines****3.2.1** **NO.1 Basic requirements**

(snc)

Generally minimum 50 year return periods shall be applied as basic loads.

4 **Actions on lines****4.1** **NO.1 Introduction**

(snc)

May be considered as informative.

(snc) **NO.2 Types of load**

Permanent loads include self-weight of supports, insulator sets, other fixed equipment and of the conductors from the adjacent spans. Aircraft warning spheres and similar elements are also to be considered as permanent loads.

Climatic loads include wind, ice and combined wind and ice loads on conductors, insulator sets, lattice towers and poles.