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Standards

Irish Standard  
S.R. CLC/TR 50422:2013

# Guide for the application of the European Standard EN 50160

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## S.R. CLC/TR 50422:2013

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English version

**Guide for the application of the European Standard EN 50160**

Guide d'application de la Norme  
Européenne EN 50160

Leitfaden zur Anwendung der  
Europäischen Norm EN 50160

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**CENELEC**

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

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## **Foreword**

This document (CLC/TR 50422:2013) has been prepared by CLC/TC 8X "System aspects of electrical energy supply".

This Technical Report, prepared by TF 8 of CLC/TC 8X/WG 1 "Physical characteristics of electrical energy", is based on CLC/TR 50422:2003 (first edition) [4] and the development having taken place since.

This document supersedes CLC/TR 50422:2003 + corrigendum June 2005.

CLC/TR 50422:2013 includes the following significant technical changes with respect to CLC/TR 50422:2003: this second edition has been extended, with regard to

- the inclusion of high voltage (HV) supply in the Standard,
- the relation between EN 50160 and other standards,
- the choice of power quality (PQ) values and related probabilities,
- actual trends in network use, which might lead to further development of the Standard.

For the purpose of this Technical Report, "the Standard" refers to EN 50160:2010 [8]. Likewise, "the Guide" refers to this Application Guide, CLC/TR 50422:2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

## **Introduction**

By its very nature, a standard has to be concise and cannot give a comprehensive background of the subject being dealt with. It was accordingly decided to prepare a guide providing additional information and clarification of the Standard, whose first edition was published in 1994. The recent Application Guide represents the 2<sup>nd</sup> edition of such a guide, which considers the development of the Standard having taken place since the publication of the 1<sup>st</sup> edition..



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