

**Guarantee of Origin RES-E and RECS  
Domain Protocol**

**for  
Finland**

**Prepared by Grexel Systems Ltd.**

**Version 1.0**

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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; the progress made towards targets for the use of sustainable energy technologies; and the production and consumption of energy for the purposes of stimulating investment in sustainable energy plant. Moreover, certification 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 Guarantee of Origin RES-E and RECS Certificate encompasses three phases: issuance, transfer and redemption:
- (a) Electronic Certificates are issued on registries in respect the energy output of Production Devices registered specifically for the purposes of Guarantee of Origin RES-E and RECS.
  - (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 may occur include: in connection with payment from a consumer in recognition of the qualities 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.
- A1.5 A scheme participant is automatically registered as scheme participant of both the GoO RES-E and RECS schemes. Any certificate issued under this Domain protocol will at the same time qualify for GoO RES-E and for RECS.

## **A2 Purpose**

- A2.1 This Domain Protocol sets out the procedures, rights and obligations for Guarantee of Origin RES-E and RECS as used within this Domain.
- A2.2 This Domain Protocol is made binding between the Scheme Participant and Grexel Systems Ltd. by agreement in the form of the Standard Terms and Conditions. The duties under this Domain Protocol are owed specifically between Grexel Systems Ltd. and the Scheme Participant.
- A2.3 The objective is to ensure quality in the robustness and transparency in facilitating Guarantee of Origin RES-E and RECS 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.

## **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 Guarantee of Origin RES-E and RECS Certificates held within the EECS Registration Database of Grexel Systems Ltd. and may only be amended or added to by Grexel Systems Ltd. in accordance with section J below.
- B1.2 This Domain Protocol for Finland applies to Finland, in conjunction with Guarantee of Origin RES-E and RECS Certificates held within the EECS Registration Database.
- B1.3 This Domain Protocol is valid from the date it is approved by AIB general meeting. For old Production Devices, that were registered according to previous Domain Protocol Finland by previous Issuing body, Fingrid, certificates can be issued according to this Domain Protocol for production starting from 1.1.2006. For new installations that were not registered by Fingrid, certificates can be issued for production starting from the date AIB general meeting has accepted this domain protocol and Grexel Systems Ltd. as a Scheme Member.

### **B2 Responsibility**

- B2.1 Grexel Systems Ltd. is responsible for the operation of the Guarantee of Origin RES-E and RECS system for this Domain.
- B2.2 Some of the functions facilitating system operation may be contracted out to approved agents of Grexel Systems Ltd.
- 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 Guarantee of Origin RES-E and RECS Certificates for that Domain. In Finland this function is performed by Grexel Systems Ltd.. The charges for accounts and transactions are shown on the website [www.grexcmo.com](http://www.grexcmo.com).
- B2.4 The CMO is not responsible for the authorisation of Certificates, although it is responsible for 'issuing'; the creation of Certificate records within its registry.

## C Definitions

### C1 This document

C1.1 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	Grexel Systems Ltd. being the person appointed to administer the operation of the EECS Registration Database for the purposes of Guarantee of Origin RES-E and RECS within Finland;
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 Finland to exercise or discharge that function;
Finnish GoO for RES-E	Guarantee of Origin for renewable energy production according to Act on Verification and Notification of Origin of Electricity (1129/2003) and the European Parliament and the Council Renewable Energy Directive (2001-77-EC)
Finnish RECS Certificate	Production Devices approved for GoO RES-E Certificates in Finland, are also approved in accordance with Chapter 2, RECS Certificates, in the PRO. The certificates issued by Grexel Systems Ltd. fulfil the requirements for both GoO RES-E and RECS. A Certificate fulfilling the qualifying criteria of several schemes can only be issued once, with associations to the qualified schemes. RECS, "Renewable Energy Certificate System", is a voluntary system whose trading is governed by AIB and RECS International.
GoO RES-E Certificate	EECS compatible tradable certificate issued by Grexel Systems Ltd. based on Finnish GoO for RES-E. Finnish GoO for RES-E is embedded in the GoO RES-E Certificate and cannot be transferred, redeemed or utilized any way separately.
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 Guarantee of Origin RES-E and RECS within Finland;

## **D Guarantees of Origin (GoO RES-E) and RECS**

### **D1 Scheme Definition**

- D1.1 The European Parliament and the Council Renewable Energy Directive (2001-77-EC) requires the use of Guarantees of Origin to enable Member States to accurately and reliably guarantee the origin of renewable energy according to objective, transparent and non-discriminatory criteria; and to enable producers of renewable energy to demonstrate this. Such guarantees must be mutually recognised by Member States.
- D1.2 The 'Renewable Energy Certificate System' (RECS) enables international trade in the renewable attribute of energy generation by uncoupling environmental value from the associated physical energy. It is a voluntary system whose trading is governed by RECS International.
- D1.3 Grexel Systems Ltd. has been appointed to act as the registration database administrator for GoO RES-E and RECS in Finland.

### **D2 Supplementary Definitions**

- D2.1 This Domain Protocol supplements the terms of the GoO and RECS RES-E Schemes as set out in Act on Verification and Notification of Origin of Electricity (1129/2003).
- D2.2 An EECS Certificate Issued under the GoO and RECS RES-E schemes constitutes a GoO and RECS RES-E Certificate under Act on Verification and Notification of Origin of Electricity (1129/2003) or is derived from and incorporates the relevant electronic data from one or more GoO and RECS RES-E Certificates issued under Act on Verification and Notification of Origin of Electricity (1129/2003).
- D2.3 Renewable Energy shall have the meaning assigned to it by the Directive (2001-77-EC). Electricity produced from Renewable Energy sources is referred to in this document as RES-E.
- D2.4 Guarantee of Origin shall have the meaning assigned to it by the Directive (2001-77-EC).
- D2.5 With respect to RECS Renewable Source Factor shall be defined as: in relation to any Production Device and period of time the proportion expressed as a factor of less than one of the Net Electrical Energy Generation of that Production Device which is RES-E, as specified in the Production Declaration for that Production Device with respect to the period over which the electricity was generated.

### **D3 Qualifying Criteria**

- D3.1 The qualifying criteria for Production Devices are set out in the Directive (2001-77-EC) and are summarised here. In the event of any differences, the definitions of the Directive take precedence.
- (a) All wind turbine devices.
  - (b) All solar devices.
  - (c) Energy from water devices except for pumped storage.
  - (d) All geothermal devices.
  - (e) Biomass devices as defined in the Renewable Energy Directive, the Large Combustion Plants Directive and the Waste Combustion Plants Directive.
- D3.2 For biomass devices deriving energy from waste or by-product sources, only the energy attributable from the non-fossil element will be eligible for Certificates.
- D3.3 The registration of a Production Device shall expire after five years. The Registrant is obliged to re-apply for registration for the Production Device before expiry.
- D3.4 To ensure maintenance of the Qualifying Criteria, a Production Audit will be conducted in relation to each Production Device in Finland which is Registered for the purposes of RECS:
- (a) no less than once every five years; and

- (b) where such Production Device is fuelled in whole or in part by biomass, no less than once a year.

#### D4 **Support Schemes**

- D4.1 Support schemes that are relevant to the operation of the Guarantee of Origin RES-E and RECS schemes are listed in AIB PRO Fact Sheet 3 – Types of Public Support. This document can be viewed at [www.aib-net.org](http://www.aib-net.org) under the section: Association – Documents – Regulation – PRO.
- D4.2 The Registrant of a Production Device must guarantee that the owner of the Production Device, or his agent, will not during the period of its registration for the purposes of Guarantee of Origin RES-E and RECS and for the same unit of electrical energy receive tradable evidence such as Certificates which represent the benefit of RES-E generation from both Guarantee of Origin RES-E and RECS and another similar system that similarly certifies the origin or represents the benefits of the associated renewable electricity and can be exchanged for financial support.
- D4.3 The Registrant of a Production Device must notify Grexel Systems Ltd. whether, and if so what type of, Public Support has been, or is due to be, received by the Production Device.
- D4.4 The Registrant of a Production Device must provide details of any prior infringements by itself or any affiliate of the terms of any Domain Scheme with respect to Guarantee of Origin RES-E and RECS to Grexel Systems Ltd. on application for registration.

#### D5 **Certificate Face Values**

- D5.1 GoO RES-E and RECS Certificates can only be issued with the value of 1 MWh.

#### D6 **Issuing of Guarantee of Origin RES-E and RECS Certificates**

- D6.1 This section is supplemental to the provisions of section G below.
- D6.2 Where a Production Device only produces RES-E, the amount of RES-E determined for the purposes of Guarantee of Origin RES-E and RECS as having been produced by a Production Device shall be the amount of Net Electrical Energy Generation produced by that Production Device.
- D6.3 Where a Production Device produces RES-E and electricity which is not RES-E, the amount of RES-E determined for the purposes of Guarantee of Origin RES-E and RECS as having been produced by a Production Device shall be the amount of Net Electrical Energy Generation produced by that Production Device multiplied by the Renewable Source Factor.
- D6.4 A person submitting a Production Declaration in relation to a Production Device for which one of the sources of energy is pumped water shall be obliged to submit (in respect of the same period as that to which the Production Declaration relates) a Consumption Declaration and to specify therein, the amount of electrical energy consumed in pumping water for use by that Production Device in that period.
- D6.5 A person submitting a Production Declaration in relation to a Production Device for which one of the sources of energy is biomass shall be obliged to submit (in respect of the same period as that to which the Production Declaration relates) a Consumption Declaration and to specify therein:
- (a) the values of  $M^{RE}$ ,  $C^{RE}$ ,  $M^{Non-RE}$  and  $C^{Non-RE}$ ; and
- (b) as the Renewable Source Factor for that period, a factor no greater than L,

Where:

$$L = \frac{M^{RE} \times C^{RE}}{(M^{RE} \times C^{RE}) + (M^{Non-RE} \times C^{Non-RE})}$$

And

$M^{RE}$  is the mass of the Renewable Energy Source for that Production Device during the relevant period

$C^{RE}$  is the average calorific value of the Renewable Energy Source for that Production Device during the relevant period

$M^{Non-RE}$  is the mass of the fuel for that Production Device during the relevant period which is not a Renewable Energy Source

$C^{Non-RE}$  is the calorific value of the fuel for that Production Device during the relevant period which is not a Renewable Energy Source.

- D6.6 Guarantee of Origin RES-E and RECS Certificates can be Issued in respect of output up to the entirety of the RES-E output of a Production Device in any period.
- D6.7 Before GoO RES-E and RECS Certificates are issued, the Registrant of a Production Device must clearly indicate the number of kWh sold or otherwise consumed as green or renewable electricity without the use of EECS certificates (including such consumption by an autoproducer). This must ensure that the GoO RES-E and RECS Certificates issued can provide unique and exclusive evidence of the production of RES-E.
- D6.8 Irrespective of the actual date on which a Guarantee of Origin RES-E and RECS Certificate is issued, the date of Issue of a Guarantee of Origin RES-E and RECS Certificate is the last day on which the energy output to which the Guarantee of Origin RES-E and RECS Certificate relates was generated.
- D6.9 A Guarantee of Origin RES-E and RECS Certificate must indicate:
- (a) whether Public Support is associated with the Originating Production Device; and
  - (b) the nominated capacity (in kW) of the Originating Production Device.

## **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 Guarantee of Origin RES-E and RECS Scheme Participant.
- E1.2 The application form to open an Account can be found in Annex 5 and on the website [www.grexcmo.com](http://www.grexcmo.com).
- E1.3 The Guarantee of Origin RES-E and RECS Scheme Participant must contract with Grexel Systems Ltd. under the Standard Terms and Conditions.
- E1.4 Grexel Systems Ltd. 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.

### **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 Finland in the EECS Registration Database.
- E2.2 The Registrant of the Production Device must provide evidence to the satisfaction of Grexel Systems Ltd. that it has the appropriate authority to register the Production Device and that it can comply with the requirements of the Guarantee of Origin RES-E and RECS Schemes and this Domain Protocol with respect to the imposition of duties on the owner and/or operator of the Production Device. Such evidence being a free form signed authorization from the owner of the Production Device.
- 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) where there are generating auxiliaries associated with that Production Device, details of Import Meter(s) which determine the totality of electricity consumption by the Production Device;
- (i) (irrespective of whether or not there is any intention to use such sources of energy in connection with the Production Device) 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) where at the time of such application it has been commissioned, the date on which that Production Device was 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 Grexel Systems Ltd.;
- (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.

- 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 Guarantee of Origin RES-E and RECS schemes are given in D3 above.
- E2.6 The Registrant must warrant that the information provided to Grexel Systems Ltd. in connection with its application is complete and accurate and that the Production Device meets the qualification criteria for Guarantee of Origin RES-E and RECS.
- E2.7 The Registrant must also provide details of any payments (other than payments arising from the sale of Guarantee of Origin RES-E and RECS Certificates) which have been received by, or are due to accrue to, any person in relation to the Production Device under any of the Public Support schemes identified in D4.1.
- E2.8 The CMO, Grexel Systems Ltd., will respond to the application within 5 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, Grexel Systems Ltd., 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 Guarantee of Origin RES-E and RECS 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, Grexel Systems Ltd. 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 Grexel Systems Ltd. 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.grexcmo.com](http://www.grexcmo.com) 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 Grexel Systems Ltd. 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 Guarantee of Origin RES-E and RECS 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), Grexel Systems Ltd. will evaluate the impact of the changes on the Qualifying Criteria and respond to the Registrant within **5** working days specifying the decision taken.
- E3.3 Where Grexel Systems Ltd. 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 shown that the Production Device no longer qualifies for Guarantee of Origin RES-E and RECS 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 Grexel Systems Ltd. of an intent to close his account using the form shown in Annex 5. The effective date of closure must not be less than **10** working days from the date of receipt by Grexel Systems Ltd..

E4.2 Grexel Systems Ltd. will amend the EECS Registration Database to seal that Account as of the effective date on the request or 10 working days from the date of receipt by Grexel Systems Ltd. whichever is the later.

E4.3 Commercial provisions of closing an account are set in the contract between Grexel Systems Ltd. and the Account Holder.

**E5        **Withdrawing from the Scheme - Deregistering a Production Device****

E5.1 The Registrant must notify Grexel Systems Ltd. of an intent to deregister his Production Device in writing.

E5.2 Commercial provisions of deregistering a Production Device are set in the contract between Grexel Systems Ltd. and the Account Holder.

## **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) Act on Verification and Notification of Origin of Electricity (1129/2003)
  - (b) Government Decree on Verification of Origin of Electricity (1357/2003)
  - (c) Agreement between Production Device Owner and Fingrid concerning issuing Finnish GoO for RES-E
  - (d) Electricity Market Act (386/1995)
  - (e) Finnish Energy Industries' Recommendation for measuring energy output of Production Device connected to Grid (24.10.2005)

### **F2 Data Provision**

- F2.1 If the Registrant wishes to receive Guarantee of Origin RES-E and RECS Certificates for his Production Device in an issuing period he must submit a Production Declaration to Competent Authority (Fingrid) according to Government Decree on Verification of Origin of Electricity (1357/2003). If the Production Device has a single energy source (i.e. excluding biomass and pumped storage hydro), it is only necessary to submit a Production Declaration once in any 12 month period for that Production Device. If the Production Device has multiple energy source (i.e. including all biomass and pumped storage hydro), the Registrant must submit a Production Declaration for every issuing period as defined in G1.3 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) or Authorized Body (See Annex 1 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 or Fingrid):
- (a) Grexel Systems Ltd. shall (provided that such Guarantee of Origin RES-E and RECS Certificates are, at the time of such Withdrawal, in the Transferables Account of that Registrant) Withdraw those Certificates; and
  - (b) the Registrant shall pay Grexel Systems Ltd. the cost of securing the agreement of another Account Holder to the Withdrawal of Guarantee of Origin RES-E and RECS Certificates of the same type from that other Account Holder's Transferables Account,
- so that, as far as reasonably practicable, Guarantee of Origin RES-E and RECS Certificates are withdrawn with a Face Value and a financial value which make good the discrepancy.
- F2.5 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.
- F2.6 Details of Production Data timing, addressing, and format are set in the Agreement between Scheme Participant and Fingrid (Authorized Body and Competent Authority).

## **G PROCESSING OF CERTIFICATES**

### **G1 Issuing for Transfer**

G1.1 Guarantee of Origin RES-E and RECS 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 Finland;
  - (ii) registered in the EECS Registration Database of Grexel Systems Ltd. as qualifying for Guarantee of Origin RES-E and RECS Certificates; and
  - (iii) the Registrant of which does not have any outstanding fees payable to Grexel Systems Ltd. or its agents in conjunction with Guarantee of Origin RES-E and RECS Certificates;
- (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 Guarantee of Origin RES-E and RECS schemes; and
- (c) to an Account Holder who does not have any outstanding fees payable to Grexel Systems Ltd. or its agents in conjunction with Guarantee of Origin RES-E and RECS Certificates.

G1.2 Fingrid (Competent Authority and Authorized Body, Annex 1) issues Finnish GoO for RES-E in electronic form according to EU DIRECTIVE 2001/77/EC, Act on Verification and Notification of Origin of Electricity (1129/2003), and the contract between the owner of the production device/ production aggregator and Fingrid on request from the owner of the production device/ production aggregator. Fingrid shall issue the Finnish GoO for RES-E for net production according to EU DIRECTIVE 2001/77/EC and Act on Verification and Notification of Origin of Electricity (1129/2003) and deliver it to Grexel Systems Ltd. in electronic form according to the contract between Fingrid and Grexel Systems Ltd.. Fingrid delivers only valid Finnish GoO for RES-Es and does not issue Finnish GoO for RES-E for the same production in any other form after it has been delivered to Grexel Systems Ltd. according to the contract between Grexel Systems Ltd. and Fingrid. This prevents double-issuing. Grexel Systems Ltd. shall make the Guarantees of Origin compatible with the EECS standard. For the sake of clarity, once the GoO RES-E and RECS Certificate is issued for certain MWh, Finnish GoO for RES-E and ,GoO RES-E and RECS Certificate cannot be detached from each other. When the GoO RES-E and RECS Certificate for certain MWh is transferred, exported, or redeemed, Finnish GoO for RES-E cannot be transferred, exported, or redeemed separately for the same MWh and consequently no double selling is possible.

G1.3 Subject to G1.1 above and G1.2 above Guarantee of Origin RES-E and RECS Certificates are issued on demand of the Registrant against energy data in accordance with F2.2 above.

G1.4 Only persons duly authorised by the Registrant may request the issue of Guarantee of Origin RES-E and RECS Certificates in relation to the output of that Production Device.

G1.5 Grexel Systems Ltd. receives Production Declaration from Competent Authority (Fingrid) together with Finnish GoO for RES-E data. Grexel Systems Ltd. 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 Guarantee of Origin RES-E and RECS Certificate is Issued in respect of the same qualifying energy output.

G1.6 The CMO will deposit the Certificates in the Transferables Account nominated by the Registrant within the EECS Registration Database no later than 1 working day after the receipt of a valid Production Declaration and Finnish GoO for RES-E and the Account Holder will be notified accordingly.

G1.7 The Guarantee of Origin RES-E and RECS Certificates shall be issued in such format as may be determined by AIB from time to time.

G1.8 A Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS Account Holder can hold Guarantee of Origin RES-E and RECS Certificates in an account within the EECS Registration Database for Finland.

On request the CMO will open an account within 5 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 Guarantee of Origin RES-E and RECS Certificates in another Domain through the website [www.grexcmo.com](http://www.grexcmo.com).

G2.3 Only persons duly authorised by the Account Holder may request the transfer of Guarantee of Origin RES-E and RECS 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, Grexel Systems Ltd. will, having confirmed that the Transfer Request is valid:

- (a) remove from that Transferables Account the details of the Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS Certificate(s) referred to in (a) above in the Transferee's Transferables Account;
  - (ii) confirm, to the Transferor, the identity of the Guarantee of Origin RES-E and RECS Certificates so transferred and any Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS 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 Grexel Systems Ltd. is notified by another EECS Registration Database operator of a Transfer Request including details of a Guarantee of Origin RES-E and RECS Certificate which are consistent with the Transfer Criteria for Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS 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 Grexel Systems Ltd. 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 Guarantee of Origin RES-E or RECS 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, Grexel Systems Ltd. will use reasonable endeavours to exchange information such that the Guarantee of Origin RES-E and RECS Certificate can be rendered compliant with the Guarantee of Origin RES-E and RECS for Finland or the correct account number identified (as the case may be), failing which:

- (a) the full details of the Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS Certificate is no longer recorded as having been exported; and
- (b) all details of the Guarantee of Origin RES-E and RECS Certificate shall be removed from the other EECS Registration Database.

G2.7 Where:

- (a) Grexel Systems Ltd. receives a Transfer Request in respect of a Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS,

the details of the Guarantee of Origin RES-E and RECS Certificate referred to in G2.4(c)(ii) above will be amended to remove any identifier indicating that the certificate is a Guarantee of Origin RES-E and RECS Certificate.

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

- (a) A request for transferral of Guarantee of Origin RES-E and RECS Certificates to an account in the same EECS Registration Database will be executed immediately.
- (b) On a request for transferral of Guarantee of Origin RES-E and RECS Certificates to an account in a different EECS Registration Database, the export message will be sent to the receiving CMO within 2 working days.
- (c) On receiving an export message, the CMO will execute that message within 2 working days.
- (d) A request for transferral of Guarantee of Origin RES-E and RECS Certificates to an account in a Registration Database that is outside the EECS network will be executed within 2 working days.

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 Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS Certificate cannot be moved to any other account.
- G3.2 Only persons duly authorised by the Account Holder may request the redemption of Guarantee of Origin RES-E and RECS Certificates out of that Account Holder's Transferables Account and into its Redemption Account. The request is given electronically through the web site [www.grexcmo.com](http://www.grexcmo.com).
- G3.3 A redemption request can be made by a person duly authorised by the Account Holder to transfer Guarantee of Origin RES-E and RECS Certificates out of that Account Holder's Transferables Account and into the Redemption Account of a Redeeming Body. A redemption request is done using the redemption functionality on [www.grexcmo.com](http://www.grexcmo.com).
- G3.4 On receipt of valid redemption request, Grexel Systems Ltd. will:
- (a) remove the details of that Guarantee of Origin RES-E and RECS Certificate from that Transferables Account;
  - (b) insert the details of that Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS Certificate certifying that it has been Redeemed; and
  - (c) provide details of the Redeemed Guarantee of Origin RES-E and RECS Certificate to the Redeeming Body and its auditors where requested to do so.
- G3.5 A request for redemption of a Guarantee of Origin RES-E and RECS Certificate will be executed within 1 working day.
- G3.6 On request from an Account Holder, the CMO will produce a standard format, non-transferable, redemption statement within 1 working day. The request should include the following details:
- (a) The Guarantee of Origin RES-E and RECS Certificates to be redeemed.
  - (b) The recipient of those Certificates, if not the Account Holder.
  - (c) Any other information to be included on the statement
  - (d) The production/issuing date if not sufficiently identified in (a) above.
- G3.7 According to the request, the statement will include some or all of the Certificates held in that Account Holder's Redemption Account that have not previously been included on such a statement.

The format of the redemption statement is shown in Annex 6 to this document.

### **G4 Splitting**

- G4.1 An Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS Certificates identical with that Guarantee of Origin RES-E and RECS Certificate in every respect save as to their denominations in MWh and any unique identification numbers. The aggregated Face Values of the replacement Guarantee of Origin RES-E and RECS Certificates will be the same as the Face Value of the original Guarantee of Origin RES-E and RECS 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 Grexel Systems Ltd. may Withdraw a Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E or RECS schemes, thereby cancelling it.

## **G6 Errors**

G6.1 Where an error is introduced (subsequent to its Issue) into, or with respect to, a Guarantee of Origin RES-E and RECS 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,

Grexel Systems Ltd. will correct the error in or with respect to that Guarantee of Origin RES-E and RECS Certificate and any errors replicated in Guarantee of Origin RES-E and RECS Certificates split from it, provided that such Guarantee of Origin RES-E and RECS Certificate(s) have not been transferred out of that Transferables Account.

G6.2 Grexel Systems Ltd. may Withdraw or alter a Guarantee of Origin RES-E and RECS 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 Grexel Systems Ltd. may alter a Guarantee of Origin RES-E and RECS 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 Guarantee of Origin RES-E and RECS 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.

# H MONITORING AND REPORTING

## H1 Monitoring

- H1.1 The Registrant, on behalf of the owner and operator, of a Production Device must permit Grexel Systems Ltd., 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 Grexel Systems Ltd., 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. Grexel Systems Ltd. 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 Grexel Systems Ltd., 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, Grexel Systems Ltd. has a duty to publish information in relation to the activities of that market.
- H2.2 Each Production Auditor will report to Grexel Systems Ltd. every 6 months specifying the auditing measures it has carried out in the preceding 6 months.
- H2.3 Grexel Systems Ltd. will publish an activity report no less than once every three months on the number of Guarantee of Origin RES-E and RECS Certificates which, within the preceding three calendar months:
- (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 Guarantee of Origin RES-E and RECS schemes within Finland.

### H3 **Exception Reporting**

H3.1 Where as a consequence of an inspection conducted pursuant to H1 above, Grexel Systems Ltd. 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, Grexel Systems Ltd. will:

- (a) take such action as is necessary to secure that Guarantee of Origin RES-E and RECS 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 Grexel Systems Ltd. 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 Grexel Systems Ltd. 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 Grexel Systems Ltd. is aware and which, in its reasonable opinion, amounts to a breach of Competition Law, or other applicable laws.

H3.3 Grexel Systems Ltd. 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 Grexel Systems Ltd.. The full list of approved Production Auditors is given on the website [www.grexcmo.com](http://www.grexcmo.com).
- I1.3 To be a Production Auditor, the company must gain approval from Grexel Systems Ltd.. The operation of the Production Auditor is under the control of Grexel Systems Ltd. and the Association of Issuing Bodies.
- I1.4 The Registrant of the Production Device may nominate a Production Auditor from the list on the website [www.grexcmo.com](http://www.grexcmo.com). Such a Production Auditor must be independent of the owner or the Registrant of the Production Device.
- I1.5 The Production Auditor will receive information about the issued Guarantee of Origin RES-E and RECS Certificates from Grexel Systems Ltd. and the registered information relating to the Production Device for the period being reviewed. The Production Auditor 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 Grexel Systems Ltd. as soon as possible.
- I1.7 A Production Auditor may also perform 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. Grexel Systems Ltd. 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 on the website [www.grexcmo.com](http://www.grexcmo.com).
- I2.3 The structure of charges to the applicant for this service and verification timings for each Production Registrar are shown on the website [www.grexcmo.com](http://www.grexcmo.com).
- I2.4 The Registrant, on behalf of the owner and operator, of a Production Device must permit Grexel Systems Ltd., 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 may also perform the role of Production Auditor.

## **I3 Measurement Body / Authorized Body**

- I3.1 A Measurement Body / Authorized Body is an organisation responsible for the collection of metering data relating to the output of the Production Device.
- I3.2 The Measurement Body and Authorized Body, approved to provide data for Guarantee of Origin RES-E and RECS in Finland is Fingrid.

## **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 Grexel Systems Ltd..
- J1.3 On receipt of such a request, Grexel Systems Ltd. will:
- (a) Respond to the request within 10 working days, describing the procedures to be followed, and estimating when a reply can be expected;
  - (b) Consult with the other Guarantee of Origin RES-E and RECS Scheme Participants within Finland;
  - (c) Decide whether the request and its consequences are in its opinion reasonable;
  - (d) Inform the Guarantee of Origin RES-E and RECS Scheme Participants within Finland the outcome of this decision.
- J1.4 Grexel Systems Ltd. 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.grexcmo.com](http://www.grexcmo.com).

## **K ASSOCIATION OF ISSUING BODIES**

### **K1 Membership**

- K1.1 Grexel Systems Ltd. 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 Guarantee of Origin RES-E and RECS 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 Grexel Systems Ltd. or one of its agents failing to maintain the quality standard, there may be a suspension of Guarantee of Origin RES-E and RECS Certificate issuing and/or international transfers into or out of Finland.
- K1.4 Should Grexel Systems Ltd. decide to withdraw from AIB membership in respect of Guarantee of Origin RES-E and RECS in Finland, 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 and Certificate Authority

Company	Grexel Systems Ltd.
Contact Person	Marko Lehtovaara
Address	Itämerenkatu 5, FI-00180 HELSINKI
Country	Finland
Phone number	+358 9 4241 3161
Email address	Marko.Lehtovaara@grexel.com

### Authorized Body and Competent Authority

Company	Fingrid Oyj
Contact Person	Pentti Säynätjoki
Address	P.O. Box 530, FI-00101 HELSINKI
Country	Finland
Phone number	+358 30 395 5275
Email address	Pentti.Saynatjoki@fingrid.fi

### Production Registrars

List can be found at [www.grexcmo.com](http://www.grexcmo.com).

### Production Auditors

List can be found at [www.grexcmo.com](http://www.grexcmo.com).

## Annex 2 – Registration Form

<b>Registrant of Production Device</b>			
Owner: <input type="checkbox"/>	Registrant: <input type="checkbox"/>	Declaration of changes <sup>1</sup> <input type="checkbox"/>	
Name:	Contact person:		
Street:	Postal code:		
City:	Phone #:		
Country:	ERD <sup>2</sup> account # <sup>3</sup> :		Fax #:
e-mail:			
Issuing Body:			
<b>Production Device</b>			
Street:			
City:		Postal code:	
Country:			
Grid reference:		ID for meter readings: <input type="checkbox"/>	
Production Device is connected directly to the grid:			
If the Production Device is <i>not</i> connected directly to the grid, specify the circumstances, and additional relevant meter registration numbers:			
Installed capacity, MW:		Date of commissioning:	
<b>Energy source</b>			
Wind – onshore <input type="checkbox"/>	Hydro – conventional <input type="checkbox"/>	Geothermal <input type="checkbox"/>	
Wind – offshore <input type="checkbox"/>	Hydro – pumped storage <input type="checkbox"/>	Tidal - onshore <input type="checkbox"/>	
Solar- photovoltaic <input type="checkbox"/>	Wave - onshore <input type="checkbox"/>	Tidal - offshore <input type="checkbox"/>	
Solar - thermal <input type="checkbox"/>	Wave - offshore <input type="checkbox"/>		
Biomass:		Burning value - GJ/tonne	
- energy crops <input type="checkbox"/>	- municipal waste <input type="checkbox"/>	Burning value - GJ/tonne	
- forestry/agricultural waste <input type="checkbox"/>	- industrial waste <input type="checkbox"/>		
- landfill gas <input type="checkbox"/>	- sewage gas <input type="checkbox"/>		
Fossil <input type="checkbox"/>	Efficiency, % - if multiple fuels:		
<b>Public Support schemes</b>			
No Support <input type="checkbox"/>	Investment Aid <input type="checkbox"/>	Tax reduction in heat production <input type="checkbox"/>	Rebate of electricity tax <input type="checkbox"/>

<sup>1</sup> Highlight changed data on declaration of changes. <sup>2</sup> ERD = EECS Registration Database. <sup>3</sup> Optional.

Place	Date	Verified by
Signature Registrant		Production Registrar

Authorised personnel	

By undersigning this registration form the Registrant also reaffirms the relevant requirements of the Domain Protocol:

- The Registrant is authorised by the owner of the Production Device, which is the object of this registration form to so register that Production Device for Guarantee of Origin RES-E and RECS in Finland.
- The electrical energy produced by the Production Device is produced according to the Qualifying Criteria set out in D3 of the Domain Protocol for Guarantee of Origin RES-E and RECS in Finland and will in addition be supported by such other criteria as may be from time to time prescribed by the scheme authority or CMO responsible for the Domain within which the Production Device lies.

- The signatory will claim certificates only for electricity from renewable energy sources which has not been sold or otherwise consumed as green or renewable electricity (including such consumption by autoproducer and electricity for which other evidence of the production of electricity from renewable energy sources has been issued).
- The information given in this registration form is truthful and exhaustive.
- Any planned changes concerning the information given in this registration form will be announced in advance to the Production Registrar and the CMO. Any unplanned changes will be announced to the Production Registrar and the CMO at the first possible occasion.
- The owner of the production device and the Registrant as his agent accept the possibility of unannounced control and auditing visits to their own premises and/or the premises of the production device, as prescribed in the Domain Protocol for Guarantee of Origin RES-E and RECS in Finland.

## Annex 3 – Energy Source Types and Technology Types

Source	Technology	Type	Code
Wind	Wind turbine	Onshore	01
		Offshore	02
Solar	Photovoltaic		03
	Thermal		04
Energy from water	Hydro power		05
	Tidal energy	Onshore	06
		Offshore	07
	Wave energy	Onshore	08
		Offshore	09
	Geothermal		
Biomass, using gasification and non-gasification technologies	Energy crops		11
	Forestry and agricultural by-products and waste		12
	Biogas	Landfill gas	13
		Sewage gas	14
		Other	15
	Energy from by-products and waste (with varying levels of filtration)	Municipal solid waste	16
		Industrial by-products and commercial waste	17

# Annex 4 – Production and Consumption Declaration

## Production and Consumption Declaration

Production device: \_\_\_\_\_

Production device ID: \_\_\_\_\_

### A) Multi-fuel plants:

We hereby declare, that the multi-fuel production device under our control, has used fuels for the production of electricity as follows, and request that the fuels used are declared on the Guarantee of Origin and RECS certificates we receive. The fuels are declared in accordance with the act and decree regulating guarantees of origin to the part that these are used for the production of electricity.

Year:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Renewable energy source (MWh)</b>												
Sum	0	0	0	0	0	0	0	0	0	0	0	0
<b>Other fuels (MWh)</b>												
Sum	0	0	0	0	0	0	0	0	0	0	0	0
<b>Production data of the device (MWh)</b>												
Gross production												
Total electricity consumed												
Own consumption %												
Net production												
Renewable energy %	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Renewable energy	0	0	0	0	0	0	0	0	0	0	0	0

### B) Pumped storage hydro production:

**Pumped storage hydro production: The percentage share of the total electricity produced during the associated period of production that is based on the renewable energy sources**

The figures below refers to:

	Year	Month
a. Total electricity generated this period	_____	_____ GWh
b. Total electricity consumed this period	_____	_____ GWh
c. Total potential energy resulting from previous period pumping	_____	_____ GWh
d. Overall efficiency of pumping/generating	_____	_____ %
Total natural inflow derived energy (= a - c - b/d)	_____	_____ GWh

**C) This declaration is to be considered the fuel declaration required by the RECS system.**  (Check the box)

\_\_\_\_\_  
Signatory

\_\_\_\_\_  
Place and time:

\_\_\_\_\_  
Company

# Annex 5 – Account Application/Amendment Form

Application for account opening/amendment in Finland for Guarantee of Origin RES-E and RECS Certificates.

<b>Applicant/Account Holder Name:</b>	
<b>Account Number (if existing):</b>	
<b>Address:</b>	
<b>Primary contact details:</b>	
<b>Name:</b>	
<b>Telephone:</b>	
<b>Email:</b>	
<b>Effective date:</b>	
<b>Authorised personnel</b>	

The applicant/Account Holder requests:

Open new Transferables Account

Open new Redemption Account

Amend authorised personnel on this account to only those shown above

Amend Account Holder contact details

Close account

The applicant agrees to abide by the regulations governing Guarantee of Origin RES-E and RECS including the provisions and requirements the Domain Protocol for Finland and the Standard Terms and Conditions of participation.

**Signed** .....

In the position of .....

**Date** .....

## Annex 6 – Redemption Statement



### EECS GoO and RECS Redemption Statement

With this Redemption Statement the indicated type of Certificates are no longer tradable. Onward sale of this Redemption Statement is prohibited.

#### Basic Data

<b>Account Holder</b>	<name> e.g. Electrabel
<b>Address of Account Holder</b>	<street> e.g. Regentlaan 8 <zip><location> e.g. B-1000 Brussels <country> e.g. Belgium
<b>Account Number</b>	<account number> e.g. 04X00000B1
<b>Redemption Date</b>	<date> e.g. 2003-09-12
<b>Redeemed by</b>	<Country Code> e.g. FI, <IB Code> e.g. 04, <IB> e.g. Fingrid
<b>Unique Statement Number</b>	<> e.g. 042003091200001
<b>Number of redeemed certificates</b>	<> e.g. 100
<b>Number of MWh represented</b>	<> e.g. 100 000
<b>Redemption purpose</b>	<> e.g. Quota fulfilment on behalf of customer in x Domain in year Z

#### Legend

Certificate Type			Code	
RECS			1	
Guarantee of Origin of electricity, produced from renewable energy sources			2	
Guarantee of Origin of electricity from high efficient cogeneration			3	
Energy Source	Technology	Type	Code	
Wind	Wind Turbine	Onshore	01	
		Offshore	02	
Solar	Photovoltaic		03	
	Thermal		04	
Energy from water <sup>1</sup>	Hydro power		05	
	Tidal energy	Onshore	06	
		Offshore	07	
Wave energy	Tidal energy	Onshore	08	
		Offshore	09	
Geothermal			10	
Biomass, using gasification and non-gasification technologies <sup>2</sup>	Energy crops		11	
	Forestry and agricultural by-products and waste		12	
	Biogas	Landfill gas		13
		Sewage gas		14
		Other		15
	Energy from by-products and waste (with varying levels of filtration) <sup>3</sup>	Municipal solid waste		16
		Industrial by-products and commercial waste		17
Support Type / Description			Code	
No support			0	
Investment support			1	
Production support			2	
Combination of Investment and Production support			3	

<sup>1</sup> Pumped hydro power is excluded

<sup>2</sup> As defined in the Large Combustion Plants Directive and the Waste Combustion Plants Directive

<sup>3</sup> Note that certificates will only be issued for the estimated non-fossil proportion (i.e. excluding plastics) of energy from by-products and waste

## EECS GoO and RECS Redemption Statement

### Production Device Information

	Production Device ID	Domain of Origin	Certificate Type	Energy Source	Support Type	Installed capacity MW	Additional Remarks by the Issuing Body
1	70705230001000XXXXX	NO	1 and 2	03	0	12	
2	70705230001000XXXXX	NO	3	11	1	500	
3	70705230001000XXXXX	NO	2	05	3	0.76	

### Redeemed Certificates

	From Certificate ID	To Certificate ID	Number of Certificates	Number of MWh Represented	Issuing Date	Production Period from / to
1	64206164132250081000XXXXXXXXXXXXX	64206164132250081000XXXXXXXXXXXXX	100	100 000	yyyy-mm-dd	yyyy-mm-dd - yyyy-mm-dd
2	64206164132250081000XXXXXXXXXXXXX	64206164132250081000XXXXXXXXXXXXX	100	100 000	yyyy-mm-dd	yyyy-mm-dd - yyyy-mm-dd
3	64206164132250081000XXXXXXXXXXXXX	64206164132250081000XXXXXXXXXXXXX	100	100 000	yyyy-mm-dd	yyyy-mm-dd - yyyy-mm-dd