

# norm

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Guarantees of Origin related to energy -  
Guarantees of Origin for Electricity

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Voorbeeld  
Preview

September 2011

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English version

## Guarantees of Origin related to energy - Guarantees of Origin for Electricity

Garanties de l'origine en matière d'énergie - Garantie de  
l'origine de l'électricité

Herkunftsnachweise bezüglich Energie -  
Herkunftsnachweise für Elektrizität

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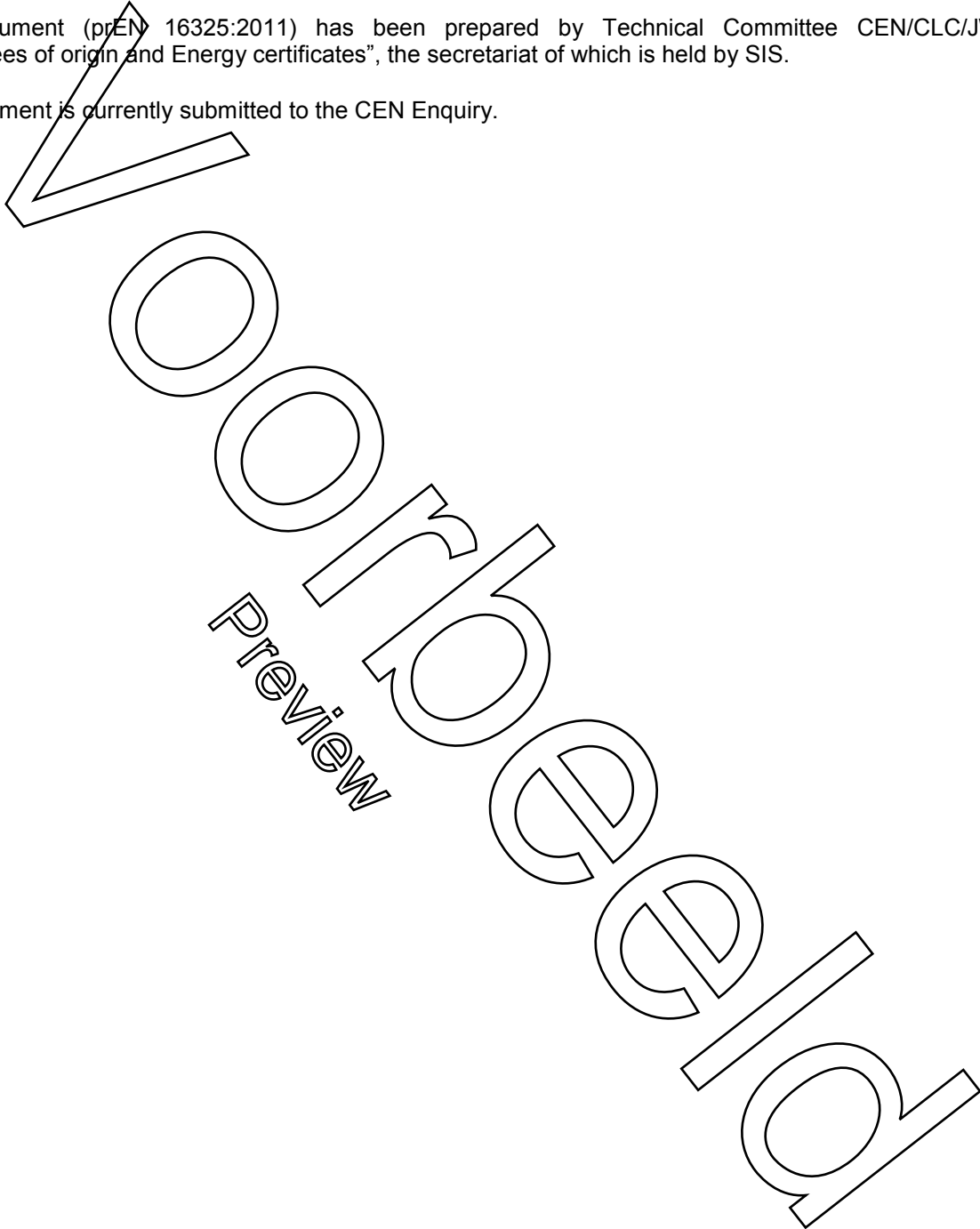
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Preview  
 prEN 16325:2011

## Foreword

This document (prEN 16325:2011) has been prepared by Technical Committee CEN/CLC/JWG 2 “Guarantees of origin and Energy certificates”, the secretariat of which is held by SIS.

This document is currently submitted to the CEN Enquiry.



## Introduction

The objective for this European Standard is that it should contain standardisation of Guarantees of Origin in line with the relevant Directives and existing voluntary schemes with the aim to create a standardised GO that can be used for mainly disclosure/labelling and trading.

There is an increasing demand from the end customers' side regarding reliable accounting of the origin of energy production. There is also an obligation for electricity suppliers to provide reliable disclosure information to end customers. A standardised system for GOs can fulfil these requirements.

Standardisation of Guarantees of Origin will create a tool for fulfilling the requirements in the revised Renewable Energy Directive, the Electricity Market Directive and the Cogeneration Directive and to create a basis for further development of certification regarding the original electricity production. In this way a harmonised way to prove the origin of the electricity produced will be developed. These GOs can be used for trading and/or for disclosure/labelling of electricity. All member states shall recognise the GOs issued by other member states. Further, the system must be fraud-resistant and avoid double-counting. Therefore a European Standard for GOs for all member states is important. The content of the standard can, after necessary modifications, for example be applied to heating, cooling, and gas (including biogas). These modifications will not be included in this standard.

The elaboration and publication of European Standards will allow certification bodies to develop their activities on consensual and recognized practices and this will increase the credibility of the certificates they deliver.

### Experiences of the AIB, Description of existing voluntary system (EECS)

#### *The EECS Rules*

The European Energy Certificate System (EECS) is a commercially funded, integrated European framework for issuing, holding, transferring and otherwise processing electronic records (EECS Certificates) certifying, in relation to specific quantities of output from power plants, attributes of its source and/or the method and quality of its production. The number of certificates issued to a power plant during a period will be directly proportional to the electricity produced by it during that period. These certificates guarantee the source of that electricity.

EECS is governed by rules (the EECS Rules) which secure, in a manner consistent with European Community law and relevant national laws, that systems operating within the EECS framework are reliable, secure and inter-operable. The implementation, under the EECS Rules, of harmonised standards for issuing and processing EECS Certificates enables the owners of EECS Certificates to transfer them to other account holders at both the domestic and international level.

The EECS Rules set out the obligations of AIB members in connection with their membership. The AIB governs the EECS Rules, its members conducting reviews of each other's operations. Members' are responsible within set geographic "domains" for overseeing their customers' compliance with these rules. The EECS Rules harmonise the creation, maintenance, transfer, cancellation and other processing of EECS Certificates; setting requirements for member participation.

EECS Certificates may be eligible as Guarantees of Origin issued pursuant to European Community legislation as implemented by member states; or in connection with other legislative certification schemes or under other, entirely voluntary, arrangements. To become a member of an individual EECS Scheme, the relevant provisions applicable in that member's domain must satisfy the requirements of the EECS Rules, including legislative and administrative arrangements for the issue of such certificates. Each member produces a domain protocol, which legislative provisions to ensure that the EECS Rules are satisfied.

Account holders are not bound by the EECS Rules, but by the legislation to their domain.

**prEN 16325:2011 (E)***Registration of production devices*

EECS Certificates can only be issued to the owners of power plants that have successfully registered within a domain. To apply for registration under EECS, the owner of the power plant must provide information about themselves and the power plant, including the technology and energy sources, commissioning dates and capacities, details of any public support that has been received, details of the arrangements for measuring energy sources and produced electricity, including any production auxiliaries, pumping stations and on-site demand. Registration requires the power plant to comply with both the law and with EECS, members being permitted to conduct physical inspections where necessary.

*Issuing of EECS Certificates*

Once a power plant has been registered, then it can receive EECS Certificates. The produced electricity, along with any fuels used, may only be measured by an approved body. The EECS Certificates may only be traded for electricity supplied to the grid, nett of electricity used by production Auxiliaries or for pumping water back to the header lake in pumped storage facilities. Certificates for electricity used by production auxiliaries, pumping and on-site demand are automatically cancelled upon issue.

*Use of EECS Certificates*

Certification of the quality of electricity and the method of its production provides an efficient mechanism for accounting for: the quality and method of production, as supplied to consumers; progress towards targets for the use of certain technologies; and production and/or consumption for stimulating investment in certain categories of plant. Certification enables specific types of electricity to be given a value; which can be traded separate to the physical electricity. For this to work effectively, producers, traders, suppliers, consumers, NGOs and governments must be sure that the certificates provide reliable evidence of the qualities to which they relate. EECS ensures that users have confidence in the EECS certificates issued and processed by AIB members.

*Life cycle*

The life cycle of an EECS Certificate encompasses: issuance, transfer and cancellation. EECS Certificates are issued on registries operated by AIB members for electricity by power plant registered in connection with national legislation or otherwise under EECS. They may be transferred from the producer's account to that of a trader and so on; either within the country of origin or to other EECS registries across Europe. EECS certificate may be cancelled and removed from circulation when the value of the certificate is realised, and may be used to adjust the residual mix for that domain. EECS Certificate may be cancelled by consumers in recognition of the qualities they represent; to qualify for financial incentives from government; or to discharge contractual or legal obligations. EECS Certificates may also be withdrawn from circulation where they have been issued in error; or expired (automatically cancelled), if they remain transferrable after a set period.



## 1 Scope

This European Standard specifies requirements for Guarantees of Origin of electricity from all energy sources. This standard will establish the relevant terminology and definitions, requirements for registration, issuing, transferring and Cancellation in line with the Directives RES, Cogeneration and electricity market. This standard will also cover measuring methods and auditing procedures.

These Guarantees of Origin may be traded and/or used for Disclosure/Labelling.

The content of this standard can, after necessary modifications, for example be applied to heating, cooling, and gas (including biogas). These modifications are not part of this standard.

This European Standard will not establish any sustainability criteria, this work is done elsewhere.

This standard is suitable for certification purposes.

## 2 Normative references

The following referenced documents are indispensable for the application 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.

prEN 16247-1, *Energy audits — Part 1. General requirements*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **Account Holder**

person or organisation in respect of whom a Transferables Account or a Cancellation Account is maintained on a Registration Database

### 3.2

#### **Affiliate**

shall have the meaning assigned by the expression “related undertaking” by the IEM Directive

### 3.3

#### **Alteration**

correction by the Competent Body of any data of a GO in case that an error is introduced upon issuing of the GO or in the course of the processing of the GO

### 3.4

#### **Auxiliaries**

any item of the plant and/or apparatus not directly a part of an EGI but required for the functional operation of that EGI

### 3.5

#### **Approved Measurement Body**

person or organisation that is responsible for collecting and determining (on behalf of the Registrant) measured values of the Import and Export Meters of an EGI, and which has been approved by a Competent Body to measure Electrical Energy

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