

**Disclosure
Domain Protocol**

**for
Sweden**

**Prepared by Grexel System Ltd.
Based on Domain Protocol template: v1.3a**

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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 Disclosure 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 Disclosure.

(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.

A2 Purpose

A2.1 This Domain Protocol sets out the procedures, rights and obligations for Disclosure 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 Disclosure 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 Disclosure 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 Sweden applies to Sweden, in conjunction with Disclosure Certificates held within the EECS Registration Database.

B2 Responsibility

- B2.1 Grexel Systems Ltd. is responsible for the operation of the Disclosure 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 Disclosure Certificates for that Domain. In Sweden this function is performed by Grexel Systems Ltd. The charges for accounts and transactions are shown on the website 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 Disclosure within Sweden;
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 Sweden to exercise or discharge that function;
Disclosure Certificate	EECS compatible tradable certificate issued by Grexel Systems Ltd. based on metering data as supplied by a Measurement Body. Disclosure Certificates cannot be issued for production eligible for Elcert and/or paper form guarantees of origin.
Elcert	<p>Swedish national support certificate trading scheme. The same MWh that is eligible for Elcert can also have a Swedish GO for RES-E. Elcert can be issued for following energy types:</p> <ul style="list-style-type: none"> • Wind • Solar • Wave • Geothermal • Biomass: <ul style="list-style-type: none"> ○ Energy crops ○ Forestry by-products and waste ○ Landfill gas ○ Sewage gas ○ Other biogas ○ Waste wood • Small hydro (installed capacity < 1 500 kW) • Large hydro with commission date equal to or greater than 1st January 2003 • Large hydro that is renovated after 30th April 2003 so that energy output of the installation has increased; the increased energy output is eligible for Elcert. After an application from the producer, the Swedish Energy Agency (STEM) approves the measures for increasing the capacity, according to the regulated procedures, and a percentage of the total new production as the increased production eligible for Elcert. The percentage is applied by Svenska Kraftnät to the metered values from the production plant and for this volume Elcerts are issued. The remaining metered values as basis for EECS GO and RECS are passed over to GREXCMO. • Peat used in CHP
Net Electrical	the gross electricity production of a Production Device as evidenced by measured values collected and determined by an Authorised Body (or

Energy Generation	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;
Paper form Guarantees of origin	Paper form GOs can in Sweden be issued for production eligible for Elcert with the exception of peat-fired CHP. Also the fuels Waste and by-products from agriculture, Household waste and Industrial waste are eligible for paper form GOs according to Act on Guarantees of Origin for Highly Efficient CHP and Renewable Electricity (SFS 2006:329).
Scheme Participant	an Account Holder or a Registrant of a Production Device on the EECS Registration Database for the purposes of Disclosure within Sweden;

D EECS DISCLOSURE CERTIFICATES

D1 Scheme Definition

- D1.1 The European Parliament and the Council Renewable Energy Directive (2003-54-EC) requires electricity retailers to disclose the fuel mix of their sources of electricity. EECS Disclosure Certificates provide an auditable evidential mechanism for the transfer of generation attributes between generators and retailers. EECS Disclosure Certificates can be applied to all forms of electricity production.
- D1.2 Grexel Systems Ltd. has been appointed to act as the registration database administrator for EECS Disclosure Certificates in Sweden.

D2 Supplementary Definitions

- D2.1 This Domain Protocol supplements the terms of Disclosure as set out in the electricity act SFS 1997:857 as amended in SFS 2005:404 and SFS 2005:1110, chapter 8, sections 12 and 13..
- D2.2 In addition to EECS Disclosure Certificates, RECS Certificates and GoO RES-E Certificates may be used for purposes of Disclosure.

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 Sweden (including the requirements of this Domain Protocol);
 - (c) the Production Device satisfies the legislative and administrative requirements applicable in Sweden (including the requirements of this Domain Protocol);
 - (d) the Production Device is nuclear or utilises fossil fuels..
- D3.2 EECS Disclosure Certificates will not be issued for:
- (a) any electrical energy which has been found not to be generated from the energy source claimed by the Registrant of the Originating Production Device; or
 - (b) any Production Device which is not registered for the purposes of EECS Disclosure Certificates in the EECS Registration Database; or
 - (c) any electrical energy, of which the measured value has not been collected and determined by an Authorised Measurement Body.
 - (d) peat-fired CHP plants.
 - (e) any production eligible for Elcert and/or paper form guarantees of origin, renewable guarantees of origin or RECS certificates.
- D3.3 Subject to E3 below, the qualifying period of registration for the purposes of Disclosure 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 Schemes

- D4.1 Support schemes are not directly relevant to the operation of the EECS Disclosure Certificate scheme in Sweden, but support information is held within the EECS Registration Database.

D5 Certificate Face Values

D5.1 EECS Disclosure Certificates can be Issued with the following Face Values:

1MWh

D6 Multiple Fuel Production Devices

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

D7 Issuing of Disclosure certificates

D7.1 Before Disclosure Certificates are issued, the Registrant of a Production Device must clearly indicate the number of kWh sold or otherwise consumed under another labeling scheme without the use of EECS certificates (including such consumption by an autoproducer). This must ensure that the Disclosure Certificates issued can provide unique and exclusive evidence of the production of electricity.

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 Disclosure Scheme Participant.
- E1.2 The application form to open an Account can be found in Annex 5 and on the website www.grexcmo.com.
- E1.3 The Disclosure 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 Sweden 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 Disclosure 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 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.
- (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 Disclosure scheme are given in **Error! Reference source not found.**
- 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 Disclosure.
- E2.7 The Registrant must also provide details of any payments (other than payments arising from the sale of Disclosure 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 Disclosure 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 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 Disclosure 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 show that the Production Device no longer qualifies for Disclosure 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) Ordinance (STEMFS 2001:3 and later amendments) by the Swedish Energy Agency (the regulator) according to authorisation of the government. The ordinance stipulates the conditions for metering.

F2 Data Provision

F2.1 If the Registrant wishes to receive Disclosure Certificates for his Production Device in an issuing period, he must submit a Production Declaration to Grexel Systems Ltd. at least once in any 12 month period. If the production device uses a single fuel, the metering data referred to in section F2.8 shall be considered to be a production declaration.

The Production Declaration form can be found in Annex 4 to this Domain Protocol.

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) Grexel Systems Ltd. shall (provided that such Disclosure 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 Disclosure Certificates of the same type from that other Account Holder's Transferables Account,

so that, as far as reasonably practicable, Disclosure Certificates are withdrawn with a Face Value and a financial value which make good the discrepancy.

F2.5 The Registrant must provide metering data for his Production Device for the entire duration of registration of that Production Device (regardless of whether the generation is eligible or certificates are required).

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:

$$L^i = \frac{\sum_j M^i \times C^i}{\sum_i M^i \times C^i}$$

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.

F2.8 The metering data is delivered to Grexel Systems Ltd. by a Measurement Body, in the MSCONS format and at least once a year.

G PROCESSING OF CERTIFICATES

G1 Issuing for Transfer

- G1.1 Disclosure 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 Sweden;
 - (ii) registered in the EECS Registration Database of Grexel Systems Ltd. as qualifying for Disclosure Certificates; and
 - (iii) the Registrant of which does not have any outstanding fees payable to Grexel Systems Ltd. or its agents in conjunction with any EECS Scheme 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 Disclosure scheme; and
 - (c) to an Account Holder who does not have any outstanding fees payable to Grexel Systems Ltd. or its agents in conjunction with any EECS Scheme Certificates.
- G1.2 Subject to G1.1 above Disclosure Certificates are issued on demand of the Registrant against energy data in accordance with F2.2 above, if nothing else is agreed between the issuer and the Registrant.
- G1.3 Only persons duly authorised by the Registrant may request the issue of Disclosure Certificates in relation to the output of that Production Device.
- G1.4 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 Disclosure Certificate is Issued in respect of the same qualifying energy output.
- G1.5 One Disclosure 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.
- G1.6 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 the Account Holder will be notified accordingly.
- G1.7 The Disclosure Certificates shall be issued in such format as may be determined by AIB from time to time.
- G1.8 A Disclosure 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 Disclosure Account Holder can hold Disclosure Certificates in an account within the EECS Registration Database for Sweden.
- 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 Disclosure Certificates in another Domain through the website www.grexcmo.com.

- G2.3 Only persons duly authorised by the Account Holder may request the transfer of Disclosure 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 Disclosure 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 Disclosure Certificate(s) referred to in (a) above in the Transferee's Transferables Account;
 - (ii) confirm, to the Transferor, the identity of the Disclosure Certificates so transferred and any Disclosure 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 Disclosure 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 Disclosure 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 Disclosure 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 Disclosure 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 Disclosure Certificate which are consistent with the Transfer Criteria for Disclosure 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 Disclosure 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 Disclosure 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 Disclosure 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 Disclosure Certificate can be rendered compliant with the Disclosure for Sweden or the correct account number identified (as the case may be), failing which:
- (a) the full details of the Disclosure 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 Disclosure Certificate is no longer recorded as having been exported; and

- (b) all details of the Disclosure 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 Disclosure 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 Disclosure,

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

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

- (a) A request for transferral of Disclosure Certificates to an account in the same EECS Registration Database will be executed immediately.
- (b) On a request for transferral of Disclosure 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 Disclosure 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 Disclosure 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 Disclosure Certificate cannot be moved to any other account.

G3.2 Only persons duly authorised by the Account Holder may request the redemption of Disclosure 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.

G3.3 A redemption request can be made by a person duly authorised by the Account Holder to transfer Disclosure Certificates out of that Account Holder's Transferables Account and into the Redemption Account of a Redeeming Body. A redemption request is made using the redemption functionality on www.grexcmo.com.

G3.4 On receipt of valid redemption request, Grexel Systems Ltd. will:

- (a) remove the details of that Disclosure Certificate from that Transferables Account;
- (b) insert the details of that Disclosure 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 Disclosure Certificate certifying that it has been Redeemed; and
- (c) provide details of the Redeemed Disclosure Certificate to the Redeeming Body and its auditors where requested to do so.

G3.5 A request for redemption of a Disclosure 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 Disclosure 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**

Not applicable.

G5 **Withdrawals**

G5.1 Grexel Systems Ltd. may Withdraw a Disclosure 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 Disclosure scheme, thereby cancelling it.

G6 **Errors**

G6.1 Where an error is introduced (subsequent to its Issue) into, or with respect to, a Disclosure 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 Disclosure Certificate and any errors replicated in Disclosure Certificates split from it, provided that such Disclosure Certificate(s) have not been transferred out of that Transferables Account.

G6.2 Grexel Systems Ltd. may Withdraw or alter a Disclosure 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 Disclosure 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 Disclosure 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 Disclosure 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 Disclosure scheme within Sweden.

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 Disclosure 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 applicable law governing the conduct of financial markets.
- 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 in Annex 1 to this document and on the website 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 in Annex 1. 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 Disclosure 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 in Annex 1 to this document and on the website 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.
- 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

- 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 full list of Measurement Bodies, approved to provide data for Disclosure in Sweden is given in Annex 1 to this document and on the website www.grexcmo.com.

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 Disclosure Scheme Participants within Sweden;
 - (c) Decide whether the request and its consequences are in its opinion reasonable;
 - (d) Inform the Disclosure Scheme Participants within Sweden 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.

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 Disclosure 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 Disclosure Certificate issuing and/or international transfers into or out of Sweden.
- K1.4 Should Grexel Systems Ltd. decide to withdraw from AIB membership in respect of Disclosure in Sweden, 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	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

Mesaurement Body

Company	Svenska kraftnät
Contact Person	Inga-Lill Åkerström
Address	Svenska Kraftnät, Box 526, SE-162 15 Vällingby
Country	Sweden
Phone number	+ 46 8 739 78 00
Email address	Inga-Lill.Akerstrom@svk.se

Production Registrars & Production Auditors

A list can be found at www.grexcmo.com.

- 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 Disclosure in Sweden.

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.

Disclosure (Scheme: EECS-Disclosure)

Source	Technology	Type	Combustible?	CO ₂ ⁸ (kg/GJ)	Code	
Fossil	Solid fuel	Anthracite	Yes	98.3	50	
		Coking coal	Yes	94.0	51	
		Coking coal (used in coke oven)	Yes	95.4	52	
		Coking coal (used in blast furnace)	Yes	89.8	53	
		Other bituminous coal	Yes	94.7	54	
		Sub-bituminous coal	Yes	96.1	55	
		BKB and Patent Fuel	Yes	94.6	56	
		Coke Oven / Gas Coke	Yes	111.9	57	
		Oil shale	Yes	106.7	58	
		Lignite / lignite brickettes	Yes	101.2	59	
		Peat / peat brickettes	Yes	106.0	60	
	Gases	Natural gas	Yes	56.1	61	
		Carbon monoxide	Yes	155.2	62	
		Methane	Yes	54.9	63	
		Hydrogen	Yes	0.0	64	
		Phosphor gas	Yes	149.5	65	
		Oxy gas	Yes	191.9	66	
		Blast furnace gas	Yes	247.4	67	
		Coke oven gas	Yes	41.2	68	
	Liquid fuel	Oil	Gas/diesel oil	Yes	74.3	70
			Residual fuel oil	Yes	77.4	71
			LPG	Yes	66.7	72
		Other oils	Crude oil	Yes	73.3	73
			Orimulsion	Yes	80.7	74
			Natural gas liquids	Yes	63.1	75
			Gasoline	Yes	72.0	76
			Jet kerosene	Yes	71.5	77
Other kerosene			Yes	71.9	78	
Shale oil	Yes	73.3	79			

⁸ This reflects the IPCC statistics where available, and otherwise the Dutch table of standard CO₂ emission factors for energy production

Source	Technology	Type	Combustible?	CO ₂ ⁸ (kg/GJ)	Code
		Ethane	Yes	61.6	80
		Naphtha	Yes	73.3	81
		Bitumen	Yes	80.7	82
		Lubricants	Yes	73.3	83
		Petroleum coke	Yes	100.8	84
		Refinery feedstocks	Yes	73.3	85
		Refinery gas	Yes	66.7	86
		Chemical waste gas	Yes	66.7	87
		Other oil	Yes	73.3	88
		Non-renewable proportion of waste	Yes	73.6	89
Nuclear			No	0.0	90
Other			Yes ⁹	User specified	95

⁹ Other might include both combustible and non-combustible energy sources, but defaults to “combustible” to provide necessary safeguards

Annex 4 – Production/Consumption Declaration

General

This Production Declaration states the proportion of the actual equivalent electricity production that qualifies for Disclosure Certificates within this time period. An approved independent Production Auditor must verify sections II to IV of this Production Declaration.

I. Owner of Production Device/Generator

1. Name of Owner	
2. Name of Registrant, if different	
3. Contact person	

II. Production Device

1. Production Device reference number	
2. Date of last registration form	
3. The period of production	

III. The percentage share of the total electricity produced during the associated period of production that is based on each fuel source (electricity from biomass and multiple fuel source Production Devices only)

The share of electricity from each fuel source shall be verified based on information submitted to the administrator of a Public Support scheme, or by a review of documents showing changes in stock and purchased fuels.

It is assumed that the efficiency factor is independent of fuel type. The generator is free to make a separate verification of the efficiency factor.

			Fuels in stock, at the beginning of the period	Purchased fuels during the period	Fuels in stock, at the end of the period	Consumption during the period	Average Net (lower) Calorific Value	Energy Source Factor
Period start date						Mⁱ	Cⁱ	Fⁱ
Period end date								
Energy source	Code							
		kg						
		kg						
		kg						
		kg						
Total Biomass		kg						
Total Non Biomass		kg						

Energy Source Factor (in accordance with F2.6)

$$L^i = \frac{\sum_j M^i \times C^i}{\sum_n M^i \times C^i}$$

IV. The percentage share of the total electricity produced during the associated period of production that is based on the renewable energy sources (electricity from pumped storage hydro only)

- 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 - b/d - c) _____ GWh

V. Declaration of CHP Attributes (CHP Devices only)

- a. Gross electricity production _____ MWh
- b. Electricity exported to grid _____ MWh
- c. Mechanical energy production _____ MWh thermal
- d. Total useful heat production _____ GJ
- e. Non-CHP useful heat production _____ GJ

VI. Verification of the Production Declaration

The undersigned Production Auditor has reviewed the Production Declaration and has no material reason to doubt the correctness of the data under II-V.

Name.....

On behalf of Production Auditor

VII. Number of Certificates

Proportion of eligible MWh for which certificates are being applied is: _____% / _____MWh (complete as applicable). Note: energy sold under a labelling system may not qualify for Disclosure Certificates. Please check with the issuer or scheme authority.

VIII. Signature for the Registrant

Name

On behalf of

Date

Annex 5 – Account Application/Amendment Form

Application for account opening/amendment in Sweden for Disclosure Certificates.

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

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 Disclosure including the provisions and requirements the Domain Protocol for Sweden and the Standard Terms and Conditions of participation.

Signed

In the position of

Date

Annex 6 – Redemption Statement EECS 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

Account Holder	<name> e.g. Electrabel
Address of Account Holder	<street> e.g. Regentlaan 8 <zip><location> e.g. B-1000 Brussels <country> e.g. Belgium
Account Number	<account number> e.g. 04X00000B1
Redemption Date	<date> e.g. 2003-09-12
Redeemed by	<Country Code> e.g. FI, <IB Code> e.g. 04, <IB> e.g. Fingrid
Unique Statement Number	<> e.g. 042003091200001
Number of redeemed certificates	<> e.g. 100
Number of MWh represented	<> e.g. 100 000
Redemption purpose	<> 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	
EECS Disclosure Certificate			3	
Guarantee of Origin of electricity from high efficient cogeneration			4	
Energy 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	Tidal energy	Onshore	08	
		Offshore	09	
Geothermal			10	
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	
Coal			50	
Gas			60	
Oil			70	
Nuclear			80	
Other			90	
Chemical industrial gases			91	
Non-renewable waste			92	
Support Type / Description			Code	
No support			0	
Investment support			1	
Production support			2	
Combination of Investment and Production support			3	

Production Device Information

	Production Device ID	Domain of Origin	Certificate Type	Energy Source	Support Type	Additional Remarks by the Issuing Body
1	70705230001000XXXX	NO	1 and 2	03	0	
2	70705230001000XXXX	NO	3	11	1	
3	70705230001000XXXX	NO	2	05	3	

Redeemed Certificates

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