

Standardization and the liberalization of the energy market

ICS 27.010

National foreword

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Cross-references

The British Standards which implement European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

Summary of pages

This document comprises a front cover, an inside front cover, the CLC/TR title page, pages 2 to 14, an inside back cover and a back cover.

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English version

**Standardization and the liberalization
of the energy market**

This Technical Report was approved by CENELEC on 2002-09-24.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

By decision of the CENELEC Technical Board the recommendations made by CLC/BTWG 110-1 on the liberalization of the energy market were given the status of a Technical Report on 2002-09-24.

As these recommendations were to be considered of interest for CENELEC and IEC as well, a similar report was presented to the IEC/SMB meeting end of October 2002.

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Executive summary

Liberalization of the energy market is an ongoing process, changing old interfaces between the various parties and creating new entities and hence new interfaces. In view of the increasing complexity in the various relationships standardization has the potential to facilitate and rationalize the interfaces.

This report aims to define the existing major interactions and to identify aspects suitable for standardization in the near future.

It is anticipated that the liberalization process will continue to develop and therefore it is recommended to establish a structure within IEC which will follow the ongoing process and take the necessary initiatives to create and maintain a system approach covering the whole market from production at various levels down to the utilization at the customer level.

Although a major part of the standards are in place, some new fields need to be considered. It is also felt necessary by the working group to improve the co-ordination between the committees involved and ensure that all necessary system aspects are covered. In addition to the recommendations to review or complement the present portfolio of standards a key recommendation is to convert the present TC 8 into a system committee for electric energy supply system.

It is also recommended that CENELEC should set up a mirror committee to IEC/TC 8 to follow and complement the IEC work in areas where there is a particular European need. Two of these areas are identified in the report.

1 Background

1.1 Situation in Europe

In recent years, the electrical energy sector has seen substantial changes, especially in Europe due to several legislative and policy initiatives from EU, such as the Directive “*concerning common rules for the internal market in electricity*”, published in 1996. Furthermore, other regions of the world are facing similar changes, in order to attract foreign investors or to create competition in their national markets.

As a result of this evolving situation, changes in the business definition, new operators and consequently, new interfaces have arisen.

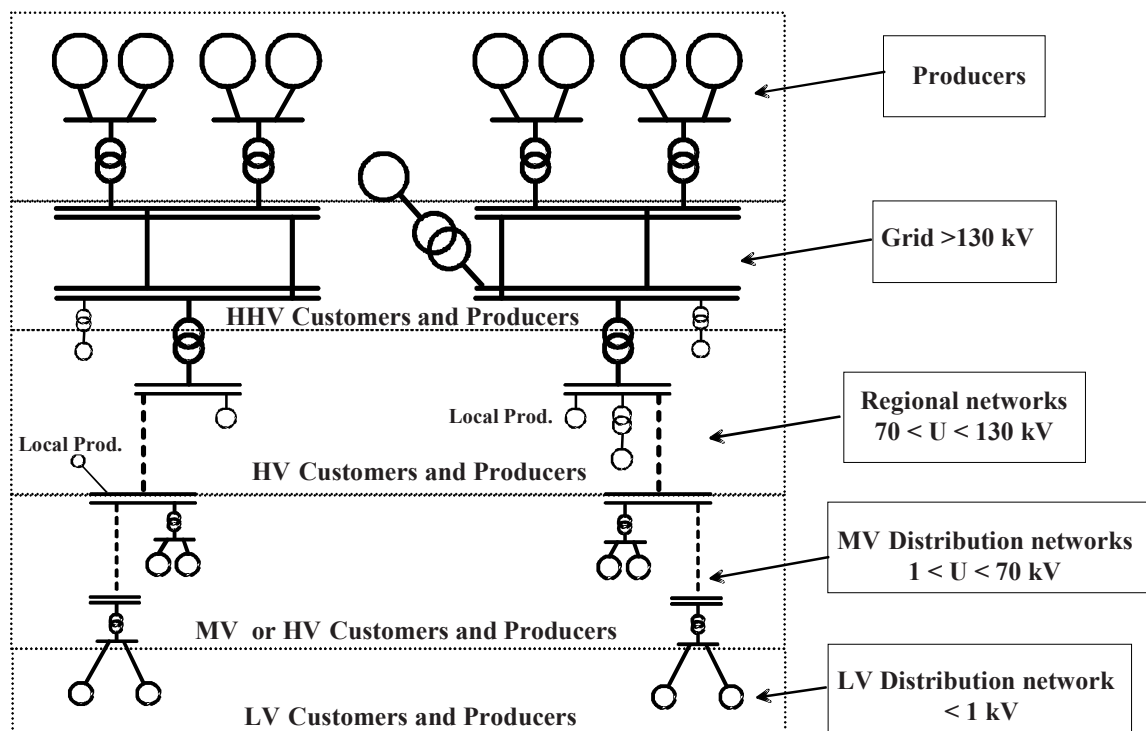


Figure 1 – Increasing complexity and relations between actors in the electricity supply

Grid and network operators (transmission and distribution) provide services as monopolies, under the responsibility of regulators appointed by authorities. In the liberalized market generation and supply of electric energy will operate in an open market. In this market, rules for access to network in order to provide proper operation of the electrical system and equitable treatment for all parties are of high priority. In addition, taking into account the increasing competition amongst electrical companies, new ways to address customers and new services are offered. The increasing possibility for consumers to choose from different electricity suppliers, raises practical questions such as energy-metering and transparency of billing.