



EECS RES-E GO Domain Protocol

**for
Wallonia, Belgium**

Prepared by CWaPE

Version 1.1

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A INTRODUCTION AND PURPOSE

A1 Introduction

A1.1 Certification of the quality and method of energy output provides an efficient mechanism for accounting for the quality of energy supplied to consumers and its method of production. It enables a value to be accorded to specific types of energy output and traded separately from the energy itself.

A1.2 For a system of energy certification to discharge these functions effectively, users of the Certificates – producers, traders, suppliers, consumers, NGO's and governments – must be satisfied that the Certificates provide reliable evidence of the qualities to which they relate. The European Energy Certification System (EECS) framework is designed to give all such users confidence in the Certificates issued and processed under EECS.

A1.3 The life cycle of a EECS GO Certificate encompasses three phases: issuance, transfer and redemption:

(a) Electronic Certificates are issued on registries in respect of the energy output of Production Devices registered specifically for the purposes of EECS GO.

(b) These Certificates may be transferred from the account of the producer to that of a trader, and so on; either within the country of origin or to other registries in the EECS network across Europe.

(c) Redemption is the mechanism whereby the Certificate is removed from circulation. Redemption occurs at the point at which the value of the Certificate is realised. Examples of circumstances in which the Redemption of a Certificate by a supplier may occur include: recognition by a consumer of the qualities of delivered electricity it represents; in connection with the award by government of a financial incentive, such as a tax rebate; or by way of discharge of a contractual or legal obligation.

A1.4 Together with the Standard Terms and Conditions, this Domain Protocol establishes the EECS Scheme for the Domain defined in B1.2 below.

A2 Purpose

A2.1 This Domain Protocol sets out the procedures, rights and obligations for EECS GO as used within this Domain.

A2.2 This Domain Protocol is made binding between the Scheme Participant and CWAPE by agreement in the form of the Standard Terms and Conditions. The duties under this Domain Protocol are owed specifically between CWAPE and the Scheme Participant.

A2.3 The objective is to ensure quality in the robustness and transparency in facilitating EECS GO for all Scheme Participants.

A2.4 This document also contains explanatory text to help Scheme Participants. This text is for information only and is identified by having a shaded background.

A2.5 Important contact information is provided in Annex 1.

A3 Matter of Attention

A3.1 This Domain Protocol should be seen as a temporary document. Indeed CWAPE has argued and maintains that separate guarantees of origin and support certificates may be issued at the same time for the same output of electricity without jeopardising the integrity and the purpose of the AIB. Since the PRO currently does not allow this, CWAPE has agreed to momentarily implement the current Domain Protocol while introducing the necessary changes in order to both support and guarantee the origin of renewable electricity in accordance with Directive 2001/77/EC and 2004/8/EC.

B SCOPE AND RESPONSIBILITY

B1 This Domain Protocol

- B1.1 This Domain Protocol specifies the procedures for the issue, and use as evidence of transfer of ownership and eventually removal of EECS GO Certificates held within the EECS Registration Database of CWAPE and may only be amended or added to by CWAPE in accordance with section J below.
- B1.2 This Domain Protocol for Wallonia, Belgium applies to the Walloon Region of Belgium, in conjunction with EECS GO Certificates held within the EECS Registration Database.
- B1.3 CWAPE will not issue EECS certificates which are associated with energy for which any other certificate will be issued until such time as this is permitted by the PRO.

B2 Responsibility

- B2.1 CWAPE is responsible for the operation of the EECS GO system for this Domain.
- B2.2 Some of the functions facilitating system operation may be contracted out to approved agents of CWAPE.
- B2.3 The Central Monitoring Office (CMO) is the primary role in the operation of an EECS Scheme in a Domain. The function of the CMO is to administer and maintain the database of qualifying Production Devices and EECS GO Certificates for that Domain. In Wallonia, Belgium this function is performed by CWAPE. The charges for accounts and transactions will be shown on the website www.cwape.be should they ever be required.
- B2.4 CWAPE is responsible for the authorisation of Certificates.

C DEFINITIONS

C1 Enabling Legislation

C1.1 This Domain Protocol complements the terms of the GO Scheme as set out in

- (a) *Décret du Conseil Régional Wallon du 12 avril 2001 relatif à l'organisation du marché régional de l'électricité, modifiés par les décrets des 19 décembre 2002, 18 décembre 2003, 3 février 2005 et 17 septembre 2007;*
- (b) *Arrêté du Gouvernement wallon du 30 novembre 2006 relatif à la promotion de l'électricité verte ;*
- (c) *Arrêté Ministériel du 13 décembre 2006 établissant la méthode de détermination des sources d'énergie primaire utilisées pour produire de l'électricité ;*
- (d) *Annexe à l'Arrêté Ministériel du 12 mars 2007 : Procédures et code de comptage de l'électricité produite à partir de sources d'énergie renouvelables et/ou de cogénération en région wallonne, thereafter referred to as the Metering Code ;*

and other relevant laws and bylaws.

C1.2 These laws implement Directive 2003/54/EC concerning common rules for the internal market in electricity, Directive 2001/77/EC on the promotion of electricity produced from renewable energy sources in the internal electricity market and Directive 2004/8/EC on the promotion of cogeneration based on a useful heat demand in the internal energy market.

C2 This document

C2.1 Unless the context otherwise requires or there is express provision to the contrary, all terms in this Domain Protocol shall have the meanings ascribed to them in section B of the Principles and Rules of Operation of the Association of Issuing Bodies (AIB) for The European Energy Certification System, which can be found at <http://www.aib-net.org>

TERM	MEANING
CMO	CWAPE being the person appointed to administer the operation of the EECS Registration Database for the purposes of EECS GO within Wallonia, Belgium;
Competent Authority	in relation to the exercise or discharge of any legislative, governmental, regulatory or administrative function, the body duly authorised under the laws and regulations of Wallonia, Belgium to exercise or discharge that function;
Green Certificate	Walloon support certificate designed for provide financial support to electricity generated from renewables and/or cogeneration in function of the environmental performance of this generation when compared to a reference (see details in Annex 7 - Walloon production support scheme in 2007). It carries no element of Disclosure.
Disclosure	The process whereby a supplier provides its final customers information on the energy source, conversion efficiency or other quality of the energy supplied to them, like the requirement of article 6 of Directive 2003/54/EC.
EECS GO Certificate	An EECS Certificate Issued under an EECS CHP-GO scheme and/or under an EECS RES-E GO scheme in accordance with the enabling legislation.
Guarantee of Origin (GO)	Guarantee of Origin (GO) shall have the meaning assigned to it by the Directive (2001-77-EC), especially its articles 4.1 and 5, and the Directive (2004-8-EC), especially its articles 5 and 7.1.
Net Electrical Energy Generation	the gross electricity production of a Production Device as evidenced by measured values collected and determined by an Authorised Body (or where appropriate an Approved Measurement Body) with reference to its Import and Export Meters (adjusted by meter amendments and the outcome of any disputes) minus the demand of any generating auxiliaries and minus losses in the main generator transformers on the site of the Production Device;

Scheme Participant	an Account Holder or a Registrant of a Production Device on the EECS Registration Database for the purposes of EECS GO within Wallonia, Belgium;
Walloon GO Certificate	Guarantee of Origin for renewable and/or cogeneration electricity production according to the Walloon Act of 12 th April 2001 regarding electricity and implementing Directives 2001-77-EC, 2003-54-EC and 2004-8-EC. It is locally known as a "label of guarantee of origin".

D GUARANTEES OF ORIGIN (RES-GO)

D1 Scheme Definition

D1.1 **Directive 2001/77/EC of the European Parliament and of the Council** requires the use of Guarantees of Origin to enable Member States to accurately and reliably guarantee the origin of electricity from renewable energy sources according to objective, transparent and non-discriminatory criteria; and to enable producers of electricity from renewable energy sources to demonstrate this. Such guarantees must be mutually recognised by Member States.

D1.2 CWAPE has been appointed to act as the registration database administrator for RES-E GO and CHP-GO Certificates in Wallonia, Belgium.

D2 Supplementary Definitions

D2.1 This Domain Protocol supplements the terms as set out in C1 and C2.

D3 Qualifying Criteria

D3.1 The qualifying criteria for Production Devices are:

- (a) the Production Device is capable of generating electricity;
- (b) the metering arrangements for the electrical inputs and outputs of the Production Device (including electrical energy consumed in storing energy for use by that Production Device) satisfy the legislative and administrative requirements applicable in Wallonia, Belgium (including the requirements of this Domain Protocol);
- (c) the Production Device satisfies the legislative and administrative requirements applicable in Wallonia, Belgium (including the requirements of this Domain Protocol);

D3.2 The qualifying criteria for Issue of EECS GO Certificates are:

- (a) electricity has been found to be generated from the energy source claimed by the Registrant of the Originating Production Device; and
- (b) the Production Device is registered for the purposes of EECS GO Certificates in the EECS Registration Database; and
- (c) the measured value of electrical energy has been collected and determined by an Authorised Measurement Body listed in Annex 1 and/or on the website www.cwape.be and fulfils the conditions set in D3.3 and/or D3.4; and
- (d) the electrical energy has neither been sold nor consumed as electricity with specific generation attributes, among others energy source and conversion efficiency, without the use of EECS GO Certificates.

D3.3 Moreover, additional qualifying criteria for Issue of EECS RES-GO Certificates are:

- (a) electricity has been found to be generated from Renewable Energy sources according to the meaning assigned by Directive (2001-77-EC); and
- (b) electricity has been found to be generated from any source of energy other than fossil fuels and nuclear fission; and
- (c) electricity has been found to be generated from any source of energy the consumption of which does not limit its future use; and
- (d) no Green Certificate has been Issued for that same electricity (see A3.1).

D3.4 Subject to E3 below, the qualifying period of registration for the purposes of EECS GO Certificates shall be not more than five years. The Registrant must re-apply for registration of the Production Device before the expiry of the qualifying period.

D4 Support and Disclosure Schemes

D4.1 Support schemes are not relevant to the operation of the EECS GO scheme in Wallonia, Belgium, but Production Device registration and metering data are common. Moreover, support information is held within the EECS Registration Database.

D4.2 All GO's are earmarked according to the type of support received.

D4.3 Walloon GO's can be either local GO's in case the electricity generated for that same generation period receives production support in the form of Green Certificates, or EECS GO's in case the electricity generated for that same generation period receives NO production support in the form of Green Certificates.

D4.4 Further details on production support to renewable and CHP electricity is available in Annex 7 - Walloon production support scheme in 2007.

D5 Certificate Face Values

D5.1 EECS Certificates can be Issued with a Face Value of 1 MWh.

D6 Multiple Fuel Production Devices

D6.1 Where the calculation for Energy Source Factor refers to qualifying fuel sources, each individual energy input type must be treated separately such that the Energy Source Factor for each energy input is calculated correctly.

(i)

E PARTICIPATION AND REGISTRATION

E1 Scheme Participation

- E1.1 Any legal person who is not a member of the Association of Issuing Bodies or such member's affiliate or agent can be a EECS GO Scheme Participant.
- E1.2 The application form to open an Account can be found in Annex 5 and on the website www.cwape.be. (*formulaire de designation de contacts et mandataires and/or demande préalable d'octroi*)
- E1.3 The EECS GO Scheme Participant must contract with CWAPE under the Standard Terms and Conditions.
- E1.4 CWAPE will issue each authorised user with an identification and password to enable secure communications. It is the responsibility of the Scheme Participant to keep such identification secret.
- E1.5 In very limited circumstances, including recovery of undisputed debt from a Scheme Participant in default and purchases for its own use, CWAPE can buy and sell certificates. Such activities are reported to the Association of Issuing Bodies. These circumstances are currently not explicitly allowed by law.

E2 Registration of a Production Device

- E2.1 Only the owner of a Production Device, or a Registrant duly authorised by the owner, may register a Production Device, which is located in Wallonia, Belgium in the EECS Registration Database.
- E2.2 The Registrant of the Production Device must provide evidence to the satisfaction of CWAPE that it has the appropriate authority to register the Production Device and that it can comply with the requirements of the EECS GO Scheme and this Domain Protocol with respect to the imposition of duties on the owner and/or operator of the Production Device. Such evidence being the CGO Registration Form (see Annex 2).
- E2.3 An applicant registering a Production Device must provide the following information:
- (a) the applicant's name and address and additional contact details, including the name of the individual responsible for the application, phone number, fax number and e-mail address;
 - (b) the names of persons authorised to act for the Registrant;
 - (c) the EECS Scheme or Schemes with respect to which it is applying for registration;
 - (d) the Transferables Account into which Scheme Certificates in respect of that Production Device are to be Issued;
 - (e) the location of that Production Device, its name and address;
 - (f) details of the Export Meter(s) for that Production Device;
 - (g) details of any generating auxiliaries associated with that Production Device;
 - (h) details of Import Meter(s) which determine the totality of electricity consumption by the Production Device;
 - (i) all sources of energy that may be converted into energy outputs by that Production Device by reference to the source types set out in Annex 3;
 - (j) the nature of that Production Device, in terms of technology by reference to the types set out in Annex 3;
 - (k) the Nominal Capacity of that Production Device;
 - (l) the date on which that Production Device was or is commissioned;
 - (m) the identity of the Authorised Body or, where appropriate, Approved Measurement Body responsible for collecting and determining the measured values of the energy outputs of that Production Device and providing such measured values to CWAPE;

- (n) a diagram of that Production Device, including details the location of:
 - (i) the Export Meter(s) for the Production Device;
 - (ii) any transformer substations at the site of the Production Device;
 - (iii) any generating auxiliaries for the Production Device; and
 - (iv) any Import Meters for the Production Device.
 - (o) a description of how the amount of Net Electrical Energy Generation produced by that Production Device shall be calculated from the meter readings to be provided.
- E2.4 The registration form containing all the items listed in E2.3 above can be found in Annex 2 to this Domain Protocol.
- E2.5 The Qualifying Criteria for a Production Device within the EECS GO scheme are given in D3.1.
- E2.6 The Registrant must warrant that the information provided to CWAPE in connection with its application is complete and accurate and that the Production Device meets the qualification criteria for EECS GO.
- E2.7 The Registrant must also provide details of any payments which have been received by, or are due to accrue to, any person in relation to the Production Device, especially direct sales of electricity attributes and any kind of Support.
- E2.8 The CMO, CWAPE, will respond to the application within 30 working days from its receipt.
- E2.9 The Registrant must have the information in the registration form verified by a Production Registrar (see I2.1 below) as part of the approval process.
- E2.10 Where the Production Device is already accredited to another EECS Scheme or legislative support scheme, the CMO, CWAPE, may determine that part or all of the verification of this application is not required.
- E2.11 An application for the registration of a Production Device for the purposes of EECS GO will be rejected if:
 - (a) in relation to that application, the applicant has failed to comply with any requirements of this Domain Protocol or the Standard Terms and Conditions;
 - (b) the Qualification Criteria are not satisfied in respect to that Production Device;
 - (c) there are one or more generating auxiliaries for that Production Device not fitted with Import Meters; or
 - (d) the Production Registrar is prevented from satisfactorily verifying the application by the applicant or the owner or operator of the relevant Production Device.
- E2.12 On successful completion of the registration process, CWAPE will assign a unique identifier to each registered Production Device, if one has not already been assigned in that EECS Registration Database under another EECS Scheme.
- The identifier consists of a number with 18 numeric characters that also identifies the Domain of origin. EAN/GSRN (Global Service Relational Number) coding is used.
- E2.13 The Registrant consents to the publication by CWAPE or its CMO of data provided in the course of its application for registration in relation to each of its Production Device registered on the database on its web page www.cwape.be with the exception of:
 - (a) detailed descriptions of plant and equipment;
 - (b) graphical representations of the Production Device and its location, including diagrams and photographs; and
 - (c) details of:
 - (i) the person responsible for the application; and
 - (ii) where the Registrant of the Production Device is not its owner, the Production Device's owner.

E3 Changes in Registered Details

- E3.1 The Registrant of a Production Device must notify CWAPE of any planned changes due to come into effect that will result, or unplanned changes that have resulted, in:
- (a) the information recorded in the EECS Registration Database in relation to the Production Device becoming inaccurate; or
 - (b) the Qualification Criteria for EECS GO ceasing to be satisfied with respect to that Production Device.
- E3.2 On receipt of a change of details notification (following an inspection or otherwise), CWAPE will evaluate the impact of the changes on the Qualifying Criteria and respond to the Registrant within 30 working days specifying the decision taken.
- E3.3 Where CWAPE becomes aware that a Production Device no longer fulfils, or will no longer fulfil, the Qualification Criteria, the EECS Registration Database record for that Production Device will be updated to show that the Production Device no longer qualifies for EECS GO Certificates with effect from:
- (a) (in relation to planned changes notified in advance) the date on which such planned changes are due to come into effect; or
 - (b) (in relation to other changes) as soon as reasonably practicable after becoming so aware.

E4 Withdrawing from the Scheme - Closing an Account

- E4.1 The Account Holder must notify CWAPE of an intent to close his account in writing. The effective date of closure must not be less than 10 working days from the date of receipt by CWAPE.
- E4.2 CWAPE will amend the EECS Registration Database to seal that Account as of the effective date on the request or 30 working days from the date of receipt by CWAPE whichever is the later.

E5 Withdrawing from the Scheme - Deregistering a Production Device

- E5.1 The Registrant must notify CWAPE of an intent to deregister his Production Device in writing.

E6 Withdrawing from the Scheme - Registration Expiry

- E6.1 Unless otherwise directed by legislation identified in C1, the registration of a Production Device as qualifying for EECS GO Scheme in the EECS Registration Database will expire after five (5) years. CWAPE will amend with immediate effect the relevant records in the EECS Registration Database to indicate that the Production Device no longer qualifies for EECS GO Scheme.
- E6.2 The Registrant may avoid expiry by successfully completing re-registration of the relevant Production Device as set out in section E2 above. Following expiry, the Registrant may apply for re-registration of the relevant Production Device.

F PRODUCTION DATA

F1 Metering

- F1.1 Only Production Devices that are equipped with metering equipment that complies with the relevant regulations for the trading of generation energy shall be registered. The metering equipment may measure on a scalar basis (meter advance only) or on a period basis (energy measured in units of time) according to the regulations.
- F1.2 For the avoidance of doubt, the relevant regulations are the versions of the following agreements and codes presently in force at the time:
- (a) *Procédures et code de comptage de l'électricité produite à partir de sources d'énergie renouvelable et/ou de cogénération en Région Wallonne, annexe à l'arrêté ministériel du 12 mars 2007*
- F1.3 Unless determined under the regulations listed in F1.2 above, the metering Measurement Frequency shall be no more than twelve-monthly.

F2 Data Provision

- F2.1 If the Registrant wishes to receive EECS GO Certificates for his Production Device in an issuing period, he must submit a Production Declaration to CWAPE.
- (a) If the Production Device has a single energy source (i.e. excluding biomass and pumped storage hydro), the Registrant must submit a Production Declaration for that Production Device at least once in any [12] month period.
- (b) If the Production Device has multiple energy sources (i.e. including all biomass, CHP, and pumped storage hydro), the Registrant must submit a Production Declaration for that Production Device for every issuing period as defined in G1.2 below.
- F2.2 The Registrant is responsible for the timely delivery of accurate metering data for his Production Device, although metered energy values must be provided, or verified, by a Measurement Body (see I3 below).
- F2.3 Production Declarations are subject to verification by a Production Auditor (see I1 below) on a random and periodic basis.
- F2.4 In the event that it transpires that the data in any Scheme Certificate is inaccurate (whether or not through an act or omission of the Registrant of the Originating Production Device):
- (a) CWAPE shall (provided that such EECS GO Certificates are, at the time of such Withdrawal, in the Transferables Account of that Registrant) Withdraw those Certificates; or
- (b) CWAPE has the legal powers (e.g. suspension of Issuance; administrative fine in case of non compliance) and shall oblige the Registrant to secure for Withdrawal other EECS GO Certificates of the same type and within a term set by CWAPE.
- F2.5 The Registrant must provide metering data for his Production Device whenever certificates are required in order to allow calculation of measurable quantities according to the enabling legislation as specified under C1.1(d).

F2.6 A person submitting a Production Declaration (See Annex 4) in accordance with F2.1 above shall be obliged to specify therein:

- (a) the values of M_i and C_i for each fuel type 'i'; and
- (b) as the Energy Source Factor for that period, a factor no greater than L,

Where:

$$L^i = \frac{\sum_i^j M_i \times C_i}{\sum_i^n M_i \times C_i}$$

And

M_i is the mass of each fuel type 'i' for that Production Device during the relevant period.

C_i is the average calorific value of each fuel type 'i' for that Production Device during the relevant period.

i to j are qualifying energy sources for that Production Device during the relevant period.

j to n are not qualifying energy sources for that Production Device during the relevant period.

F2.7 In some cases, additional information is required by the issuer to ensure the number of Certificates issued correctly represents the qualifying energy that was metered. These cases, and the additional information required is set out in the enabling legislation specified in C1.

F2.8 Registrant has to notify CWAPE of any sale or consumption of electrical energy which has been sold or consumed as electricity with given generation attributes, among others energy source and conversion efficiency, without the use of EECS GO Certificates since this electricity is ineligible for EECS GO Certificates as specified in D3.2(d).

G PROCESSING OF CERTIFICATES

G1 Issuing

- G1.1 EECS GO Certificates are only issued under this Domain Protocol:
- (a) in respect of a Production Device which is, at the time of Issue:
 - (i) situated in Wallonia, Belgium;
 - (ii) registered in the EECS Registration Database of CWAPE as qualifying for EECS GO Certificates; and
 - (iii) (...)
 - (b) in respect of the qualifying energy output of such a Production Device during any period in which it was registered in an EECS Registration Database for the purposes of the EECS GO scheme, provided the last day on which the measured energy output was generated is not more than:
 - (i) thirteen (13) calendar months after the first day on which the measured energy output was generated; and
 - (ii) twelve (12) calendar months before the date of issue of any related EECS certificates; and
 - (c) (...)
 - (d) for energy output in respect of which (save to the extent permitted under sections G4 to G6 below) no other Certificate, of any variety, has been, or is being, issued
- G1.2 Subject to G1.1 above EECS GO Certificates are issued on demand of the Registrant against energy data in accordance with F2.2 above and metered during each quarter, if nothing else is agreed between the issuer and the Registrant.
- G1.3 Where the Measurement Frequency is not more than monthly, the Issuing Frequency shall be at least monthly; and where the Measurement Frequency is more than monthly, then the Issuing Frequency shall be the same as the Measurement Frequency.
- G1.4 Where the Measurement Frequency is more than monthly, then the number of CWAPE Certificates issued to a Production Device for each month must either be equal or as directed by an officially approved production profile.
- G1.5 Only persons duly authorised by the Registrant may request the issue of EECS GO Certificates in relation to the output of that Production Device.
- G1.6 The CMO will check the Production Declaration against the metered data provided for the Production Device for the period to which the Production Declaration relates. The EECS Registration Database will also be checked to ensure that no more than one EECS GO Certificate is Issued in respect of the same qualifying energy output. In case an energy output qualifies simultaneously for more than one EECS GO Scheme, the same EECS GO Certificate will carry these various GO qualifications.
- G1.7 One EECS GO Certificate will be issued for each whole one MWh of qualifying energy output of the Production Device. Any identifiable residual kWh will be carried forward to the next issuing period.
- G1.8 The CMO will deposit the Certificates in the Transferables Account nominated by the Registrant within the EECS Registration Database no later than 90 working days after the receipt of a valid Production Declaration at the end of every issuing period as defined in G1.2 and the Account Holder will be notified accordingly.
- G1.9 The EECS GO Certificates shall be issued in such format as may be determined by AIB from time to time.
- G1.10 A EECS GO Certificate identifies the entitlement of the Account Holder of the Transferables Account in which it is held to the attributes of:
- (a) the energy source for the quantity of energy output to which it relates; and/or

(b) the method and quality of the production of such energy output;

so as to enable the Account Holder to realise such real and intangible benefits as may be accorded to such entitlement. These entitlements are dependant on the laws of the country in which the Originating Production Device is situated and the laws applicable in any Domain to which they may be transferred for realisation on Redemption.

G2 Transfer

G2.1 A EECS GO Account Holder can hold EECS GO Certificates in a Scheme specific account within the EECS Registration Database for Wallonia, Belgium.

On request the CMO will open an account within 30 working days. The account will be uniquely identified by a number and a name.

G2.2 The Account Holder can get secure electronic access to the Account to make transfers of Certificates to another Account in the same EECS Registration Database or to another EECS Registration Database for EECS GO Certificates in another Domain through the website www.cwape.be.

G2.3 Only persons duly authorised by the Account Holder may request the transfer of EECS GO Certificates out of that Account Holder's Transferables Account. Authorised persons must be identified on the account application form (see Annex 5).

G2.4 Where a Transfer Request is received with respect to one or more Scheme Certificates held in a Transferables Account on its EECS Registration Database, CWAPE will, having confirmed that the Transfer Request is valid,:

(a) remove from that Transferables Account the details of the EECS GO Certificate(s) specified in the Transfer Request;

(b) where the Transferee's Transferables Account specified in the Transfer Request is in the same EECS Registration Database:

(i) include the full details of the EECS GO Certificate(s) referred to in (a) above in the Transferee's Transferables Account;

(ii) confirm, to the Transferor, the identity of the EECS GO Certificates so transferred and any EECS GO Certificate split in connection with such transfer by reference to their unique identifying number(s) and Face Values; and

(iii) confirm, to the Transferee, the identity of the Transferor and of the EECS GO Certificates so transferred by reference to their unique identifying number and Face Values; and

(c) where the Transferee's Transferables Account specified in the Transfer Request is on a different EECS Registration Database:

(i) notify the operator of that other EECS Registration Database of that Transfer Request;

(ii) subject to G2.7 below, send the full details of the EECS GO Certificates referred to at (a) above to the operator of that other EECS Registration Database;

(iii) record on its own EECS Registration Database, the export of such EECS GO Certificates, and, where appropriate as a result of the operation of G2.7, the cancellation of their status as Scheme Certificates under any EECS Scheme;

(iv) on receipt of confirmation from the operator of that other EECS Registration Database that the transfer has been completed, confirm to the Transferor the identity of the operator of that other EECS Registration Database and of the EECS GO Certificates so transferred and of any split in connection with such transfer by reference to their unique identifying numbers and Face Values.

G2.5 Where CWAPE is notified by another EECS Registration Database operator of a Transfer Request including details of a EECS GO Certificate which are consistent with the Transfer Criteria for EECS GO Certificates together with the account number for a Transferables Account on its own EECS Registration Database, it will:

- (a) insert the full details of that EECS GO Certificate in that Account Holder's Transferables Account;
- (b) confirm to the EECS Registration Database operator that notified it of such Transfer Request that the transfer of that EECS GO Certificate has been completed; and
- (c) confirm, to the Transferee, that such EECS Certificate has been transferred by reference to its unique identifying number and Face Value.

G2.6 Where CWAPE is notified by another EECS Registration Database operator of a Transfer Request involving a Scheme Certificate which does not satisfy the Transfer Criteria for such EECS GO Certificates and/or receives an account number which does not correspond with an account number for a Transferables Account on its own EECS Registration Database, CWAPE will use reasonable endeavours to exchange information such that the EECS GO Certificate can be rendered compliant with the EECS GO for Wallonia, Belgium or the correct account number identified (as the case may be), failing which:

- (a) the full details of the EECS GO Certificate shall be re-entered into the Transferor's Transferables Account on the relevant EECS Registration Database and that EECS Registration Database shall be amended so that the EECS GO Certificate is no longer recorded as having been exported; and
- (b) all details of the EECS GO Certificate shall be removed from the other EECS Registration Database.

G2.7 Where:

- (a) CWAPE receives a Transfer Request in respect of a EECS GO Certificate which is a Scheme Certificate under more than one EECS Scheme; and
- (b) the Transferee's Transferables Account specified in the Transfer Request is on a registry that is not part of EECS GO,

the details of the EECS GO Certificate referred to in G2.4(c)(ii) above will be amended to remove any identifier indicating that the certificate is a EECS GO Certificate.

G2.8 The CMO will process a transfer request within the following deadlines:

- (a) A request for transferral of EECS GO Certificates to an account in the same EECS Registration Database will be executed within 10 working day[s].
- (b) On a request for transferral of EECS GO Certificates to an account in a different EECS Registration Database, the export message will be sent to the receiving CMO within 10 working day[s].
- (c) On receiving an export message, the CMO will execute that message within 10 working day[s].
- (d) A request for transferral of EECS GO Certificates to an account in a Registration Database that is outside the EECS network will be executed within 30 working day[s].

In many cases these processes are fully automated and will occur according to the operational timescales of the Transfer Link which may be significantly ahead of these processing deadlines.

G2.9 The Account Holder is required to retain all records to which he has had access relating to EECS GO Certificates for a period not less than 10 years.

G3 Redemption

G3.1 Redemption is the removal of a Certificate from circulation and is the point at which it ceases to be tradable. Once in a Redemption Account, a EECS GO Certificate cannot be moved to any other account.

G3.2 Only persons duly authorised by the Account Holder may request the redemption of EECS GO Certificates out of that Account Holder's Transferables Account and into its Redemption Account. The request is given electronically through the web site www.cwape.be.

G3.3 A redemption request can be made by a person duly authorised by the Account Holder to transfer EECS GO Certificates out of that Account Holder's Transferables Account and into the Redemption Account of a Redeeming Body. A request for redemption may only be deemed valid if the country where the EECS GO was issued

- (a) Uses Certificate Redemption for Disclosure of the electricity retailers' fuel mix or other relevant bodies mentioned under G3.9, or
 - (b) In case where this condition is not met, sufficient evidence is provided that the characteristics of the sources or conversion efficiency can not be counted twice for the Disclosure.
- G3.4 On receipt of valid redemption request, CWAPE will accept or reject the redemption request; in case of rejection, it will inform the Account Holder of the reason for rejection; in case of acceptance, it will:
- (a) remove the details of that EECS GO Certificate from that Transferables Account;
 - (b) insert the details of that EECS GO Certificate in the Redemption Account of the Redemption Body which made, or is specified, in that request; provide the Account Holder with access to the full details of that EECS GO Certificate certifying that it has been Redeemed; and
 - (c) provide details of the Redeemed EECS GO Certificate to the Redeeming Body and its auditors where requested to do so.
- G3.5 A request for redemption of a EECS GO Certificate will be executed within 10 working day(s).
- G3.6 An Account Holder will be able to obtain a Statement of Account as specified in G7.
- G3.7 Redemption statements will only be produced for Redeeming Bodies or for Competent Authorities mandated to control the usage of Certificates.
- G3.8 On request from a Redeeming Body or from a Competent Authority mandated to control the usage of Certificates, the CMO will produce a redemption statement within 30 working day(s). The redemption statement should include the following details:
- (a) The Redeemed Certificates.
 - (b) The recipient of those Certificates, if not the Account Holder.
 - (c) The production/issuing date if not sufficiently identified in (a) above.
 - (d) The generic (Disclosure, Error) and specific usages into which this redemption falls. For example, a Certificate could be used for Disclosure for a given electricity product of a supplier.
 - (e) Any other information to be included on the statement
- The format of the redemption statement is shown in Annex 8 to this document.
- G3.9 Only licensed electricity retailers, distributors and final customers purchasing directly from an electricity exchange may redeem their EECS Certificates.
- G3.10 Certificates Issued are immediately Redeemed for a volume corresponding to the autoproducer's on-site consumption or, alternatively, are Issued for a volume corresponding to the difference between the net generated electricity and the autoproducer's on-site consumption.
- G4 Splitting**
- G4.1 An EECS GO Certificate may be split into Certificates of lower Face Values if directly requested by the Account Holder or implied by the volume in a Transfer Request. This is achieved by deleting it and replacing it with EECS GO Certificates identical with that EECS GO Certificate in every respect save as to their denominations in MWh and any unique identification numbers. The aggregated Face Values of the replacement EECS GO Certificates will be the same as the Face Value of the original EECS GO Certificate.
- G4.2 Where a split of a Certificate is implied by a Transfer Request, that Transfer Request will be deemed to apply to all the replacement Certificates up to the volume implied by that Transfer Request.

G5 Withdrawals

G5.1 CWAPE may Withdraw a EECS GO Certificate held in a Transferables Account on its EECS Registration Database at the request of the Account Holder of that Account, or otherwise in accordance with the provisions of the EECS GO scheme, thereby cancelling it.

G6 Errors

G6.1 Where an error is introduced (subsequent to its Issue) into, or with respect to, a EECS GO Certificate held in the Account Holder's Transferables Account in the EECS Registration Database:

- (a) in the course of its Transfer into that Account; or
- (b) during such time as it is in such Account,

CWAPE will correct the error in or with respect to that EECS GO Certificate and any errors replicated in EECS GO Certificates split from it, provided that such EECS GO Certificate(s) have not been transferred out of that Transferables Account.

G6.2 CWAPE may Withdraw or alter a EECS GO Certificate held in its EECS Registration Database to give effect to an agreement reached with the Account Holder under provisions of the Standard Terms and Conditions.

G6.3 CWAPE may alter a EECS GO Certificate held in its EECS Registration Database so as to rectify an error which occurred prior to its transfer into the Account in which it is held at such time, provided:

- (a) the Account Holder has agreed to such alteration;
- (b) it is reasonably satisfied that any unjust enrichment of a EECS GO Scheme Participant as a consequence of such error has, to the extent reasonably practicable, been nullified;
- (c) it is reasonably satisfied that the alteration itself does not give rise to undue enrichment of the Account Holder.

G7 Statement of account

G7.1 CWAPE will provide a statement of account to the Account Holder(s) after issuing, transferring, redeeming or withdrawing Certificates. The statement may be either in paper or in electronic form. It will include the following information:

- (a) The EECS GO Certificates concerned, including production date, issuing date and technology.
- (b) The number of Certificates before and after the event triggering the publication of the statement.
- (c) Details of the issue, transfer, redemption or withdrawal since the last statement.
- (d) Any other information to be included on the statement

H MONITORING AND REPORTING

H1 Monitoring

- H1.1 The Registrant, on behalf of the owner and operator, of a Production Device must permit CWAPE, or its agent, to access the Production Device or records associated with it, its energy output and sources of energy when conducting inspections in accordance with this section H1, including, if so required, without prior notice. Refusal to permit such access may be considered a breach of the Standard Terms and Conditions.
- H1.2 CWAPE, or its agent, will periodically conduct inspections of a Production Device registered on its EECS Registration Database and any associated Import and Export Meters to confirm that:
- (a) the information recorded in relation thereto on the EECS Registration Database is accurate;
 - (b) the Registrant and, where applicable, the owner and/or operator of the Production Device, is complying with all relevant obligations under the relevant EECS Schemes; and
 - (c) such Production Device continues to meet the Qualification Criteria for the EECS Schemes in relation to which it is registered.
- H1.3 The period between inspections of a Production Device under H1.2 above will not exceed 5 years except for Production Devices under 10 kW, which are subject to random and targeted inspections. CWAPE will request the Registrant of a Production Device to produce a report from its nominated Production Auditor stating that the registration continues to satisfy the criteria in H1.2 above. See also I1.6 below.
- H1.4 CWAPE, or its agent, may conduct ad-hoc inspections of records associated with relevant Public Support in relation to Production Devices registered on its EECS Registration Database for the purposes of EECS Schemes.

H2 Activity Reporting

- H2.1 In order to maintain an open and orderly market, CWAPE has a duty to publish information in relation to the activities of that market.
- H2.2 Each Production Auditor will report to CWAPE every time any auditing measures have been carried out.
- H2.3 CWAPE will publish an activity report no less than once every quarter on the number of EECS GO Certificates which, within the preceding period:
- (a) it has Issued;
 - (b) (where relevant) have been transferred within its EECS Registration Database from Accounts associated with one Domain to Accounts associated with another Domain held on the same EECS Registration Database;
 - (c) have been transferred into its EECS Registration Database from EECS Registration Databases of other EECS Scheme registry operators;
 - (d) have been transferred from its EECS Registration Database to EECS Registration Databases of other EECS Scheme registry operators;
 - (e) it has transferred from Transferables Accounts to Redemption Accounts.
- H2.4 The AIB will publish in respect of each calendar year an annual report within six months of the end of that calendar year on the functioning and efficiency of the market in Scheme Certificates Issued or transferred to accounts in its members' EECS Registration Databases.
- H2.5 The annual report referred to H2.4 above shall specify any institutional, structural, and legal impediments to the efficient functioning of the EECS GO scheme within Wallonia, Belgium.

H3 Exception Reporting

- H3.1 Where as a consequence of an inspection conducted pursuant to H1 above, CWAPE determines that the Scheme Participant is in breach of this Domain Protocol or the Standard Terms and Conditions, or determines that a Production Device is in breach of the Qualifying Criteria for an EECS Scheme in relation to which it is registered, CWAPE will:
- (a) take such action as is necessary to secure that EECS GO Certificates are correctly being issued, such action to include, in a case of material non-compliance with the this Domain Protocol or the Standard Terms and Conditions by the Registrant, the withdrawal of registration of the relevant Production Device for the purposes of the EECS Scheme; and
 - (b) notify the AIB of such breach where CWAPE is of the reasonable opinion that such breach could affect the transfer of EECS Certificates out of its EECS Registration Database into another EECS Registration Database.
- H3.2 CWAPE will report any failures by the Scheme Participant to comply with the provisions of this Domain Protocol or the Standard Terms and Conditions to the Competent Authorities in relation to such matters. Such failures shall include behaviour by the Scheme Participant of which CWAPE is aware and which, in its reasonable opinion, amounts to a breach of Competition Law, or applicable law governing the conduct of financial markets.
- H3.3 CWAPE will also notify the AIB of any report made by it under H3.1 above providing as much information in relation to such a report as is consistent with any duty of confidentiality it may have to the Scheme Participant.

I AGENTS AND MEASUREMENT BODIES

I1 Production Auditor

- I1.1 The role of the Production Auditor is to verify Production Declarations and (where appropriate) Consumption Declarations made by Registrants of Production Devices to the CMO for the purposes of Certificate issuing. This is to ensure the continued fulfilment of the conditions of registration.
- I1.2 The Production Auditor is an agent of CWAPE. The full list of approved Production Auditors is given in Annex 1 to this document and on the website www.cwape.be.
- I1.3 To be a Production Auditor, the company must gain approval from BELAC the official Belgian accrediting body. The operation of the Production Auditor is under the control of CWAPE.
- I1.4 The Registrant of the Production Device may nominate a Production Auditor from the list in Annex 1. Such a Production Auditor must be independent of the owner or the Registrant of the Production Device. This independence is guaranteed by the BELAC accreditation.
- I1.5 The Production Auditor will receive information about the issued EECS GO Certificates from CWAPE and the registered information relating to the Production Device for the period being reviewed. The CWAPE, with support from the Production Auditor if necessary, will compare generation capacity with the issued number of Certificates and other relevant data e.g. wind speeds, to identify any potential abnormalities.
- I1.6 The Production Auditor will report any discrepancies from the registered information to CWAPE as soon as possible.
- I1.7 A Production Auditor also performs the role of Production Registrar.

I2 Production Registrar

- I2.1 As part of the registration process for the Production Device, it is necessary for the information provided by the applicant to be independently verified. This is normally achieved through a site inspection. CWAPE must verify the application, but can delegate the activity to a Production Registrar as his agent.
- I2.2 The full list of authorised Production Registrars is given in Annex 1 to this document and on the website www.cwape.be.
- I2.3 Charges to the applicant for this service are negotiated with Production Registrars.
- I2.4 The Registrant, on behalf of the owner and operator, of a Production Device must permit CWAPE, or a Production Registrar as its agent, to access the Production Device or records associated with it, its energy output and sources of energy when conducting inspections in accordance with section I2.1 above.
- I2.5 A Production Registrar also performs the role of Production Auditor.

I3 Measurement Body

- I3.1 A Measurement Body is an organisation responsible for the collection of metering data relating to the output of the Production Device.
- I3.2 The Production Registrar collects metering data at each periodic audit.
- I3.3 Besides CWAPE and Production Registrars, the list of other Measurement Bodies, approved to provide data for EECS GO in Wallonia, Belgium is given on the website www.cwape.be (*gestionnaires de réseau*).

J MODIFICATIONS

J1 Modifications to this Domain Protocol

- J1.1 The Scheme Participant may propose a modification to this Domain Protocol;
- J1.2 Such a proposal will include a detailed description, including an exact specification of any proposed modification of this Domain Protocol and be passed in writing to CWAPE.
- J1.3 On receipt of such a request, CWAPE will:
- (a) Respond to the request within 30 working days, describing the procedures to be followed, and estimating when a reply can be expected;
 - (b) Consult with the other EECS GO Scheme Participants within Wallonia, Belgium;
 - (c) Decide whether the request and its consequences are in its opinion reasonable;
 - (d) Inform the EECS GO Scheme Participants within Wallonia, Belgium the outcome of this decision.
- J1.4 CWAPE may make such modifications to this Domain Protocol as are in its opinion necessary to the effective and efficient operation of the market.
- J1.5 Any modifications to this Domain Protocol are subject to approval by the AIB that such changes do not conflict with the Principles and Rules of Operation of the Association of Issuing Bodies (AIB) for the European Energy Certification System.
- J1.6 Implementation of modifications will be notified by email to the Scheme Participant and will take effect on publication of the documentation on the website www.cwape.be.

J2 Transitory measures

- J2.1 Until on-line transactions become available (physically as well as legally), CWAPE remains the authorised user representing the Scheme Participant. Any Scheme Participant wishing to sell or redeem their certificates will request the CWAPE in writing. CWAPE will authenticate this transaction, key it itself in and inform the Scheme Participant by way of a statement of account.

K ASSOCIATION OF ISSUING BODIES

K1 Membership

- K1.1 CWAPE is a member of the Association of Issuing Bodies (AIB) and is bound by the quality standards of that Association for the international transfer of certificates. Continued membership is essential to facilitate international transfers of EECS GO Certificates.
- K1.2 In order to maintain the quality standard across the entire EECS network, all AIB members are subject to audit and periodic peer review.
- K1.3 In the event of CWAPE or one of its agents failing to maintain the quality standard, there may be a suspension of EECS GO Certificate issuing and/or international transfers into or out of Wallonia, Belgium.
- K1.4 Should CWAPE decide to withdraw from AIB membership in respect of EECS GO in Wallonia, Belgium, it will give notice in writing to the Scheme Participant in accordance with the Standard Terms and Conditions.

Annex 1 – Contacts List

Central Monitoring Office

Company	CWAPE
Contact Person	Pierre-Yves Cornélis
Address	Avenue Gouverneur Bovesse 103-106 5100 Namur
Country	Belgium
Phone number	+32 (0)33 08 14
Email address	Pierre-Yves.Cornelis@cwape.be

Certificate Authority *(if different from the CMO)*

Company	
Contact Person	
Address	
Country	
Phone number	
Email address	

Production Registrars

See website <http://www.cwape.be/xml/themes.xml?IDC=566>

Production Auditors

See Production Registrars and/or Cwape

Measurement Bodies

See website <http://www.cwape.be/xml/themes.xml?IDC=36>

Annex 2 – Registration Form

Certificat de garantie d'origine (CGO)

See <http://www.cwape.be/xml/doc.xml?IDC=520&IDD=2627> for latest version

Version 1.2 – last update on Novembre 17, 2004

Legal references : arrêté ministériel du 12 mars 2007 déterminant les
procédures et le code de comptage applicables en matière de quantité
d'énergie

Preliminary remark

This document is a template for the accredited bodies, holding the minimum information required in the CGO. Each accredited body is invited to set up his own document.

A formal opinion of the accredited body should be given on the documents given by the green producers i.e.

- A general sketch of the Production Device for heat and electricity ;
- The metering diagram;
- The list of auxiliaries ;
- A description of the use of heat..

CWAPE site identification number : 200.. /

Audit date :

BOX 1.	Accredited body
Name:	
License number:	N° : Date of license:
Address:	
Contact person :	Name : Phone. : Fax : E-mail :
Control agent :	

BOX 2. Green producer	
Name ¹ :	
Address :	
Contact person:	Name : Tel. : Fax : E-mail :

BOX 3. Production site	
Name of site (optional) :	
Address :	
Name of company in charge of operations ² :	
Contact person :	Name: Tel. : Fax : E-mail :

¹ Mention whether the green producer is the owner, a subsidiary, or a manager. This information should be complete and supported by the articles of association of each artificial person.

² Complete only if the green producer is not operating the facilities himself.

BOX 4. Energy sources	Tick the appropriate box	
	Main source	Secondary source

Use the latest Fact Sheet 5 listed in Annex 3 below.

BOX 5. Category of production device		
Category 1 -	RES without emissions for preparation	
Category 2 -	$P_{end} < 500kW$; fossil fuels + RES without emissions for preparation	
Category 3 -	$P_{end} < 500kW$; fossil fuels + RES with emissions for preparation	
Category 4 -	$500 kW \leq P_{end}$; fossil fuels + RES without emissions for preparation	
Category 5 -	$500 kW \leq P_{end}$; fossil fuels + RES with emissions for preparation	

BOX 6. Generation technology

Principle :

Description of production device³ : equipment type, brand, nominal characteristics, etc :

³ Attach a schematic diagram showing the principles of energy generation as well as the different uses of the energy, the auxiliaries, what is used for preparation of the renewable energy sources, what is used locally by the producer, what is transmitted to the local grid and to the network.,

BOX 7. Electric output			
	Unit :		
Total installed electric power ⁴	kW _e	P _{etot}	
Power required by auxiliaries	kW _e	P _{ef}	
Total thermal power available CHP only	kW _q	P _{qtot}	
Net thermal useable power ⁵ CHP only	kW _q	P _{qnv}	
Net electric power	kW _e	P _{end}	$P_{end} = P_{etot} - P_{ef} =$
For engines and boilers with turbines. Nominal electric efficiency : = produced electric output divided by primary energy	%	($\alpha_E/100$)	
Electric efficiency according to attached tests results	%	($\alpha_E/100$)	
For cogeneration Nominal thermal efficiency : = produced thermal output divided by primary energy	%	($\alpha_Q/100$)	
Thermal efficiency according to attached tests results	%	($\alpha_Q/100$)	

BOX 8. Expected annual balance			
Net electricity generation	kWh _e	E _{enp}	
Net useful heat	kWh _q	E _{qnv}	
Duration of electricity use at nominal power, (yearly estimate)	Hour	U _e	$U_e = E_{enp} / P_{end} =$
Duration of heat use at nominal power, (yearly estimate)	Hour	U _q	$U_q = E_{qnv} / P_{qnv} =$
Yearly running time	Hour	T _f	Indicate any eventual limitations

⁴ Attach a calculation note

⁵ Mention the heat demand the production device should feed :

- Is heat used by the producer or by a third party ? In the latter case, provide details about contract.;
- Provide a description of the heat consumers with diagram and required power.
- Temperature levels and power available at the outlet of the device;
- Technical description of techniques (with diagram);
- How is the heat generated in the absence of energy input by the renewable energy source or by the CHP ?
- Diagram of heat demand for a day, a week, a year

BOX 9. Technology for electricity and/or heat metering

Remark :

1. Les points de comptage réellement implantés sur le site de production peuvent différer de ceux listés ci-dessous ; chaque producteur vert doit, pour chaque grandeur physique concernée (combustibles, électricité nette produite, chaleur nette valorisée), présenter un schéma de comptage qui tient résulte le plus souvent d'une somme algébrique de points de comptage. Dans tous les cas une liste complète des compteurs intervenant dans la somme algébrique devra être dressée en mentionnant les caractéristiques précises de chacun des compteurs. Les fiches techniques complètes des compteurs doivent en outre être jointes.
2. La liste des renseignements demandés ci-dessous est indicative. L'organisme agréé est invité à la modifier et/ou compléter en connaissance de cause.
3. Dans le cas où le comptage est effectué par un procédé de comptage (catégorie 3), ce procédé doit être décrit par l'organisme agréé en détaillant la méthode, le type de mesures, la précision des mesures, etc. L'organisme agréé doit également apprécier le degré d'inviolabilité du procédé.

Fossil fuel meter One meter per fuel type	Fuel :	
	Meter location :	
	Topological correction factor :	
	Meter type :	
	Working principle	
	Measurement unit :	
	Measuring range :	
	Accuracy class :	
	Accuracy at half scale (%):	
	Computer handling :	
	Remote measurement	
	Ownership of metering devices	
Renewable fuel (or input) meter One meter per fuel type Mandatory for categories 3 and 5	Fuel :	
	Meter location :	
	Topological correction factor :	
	Meter type :	
	Working principle	
	Measurement unit :	
	Measuring range :	
	Accuracy class :	
	Accuracy at half scale (%):	
	Computer handling :	
	Remote measurement	
	Ownership of metering devices	

Metering total electric output Eetot	Meter location :	
	Topological correction factor :	
	Meter type :	
	Working principle	
	Measurement unit :	
	Measuring range :	
	Accuracy class :	
	Accuracy at half scale (%):	
	Computer handling :	
	Remote measurement	
	Ownership of metering devices	
Metering electrical enrgy for auxiliaires Eef	Meter location :	
	Topological correction factor :	
	Meter type :	
	Working principle	
	Measurement unit :	
	Measuring range :	
	Accuracy class :	
	Accuracy at half scale (%):	
	Computer handling :	
	Remote measurement	
	Ownership of metering devices	
Metering of electric energy consumed by the producer for its own use Eauto	Meter location :	
	Topological correction factor :	
	Meter type :	
	Working principle	
	Measurement unit :	
	Measuring range :	
	Accuracy class :	
	Accuracy at half scale (%):	
	Computer handling :	
	Remote measurement	
	Ownership of metering devices	

Metering of electric energy injected to grid Einjec	Meter location :	
	Topological correction factor :	
	Meter type :	
	Working principle	
	Measurement unit :	
	Measuring range :	
	Accuracy class :	
	Accuracy at half scale (%):	
	Computer handling :	
	Remote measurement	
	Ownership of metering devices	
Metering electrical energy for green certificates $E_{enp} = E_{tot} - E_{ef}$ $= E_{auto} + E_{injec}$	Meter location :	
	Topological correction factor :	
	Meter type :	
	Working principle	
	Measurement unit :	
	Measuring range :	
	Accuracy class :	
	Accuracy at half scale (%):	
	Computer handling :	
	Remote measurement	
	Ownership of metering devices	
Metering of useful heat Eqnv One metering by fluid	Fluid carrying heat :	
	Meter location :	
	Topological correction factor :	
	Meter type :	
	Working principle	
	Measurement unit :	
	Measuring range :	
	Accuracy class :	
	Accuracy at half scale (%):	
	Computer handling :	
	Remote measurement	
Ownership of metering devices		

Metering running hours	Meter location :	
	Meter type :	
	Working principle	
	Computer handling :	
	Remote measurement	
	Ownership of metering devices	

BOX 10. Other measures – Technologies

Remarques :

1. Les catégories 4 et 5 requièrent la présence d'instruments de mesures complémentaires. Les caractéristiques techniques de ces instruments doivent être mentionnées ci-dessous. Les fiches techniques complètes doivent en outre être jointes.
2. La liste des renseignements demandés ci-dessous est indicative. L'organisme agréé est invité à la modifier et/ou compléter en connaissance de cause.

Gas analysis :	Meter location :	
	Meter type :	
	Working principle	
	Measurement unit :	
	Measuring range :	
	Accuracy:	
	Measurement frequency	
	Recording	
	Computer handling :	
	Remote measurement	
LHV	Meter location :	
	Meter type :	
	Working principle	
	Measurement unit :	
	Measuring range :	
	Accuracy:	
	Measurement frequency	
	Recording	
	Computer handling :	
	Remote measurement	

Humidity :	Meter location :	
	Meter type :	
	Working principle	
	Measurement unit :	
	Measuring range :	
	Accuracy:	
	Measurement frequency	
	Recording	
	Computer handling :	
	Remote measurement	
Bulk density	Meter location :	
	Meter type :	
	Working principle	
	Measurement unit :	
	Measuring range :	
	Accuracy:	
	Measurement frequency	
	Recording	
	Computer handling :	
	Remote measurement	

BOX 11. CO2 emissions by the generation system under normal regime conditions	
The accredited body gathers all elements needed by CWAPE to establish the CO2 emissions of the system.	
Is natural gas available at the property (within 25 m of limits) ?	
Fuel n°1 - Fuel type:	
In case of renewable fuel, indicate origin(s) :	
LHV ⁶ per kWh par unit (Nm ³ for gas, litre for gas oil, kg for coal) :	
Where does this data come from (measures, invoices, etc.)	
What are the variations of the LHV ?	
Density (or bulk density for crushed fuels) :	
What are the variations of the density (e.g. with changes to relative humidity) ?	
Expected daily / monthly consumption, in weight or volume	
Percentage in LHV of total fuel	
Is this proportion variable in an hour, a day, a year ?	
Fuel n°2 - Fuel type:	
In case of renewable fuel, indicate origin(s) :	
LHV ⁷ per kWh par unit (Nm ³ for gas, litre for gas oil, kg for coal) :	
Where does this data come from (measures, invoices, etc.)	
What are the variations of the LHV ?	
Density (or bulk density for crushed fuels) :	
What are the variations of the density (e.g. with changes to relative humidity) ?	
Expected daily / monthly consumption, in weight or volume	
Percentage in LHV of total fuel	
Is this proportion variable in an hour, a day, a year ?	
Fuel n°3 - Fuel type:	
In case of renewable fuel, indicate origin(s) :	
LHV ⁸ per kWh par unit (Nm ³ for gas, litre for gas oil, kg for coal) :	
Where does this data come from (measures, invoices, etc.)	
What are the variations of the LHV ?	
Density (or bulk density for crushed fuels) :	
What are the variations of the density (e.g. with changes to relative humidity) ?	
Expected daily / monthly consumption, in weight or volume	
Percentage in LHV of total fuel	
Is this proportion variable in an hour, a day, a year ?	

⁶ CWAPE reserves the right to use other values of LHV than those mentioned here.

⁷ CWAPE reserves the right to use other values of LHV than those mentioned here.

⁸ CWAPE reserves the right to use other values of LHV than those mentioned here.

BOX 12. DIVERS			
Commissioning date			
Supports (subsidies,...) granted for building or operating the production device			
	<table border="1"> <tr> <td style="width: 30%;">Name, title and signature of producer :</td> <td></td> </tr> </table>	Name, title and signature of producer :	
Name, title and signature of producer :			
Global appreciation by the accredited body	<table border="1"> <tr> <td style="width: 40%;">Choice of site for this RES technology:</td> <td></td> </tr> </table>	Choice of site for this RES technology:	
	Choice of site for this RES technology:		
	<table border="1"> <tr> <td style="width: 40%;">General state of production device</td> <td></td> </tr> </table>	General state of production device	
General state of production device			
<table border="1"> <tr> <td style="width: 40%;">Potential for further developments:</td> <td></td> </tr> </table>	Potential for further developments:		
Potential for further developments:			
Auditor from accredited body :	Name :		
	Title :		
	Date :		
	Signature :		

Annex 3 – Energy Source Types and Technology Types

Reference should be made to AIB PRO Fact Sheet 5 on the website www.aib-net.org for the latest version of these tables.

Renewable Source Electricity (Schemes: RECS and EECS-GO)

Source	Technology	Type	Combustible?	CO ₂ ⁹ (kg/GJ)	Code	
Wind	Wind turbine	Onshore	No	0.0	01	
		Offshore	No	0.0	02	
Solar	Photovoltaic		No	0.0	03	
	Thermal		No	0.0	04	
Energy from water (excluding electricity used for pumping hydro)	Hydro power		No	0.0	05	
	Tidal energy	Onshore	No	0.0	06	
		Offshore	No	0.0	07	
	Wave energy	Onshore	No	0.0	08	
Offshore		No	0.0	09		
Geothermal			No	0.0	10	
Biomass, using gasification and non-gasification technologies ¹⁰	Energy crops		Yes	0.0	11	
	Forestry and agricultural by-products and waste		Yes	0.0	12	
	Biogas	Landfill gas		Yes	0.0	13
		Sewage gas		Yes	0.0	14
		Other		Yes	0.0	15
	Energy from by-products and waste (with varying levels of filtration) ¹¹	Municipal solid waste		Yes	0.0	16
Industrial by-products & commercial waste			Yes	0.0	17	

⁹ This reflects the IPCC statistics where available, and otherwise the Dutch table of standard CO₂ emission factors for energy production

¹⁰ As variously defined in the Renewable Energy, Large Combustion Plants and Waste Combustion Plants Directives

¹¹ Note that RES certificates will only be issued for the estimated non-fossil proportion (i.e. excluding plastics) of Energy from By-Products and Waste

Cogeneration (Scheme: CHP-GO)

Source	Technology	Type	Combustible?	CO ₂ ¹² (kg/GJ)	Code	
Biomass, using gasification and non-gasification technologies ¹³	<i>Wood fuels</i> ¹⁴		Yes	0.0	30	
	<i>Solid (biodegradable) waste & agricultural biomass</i> ¹⁵		Yes	0.0	31	
	<i>Liquid biodegradable waste (black liquor etc)</i>		Yes	0.0	32	
	<i>Liquid biofuels (Vegetable oils, biodiesel, bio-ethanol, bio-crude-oil etc)</i>		Yes	0.0	33	
	<i>Biogas</i>		Yes	0.0	34	
Fossil	<i>Solid fuel</i>	Hard coal / coke Anthracite	Yes	98.3	50	
		Oil shale		Yes	106.7	58
		Lignite / lignite brickettes		Yes	101.2	59
		Peat / peat brickettes		Yes	106.0	60
	<i>Gases</i>	Natural gas		Yes	56.1	61
		Refinery gas, hydrogen		Yes	0.0	64
		Coke oven gas, blast furnace gas + other waste gases (including recovered waste heat)	Coke oven gas	Yes	41.2	68
	<i>Liquid Fuel</i>	Gas/diesel oil		Yes	74.3	70

¹² This reflects the IPCC statistics where available, and otherwise the Dutch table of standard CO2 emission factors for energy production

¹³ As defined in the Guidelines to the CHP Directive

¹⁴ Wood fuels: Firewood, wood chips, bark, wood pellets, briquettes, sawdust, shavings, chips, purpose grown crops like willow, industrial wood waste, demolition wood

¹⁵ Agricultural biomass: solid agricultural crops (perennial and annual herbaceous crops), residues and waste (straw, rice husks, nut shells, poultry litter, crushed grape dregs etc)

Annex 4 – Production/Consumption Declaration

Currently free format based on registered meters.

Example:

		2007/300 : Test site			
		Dossier: 2007/300 Garantie d'origine du : 1.01.2007 AV2 Producteur Vert : FUTUR-ENERGY Site de production: Test site Organisme de Contrôle: BTV Technologie : Cogénération fossile Période : 50 000 kW			
		31.03.2007		1.1.2007-31.3.2007	
		Index:	Cste de lecture:	Mesure :	Unités:
Electricité	Prod	41 000	1 000	41 000 000	kWhe
	Cons	1 000	1 000	1 000 000	kWhe
	Prod	40 900	1 000	40 900 000	kWhe
	Cons	1 010	1 000	1 010 000	kWhe
Chaleur	Prod	25 000	1 000	25 000 000	kWhq
Intrants	Biomasse	175 000	1 000	175 000 000	kWhp
	Fossile	25 000	1 000	25 000 000	kWhp
Horaires	moteur	1 000	1	1 000	h
				Delta :	
				41 000 000	kWhe
				1 000 000	kWhe
				40 900 000	kWhe
				1 010 000	kWhe
				25 000 000	kWhq
				175 000 000	kWhp
				25 000 000	kWhp
				1 000	h

OCTROI DE CERTIFICATS VERTS : 1er TRIMESTRE 2007

MESURES

Annex 5 – Account Application/Amendment Form



DEMANDE PREALABLE D’OCTROI DE CERTIFICATS VERTS ET DE LABELS DE GARANTIE D’ORIGINE	Case réservée à la CWAPE N° d'ordre : Date réception :
Document à renvoyer à la CWAPE : Avenue Gouverneur Bovesse, 103 – 106 à B-5100 NAMUR Tél. : 081/33.08.14 – Fax : 081/33.08.11 – E-mail : v.ploper@cwape.be	

1. REGISTRANT		
<u>PHYSICAL PERSON</u>	Name – First name :	
	Occupation :	
	Home address :	
	Nationality :	
<u>ARTIFICIAL PERSON :</u>	Name :	
	Legal form :	
	Registered address:	
<u>PRODUCTION SITE</u>	Name of facilities :	
	Address of production device :	
	Name of company in charge of operations (1) :	
	Contact details of head of operations (Tél. – Fax – e-mail – adresse)	

(1) : in case the facilities are not operated by the registrant.

2. SOURCES	Tick the right box	
	Main source	Secondary source
RENEWABLE ENERGY SOURCES		
⇒ Wind		
⇒ Hydraulic		
⇒ Solar		
⇒ Biomass		
- industrial waste or household and assimilated waste		
- Biomass from agricultural products, residues and waste		
- Biomass from products, residues and waste from forestry and related industries		
- Others (explain):		
⇒ Other :		
FOSSIL ENERGY SOURCES		
⇒ Natural gas		
⇒ Fuel oil		
⇒ Other :		
3. COMMISSIONING DATE :		
4. ELECTRIC and / OR THERMAL OUTPUT		
Net electric power (P_{end})	kW electric	
Net thermal useable power (P_{qnv} - only for CHP)	kW thermal	
Nominal electric efficiency : (α_e = produced electric output divided by primary energy)	%	
Nominal thermal efficiency : (α_q = produced thermal output divided by primary energy)	%	
In case of CHP, is the production device located in a zone where natural gas is available ? YES / NO		
Expected yearly balance :		
Net generated electric energy (E_{enp})	kWh élec.	
Net generated thermal energy (E_{qnv})	kWh therm.	

PLEASE ATTACH THE FOLLOWING DOCUMENTS :

1. In case the registrant is an artificial person :
 - Articles of Association ;
 - Documents demonstrating the authority of the signee
2. Copy of the receipt by an accredited body for the request to inspect the facilities

SIGNED AT (PLACE):

ON (DATE):

NAME OF SIGNED :

SIGNATURE

Annex 6 - Example of Statement of Account

SPECIMEN

H... David
A l'attention de Monsieur David H
Rue du Moulin, 3
1... J...

CERTIFICATS VERTS	
EXTRAIT DE COMPTE DE H..... David	
Date : 30/10/2006	Page : 1/1
Extrait : 2006/2	

Solde de Certificats Verts au 11/05/2006 : +9,063

Type de transaction : Octroi de Certificats Verts

Technologie/Site de production : Hydraulique/120_CHE MOULIN DE J...

Communication : 10/2006 - 12/2006

Nombre de certificats verts (qui seront périmés le 31/12/2011) : +4,077

correspondant à 4,077 MWh verts garantis d'origine le 26/10/2006

Vous trouverez en annexe de la présente, la feuille de calcul relative à cet octroi.

Solde de Certificats Verts au 30/10/2006 : +13,140

J-L. BUISSE
Administrateur
Direction des Obligations
de service public

Annex 7 - Walloon production support scheme in 2007

Introduction

A certificate based support system has been set up in Wallonia in 2002 in order to stimulate investments in green electricity production and brings about realisation of European targets. Reasons for this are:

- (a) Improving security of supply
- (b) Protecting the environment (particularly GHG) and promoting sustainable development
- (c) Beefing up competition on the electricity market
- (d) Fostering local and regional development

This quota system aims to achieve the lowest support cost for the generated energy output.

Definitions

“Production support”: support granted directly to the producer in relation to the generated energy output. The Commission has repeatedly recognised the system applied in Wallonia is no state aid.

“Green electricity”: renewable or quality CHP electricity which gives right to receive partial or total production support.

“Green certificate”: (“certificat vert / grüne Bescheinigung”) support certificate for electricity in Wallonia, based on environmental performance of the generation.

“Label of guarantee of origin”: guarantee of origin according to Directives.

Principles

An excellent introduction to this scheme, which this Chapter summarises, can be found in the Green Certificate Specific Annual Report. Even more details are available in the relevant legislation mentioned in C1.

Suppliers of electricity need to redeem a given quota of green certificates every quarter. They are fined 100 € per missing GC.

Green certificates (GC) are issued to the producer according to the generated electricity and to the environmental performance of the generation (i.e. avoided CO₂ emissions):

$$GC = E_{\text{enp}} \times \tau$$

Where

- E_{enp} is the net generated electricity;
- τ is the avoided CO₂ emission factor. Below 0,1, τ is rounded down to 0; above 2, τ is rounded down to 2. Therefore, τ varies between 0.1 and 2.

This calculation is performed for every generation period. Typical values for τ and for income are given in the table below.

Total turnover for green electricity production is a sum of the following:

- (e) Electricity sales;
- (f) GC sales;
- (g) GO sales.

Green certificates and labels of guarantee of origin are freely tradable from each other as well as from the electricity. Producers, traders and suppliers therefore hold both a GO account and a GC account at CWAPE. Neither is convertible into the other.

Green certificates or their value for quota obligations may be exported or imported from another country or region with quota obligation provided mutual recognition is established. This mutual recognition is currently only in force with the Brussels Region. Technically, only a redemption statement is exported to Brussels.

Table 1 - Turnover a green production device could generate in Wallonia in 2007.

Technology	Typical ranges for coefficient τ ¹⁶	Coefficient τ cap	Capacity cap ¹⁷	Turnover (in € / MWh)			
				GC ¹⁸ (€/MWh)		Electr.	GO
				Min ¹⁹	Max		
Photovoltaic	1-7	1	-	150	700	Market rate	Market rate
Wind power	1		-	65	100		
Hydraulic	1		20 MW	65	100		
Biomass	0.6 to 1	1	20 MW ²⁰	39 to 65	60 to 100		
Biomass Cogeneration	0.7 to 4	2 max up to 5MW ²¹ , 1 above	20 MW	65 to 130	100 to 200		
Fossil Cogeneration	0.1 to 0.4	1	20 MW	-	10 to 40		

Interactions between GC and GO

Distinction between GO’s and GC’s is clear :

- GO’s were created to inform the final customer of the quality or method used to generate the electricity it consumes. Redeeming GO’s is the only way a supplier may market electricity as having a given quality (green, renewable, CHP or whatever) and therefore Disclose its “fuel mix”. A GO may not be used for quota obligations.
 - (a) This purpose of clarity to the final customer explains why GO’s delivered for on-site consumption by autoproducers are redeemed.
- GC’s are designed to stimulate investment in green generation capacity. Redeeming GC’s is the only way a supplier may avoid the penalty for lack of investment in green generation. A GC may not be used to “green” electricity.
- Consequently, one could imagine having
 - (a) A supplier selling only green electricity which is fined for not supporting investment in green generation;
 - (b) A supplier selling only grey electricity which is supporting investment in green generation by purchasing enough GC’s from independent producers or generating green himself.
- According to the qualification criteria, a given MWh may give rise to a GO only (eg. hydro power is renewable but gets no support for MWh above 20 MW), a GC only (eg. a MWh does not reach the threshold of 10% for avoided CO2 emission factor, but simultaneously is recognised a high efficiency CHP; this is quite unlikely) or both a GC and a GO (either RES only, CHP only or both).

Therefore, GC and GO share only a unique registration of the production device, and subsequent inspections; and unique metering data.

¹⁶ Fixed coefficient for solar, wind and hydro, periodically variable coefficient according to performance for others.

¹⁷ Production devices above this threshold receive the number of certificates in proportion of their developed power (eg. A 40 MW plant receives half (=20/40) as many GC a straight calculation would have entitled it to).

¹⁸ Actual GC income depends on price paid for GC. In the last years, market price hovered around 92 €/GC. This price should be compared to GO price which was around 1 € / GO.

¹⁹ A guaranteed price per MWh can be achieved by way of a guaranteed minimum price for the certificate. This minimum price exists for all renewable technologies for 10 years by way of 2 different sureties: an unconditional but low priced one (except for solar) by the Federal Government and a 65€ conditional one by the Regional Government. The conditions are being a new production device, demonstrating the cost premium of generation and contracting with the Region.

²⁰ Except for existing plants (namely the Awirs generation plant near Liège)

²¹ 2 max up to 20 MW for innovative generation plants (subject to governmental and regulatory approvals)

Annex 8 – Redemption Statement

This Redemption Statement is intended for regulators requesting information regarding the usage of the Certificates listed below.

Account Holder	<Electrabel>	Account Number	<04X00000B1>
Address of Account Holder	<Regentlaan 8> <B-1000 Brussels> <Belgium>	Registry Redeemed from	<Country Code> <IB Code> <IB name>
Total of Redeemed Certificates	<60 000>	Total number of MWh represented	<60 000>
Redemption Date	<2003-09-12>	Redemption category	<Disclosure>
		Redemption purpose	<supply of electricity product Y in X Domain in year Z>

Production Device ID	Energy Source	Domain of Origin	Public Support	Additional Remarks by the Issuing Body		
70705230001000XXXX	<onshore wind>	<Norway>	<tax exemption>	<Free text>		
From Certificate ID	To Certificate ID	Certificates	MWh	Production Period from / to	Issue Date	
64206164132250081000XXXXXXXXXX	64206164132250081000XXXXXXXXXX	10 000	10 000	yyyy-mm-dd - yyyy-mm-dd	yyyy-mm-dd	
64206164132250081000XXXXXXXXXX	64206164132250081000XXXXXXXXXX	10 000	10 000	yyyy-mm-dd - yyyy-mm-dd	yyyy-mm-dd	
64206164132250081000XXXXXXXXXX	64206164132250081000XXXXXXXXXX	10 000	10 000	yyyy-mm-dd - yyyy-mm-dd	yyyy-mm-dd	

Production Device ID	Energy Source	Domain of Origin	Public Support	Additional Remarks by the Issuing Body		
707052300012000XXXX	<biomass>	<Austria>	<none>	<Free text>		
From Certificate ID	To Certificate ID	Certificates	MWh	Production Period from / to	Issue Date	
64206164132250081000XXXXXXXXXX	64206164132250081000XXXXXXXXXX	10 000	10 000	yyyy-mm-dd - yyyy-mm-dd	yyyy-mm-dd	
64206164132250081000XXXXXXXXXX	64206164132250081000XXXXXXXXXX	10 000	10 000	yyyy-mm-dd - yyyy-mm-dd	yyyy-mm-dd	
64206164132250081000XXXXXXXXXX	64206164132250081000XXXXXXXXXX	10 000	10 000	yyyy-mm-dd - yyyy-mm-dd	yyyy-mm-dd	