

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

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English version

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

Garanties d'origine liées à l'énergie - Garanties d'Origine de
l'électricité

Herkunftsnachweise bezüglich Energie -
Herkunftsnachweise für Elektrizität

This European Standard was approved by CEN on 28 December 2012.

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Contents

Page

Foreword.....	4
0 Introduction.....	5
0.1 General.....	5
0.2 Experiences of the Association of Issuing Bodies (AIB), Description of existing voluntary system (EECS).....	5
0.2.1 Association of Issuing Bodies (AIB)	5
0.2.2 The EECS Rules	5
0.2.3 Registration of production devices	6
0.2.4 Issuing of EECS Certificates.....	6
0.2.5 Use of EECS Certificates	6
0.2.6 Life cycle	6
1 Scope.....	7
2 Normative references.....	7
3 Terms and definitions	7
4 Main objectives	12
5 Registration of Competent Bodies and their agents	13
5.1 Appointing authority for Competent Bodies.....	13
5.2 Characteristics of Competent Bodies	13
5.2.1 General	13
5.2.2 Responsibilities.....	13
5.2.3 Discretionary powers.....	14
5.2.4 Limitations of Competent Bodies owning GOs	15
5.2.5 Confidentiality	15
5.3 Criteria for qualification of Competent Bodies	15
5.4 Types of agent.....	15
5.5 Criteria for qualification of agents.....	16
5.6 Obligations of Competent Bodies	16
5.6.1 General	16
5.6.2 Verification	16
6 Registration of EGIs and Account Holders	17
6.1 Application procedure for EGIs	17
6.1.1 General	17
6.1.2 Application information	17
6.1.3 Meters	18
6.2 Application procedure for Account Holders	18
6.3 Obligations of Registrants.....	18
6.4 Revision of Registration Databases	18
7 Issuing and content of a GO	19
7.1 Format of the GO.....	19
7.2 The Issuing process.....	20
7.3 Declaration of Consumption and Calculation of Output	20
7.3.1 General	20
7.3.2 Consumption Declaration	21
7.3.3 Calculation of Output.....	21
7.4 CO ₂ emissions and nuclear waste.....	21
7.5 Special provisions for High-Efficiency Cogeneration Electrical Energy	22
7.5.1 Amount of High-Efficiency Cogeneration Electrical Energy Generation produced by an EGI	22

7.5.2	GO Issued for Electrical Energy which has been found to be High-Efficiency Cogeneration Electrical Energy	22
8	Transferring of GOs	22
8.1	General	22
8.2	The Transfer process	22
8.3	Import/export from Registration Databases	23
8.3.1	Receipt of request	23
8.3.2	Rejection of request	23
8.3.3	Restrictions of exports	24
8.3.4	Restrictions of imports	24
9	Correction of errors	24
9.1.1	Errors during issuing	24
9.1.2	Issuing during transferring	24
10	End of the life of a GO	24
10.1	General	24
10.2	Cancellation	25
10.2.1	Cancellation procedure	25
10.2.2	Requesting and Producing a Cancellation Statement	26
10.3	Withdrawal	26
10.4	Expiry	27
11	Measurement and calculation methods	27
11.1	Metering	27
11.1.1	General metering principle	27
11.1.2	Calculation of Nett Electrical Energy	27
11.1.3	Relevant perimeter	30
12	Auditing	30
12.1	Assessment of the National GO Scheme	30
12.2	Auditing of EGIs	30
12.3	Operational practice	31
Annex A	(normative) Fuel (or heat source) codes	32
Annex B	(normative) Technology codes	36
Annex C	(normative) Coding structures	38
C.1	Introduction	38
C.2	Coding of Registration Databases	38
C.3	Coding of certificates	38
C.4	Coding of Electricity Generation Installations	39
C.5	Coding of Account Holder Account IDs	40
C.6	Coding of Technologies	41
Annex D	(normative) Geographical coordinates	42
Annex E	(normative) Cogeneration GO codes — Uses of Heat	44
Annex F	(normative) Relevant perimeter	45
F.1	Hydraulic continuity principle	45
F.1.1	General	45
F.1.2	Extended hydraulic continuity principle	45
F.2	Smoothing of Electricity generation	46
F.3	Electricity storage and conversion	46
F.4	Alternative measures for a hydraulic plant	46
F.4.1	Certain flow	46
F.4.2	Non-energy-based hydraulic systems	47
Bibliography	48

Foreword

This document (EN 16325:2013) has been prepared by Technical Committee CEN/CENELEC/TC JWG 2 “Guarantees of origin and Energy certificates”, the secretariat of which is held by SIS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2013, and conflicting national standards shall be withdrawn at the latest by August 2013.

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

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

0 Introduction

0.1 General

The standard was developed and approved before the Cogeneration Directive (2004/8/EC) was replaced by the Energy Efficiency directive (2012/27/EU).

The objective for this European Standard is that it should contain standardisation of Guarantees of Origin (GO) in line with the relevant Directives and existing voluntary schemes with the aim to create a standardised transferable GO that can be used for mainly disclosure and also supporting labelling. A GO is an instrument for proving production of energy in a specific source of production.

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. The Renewable Energy Directive and Cogeneration Directive regulates that the member states shall generally recognise the GOs issued by other member states. Further, the system should 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 recognised practices and this will increase the credibility of the certificates they deliver.

0.2 Experiences of the Association of Issuing Bodies (AIB), Description of existing voluntary system (EECS)

0.2.1 Association of Issuing Bodies (AIB)

The AIB has as its purpose the development, use and promotion of a standardised system based on structures and procedures in order to ensure the reliable operation of international certificate schemes which satisfy the criteria of objectivity, non-discrimination, transparency and costs effectiveness in order to facilitate the international exchange of certificates.

0.2.2 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 are intended to secure, in a manner that is 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 should 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 ensure that the EECS Rules are satisfied.

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

0.2.3 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 should 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 with members being permitted to conduct physical inspections where necessary.

0.2.4 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 and pumping are automatically cancelled upon issue.

0.2.5 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 should 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.

0.2.6 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 RES, Cogeneration and IEM Directives. 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, for example, be applied, after necessary modifications, 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 documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 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

stakeholder 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

item of the plant and/or apparatus not directly part of an electricity generation process but required for the functional operation of the 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

3.6

Cancel

to use a GO for purposes of Disclosure and prevent it from being transferred to another account