EECS Electricity

Domain Protocol

for

Interconnected System - Greece

Prepared by DAPEEP S.A.

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Contents

A Introduction

The framework specified in the EECS Rules and the detailed procedures and conditions specified in this Domain Protocol have the main objective of ensuring robustness and transparency in the facilitation of EECS Schemes for all EECS Participants.

This Domain Protocol is made binding between the EECS Participant and DAPEEP by agreement in the form of the Standard Terms and Conditions.

The objective is to ensure an acceptable level of robustness and transparency in the facilitation of the EECS Electricity Scheme for all EECS Participants.

This Domain Protocol promotes quality and clarity, as it:

- makes local rules transparent;
- provides clear information to all stakeholders (consumers, market parties, other members, government, the EU Commission etc.);
- facilitates assessment of compliance and permissible variance from EECS rules;
- facilitates audit; and
- translates local rules into a single format and language, supporting each of the above.

Important contact information is provided in Annex 1.

B General

B.1 Scope

This Domain Protocol sets out the procedures, rights and obligations, which apply to the Domain of the Interconnected System of Greece and relate to the EECS Electricity Scheme as defined in the EECS Rules.

According to the Greek legal framework, there are three Issuing Bodies for GOs in Greece:

- The Operator of RES and Guarantees of Origin (DAPEEP), for electricity produced from power plants located in the Domain of the Interconnected System of Greece.
- The System Operator of the Non-Interconnected Islands Networks (HEDNO), for electricity produced from power plants connected to electricity networks of the Greek islands the distribution systems of which are not linked with the Interconnected System of Greece
- The Centre for Renewable Energy Sources and Saving (CRES), for electricity produced from installations using Renewable Energy Source (RES) that are standalone, i.e. not connected to an electrical transmission or distribution grid.

RES and/or HE-CHP Production Devices connected to the Interconnected System, directly or through the distribution network, qualify for the Domain of the Interconnected System of Greece. Furthermore, stand-alone HE-CHP Production Devices which do not use RES and are located in the geographical area served by the Interconnected System also qualify for the Domain of the Interconnected System of Greece.

As Interconnected System of Greece is defined the electricity grid comprising the transmission system of Greece and the distribution systems linked with the transmission system by means of one or more interconnectors.

DAPEEP is authorised to Issue EECS certificates relating to the following EECS Product(s):

- EECS GO

EECS GOs are issued only for electricity from renewable sources and High Efficiency Cogeneration Units (HE-CHP).

This Domain Protocol supplements the terms of the Greek legislative framework which is referenced in sections C1 and C2 of this Domain Protocol.

B.2 Status and Interpretation

The EECS Rules are subsidiary and supplementary to national legislation.

The EECS Rules document and its subsidiary documents are implemented in the Domain of the Interconnected System of Greece in the manner described in this Domain Protocol. Any deviations from the provisions of the EECS Rules that may have substantial effect are set out in section C.5 of this document.

The capitalised terms used in this Domain Protocol shall have the meanings ascribed to them in the EECS Rules except as stated in section C.5 of this document.

This Domain Protocol is made contractually binding between an EECS Participant and DAPEEP by agreement in the form of the Standard Terms and Conditions.

In the event of a dispute, the approved English version of this Domain Protocol will take precedence over a local language version.

B.3 **Roles and Responsibilities**

EECS GOs can be issued by DAPEEP only in respect of the Qualifying Output from a Production Device which is at the time of issue situated in the Domain of DAPEEP as defined in B.1 and which Production Device is registered in the EECS Registration Database operated by DAPEEP for the purposes of EECS GOs

The Authorised Issuing Body for EECS GOs in the Domain of the Interconnected System of Greece is DAPEEP. Its role is to administer the EECS Registration Database and its interface with the EECS Transfer System.

The Competent Authority for GOs in the Domain of the Interconnected System of Greece is DAPEEP (Law 3468/2006, paragraph 1a of Article 16 as amended by Law 4296/2014 Art.5). Its role is defined by legislation (Ministerial Decision 8786/2010).

DAPEEP is designated as the Competent Body for electricity disclosure in a national level (Law 4512/2018, article 98).

The Greek Regulatory Authority for Energy (RAE) is authorised to supervise the operation of the GO system in Greece and work directly with the Issuing Bodies for GOs (Law 3468/2006 and Ministerial Decision 8786/2010).

The Authorised Measurement Bodies for the production devices connected to the Transmission System or the Distribution Network in the Domain are IPTO (Independent Power Transmission Operator) and HEDNO (Hellenic Electricity Distribution Network Operator), which are the bodies established under national regulation to be responsible for the collection and validation of measured volumes of energy used in national financial settlement processes. In particular IPTO is the Authorised Measurement Body for the production devices connected to high or medium voltage network and HEDNO is the Authorised Measurement Body for the production devices connected to low voltage network.

The Production Registrar is DAPEEP.

The Production Auditor for the Production Devices connected to the Transmission System or the Distribution Network in the Domain of Interconnected System is the respective Authorised Measurement Body.

In addition, for the cogeneration installations or power stations that use some form of renewable energy source and fossil fuels, the Production Auditor that certifies that the measuring devices (other than those located at the boundaries of the Production Device with Transmission System or Distribution Network) whose measurements are taken into account in the calculation of the energy produced, meet the standards set by the Regulatory Authority for Energy (RAE), is a Certifying Body that is registered in the "Certifying Bodies Register" established by DAPEEP.

Only electricity producers and electricity suppliers can be Account Holders in the Registration Database of EECS GO for the Domain of the Interconnected System of Greece.

The EECS Registration Database is operated by DAPEEP and can be accessed via the website https://go.dapeep.gr/

DAPEEP provides the services free of charge.

Contact information is provided in Annex 1.

C Overview of National Legal and Regulatory Framework

C.1 The EECS Framework

For the domain of the Interconnected System of Greece, the relevant national enabling legislation is as follows:

- Law No 3468/2006 “Electricity Production from Renewable Energy Sources and High Efficiency Cogeneration of Electricity and Heat and other provisions”, Official Government Gazette, First Bulletin, Sheet No.129, June 27, 2006 (http://www.rae.gr/old/downloads/sub2/129%2827-6-06%29_3468.pdf)
- Ministerial Decision No. D6/F1/oik.8786, on "Implementing the System of Guarantee of Origin of Electricity from RES and HE-CHP systems and assurance mechanisms", Official Government Gazette, Second Bulletin, Sheet No. 646, May 14, 2010 (http://www.ypeka.gr/LinkClick.aspx?fileticket=01P5rqu7YKw%3D&...)
- Law No 4001/2011 “Operation of Electricity and Natural Gas Markets, Hydrocarbon Research, Production and Transmission Systems and other regulations” , Official Government Gazette, First Bulletin, Sheet No.179, August 22, 2011 (http://www.ypeka.gr/LinkClick.aspx?fileticket=9rVkIH6aN2E%3d&tabid=506&language=el-GR, http://www.rae.gr/site/file/system/docs/laws/4001_2011)
- Law No 4512/2018 “Regulations for the implementation of the Structural Reforms of the Economic Adjustment Program and other provisions”, Official Government Gazette, First Bulletin, Sheet No. 5, January 17, 2018. http://www.ypeka.gr/idocs-nph/search/pdfViewerForm.html?4512
- Regulatory Authority for Energy Decision No 509/2018 “Approval of RES and Guarantees of Origin Operator’s Code in accordance with par.3 of article117E of Law 4001/2011”, Official Government Gazette, Second Bulletin, Sheet No. 2307, January 18,2018 http://www.lagie.gr/fileadmin/groups/EDRETH/Manuals/2018.06.18_FEK.2307_RAE.509_Kodikas_DAPEEP__Ekdosi_1.0_.pdf

DAPEEP has been properly appointed as an Authorised Issuing Body for GOs under Law 3468/2006, paragraph 1a of Article 16 as amended by Law No 4296/2014, Article 5.

Ministerial Decision No. D6/F1/oik.8786 enforces the GO System in Greece taking into consideration the Directive 2009/28/EC of the European Parliament and of the Council of 23rd April 2009 “on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC”, namely, the provision of Article 15.

The electricity supplier’s obligation to provide customers with comprehensible and clearly comparable data on the contribution of each energy source to each supplier’s total fuel mix is enforced by Law No 4001/2011, Article 48.

The Energy Mix of each Supplier along with the Residual Mix of the country is calculated by DAPEEP as provided for in Article 98, Law 4512/2018. The rules of electricity disclosure are described in articles 17 to 19 of the “RES and Guarantees of Origin Operator’s Code”. The Residual Mix for the year 2018 was for the first time calculated by DAPEEP in 2019. The methodology applied by DAPEEP in order to calculate the Residual Mix 2018 was published along with the results (Residual Mix 2018) and submitted to RAE. The official methodology to be adopted by DAPEEP is subject to a decision by RAE.

C.2 **National Electricity Source Disclosure**

Paragraphs 2a and 2b of Article 48 of Law 4001/2011 oblige electricity suppliers to inform their clients on the energy mix used for the electricity supply of the previous year, in a comprehensible and comparable manner, and on the environmental impact, at least with respect to CO_2[1] emissions due to the production of the electricity supplied. The "Electricity Supply Code" (edition 2013) reinforces the obligation of the Suppliers to disclose their fuel mix (paragraph 2 of Article 13). The monitoring on the compliance of Suppliers towards their obligation in general and the supervision of the invoices they provide to their customers can be found in Article 4 of the Electricity Supply Code.

Disclosure methodology is based on the calculation of the residual energy mix, the basic principles of which are defined in the "RES and Guarantees of Origin Operator's Code".

According to the Greek legal framework, there are three Issuing Bodies for GOs in Greece:

- The Operator of RES and Guarantees of Origin (DAPEEP), for electricity produced from power plants in the Domain of Interconnected System of Greece.
- The System Operator of the Non-Interconnected Islands Networks (HEDNO), for electricity produced from power plants connected to electricity networks of the Greek islands whose distribution systems are not linked with the Interconnected System of Greece
- The Centre for Renewable Energy Sources and Saving (CRES), for electricity produced from installations using RES that are standalone, i.e. not connected to an electricity grid.

Following the provisions of Law 4512/2018, DAPEEP is responsible for the application of the energy mix disclosure scheme and for performing all relevant calculations. The Energy Mix is calculated for the whole of Greece.

Calculations are based on EECS GOs and national GOs issued by DAPEEP for the Domain it is designated as Issuing Body for; on National GOs issued by HEDNO for the Domain it is designated as Issuing Body for; and on data regarding the electricity produced and consumed, as derived from national financial settlement of the electricity market. GOs issued for electricity production by stand-alone PDs are considered national GOs and are not taken into account within the Residual Mix calculations.

Up until April 15 each year, DAPEEP collects all data required for the calculation of the energy mix at national and at supplier's level for the previous year. Up until April 30 each year, DAPEEP calculates and announces the preliminary national residual energy mix and informs AIB as the Competent Body for the calculation of the European Attribute Mix. DAPEEP receives the calculated European Attribute Mix until May 30th. Until June 10, DAPEEP calculates and publishes in its web site the National Residual Energy Mix. DAPEEP calculates and informs the suppliers on the results regarding their Energy Mix, which then publishes only after having received their consent. .

[1] Law 4001/2011 does not provide for radioactive waste disclosure, because of absence of domestic nuclear power production. Nevertheless, radioactive waste is disclosed based on best-practice recommendations of RE-DISS II Project.

DAPEEP calculates CO_2 emissions and radioactive waste based on the National Residual Energy Mix, as well as based on the Energy Mix of each supplier.

Suppliers are obliged to include in their bills/ invoices and/or informative / advertising material, provided to their clients, information on their energy mix for the supplied electricity and on the CO_2 emissions and radioactive waste for electricity generation.

C.3 **National Public Support Schemes**

Electricity from renewable sources is promoted through a number of schemes, namely feed-in tariff, feed-in premium, subsidies and net metering.

Law No. 3468/2006, as amended, sets the rules for the guaranteed feed-in tariff. Plant owners are entitled to the payment of the electricity injected to the grid through a contract signed with DAPEEP (for plants connected to the Interconnected System) and HEDNO (for plants located on the non-interconnected islands). The feed-in tariff (FiT) varies according to rules established in legislation such as the source of energy, the technology used, the date of commissioning etc.

Ministerial Decision (Official Government Gazette, Second Bulletin, Sheet No. 1079, June 4 2009) establishes a support scheme that incentivises electricity generation by small PV installations (capacity of 10 kW or less) through a feed-in tariff, which is deduced from the consumers' electricity bill.

Law No. 4414/2016, as amended, article 3 sets the rules for a new support scheme that is effective from the 1st of January 2016 and is based on the introduction of a new type of operating aid granted for the electricity generation from RES or HE-CHP in the form of a premium, in addition to the market price. Wind Energy Plants with an installed capacity of up to 3 MW, and plants using any RES except wind with an installed capacity of up to 500 kW have the right to choose to receive the granted aid in the form of a fixed guaranteed price (FiT). Since 2017, RES and CHP plants, in order to receive a FiP or FiT as described in article 3 above, have to participate in tenders (art.7 par.1 Law No.4414/2016 as amended). The Ministry of Environment and Energy shall issue a decision concerning available capacities per renewable technology for each subsequent tender, while RAE is responsible to conduct the RES tenders.

Ministerial Decisions No. APEHL/A/F1/oik.24461 (Official Government Gazette, Second Bulletin, Sheet No. 3583, December 31 2014) and No. APEHL/A/F1/oik.175067 (Official Government Gazette, Second Bulletin, Sheet No. 1547, May 5th, 2017) set the rules for the net metering of PV installations, establishing that the surplus of energy, injected to the network, is not compensated. Ministerial Decision No. YPEN/DAPEEK/15084/382 (Official Government Gazette, Second Bulletin, Sheet No. 759, March 5th, 2019) expands the net metering and virtual net metering scheme to small scale wind parks, biogas, biomass, CHP and small scale hydro plants. Law No. 4513/2018 provides detailed specifications on the development of Energy Communities by citizens, local actors such as municipalities and regions and small and medium-sized local businesses. Energy communities can, among others, be involved in the production, distribution and supply of energy (with priority being given to RES) within their territories, ensuring energy self-sufficiency and energy security. Ministerial Decision No. YPEN/DAPEEK/15084/382 sets the rules on how the virtual net metering scheme applies on energy communities.

C.4 EECS Product Rules

DAPEEP issues EECS GOs for the purpose of energy mix disclosure.

The EECS Product Rules are described in Ministerial Decision No. D6/F1/oik.8786, on "Implementing the System of Guarantee of Origin of Electricity from RES and HE-CHP systems and assurance mechanisms".

The EECS Product Rules, as applied in the Domain of the Interconnected System of Greece, are set out within sections D and E of this document.

C.5 Local Deviations from the EECS Rules

Deviation on EECS Rules section C3.4.1: Issuing of EECS GO may be requested within 60 days after the end of the generation period and DAPEEP issues the respective EECS GOs within 10 days after the submission of the request,

D Registration

D.1 Registration of an Account Holder

Only electricity Producers owning a qualifying RES and/or HE-CHP Production Device and Electricity Suppliers, licensed to supply electricity in the Greek Market are eligible to register as Account Holders

An eligible electricity Producer who is interested in obtaining EECS GOs for the electricity generated from its own power generation Facility shall submit an application in order to be registered in the EECS GO Registration Database. .

The application shall be submitted in writing to DAPEEP and shall include the following:

a. Application for the Production Device registration (see section D.3) signed by the legal representative of the company.
b. Documentation of the company status according to the Greek law (required documentation is posted on DAPEEP website and depends on the company status, e.g. Limited Liability Company).
c. Proof that the person submitting the registration application is authorised for the submission.
d. Solemn Statement that the Producer shall inform DAPEEP for any alteration of the legal status of the company and the ownership of the Facility.
e. The “Know your Customer Form” properly filled in and signed by the legal representative of the company.
f. The Standard Terms and Conditions for the use of the DAPEEP EECS GO Registration Database signed by the legal representative of the company.

After the documents are reviewed and found correct to the satisfaction of DAPEEP, then the Producer shall be registered as an Account Holder in the Registration Database, DAPEEP shall create an Account in the Registration Database for the Production Device and shall notify the Producer for the Facility Unique Identification Code (MAE) and the Unique Identification Code of its EECS GO Account (MAMEP).

An eligible electricity Supplier, who is interested in obtaining EECS GOs shall apply for the creation of an Account in the EECS GO Registration Database of DAPEEP.

The Documents the Supplier is required to submit are the following:

a. Application for an Account in EECS GO Registration Database, signed by the legal representative of the company.
b. License to supply electricity to consumers in Greece.
c. Documentation of the company status according to the Greek law (required documentation is posted on DAPEEP website and depends on the company status, e.g. Limited Liability Company).
d. Proof that the person submitting the application is authorised for the submission.
e. Solemn Statement that the Supplier shall inform DAPEEP for any alteration of the legal status of the company.
f. The “Know your Customer Form” properly filled in and signed by the legal representative of the company.
g. The Standard Terms and Conditions for the use of the DAPEEP EECS GO Registration Database signed by the legal representative of the company.

After the documents are reviewed and found correct to the satisfaction of DAPEEP, then the Supplier will be registered in the Registration Database, DAPEEP shall create an Account in the Registration Database for the Supplier and shall notify the Supplier for the Unique Identification Code of the EECS GO Account (MAMEP).

Applications correctly submitted are processed by DAPEEP within 10 working days. If DAPEEP establishes that required information is missing and/or provided incorrectly, it may request the Applicant to submit supplementary / corrected information within a specified reasonable time limit. If, following the above process, the application remains incomplete, DAPEEP may reject the application.

Each Account Holder receives a username and password to access the Registration Database. The Account Holder is required to change the password the first time he enters the Registration Database. The Account Holders have access through the Registration Database only to the data of their own Account.

D.2 **Resignation of an Account Holder**

Account Holders wishing to close their Accounts must notify DAPEEP in writing, defining the effective date for the closure of the Account. The application must be signed by the legal representative of the Account Holder and be received by DAPEEP at least 10 days before the effective closure date.

After the document is reviewed and found correct, DAPEEP shall close the Account on the EECS Registration Database as of the effective date stated in the application or 10 days from the date of receipt of the application, whichever is later.

Any EECS GOs in the Account should be transferred or cancelled before the effective date for its closure. Any EECS GOs that may remain in the Account after its closure cannot be transferred or cancelled for disclosure.

D.3 **Registration of a Production Device**

An electricity generation facility is recognised as a Production Device in order to be registered in the EECS GO Registration Database of DAPEEP if the facility is located within the Domain of the Interconnected System of Greece and falls under the cases of article 1 of the Ministerial Decision 8786/2010.

To register a Production Device in the Facilities Register of the Registration Database of DAPEEP, the owner of the Production Device needs to submit:

a. The Device Registration Form *(Annex 2)* signed by the legal representative of the company owning the Production Device. The Device Registration Form is compatible with the Facility Data Declaration of Annex 1 of Ministerial Decision 8786/2010 and includes:

- Applicant's Name or Corporate Name and address.
- Legal representative of the applicant: name and contact details.
- Location of the Production Device, municipality, prefecture, address (if available).
- Installed power capacity and in case of HE-CHP installed heat capacity.
- Every energy source that may be used as input to the Facility for the production of electricity.
- Technology applied for the production of electricity.
- Date of the Facility operational commencement.
- Grid connection number: the identification number of the Facility connection point to the electrical grid, assigned by the competent Network Administrator.
- Data of the electricity meters that are installed and maintained by the Authorised Measurement Body at the boundaries between the Facility and the electrical grid the Facility is connected to: manufacturer, model, serial number. The respective Authorised Measurement Body.
- Data of the metering devices that are installed by the Producer inside the Facility and whose measurements are taken into account in the calculation of the energy output (see section E.4)
- Certificate issued by a Certifying Body stating that the metering devices installed inside the Facility by the Producer and whose measurements are taken into account in the calculation of the energy output, meet the standards set by the Regulatory Authority's Decision No.1599/2011 as amended by the Regulatory Authority's Decision No.410/2016 (see section E.3). The respective Certifying Body.
- Support Scheme: capital subsidy and/or operational support.

b. Operation License, which is required if the installed capacity of a production device is above the threshold mentioned in article 4 of Law 3468 / 2006, as amended by Law 3851 / 2010 and Law 4513/2018.

c. Connection Certificate, in case that the Production Device is exempted from an operation license according to article 4 of Law 3468 / 2006, as amended by Law 3851 / 2010 and Law 4513/2018. The Connection Certificate is issued by the competent Network Administrator and certifies that the electrical connection of the facility with the electricity grid has been successfully activated.

d. Single line drawing of the Facility with details on the location of the following:

   i. the outgoing electricity meter(s) of the Facility
   ii. any transformer in the area of the Facility
   iii. any auxiliary power station available within the boundary of the Facility
   iv. any backup heat generation station within the boundary of the Facility
   v. the incoming electricity meter of the Facility (if applicable)
   vi. other fuel meters of fuels that can be used in the Facility (if applicable)

e. Solemn declaration by the legal representative stating that the information provided is true and accurate and that the Facility falls under the cases of Article 1 of Ministerial Decision No.8786/2010.

DAPEEP shall verify that:

- the Facility is installed in the Domain of the Interconnected System of Greece

- the Facility falls under the cases listed in Article 1 of Ministerial Decision No.8786/2010
- the Device Registration Form is complete and the information contained therein is identical to the data of the Operation License or the Connection Certificate
- in case of Cogeneration Facilities or electricity generating Facilities that use some form of renewable energy source and fossil fuels, certificates are submitted, stating that the metering devices, (other than those located at the boundaries of the Facility with the Transmission or Distribution Network) which have been installed by the Producer and whose measurements are taken into account in the calculation of the energy produced, meet the relevant standards established by RAE

Subject to the above verification, DAPEEP shall register all data contained in the Device Registration Form in the Facility Register of the EECS GO Registration Database maintained by DAPEEP.

Once the registration is complete, a Facility Unique Identification Code (MAE) and a Unique Identification Code for the EECS GO Account (MAMEP) shall be assigned to the Facility and the Facility will be considered as a Production Device for the purpose of issuing EECS GOs.

By virtue of Article 4 of Ministerial Decision 8786/2010, the recognition of a Facility as a Production Device will be completed within 10 working days after the submission of the required documents.

D.4 De-Registration of a Production Device

Owners of Production Devices, who so wish, may de-register their Production Devices by notifying DAPEEP in writing about their intent. The notification must be submitted by the legal representative of the owner.

The effective date of deregistration must be no less than 10 days from the date of receipt of the said notification by DAPEEP.

DAPEEP will deregister the Production Device on the Facility Register of EECS GO Registration Database as of the effective date listed in the notification received from the Production Device owner or 10 days from the date of receipt of the notification by DAPEEP, whichever is later.

D.5 Maintenance of Production Device Registration Data

Subject to being inspected at least once every five years, Production Devices shall remain registered in the Production Devices Register until a de-registration notification is submitted by the owner of the Production Device to DAPEEP.

Production Devices which have been de-registered, may register again, by following the same procedure used for the registration of the Production Device for first time.

Any change of a Production Device data should be notified by the owner to DAPEEP as soon as practically possible.

Where the capacity of an existing Production Device increases, then the new capacity shall be registered in the relevant element of that Production Device in the Registration Database of DAPEEP, with a notification of the date on which the additional capacity became operational.

D.6 Inspection of Registered Production Devices

The initial inspection of each Production Device is performed by the Transmission System Operator if the Production Device is connected to the Transmission System and by the

Distribution Network Operator if the Production Device is connected to the Distribution Network.

In case of Production Devices that use some form of renewable energy source together with fossil fuels, the metering devices installed by the Producer and whose measurements are taken into account in the calculation of the energy produced as in section E.3, are initially inspected by a Certifying Body that meet the standards set by the Regulatory Authority's Decision No.1599/2011 as amended by the Regulatory Authority's Decision No.410/2016 (see section E.3).

Especially for HE-CHP units with installed power capacity equal or higher than 1MWe, the heat and power installation along with the metering devices installed by the Producer as in section E.3, are initially inspected by a Certifying Body chosen by the Producer from the list of Certifying Bodies Registered by DAPEEP in the relevant Register. The specifications of the audit are described in art.8 and 10 of the Ministerial Decision 23278/2012.

The metering devices installed at the boundaries of each Production Device and the Transmission System or the Distribution Network, are periodically inspected for all Production Devices with installed capacity more than 100 kW. The inspection frequency depends on installed capacity of the Production Device and is at least once per 5 years. Detailed specifications for the inspection procedure and frequency are defined in the Transmission System Operator Code.

Especially for the HE-CHP units with installed power capacity equal or higher than 1MWe, in addition to the above, the heat and power installation along with the metering devices installed by the Producer as in E.3, are audited annually by a Certifying Body chosen by the Producer from the list of Certifying Bodies Registered by DAPEEP in the relevant Register.

An additional verification for PV and Wind power plants is provided in a monthly basis through the statistical controls incorporated in the validation procedure applied by the Authorised Measurement Bodies on the metering data collected.

The Producer shall, if requested, even without notice, provide access to the premises of the Production Device to DAPEEP, its delegated persons and the Regulatory Authority, so that they can inspect the Production Device and the data kept by the Producer, with a view to confirming their accuracy against the Facility Data Declaration and verifying the data submitted with the EECS GO application in relation to the energy generated or the energy sources used by the Producer.

Refusal to permit access may be considered a breach of the Standard Terms and Conditions.

If an audit identifies material differences from the details recorded in the EECS Registration Database, the Registrant must re-apply for registration of the Production Device.

D.7 **Registration Error/Exception Handling**

Any errors in EECS GOs resulting from an error in the registered data of a Production Device will be handled in accordance with section E.8.

E Certificate Systems Administration

E.1 Issuing EECS GOs

EECS GOs can be issued in respect of the Qualifying Output of a Production Device during a period in which that Production Device was registered in DAPEEP Registration Database for EECS GOs.

The Qualifying Output that EECS GOs are issued for is defined as per Article 7 of the Ministerial Decision 8786/2010, on "Implementing the System of Guarantee of Origin of Electricity from RES and HE-CHP systems and assurance mechanisms".

EECS GOs for electricity production from RES or High Efficiency Cogeneration can be issued for a time period which cannot be less than 30 days or greater than one (1) year, and must correspond precisely to the measuring period covered by official measurements.

Each EECS GO is issued for a whole MWh. If the total energy for which EECS GOs are to be issued is not an integer number of MWh, then the total energy is rounded to the lower nearest integer number, and the EECS GOs issued shall correspond to this number. The remainder cannot be carried forward to the next issuing period.

Registrants who wish to issue EECS GOs must submit an online application to DAPEEP. The list of the information to be included in the application and the online application form are presented in Annex 5.

In case of Cogeneration Facilities or electricity generating Facilities that use some form of renewable energy source together with fossil fuels, in addition to the online application the Producer shall submit Consumption Declaration statement for the relevant production period according to Annex 3. The data included in the Consumption Declaration statement should be certified for their accuracy and reliability by a Certifying Body that is registered in the “Certifying Bodies Register” established by DAPEEP.

The EECS GOs can be requested for a production period corresponding at minimum to 1 calendar month and at maximum 12 calendar months, or for any integer number of calendar months in between, as long as this production period corresponds precisely to the measuring period covered by official measurements.

If the measuring period of the Production Device is no more than one month then the EECS GOs will be issued for each month separately based on the Qualifying Output of that Production Device during the specific month, as measured and validated by the competent Measurement Body.

If the measuring period of the Production Device is more than a month then the EECS GOs will be issued for each month separately, based on a pro rata allocation per month of the Qualifying Output of that Production Device during each measuring period, as measured and validated by the competent Measurement Body.

The application can be submitted between ten (10) and sixty (60) days from the end of the measuring period the electricity that EECS GO are requested for has been produced.

The EECS GOs will be issued within ten (10) working days from the date the issuing application has been submitted. DAPEEP may, upon a reasoned decision communicated to RAE, extend this deadline only once for an equal period.

If DAPEEP fails to issue the EECS GO within the aforementioned initial time-limit or the extension, RAE shall undertake the role of deciding whether the EECS GO shall be issued or not, upon a reasoned decision within ten (10) days, or any such other time-limit specified upon reasoned decision when special conditions are met. These decisions made by RAE for the issuance of the EECS GO and the granting of any necessary extension to the deadline shall be communicated to the applicant and DAPEEP.

On receipt of an application to issue EECS GOs, DAPEEP shall establish if:

a) the Production Device is included in the Facility Registration Database and is entitled to be issued EECS GOs

b) the application concerns a period of production compliant to the provisions as per E.1
c) the energy corresponding to the requested GOs does not exceed the Qualifying Output during the period of production, according to the measurements submitted

DAPEEP may request the applicant to submit clarifications or supplementary data, within a specified period; such clarifications or data shall be deemed necessary at DAPEEP's discretion for the examination of the above.

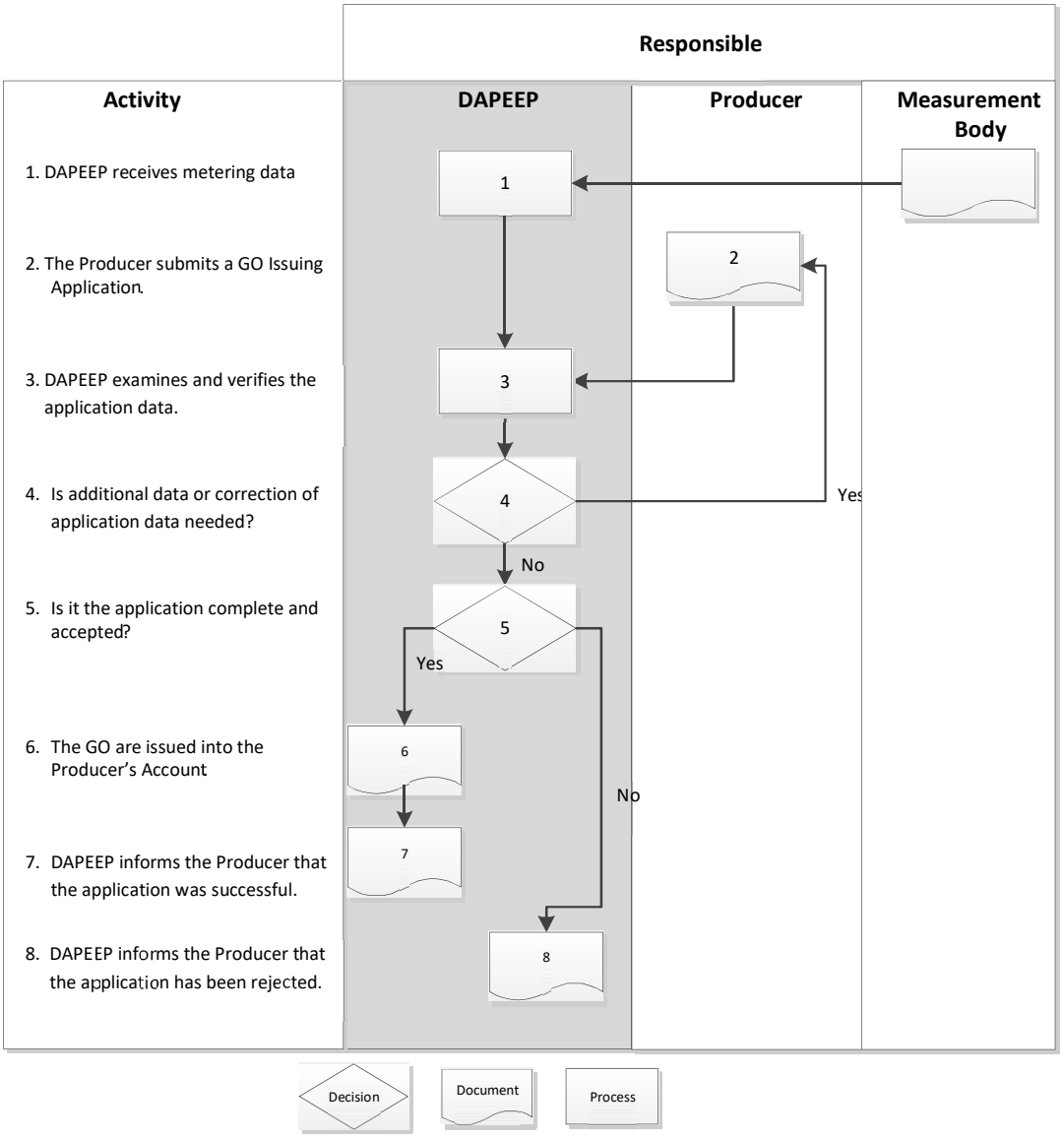
Once DAPEEP establishes the above, it shall issue the GOs in the EECS GO Account of the Applicant.

EECS GOs shall be issued bearing a unique identification number (MAEP). The EECS GO shall be registered in the EECS GO Account of the Applicant and the Account Holder shall be notified electronically for their issuance and data.

EECS GOs are valid for a period of 12 months from the end of the production period they are issued for.

E.2 **Processes**

The following diagram provides an overview of the issuing process described in E.1.



E.3 **Measurement**

The applicable metering Regulations are as follows:

- Regulatory Authority Decision No.1599/2011 "Final approval of "Meters and measurement specification as required by Ministerial Decision 8786/2010, on 'Implementing the System of Guarantee of Origin of Electricity from RES and HE-CHP systems and assurance mechanisms'", Official Government Gazette, Second Bulletin, Sheet No.179, February 6, 2012 as amended by Regulatory Authority Decision No.410/2016, Official Government Gazette, Second Bulletin, Sheet No.4081, December 20, 2016
- Regulatory Authority Decision No.57/2012 "Transmission System Operation Code, Annex A: Technical Specification and Requirements for Registered Meters", Official Government Gazette, Second Bulletin, Sheet No.103, January 31, 2012, as amended.

- Regulatory Authority Decision No.1569/2011 “Manual for Meters and Measurements”, Official Government Gazette, Second Bulletin, Sheet No.504, February 29, 2012
- Law No.3734/2009, “Promotion of cogeneration of two or more useful forms of energy”, Official Government Gazette, First Bulletin, Sheet No.8, January 28, 2009
- Ministerial Decision No. D5-HL/G/F1/749, Official Government Gazette, Second Bulletin, Sheet No.889, March 22, 2012
- Ministerial Decision No. D5-HL/G/F1/oik.23278, Official Government Gazette, Second Bulletin, Sheet No.3108, November 23, 2012

All Production Devices that are connected to the Transmission System or the Distribution Network are equipped with meters recording the electrical energy. These meters are installed at the boundary of the Production Device with the Transmission System or the Distribution Network, accordingly.

Production Devices with installed power capacity of more than 100 kW are equipped with meters recording the electrical energy with a 15’ time interval. Metering is performed remotely, by the Transmission System Operator and measurements are aggregated in a monthly basis. The procedure for validation of measurements is described in the Code for the Transmission System Operation, further elaborated in the Manual for Meters and Measurements. The Transmission System Operator sends to DAPEEP every month the validated metering data for electricity injected to the grid and electricity absorbed from the grid during the previous month, for each Production Device registered in the Facility Registration Database of DAPEEP.

For Production Devices with power capacity less than 100kW, meter readings are collected every four months by the Distribution Network Operator (HEDNO) and sent to DAPEEP.

In addition to the above, in case that the Production Device uses, among other fuels, biomass or solar energy based on another technology than photovoltaic technology and non-renewable energy source or is a hydroelectric plant using a pumping system for filling of the storage tank, metering devices are installed inside the Production Device, for measuring the fuel consumption, the amount of steam produced or the amount of energy absorbed to fill the storage tank, accordingly. The Producer collects the metering data and submits the information referred to the Consumption Declaration (Annex 3). This is also the case for Cogeneration Facilities with installed power capacity lower than 1MWe. The data included in the Consumption Declaration statement should be certified for their accuracy and reliability by a Certifying Body that is registered in the “Certifying Bodies Register” established by DAPEEP.

Especially in the case of HE-CHP power plants with installed power capacity equal or higher than 1MWe the collection and validation of the data measured by the metering devices installed inside the Production Device, is performed according to Ministerial Decision 23278/2012. The electricity that is produced when the power plant is operating in high efficiency mode is calculated by DAPEEP according to Law No.3734/2009 and Ministerial Decisions 749/2012 and 23278/2012.

The standards that the metering devices shall meet, as well as specifications for the recorders and the telecommunications equipment for the collection and transmission of required data are set by the Regulatory Authority in Decision No.1599/2011 “Final approval of “Meters and measurement specification as required by Ministerial Decision

8786/2010, on ‘Implementing the System of Guarantee of Origin of Electricity from RES and HE-CHP systems and assurance mechanisms’” amended by Regulatory Authority Decision No.410/2016 (see section E.3).

E.4 **Determination of Qualifying Output**

The electricity produced in a Production Device from RES or HE-CHP and taken into account for the issuance of EECS GOs shall be calculated as per Article 7 of Ministerial Decision 8786/2010.

The basic principles for calculating the Qualifying Output of Production Device connected to the grid are presented in this section.

The following terms are used according to their definition in Ministerial Decision 8786/2010:

Injected Electricity: The electricity produced at a Facility, as measured by a meter located at the boundary of the Transmission System or the Distribution Network.

Net Electricity: The Injected Electricity, not including the electricity imported into the Facility from the Transmission System or the Distribution Network.

The Qualifying Output shall be calculated as follows:

a. When the Production Device generates electricity from RES, excluding stations with energy storage systems, the electricity taken into account for the issuance of GO is the Net Electricity.
b. When the Production Device generates electricity from RES and has a storage system, the electricity taken into account for the issuance of EECS GOs is the electricity produced from renewable energy sources, including renewable electricity used for filling the storage system minus the electricity produced by the storage system.
c. When the Production Device is a hydroelectric plant that uses pumping system for filling the storage tank, the electricity taken into account for the issuance of an EECS GO is the difference between the Injected Electricity and the electricity absorbed by the Transmission System or the Distribution Network to fill the storage tank and meet the plant's own consumption needs, if any.
d. When the Production Device uses, among others, fuel and biomass, including biogas, the electricity taken into account for the issuance of a EECS GO shall be calculated as the amount of Net Electricity multiplied by the Renewable Source Coefficient (SAE). The SAE is calculated for each period of production, as follows:

$$SAE = M_{RE} \times C_{RE} \; / \; [(M_{RE} \times C_{RE}) + (M_{non\text{-}RE} \times C_{non\text{-}RE}) \;]$$

where:

M_{RE} = The mass of renewable energy for the production period

C_{RE} = The average calorific value of renewable energy for the production period

$M_{non\text{-}RE}$ = The mass of the fuel that is not a renewable energy source for the production period

$C_{non\text{-}RE}$ = The average calorific value of the non-renewable energy source for the production period

e. When the Production Device is a power station, which uses solar energy based on another technology than photovoltaic technology and a non-renewable energy source, the electricity taken into account for the issuance of EECS GOs is the amount of Net Electricity multiplied by the Renewable Source Coefficient (SAE). The SAE is calculated for each period of production, as follows:

$$SAE = M_{RE} \times C_{RE} \; / \; [(M_{RE} \times C_{RE}) + (M_{non\text{-}RE} \times C_{non\text{-}RE}) \;]$$

where:

M_{RE} = The amount of steam produced by solar energy during the production period

C_{RE} = The average enthalpy of the steam produced by solar energy for the production period

$M_{non\text{-}RE}$ = The amount of steam produced by burning fuel that is not a renewable energy source for the production period

$C_{non\text{-}RE}$ = The average enthalpy of the steam produced by fuel that is not a renewable energy source for the production period

f. When the Production Device is a Cogeneration Plant and does not use RES, the electricity taken into account for the issuance of a GO is the electricity produced from high efficiency cogeneration and calculated according to the provisions of Chapter A of Law 3734/2009 and the Ministerial Decisions No 749/2012 and No 23278/2012 issued thereof, implementing in Greek legislation the provisions of the respective European :
   - Directive 2004/8/EC,
   - Commission Decision 2007/74/EC,
   - Commission Decision 2008/952/EC,
   - Commission Implementing Decision 2011/877/EC,
   - Directive 2012/27/EU, and
   - Commission Delegated Regulation 2015/2402

   Calculations are performed on the basis of validated measurements of fuel consumption, electricity and thermal production, the measurement period being one hour.
   .

g. When the Production Device is a Cogeneration Plant which uses RES as well, then GOs shall be issued for the electricity produced using RES and/or for the electricity produced from a conventional power source, in accordance with the following:

   aa) the electricity taken into account for the issuance of a GO for generation of electricity from RES is calculated in accordance with the provisions of paragraphs d or e, as appropriate;

   bb) GOs for HE-CHP are issued only for the part of the produced electricity which qualifies for HE-CHP GO and for which a RES-GO has not been issued as per aa) above..

   In case of any discrepancy of the above with the provisions of Ministerial Decision 8786/2010, the latter will prevail.

E.5 **Format**

Each EECS GO issued contains the following information:

a. Facility data:
   - The name of the Producer who owns the Facility
   - The location of the Facility (country - site - municipality - prefecture)
   - Unique Identification Code of the Facility (MAE)
   - The electricity generation technology
   - The energy source
   - The installed capacity
   - Aid/Support received or to be received by the Facility
   - The date of commencement of operation of the Facility
b. Guarantee of Origin data:
   - The Unique Identification Number (MAEP)
   - The starting date of the production period for which the EECS GO is issued
   - The ending date of the production period for which the EECS GO is issued
   - In case of a Cogeneration Facility: the lower calorific value of the fuel used, the use of useful heat produced, the total amount of electricity produced, energy savings achieved, the percentage of energy savings.
c. The date of issuance.

EECS GO shall be issued in such a format as may be determined by AIB from time to time.

E.6 **Transferring EECS GOs**

The Transfer Request is submitted online using the application form provided in Annex 6.

The Producers holding a Transferable Account in the EECS-GO Registration Database of DAPEEP can act only as Transferors.

The Transfer Request shall include the following:

a) The data of the Transferor:
   - Name
   - Unique Identification Code of the Account (MAMEP)
b) The data of EECS GO to be transferred:
   - The starting date of the production period
   - The ending date of the production period
   - The Originating Production Device
   - The amount of GOs
c) The data of the Transferee:
   - Name
   - Unique Identification Code of the Account (MAMEP)

DAPEEP shall check the request, establish that it is valid and make the transfer electronically.

Only EECS GOs issued for electricity from RES or HE-CHP facilities are allowed entrance into the EECS Registration Database of DAPEEP and under the prerequisites that

- The Issuing Body is designated by an EU Member State or a third country to issue GOs for electricity produced from RES or HE-CHP facilities according to Directive 2009/28/EC and Directive 2012/27/EU
- The Issuing Body is authorised by AIB to issue EECS GOs

DAPEEP shall recognize the GOs from EU Member States or third countries that are not AIB members, taking into account the reliability of the GO system applied in these

countries. Should DAPEEP decline to acknowledge a GO, DAPEEP notifies its decision to RAE, who shall approve the decision within fifteen (15) days. When there are reasonable doubts about GOs accuracy and credibility, RAE shall notify the European Commission or the competent Issuing Body of the country the GOs come from. The GOs from non-AIB members, if recognised, are imported in the GO Registration Database of DAPEEP as national GOs.

Where the Transferee's Account specified in the Transfer Request is in DAPEEP's Registration Database DAPEEP shall:

- include the full details of the GO Certificate referred to section E.5 above in the Transferee's Account
- confirm to the Transferor that transaction is completed
- confirm to the Transferee that transaction is completed

Where the EECS GOs are imported from a Transferrable Account in another Member's EECS Registration Database, DAPEEP shall include the full details of the EECS-GO Certificate referred to section E.5 above in the Transferee's Account.

Where the GOs are imported from a Transferrable Account in the GO Registration Database of a non-AIB Member DAPEEP shall include the full details of the GO Certificate referred to section E.5 above in the Transferee's Account with the indication national GOs.

Where the Transferee's Account specified in the Transfer Request is on another Member's EECS Registration Database DAPEEP shall:

- notify that other Member of the Transfer Request,
- send the full details of the EECS-GO Certificate referred to section E.5 above in accordance with the provisions of the Subsidiary Document "HubCom". These details are sent via the Hub.
- record on its own EECS Registration Database, the export of such EECS GO Certificates
- on receipt of confirmation from the Hub, confirm to the Transferor that transaction is completed

Where the Transferee's Account specified in the Transfer Request is in GO Registration Database of a non AIB Member DAPEEP shall:

- notify the competent Issuing Body of the Transfer Request,
- on receipt of confirmation from the competent Issuing Body, send the full details of the GO Certificate referred to section E.5 above
- record on its own GO Registration Database, the export of such GO Certificates
- confirm to the Transferor that transaction is completed

Especially for the EECS-GOs the latest version of EECS rules applies.

In case that DAPEEP has established a Cancellation Agreement with another Scheme Member, then:

1. Where DAPEEP is notified by the other Scheme Member of a Transfer Request, DAPEEP shall:
   - insert the full details of the EECS GO Certificate in the Transferables Account specified in the Transfer Request and cancel the respective EECS GOs Certificates
   - confirm to the Member, that notified DAPEEP of such Transfer Request, that the EECS GO Certificate has been transferred and cancelled successfully

- confirm to the Transferee that transaction is completed, specifying all the information related to that transaction

2. Where DAPEEP receives a Transfer Request with respect to EECS GO Certificate held in a Transferables Account in DAPEEP EECS Registration Database and the Transferee's Transferables Account specified in the Transfer Request is in the other Scheme Member's EECS Registration Database, DAPEEP shall:
   - send the full details of the EECS GO Certificate to that other Member's EECS Registration Database
   - record on its own EECS Registration Database, the export of such EECS GO Certificates
   - confirm to the Transferor, that the transaction is completed

The GOs transfer, including the notification of all parties concerned, shall occur within three (3) working days of receipt of the request.

E.7 Administration of Malfunctions, Corrections and Errors

Once issued, the details of an EECS GO cannot be altered or deleted except to correct an error that has occurred by a reason other than the breach of the obligations of the Account Holder. In this case:

if the GO, which contains an incorrect piece of information, has not been transferred to another GO Account, DAPEEP shall immediately correct the wrong piece of information

if the GO, which contains an incorrect piece of information, has been transferred to another GO Account, DAPEEP shall make the necessary arrangements for the correction of the incorrect piece of information, taking care to obtain the Account Holder's consensus to eliminate the possibility of unjust enrichment of any Account Holder

When a transfer of EECS GOs fails and when an error is identified then:

- in the event of a failure of minor validation during transfer
  - DAPEEP will make reasonable effort to correct and make the transfer happen
- in the event of a complete failure of a transfer
  - DAPEEP shall reinstate the Certificates in the seller's account
  - Investigate how to facilitate another attempt
- where an obvious error has occurred and is agreed
  - DAPEEP will correct it, even if it was not the issuer, in a way that no one gains financially as the result of a correction
- DAPEEP can recover its reasonable costs of corrective action (unless it was responsible for the error)

E.8 End of Life of EECS GOs – Withdrawal, Cancellation

An EECS can be withdrawn, (i.e. removed from circulation, whereby it cannot be moved to any other account and is no longer tradable) in the following cases:

a) Upon fulfilling its purpose, i.e. the disclosure of the origin of the electricity. This corresponds to Cancellation for the purposes of this Domain Protocol. Such cancellation can occur only once. The Beneficiary of cancellation is either the energy supplier that holds the Account or an end-consumer who is customer of the energy supplier that holds the Account.

b) In case of breach of the obligations of the EECS GO Account Holder.

c) For any other reason, at the request of the EECS GO Account Holder.

If the withdrawal is requested by the Account Holder in accordance with the cases a, b and c referenced above, the application shall be submitted electronically by an authorized representative and shall include:

i. the name of the Account Holder
ii. the Unique Identification Code of the Facility (MAE)
iii. the Unique Identification Code of the EECS GO Account (MAMEP)
iv. the Unique Identification Code of the EECS GO (MAEP)
v. the starting and ending date of the production period of the EECS GO
vi. the reason for requesting the withdrawal

Cancellation of EECS-GO may occur only within DAPEEP domain.

Only Suppliers holding a Transferrables Account in EECS GO Registration Database of DAPEEP may submit a Request for withdrawing EECS-GOs under case (a) above.

EECS GOs withdrawn under case (a) above during the period starting from 1st April of Year X and ending 31st March of year X+1, are used annually for the disclosure of the electricity mix of year X. The detailed description of the calculation of the Residual Mix for Greece and the Supplier's Energy Mix is published in DAPEEP's website.

When EECS GOs are withdrawn under case (a) above and the beneficiary is an end-consumer, DAPEEP provides a Cancellation Statement to the Account Holder where requested to do so. The Cancelation Statement is issued in the format of Annex 7 and shall display:

- the Account number and name of the Account Holder that made the request
- the end consumer who is the beneficiary of the cancellation
- the Unique Identification Code of each GO to which the Cancellation Statement relates
- the date of producing the Cancellation Statement

When the conditions for withdrawal under case b of E.8 are met, DAPEEP shall notify to the Account Holder a document describing the breach and requesting clarifications within fifteen (15) days of its notification. In case of failure to act within the specified time-frame or if the Holder does respond promptly, yet without denying the commission of the breach and if the Certificate in question is still registered in the Holder's Account, DAPEEP shall withdraw the Certificate.

If the EECS GO has been transferred to another Account Holder, the Account Holder who was proved having committed the breach shall be required to obtain from another Account Holder, within a specified time-limit set by DAPEEP, another EECS GO of the same type (RES or HE-CHP) which can then be withdrawn by DAPEEP immediately after it has been transferred.

In case of withdrawal due to incorrect data contained either in the Facility Data Declaration or in the application for EECS GO issuance, after DAPEEP has established the breach, a new EECS GO will not be granted for the period following the period for which the EECS GO was withdrawn; a new EECS GO will be granted only after DAPEEP carries out an examination within one (1) month after withdrawal of the EECS GO, at the end of which is ascertained that the information stated in the application is accurate and for the period following the examination.

DAPEEP shall input the necessary data in the Registration Database regarding the EECS GO withdrawal and the reasons for withdrawal.

E.9 **End of Life of EECS GOs – Expiry**

EECS GOs which have expired are not available any longer for any transaction (e.g.. transfer, cancellation, etc.)

EECS GOs expire automatically 12 months after the end of the production period they refer to.

F Issuer's Agents

The roles have been explained in Section B3. Contact details for the principal roles are given in Annex 1

G Activity Reporting

G.1 Public Reports

DAPEEP will publish information related to EECS GO on its website http://www.dapeep.gr every 3 months including:

- Information on GOs that have been Issued
- Information on GOs that have been Transferred (imported from and exported to EECS Registration Databases of other AIB Members)
- Information on GOs that have been Cancelled
- Information on GOs that have Expired

G.2 Record Retention

Data stored in the Registration Database relating to an EECS GO is retained for at least ten (10) years after the EECS GO withdrawal, cancellation or expiry.

G.3 Orderly Market Reporting

In case DAPEEP determines that an EECS Market Participant is in breach of the Product Rules or determines that a Production Device does not meet PD Qualification Criteria for EECS GO, it shall:

(a) take such action as is necessary to secure that EECS GO Certificates are only Issued in respect of Production Devices within the DAPEEP Domain that satisfy the Production Device Qualification Criteria with regard to EECS-GO. Such action shall include, in a case of material non-compliance by the Registrant, the discontinuing of issuing of EECS-GO until such time that the Production fulfils again the Production Device Qualification Criteria; and

(b) notify the AIB of such breach where DAPEEP is of the reasonable opinion that such breach could affect the transfer of EECS GOs out of its EECS GO Registration Database into the EECS Registration Database of another Member

H Association of Issuing Bodies

H.1 Membership

In case DAPEEP ceases to be an Authorised Issuing Body in relation to EECS GO, it shall revise its EECS GO Registration Database so that each Production Device in DAPEEP Domain ceases to be registered for the purposes of EECS GO..

In case DAPEEP ceases to be a Scheme Member of the EECS-GO Scheme it shall revise its EECS GO Registration Database so that every Production Device registered therein ceases to be registered for the purposes of EECS GO.

H.2 Complaints to the AIB

DAPEEP will endeavour to deal with complaints received through the AIB as soon as possible and within a period of 20 business days.

The complaint will be acknowledged within one working day.

DAPEEP will liaise with AIB in relation to the complaint and respond back to the participant.

Complaints can be lodged by submission in writing to DAPEEP

I Change Control

I.1 Complaints and Disputes to DAPEEP

Any complaint shall be submitted to DAPEEP in writing. DAPEEP will endeavour to deal with the complaints received as soon as possible.

If a dispute arises, the Parties shall meet in order to attempt to resolve it in good faith.

Disputes arising out of the Standard Terms and Conditions shall be settled according to national law.

Any dispute or complaints that cannot be settled amicably are subjected to the exclusive jurisdiction of Piraeus's Court.

I.2 Change Requests

Any modification to the Domain Protocol for the Interconnected System in Greece will depend on the changes occurring to the Greek legislative framework regarding GOs.

Any modifications to this Domain Protocol are subject to approval by the AIB that such changes do not conflict with the Rules of the Association of Issuing Bodies for the European Energy Certification System.

Annex 1: Contacts List

Authorised Issuing Body

Company	DAPEEP
Contact Person	Maria Koulouvari
Address	Kastoros 72, Piraeus, GR-18545
Country	Greece
Phone	+302118806910
e-mail	mkoulouvari@dapeep.gr

Registration Database Support

Company	DAPEEP
Contact Person	Antonios Antoniou
Address	72 Kastoros str. -18545 Piraeus
Country	Greece
Phone	+302118806887
e-mail	mkoulouvari@dapeep.gr

Production Registrant

Company	DAPEEP
Contact Person	Maria Koulouvari
Address	72 Kastoros str. -18545 Piraeus
Country	Greece
Phone	+302118806910
e-mail	mkoulouvari@dapeep.gr

Production Auditor:

- IPTO S.A. (www.admie.gr)
- HEDNO S.A. (www.deddie.gr)
- Register of Certifying Bodies (http://www.lagie.gr/)

Measurement Bodies:

- IPTO S.A. (www.admie.gr)
- HEDNO S.A. (www.deddie.gr)

Annex 2: Device Registration Form

DEVICE REGISTRATION FORM [2]

(ΥΑ/Δ6/Φ1/οικ. 8786/6-5-2010 ΦΕΚ Β' 646/14-5-2010)

To register in the Facilities Register of the Registration Database of DAPEEP

REGISTRANT

Applicant's Name / Corporate Name :			
Street :		**No:**	
City :		**Postal Code:**	
VAT number :		**Tax Office :**	

Legal Representative(s)

Last Name:		**First Name:**	
e-mail:		**Tel:**	

(In case of common representation :)

Last Name:		**First Name:**	
e-mail:		**Tel:**	

Contact Person

Last Name:		**First Name:**	
e-mail:		**Tel:**	

[2] The present stands as solemn statement according to L. 1599/1986. The accuracy of the declared data can be verified by the competent authorities.

PRODUCTION DEVICE

Location :			
Street :		**No:**	
Municipality :		**City :**	
Region:		**Prefecture :**	
Grid Connection Number :		**RES/HE-CHP Registry Code :**	

Energy Source(s)

(Fill any energy source that may be used by the production device for the production of electricity, whether or not they intend to use these sources)

Solar	☐	**Wind**	☐
Biogas	☐	**Biomass / Bioliquid**	☐
Water	☐	**Natural Gas**	☐
Other (please mention the energy source…)			

Technology

Wind	☐	**Solar thermal / CSP**	☐
Hydro power	☐	**Photovoltaic**	☐
Combustion	☐	**HE-CHP**	☐
Geothermal	☐		
Hybrid (please mention the technologies used…)			

Installed Capacity

Power capacity (MW)	

(Fill only in case of cogeneration)

Heat capacity (MW)	

Date the PD became operational

METERING DEVICES

Outgoing electricity metering device(s)

Manufacturer :		**Model :**	
Serial No:		**Measurement Body :**	
Manufacturer :		**Model :**	
Serial No:		**Measurement Body :**	

Incoming electricity metering device(s)

(Fill in the case of auxiliary electricity production related to the operation of the Facility)

Manufacturer :		**Model :**	
Serial No:		**Measurement Body :**	
Manufacturer :		**Model :**	
Serial No:		**Measurement Body :**	

Fuel metering device(s)

(Fill in case fuel is used by the PD to generate electricity)

Fuel:		**Measurement point on the single line diagram:**	
Manufacturer :		**Model :**	
Serial No:		**Accuracy Class:**	
Fuel:		**Measurement point on the single line diagram:**	
Manufacturer :		**Model :**	
Serial No:		**Accuracy Class:**	
Certifying Body:			

Heat metering device(s)

(Fill only in case of cogeneration)

Liquid:		**Measurement point on the single line diagram:**	
Manufacturer :		**Model :**	
Serial No:		**Accuracy Class:**	
Liquid:		**Measurement point on the single line diagram:**	

Manufacturer :		**Model :**	
Serial No:		**Accuracy Class:**	
Certifying Body:			

SUPPORT SCHEME

No support	☐
Combination of Investment and Production Support	☐
Investment support	☐
Production support	☐

(Fill only in case of investment support)

Details:	

DOCUMENTS

1. Operation License or Connection Certificate, which is issued by the competent Network Administrator certifying that the electrical connection of the PD with the electricity grid, has been successfully activated. (*A connection certificate is provided in case the PD is exempted from an Operation License according to article 4 of Law 3468/2006, as amended by Law 3851 / 2010 and Law 4513/2018, as well as in case of PV installations with installed capacity of 1MWp or less. The above capacity limit applies to all stations owned by the same natural or legal person and installed on the same or neighboring property and pricing is based on the cumulative power of all stations.)*

2. Single line drawing of the Facility with details on the location of the following:
   i) the outgoing electricity metering device(s) of the PD
   ii) any transformer in the area of the PD
   iii) any auxiliary power station available within the boundary of the PD
   iv) any backup heat generation station within the boundary of the PD
   v) the incoming electricity metering device of the PD (if applicable)
   vi) other fuel metering devices of fuels that can be used in the PD (if applicable)
   vii) heat metering devices in case of cogeneration

3. Certificate issued by a Certifying Body that is registered in the "Certifying Bodies Register" established by DAPEEP stating that the measuring devices (other than those located at the boundaries of the Production Device with Transmission System or Distribution Network) whose measurements are taken into account in the calculation of the energy produced, meet the standards set by the Regulatory Authority for Energy (RAE) Nr.1599/2011 (ΦΕΚ Β' 179/6-2-2012).
   (in case of cogeneration PDs or PDs that use some form of renewable energy source and fossil fuels)

4. Documentation of the company status according to the Greek law (required documentation is posted on DAPEEP's website and depends on the company status)

5. Solemn Statement by the legal representative.

Legal Representative(s)

Full Name:		Full Name:	
Signature:		Signature:	
Date:		Stamp:	

Annex 3: Consumption Declaration

Case 1. If the installation is a power station which, among other fuels, uses biomass, the owner of the Production Device shall submit for the issuance period:

- Mass of fuel which is renewable (M_{RE})
- Average calorific value of fuel which is renewable (C_{RE})
- Mass of the fuel which is not renewable (M_{nonRE})
- Average calorific value of fuel which is not renewable (C_{nonRE})

Case 2. If the installation is power station, which uses solar energy technology based on another technology other than photovoltaics and fuel which is not renewable, the owner of the Production Device shall submit for the issuance period:

- Amount of steam produced by solar energy (M_{RE})
- Average enthalpy of the steam produced by solar energy (C_{RE})
- Amount of steam produced by fuel (M_{nonRE})
- Average enthalpy of the steam produced by fuel (C_{nonRE})

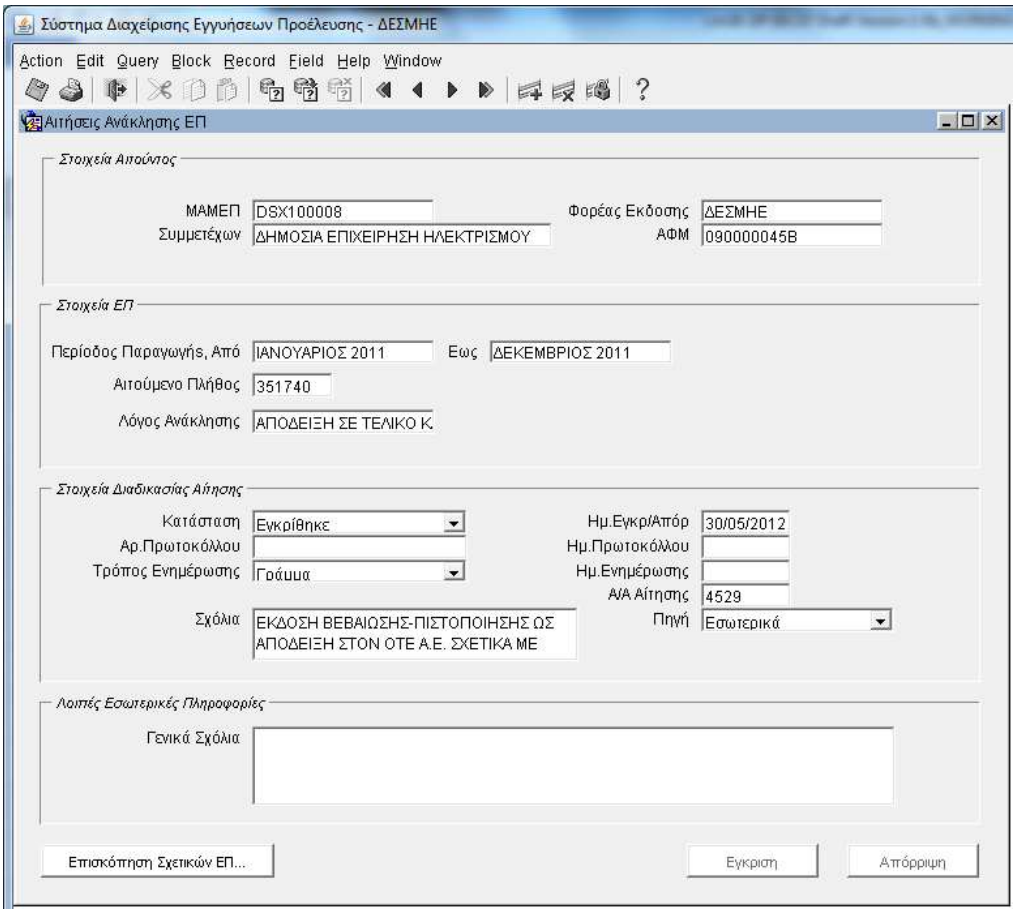
Case 3. If the installation relates to a power station pumping system used to fill the storage tank, the owner of the Production Device shall indicate the amount of energy absorbed to fill the storage tank during the issuance period.

Case 4. If the installation is HE-CHP with installed capacity lower than 1MWe, the owner of the Production Device shall submit for the issuance period

- Usage of the heat produced
- Electricity produced
- Heat produced
- Useful heat produced
- Fuel consumption
- lower calorific value of the fuel used in MJ/kg or MJ/Nm^3
- electricity to useful heat ratio C during cogeneration
- energy savings achieved (following Law 3734/2009 article 6)

The data included in the Consumption Declaration statement should be certified for their accuracy and reliability by a Certifying Body that is registered in the “Certifying Bodies Register” established by DAPEEP.

Annex 4: Online Application Form for EECS GO Withdrawal



Unofficial Translation

Guarantee of Origin System

Action Edit Query Block Record Field Help Window

GOs Withdrawal Application

Applicant

MAMEP[3]		Issuing Body	
Participant[4]		Taxpayer ID	

GOs

Production Period From		To	
Number of GOs			
Purpose of withdrawal			

Progress of the Application

Status[5]		Date of Approval/Rejection	
Secretariat Protocol Number [6]		Submission Date to the Secretariat[7]	
Type of Submission[8]		Submission Date	
		Serial Number of Application[9]	
		Source[10]	
Comments			

Other Comments for internal use

General comments	

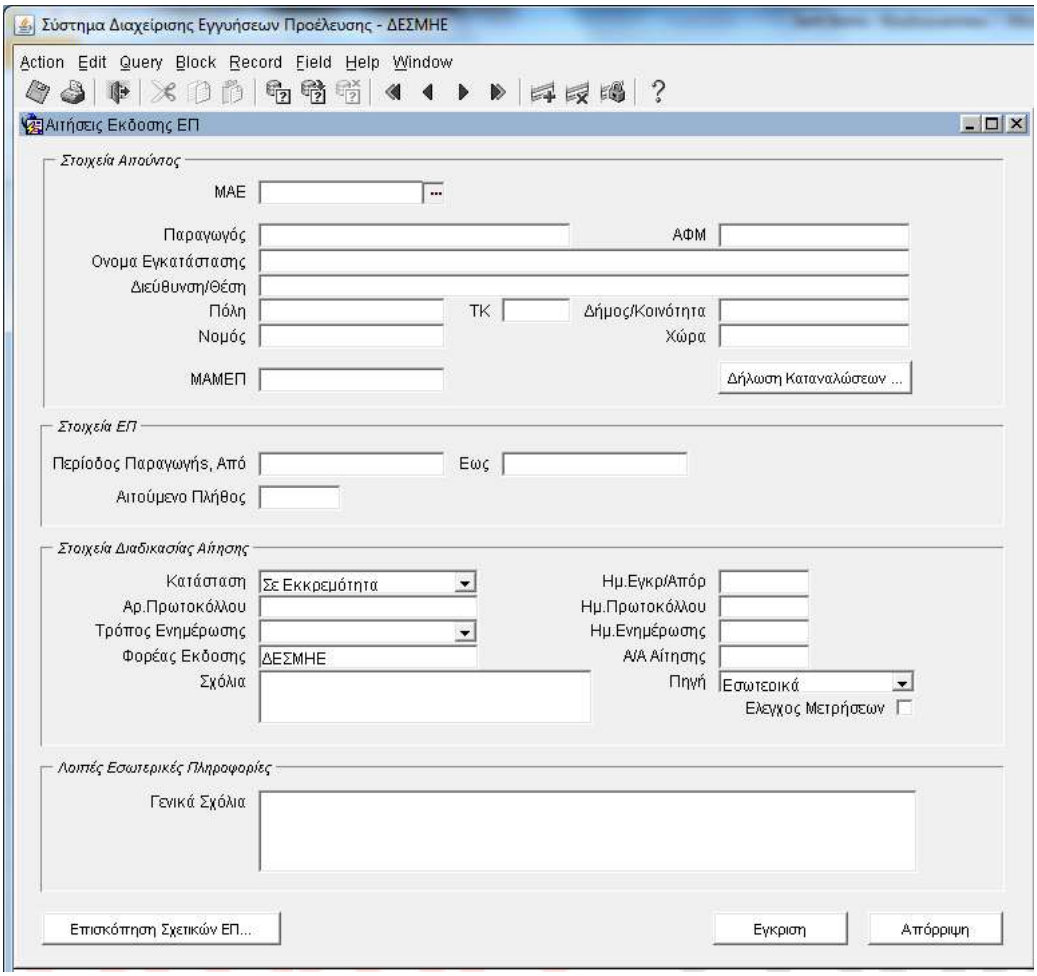
Review of Relevant GOs | Approval | Rejection

---

3 GO Account
[4] Account Holder
[5] Approved or rejected
[6] In case that the Application is submitted by the Account Holder by mail. In such a case the "Source" is "internal" (ref.8)
[7] Same as in ref.4
[8] Same as in ref.4
[9] Of the on-line submitted Application
[10] Internal or external

- Internal : if the Application is on-line submitted by the Issuing Body on behalf of the Account Holder (who has submitted in writing)
- External : if the Application is on-line submitted by the Account Holder

Annex 5: Online Application Form for EECS GO Issuing



The application shall be accompanied by the official measurements of the Transmission System Operator or the Distribution Network Operator, as the case may be, both for the energy exported from the Production Device to the grid and for the energy imported in the Production Device from the grid.

In addition to the above data:

If the Production Device uses, among other fuels, biomass or solar energy based on another technology than photovoltaic technology and non-renewable energy source or is a hydroelectric plant using a pumping system for filling of the storage tank, shall submit the information contained in the Consumption Declaration (Annex 3).

If the Production Device uses CHP technology and the installed electrical power is less than 1MW, the Producer must submit a report issued by a Certifying Body, which will include a certificate for the accuracy of the measurements and the information referred to in the Consumption Declaration (Annex 3).

Unofficial Translation

Guarantee of Origin System

Action Edit Query Block Record Field Help Window

Application for Issuing GOs

Applicant

MAE[11]
Producer
Taxpayer ID
Name of the Production Unit
Address
City
Postal Code
Municipality
County
Country

MAMEP[12]
Consumption Declaration[13]

GOs

Production Period From
To
Number of GOs

Progress of the Application

Status[14]
Date of Approval/Rejection
Secretariat Protocol Number [15]
Submission Date to the Secretariat[16]
Type of Submission[17]
Submission Date
Issuing Body
Serial Number of Application[18]
Source[19]
Comments
Measurements Check

Other Comments for internal use

General comments

Review of Relevant GOs
Approval
Rejection

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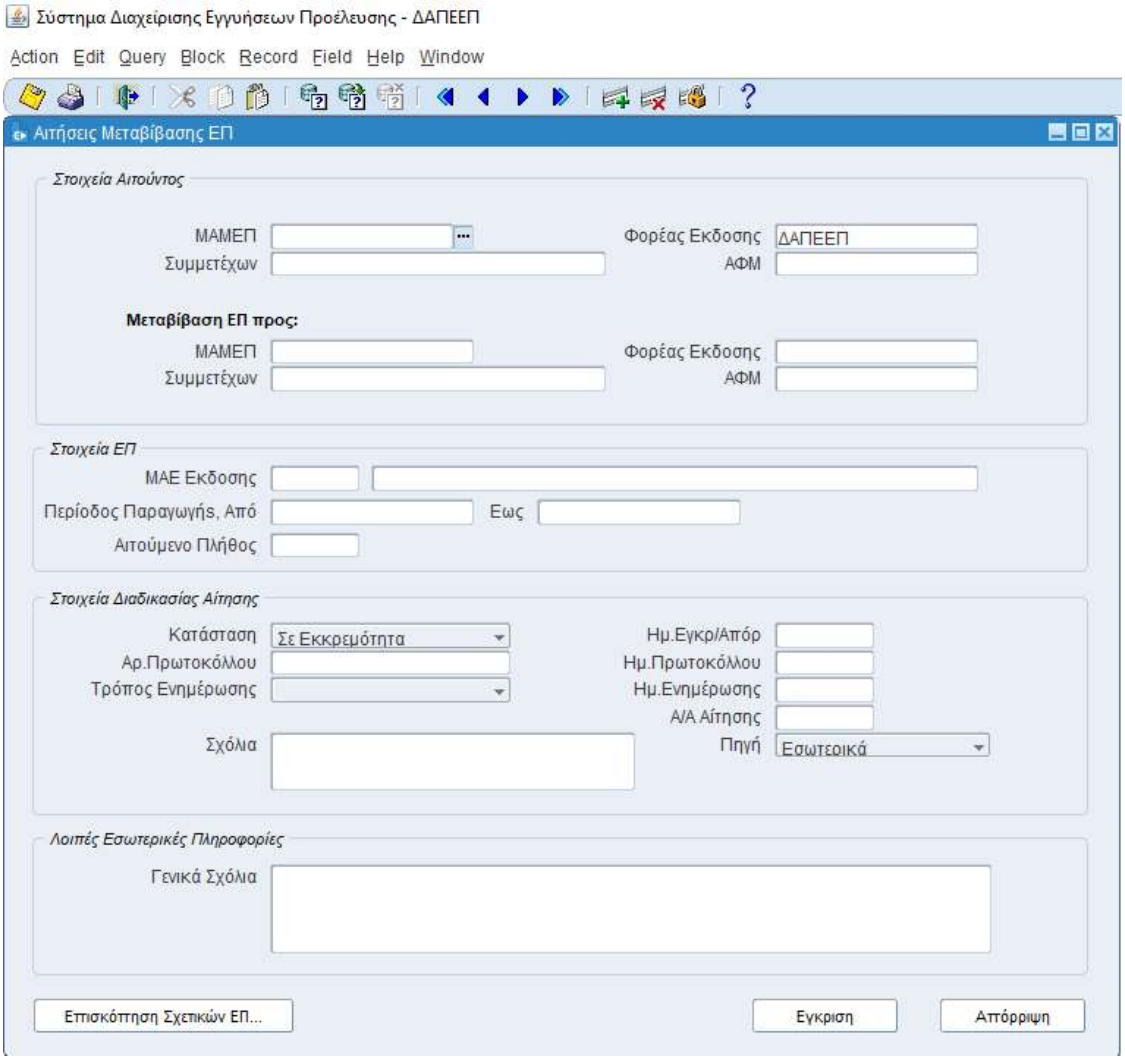
11 Facility Unique Identification Code
[12] GO Account
[13] The data included in the Consumption Declaration statement should be certified for their accuracy and reliability by a Certifying Body that is registered in the "Certifying Bodies Register" established by DAPEEP
[14] Pending/Approved/Rejected
[15] In case that the Application is submitted by the Account Holder by mail. In such a case the "Source" is "internal" (ref.16)
[16] Same as in ref.12
[17] Same as in ref.12
[18] Of the on-line submitted Application
[19] Internal or external

- Internal : if the Application is on-line submitted by the Issuing Body on behalf of the Account Holder (who has submitted in writing)
- External : if the Application is on-line submitted by the Account Holder

Annex 6: Online Application Form for EECS GO Transfer



Unofficial Translation

Guarantee of Origin System

Action Edit Query Block Record Field Help Window

Application for GOs Transfer

Applicant

MAMEP[20] | Issuing Body
Participant[21] | Taxpayer ID

Transfer GOs to

MAMEP[22] | Issuing Body
Participant[23] | Taxpayer ID

GOs

Issued for MAE[24]
Production Period From | To
Number of GOs

Progress of the Application

Status[25] | Date of Approval/Rejection
Secretariat Protocol Number [26] | Submission Date to the Secretariat[27]
Type of Submission[28] | Submission Date
Serial Number of Application[29]
Source[30]

Comments

Other Comments for internal use

General comments

Review of Relevant GOs | Approval | Rejection

---

20 GO Account
[21] Account Holder
22 GO Account
[23] Account Holder
[24] Production Device
[25] Pending/Approved/Rejected
[26] In case that the Application is submitted by the Account Holder by mail. In such a case the "Source" is "internal" (ref.30)
[27] Same as in ref.26
[28] Same as in ref.26
[29] Of the on-line submitted Application
[30] Internal or external

- Internal : if the Application is on-line submitted by the Issuing Body on behalf of the Account Holder (who has submitted in writing)
- External : if the Application is on-line submitted by the Account Holder

Annex 7: EECS GO Cancelation Statement

ΔΙΑΧΕΙΡΙΣΤΗΣ ΑΠΕ ΚΑΙ ΕΓΓΥΗΣΕΩΝ ΠΡΟΕΛΕΥΣΗΣ.Α.Ε
ΚΑΣΤΟΡΟΣ 72 – 18545 ΠΕΙΡΑΙΑΣ
ΤΗΛ.: 211 – 8806 910
FAX: 211 – 8806 901

ΑΡ./ΗΜ.:ΔΑΠΕΕΠ/

Α Ν Α Κ Λ Η Σ Η ΕΓΓΥΗΣΕΩΝ ΠΡΟΕΛΕΥΣΗΣ
(για την εκπλήρωση του Σκοπού τους)

ΥΑ/Δ6/Φ1/οικ. 8786/6-5-2010 (ΦΕΚ Β' 646/14-5-2010)

Βεβαιώνεται ότι ….(πλήθος σε MWh) Εγγυήσεις Προέλευσης (ΕΠ) οι οποίες εκδόθηκαν για ηλεκτρική ενέργεια που παράχθηκε από Ανανεώσιμες Πηγές Ενέργειας κατά την χρονική περίοδο …. (ημερομηνία έναρξης) έως …(ημερομηνία λήξης), κάτοχος των οποίων είναι ο Προμηθευτής .... (Επωνυμία Εταιρείας) με κωδικό Μερίδας …(ΜΑΜΕΠ: DSX100…..), ανακλήθηκαν για την εκπλήρωση του σκοπού τους, σύμφωνα με το Μητρώο ΕΠ του ΔΑΠΕΕΠ, υπέρ του δικαιούχου τελικού καταναλωτή ....(Επωνυμία Εταιρείας), κατά δήλωση του Προμηθευτή.

Σκοπός της ανάκλησης είναι η απόδειξη προς τον δικαιούχο τελικό καταναλωτή της προέλευσης της ηλεκτρικής ενέργειας που καταναλώθηκε και η βεβαίωση ότι χρησιμοποιήθηκαν οι σχετικές περιβαλλοντικές παράμετροι. Η παρούσα Βεβαίωση και οι Εγγυήσεις Προέλευσης που αφορά δεν μπορούν να μεταβιβαστούν σε άλλον από τον δικαιούχου τελικό καταναλωτή υπέρ του οποίου έγινε η ανάκληση.

Στον ακόλουθο Πίνακα δίνονται οι ανακληθέντες Μοναδικοί Αριθμοί Εγγυήσεων Προέλευσης (ΜΑΕΠ).

ΠΙΝΑΚΑΣ ΣΤΟΙΧΕΙΩΝ ΑΝΑΚΛΗΘΕΝΤΩΝ ΕΓΓΥΗΣΕΩΝ ΠΡΟΕΛΕΥΣΗΣ
ΤΟΥ ΜΗΤΡΩΟΥ ΕΓΓΥΗΣΕΩΝ ΠΡΟΕΛΕΥΣΗΣ ΤΗΣ ΔΑΠΕΕΠ Α.Ε.

Μοναδικός Αριθμός Εγγύησης Προέλευσης (ΜΑΕΠ από–έως)	α/α Αίτησης	Ημερ/νία Ανάκλησης	Λόγος Ανάκλησης	Κάτοχος Μερίδας ΕΠ	Μοναδικός Αριθμός Εγκατάστασης (ΜΑΕ)	Αριθμός ΕΠ (MWh)	Ημερ/νία Έναρξης Περιόδου Παραγωγής	Ημερ/νία Λήξης Περιόδου Παραγωγής

ΣΤΟΙΧΕΙΑ ΕΓΚΑΤΑΣΤΑΣΗΣ

Μοναδικός Αριθμός Εγκατάστασης (ΜΑΕ):

Θέση:

Εγκατεστημένη Ισχύς:

Τεχνολογία Παραγωγής:

Ημ. Έναρξης λειτουργίας:

Επωνυμία Κατόχου:

Ενισχύσεις:

Για την ΔΑΠΕΕΠ Α.Ε.

……

υπογραφή

Cancellation Statement unofficial translation

Operator of RES and Guarantees of Origin
72, Kastoros Str - 18545
Piraeus Greece

Protocol Number / Date

WITHDRAWAL OF GUARANTEES OF ORIGIN
(upon fulfilling of its purpose)

ΥΑ/Δ6/Φ1/οικ. 8786/6-5-2010 (Official Gazette B' 646/14-5-2010)

This document certifies that ... (*amount in MWh*) Guarantees of Origin (GO), issued for electricity produced from Renewable Energy Sources during the period.... (*start date*) to .... (*end date*) are withdrawn upon fulfilling their purpose from the Account ....(*Account Number*) owned by the energy supplier ....(*name of the Account Holder*) according to the GO Registration Database of DAPEEP.

According to the Supplier's declaration beneficiary of the withdrawal is the end-consumer.... (name of the end-consumer), the purpose of withdrawal being the proof of the origin of the consumed electricity and the certification that the environmental qualities of the associated energy have been consumed. This document and these Guarantees of Origin may not be transferred to any party other than the beneficiary.

In the following Table the Unique Identification Codes of the withdrawn GOs are given.

WITHDRAWN GUARANTEES OF ORIGIN
OF THE GUARANTEES OF ORIGIN REGISTRATION DATABASE OF DAPEEP

Unique Identification Code of the GO (from–to)	Cancelation Request No.	Date of withdrawal	Purpose of withdrawal	Account Holder	Identification Number of the Production Device	Amount of GOs (MWh)	Starting date of production period	Ending date of production period

DATA OF THE PRODUCTION DEVICE

Production Device Identification Number:

Location:

Installed Capacity:

Technology:

Commissioning Date:

Operator of the Production Device:

Support Scheme:

On behalf of DAPEEP

……..

Signature

The original and binding document is drafted in Greek and its translation into English is made only for facilitation purposes. In case of conflict the Greek document prevails.

Annex 8: General Description of the IT infrastructure

The IT System that supports the Registration Database of the Issuing Bodies in Greece is comprised of three major integrated modules or components:

- Relational Database: The database serves to store and manage all data relevant to the system, as well as to encapsulate the majority of the system's business logic. This component is implemented using the ORACLE RDBMS 12c.

- System Management Application (SMA): SMA is a WEB interface accessible only from authorised bodies such as DAPEEP, HEDNO, RAE, etc. Only static IPs (internet protocol addresses) operated by the aforementioned approved bodies are only allowed network access to SMA (firewall). SMA provides system setup/administrative capabilities, as well as supports the back-office business flows that the authorised bodies are required to perform on a regular or ad-hoc basis. component, which reads and writes to the database, is implemented in Oracle Forms and deployed on Web Logic Server within a browser..

- GO Portal (GOP): GOP is used by Account Holders to submit requests online regarding GO transactions and to monitor their GO "portfolios". It reads and writes to the database, is implemented using the latest Oracle APEX and Web Logic Server.

SMA and GOP are behind a Web Application Firewall (Fortinet) for web protection.

All above three systems are implemented in 3 different virtual machines in DAPEEP Datacenter and are backed up daily with a retention period of 3+ months.