



EECS Electricity Domain Protocol

**for
Hungary**

Prepared by the Hungarian Energy and Public Utility Regulatory
Authority

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EECS Domain Protocol

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Abbreviations

Agreement	Contract signed by the Account Holder with the Hungarian Energy and Public Utility Regulatory Authority (MEKH) in order to access and use the EECS Registration Database (Registry) in the Hungarian Domain
AIB	Association of Issuing Bodies
CHP	High efficient cogeneration
CHP Decree	Min. Decree 110/2007. (XII. 23.) on the calculation method to be applied to determine the volumes of electricity and useful heat produced by high-efficient cogeneration together with useful thermal energy and of useful heat
Date of Entry	The date when the Hungarian Energy and Public Utility Regulatory Authority (MEKH) enters the EECS Scheme, namely: 1st February 2022
Date of Hub connection	The date when the Hungarian Energy and Public Utility Regulatory Authority (MEKH) becomes a Hub User, namely: 1st March 2022
Disclosure Decree	Min. Decree 6/2008. (VI. 18.) on the certain data services related to the management, operation and use of the electricity system
DSO	Distribution System Operator
EECS GO	EECS Guarantee of Origin
Electricity Act	Act LXXXVI of 2007 on electricity
EMD19	Directive (EU) 2019/944 of the European Parliament and of the Council of 5 June 2019 on common rules for the internal market for electricity and amending Directive 2012/27/EU
GO Decree	Gov. Decree 309/2013. (VIII. 16.) on the certification of the origin of electricity generated from renewable sources or produced by high-efficient co-generation
MEKH	Hungarian Energy and Public Utility Regulatory Authority
KÁT	The feed-in tariff system, in which electricity can be sold at a take-over price set by Gov. Decree 389/2007 (XII. 23.) on the mandatory take-over and the take-over price of electricity generated from renewable energy sources or waste and cogenerated electricity
METÁR	Hungarian Renewable Energy Support System support under Gov. Decree 299/2017. (X. 17.) on mandatory take-over and premium support for electricity from renewable energy sources
National GO	GOs that were issued in respect of electricity production prior to the Date of Entry
Public Administration Act	Act CL of 2016 on General Public Administration Procedures
RED18	Directive (EU) 2018/2001 of the European Parliament and of the Council of 11 December 2018 on the promotion of the use of energy from renewable sources
Registry	EECS Registration Database
RES	Renewable Energy Sources



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TSO

Transmission System Operator

Any other abbreviations used in this Domain Protocol shall have the meanings ascribed to them in the EECS Rules.



EECS Domain Protocol

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.

A 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 the 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

- B.1.1. This Domain Protocol sets out the procedures, rights and obligations, which apply to the Domain of Hungary and relate to the EECS Electricity Scheme as defined in the EECS Rules.
- B.1.2. Production Device qualification for this Domain will be determined by connection to the electricity system of Hungary such that, in electrical terms, the Production Device is effectively located in Hungary.
- B.1.3. The Hungarian Energy and Public Utility Regulatory Authority (hereafter **MEKH**) is authorised to issue EECS Certificates in the Hungarian EECS Registration Database (hereafter **Registry**) relating to the following EECS Product:
- EECS Guarantee of Origin (hereafter **EECS GO**) for electricity produced from renewable energy sources (hereafter **RES**) or high efficient cogeneration (hereafter **CHP**).
- MEKH also authorized to issue National Guarantee of Origin (hereafter **National GO**) for electricity produced from RES or CHP.
- B.1.4. EECS GOs are only issued for electricity production starting from the Date of Entry. Hungarian GOs that were issued in respect of electricity production prior to this date are considered National GOs. The only difference between EECS GOs and National GOs is that National GOs refer to electricity generated before the Date of Entry.
- Foreign GOs which resided in the Hungarian Registry before 1st January 2022¹, and National GOs cannot be exported over the AIB Hub.
- B.1.5. No GOs are issued for electricity produced from fossil (with the exception of CHP GOs) and nuclear electricity.
- B.1.6. The definitions used in this Domain Protocol shall have the meanings ascribed to them in the EECS Rules except as stated in C.5 of this document.
- B.1.7. No Non-Governmental Certificates exist in Hungary. No EECS GOs or National GOs are issued in combination with an Independent Criteria Scheme in Hungary.

B.2 Status and Interpretation

- B.2.1. The EECS Rules are subsidiary and supplementary to national legislation.
- B.2.2. The EECS Rules and its subsidiary documents are implemented in Hungary in the manner described in this Domain Protocol. Any deviations from the provisions of the EECS Rules that may have material effect are set out in section C.5 of this document.
- B.2.3. 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.
- B.2.4. This Domain Protocol is made contractually binding between an EECS Participant and MEKH by agreement in the form of the Standard Terms and Conditions.

¹ According to the provisions of Gov. Decree 309/2013. (VIII. 16.) on the certification of the origin of electricity generated from renewable sources or produced by high-efficient co-generation (GO Decree), foreign GOs cannot be resided in the Registry from 1st January 2022. From this date, only ex-domain cancellation is possible. From the Date of Hub connection, EECS GOs can be transferred to the Registry through the Hub, non-AIB GOs can be transferred to Hungary only via ex-domain cancellation.



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- B.2.5. 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

- B.3.1. The Authorised Issuing Body for EECS GO and National GO in Hungary is MEKH, appointed by Section 6/A. of Act LXXXVI of 2007 on electricity (hereafter **Electricity Act**). Its role is to administer the Registry and its interface with the EECS Transfer System.
- B.3.2. The Competent Authority for EECS GO and National GO in Hungary is MEKH. Its role is defined by legislation to be responsible for the operation of EECS GO and National GO in Hungary. MEKH acts as Issuing Body, Production Registrar, Production Auditor and Registry Operator relating to GOs.
- B.3.3. The Authorised Measurement Bodies are the Distribution System Operators (hereafter **DSOs**) and the Transmission System Operator (hereafter **TSO**) listed on the website of MEKH [<http://www.mekh.hu/villamosenergia-ipari-engedelyesek-listaja>]. They 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.
- B.3.4. Contact details for the principal roles and Issuing Body agents are given in Annex 1.
- B.3.5. The Registry provided by Grexel Systems Oy can be accessed via the website <http://cmo.grexel.com>.

C Overview of National Legal and Regulatory Framework

C.1 The EECS Framework

C.1.1. For Hungary, the relevant local enabling legislation is as follows:

C.1.1.1. The relevant EU level provisions are set in Directive (EU) 2018/2001 of the European Parliament and of the Council of 11 December 2018 on the promotion of the use of energy from renewable sources (hereafter **RED18**) and in Directive (EU) 2019/944 of the European Parliament and of the Council of 5 June 2019 on common rules for the internal market for electricity and amending Directive 2012/27/EU (hereafter **EMD19**).

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32019L0944>

C.1.1.2. The provisions of the Directives have been implemented into the Hungarian law as follows.

- Electricity Act

<https://net.jogtar.hu/jogszabaly?docid=a0700086.tv>

- Gov. Decree 309/2013. (VIII. 16.) on the certification of the origin of electricity generated from renewable sources or produced by high-efficient co-generation (hereafter **GO Decree**) regulates the issue, transfer, cancellation, supervision and control of Guarantees of Origin for RES or CHP electricity, as well as recognition in Hungary of Guarantees of Origin issued by other Member States.

<https://net.jogtar.hu/jogszabaly?docid=a1300309.kor>

- Min. Decree 110/2007. (XII. 23.) on the calculation method to be applied to determine the volumes of electricity and useful heat produced by high-efficient cogeneration together with useful thermal energy and of useful heat (hereafter **CHP Decree**) contains the criteria for CHP qualification of a Production Device.

<https://net.jogtar.hu/jogszabaly?docid=a0700110.gkm>

- Min. Decree 63/2016. (XII. 28.) on detailed rules for determining and paying the amount of funds needed to finance operating aid for electricity from renewable energy sources.

<https://net.jogtar.hu/jogszabaly?docid=a1600063.nfm>

C.1.2. MEKH

- is the Hungarian national regulatory authority of the energy and public utility market;
- is responsible for licensing, supervision, price regulation, national energy-statistics related tasks, supervising the license holders' billing, contract management and customer service activities;
- has no governmental or ministerial supervision or direct order, its powers and duties shall only be established by law;
- has to report on its activity yearly to the Hungarian Parliament;
- has been properly appointed as an Authorised Issuing Body for GOs under Section 6/A. of the Electricity Act.

C.2 National Electricity Source Disclosure

C.2.1. Electricity disclosure in Hungary is governed by Min. Decree 6/2008. (VI. 18.) on the certain data services related to the management, operation and use of the electricity system (hereafter **Disclosure Decree**).

<https://net.jogtar.hu/jogszabaly?docid=a0800006.khe>

C.2.2. Disclosure Decree describes the obligation for suppliers to disclose information to the final consumer regarding the electricity supplied. Suppliers have to indicate on their bill (or an attached document) or available elsewhere for the purchaser of electricity, the share of primary energy sources that have been used to produce the electricity supplied.

C.2.3. There are three mechanisms that shall be used for electricity disclosure:

- cancellation of National GOs or EECS GOs;
- ex-domain cancellation of non-EECS GOs from foreign countries;
- residual mix.

Contractual-based tracking of the energy origin for electricity disclosure is not allowed.

C.2.4. Regarding the consumption period, the following rules are applied:

- For consumption of a given year, EECS GOs and National GOs can be cancelled from 1st April of that year, until 31st March of the next year.
- The consumption period that is covered with a National GO or an EECS GO cannot be later than twelve months from the production of the electricity referring to that National GO or EECS GO.

C.2.5. Main steps and deadlines in disclosure process:

- MEKH determines domestic residual mix (energy mix of domestic generated part of electricity consumed and not covered with EECS GOs or National GOs) for a given year by 20th April the following year.²
- MEKH submits domestic residual mix to the Association of Issuing Bodies (hereafter **AIB**) for a given year by 30th April the following year.
- AIB discloses European Attribute Mix for a given year by 15th May the following year.
- MEKH determines adjusted residual mix (energy mix of domestic electricity consumption not covered with EECS GOs or National GOs) for a given year by 31st May the following year.
- Suppliers disclose product and supplier mixes (based on EECS GOs and National GOs used and/or adjusted residual mix) for a given year by 1st July the following year. Suppliers are obliged to disclose the information to their consumers and to MEKH as well.

More details are provided in Annex 2.

C.2.6. National GOs and EECS GOs both may be used by suppliers for disclosure. (Since National GOs refer to electricity generated before the Date of Entry, National GOs might be used for disclosure only for consumption years 2021-2022.)

C.2.7. As a national regulatory for the energy sector, MEKH has the power to verify disclosure information provided by the suppliers. MEKH has the power to sanction any misleading or incorrect communication of suppliers. MEKH examines all supplier level mixes and conducts random sample checks on production mixes every year.

² MEKH uses the Shifted Transaction-based (STB) methodology provided by the Final Report of the 'Reliable Disclosure Systems for Europe (RE-DISS) – Phase II' project.

C.3 National Public Support Schemes

C.3.1. One of the means of encouraging the production of electricity from renewable and waste energy sources is the feed-in tariff system (hereafter **KÁT**), in which electricity can be sold at a take-over price set by Gov. Decree 389/2007 (XII. 23.) on the mandatory take-over and the take-over price of electricity generated from renewable energy sources or waste and cogenerated electricity. Production Devices utilizing multiple energy sources (co-firing) or waste may receive support only for the part of electricity produced from renewable energy sources (proportionally to the combustion heat). Applying for KÁT support was available until the end on 2016. Production Devices that gain support from KÁT are not eligible for EECS GOs or National GOs based on Article 19(2) of RED18.

<https://net.jogtar.hu/jogszabaly?docid=a0700389.kor>

C.3.2. The new Hungarian Renewable Energy Support System (hereafter **METÁR**) support under Gov. Decree 299/2017. (X. 17.) on mandatory take-over and premium support for electricity from renewable energy sources. Production Devices utilizing multiple energy sources (co-firing) or waste may receive support only for the part of electricity produced from renewable energy sources (proportionally to the combustion heat).

<https://net.jogtar.hu/jogszabaly?docid=A1700299.kor>

METÁR system offers the following support schemes:

C.3.2.1. 'METÁR KÁT' as a feed-in tariff system was available from January 2017 to April 2018 for Production Devices with an installed power capacity below 0.5 MW and demonstration projects. Production Devices that gain support from these schemes will be able to request GOs, based on Article 19(2b) of RED18, since the market value of the EECS GOs and National GOs was administratively taken into account in the level of financial support.

C.3.2.2. 'METÁR Green premium' is available for new renewable Production Devices or those undergoing major renovation.

- It was available for applications from January 2017 to May 2019. It granted floating premium support above the monthly reference market price, and RES producers shall sell their electricity on the market. Production Devices that gain support from this scheme will be able to request GOs, based Article 19(2b) of RED18, since the market value of the EECS GOs and National GOs was administratively taken into account in the level of financial support.
- 'METÁR Tender': Since May 2019, 'METÁR Green premium' support shall be granted only via competitive tendering procedures. Tenders are technology neutral with one bidding round and a price-based evaluation. It grants support through a tendering procedure, so, generators of this scheme will be able to get EECS GOs and National GOs based on Article 19(2a) of RED18.

C.3.2.3. 'METÁR Brown premium' serves to maintain the operation of biomass or biogas firing Production Devices. It grants a floating premium support. The value of the brown premium can be determined in two ways:

- The supported price is calculated based on the costs of biomass or biogas-based power production. Operation costs also include maintenance and repair costs which ensure the long-term continuous operation of the Production Device.
- In the case of Production Devices, which can be fired also with fossil energy sources, the alternative brown premium aims at preventing the switch to fossil fuels and is determined according to the difference between biomass/biogas and fossil-based power production costs.

Production Devices that gain support from this scheme will be able to request GOs, based on Article 19(2b) of RED18, since market value of the EECS GOs and National GOs was administratively taken into account in the level of financial support.

C.3.3. Household sized Production Devices (not more than 50 kVA capacity) cannot receive support in the KÁT and METÁR systems.

C.4 EECS Product Rules

C.4.1. The EECS Product Rules as applied in Hungary are set out within sections D and E of this document.

C.4.2. GOs can be used solely for the purpose of disclosure.

C.5 Local Deviations from the EECS Rules

C.5.1. Beside EECS GOs, MEKH issues National GOs as well. The only difference between EECS GOs and National GOs is that National GOs refer to electricity generated before the Date of Entry.

C.5.2. EECS GOs or National GOs are not issued for Production Devices with 50 kW or lower installed capacity – as it is specified in D.3.1.

C.5.3. EECS GOs or National GOs are not issued automatically based on measurement data. EECS GOs and National GOs are only issued based on request on the Registrant – as it is specified in E.2.3-4.

C.5.4. Eligibility of a Production Device for EECS GOs or National GOs does not expire automatically after five (5) years. It expires as

- the effect of the licence, the eligibility issued to participate in a support scheme, or the qualification expires or repealed, or
- the Production Device does not meet the qualification criteria anymore.

Regular inspections, however, are carried out for Production Devices in every five (5) years.

D Registration

D.1 Registration of an Account Holder

D.1.1. Any natural or legal person who is not a member of the AIB or such member's affiliate or agent and who completes a contract for holding an account for Guarantees of Origin with MEKH (hereafter **Agreement**) can be an Account Holder.

The Agreement including the Standard Terms & Conditions for the usage of the AIB Hub is published on the MEKH website:

<http://www.mekh.hu/forgalmi-szamla>

D.1.1.1. The TSO and the organized electricity Market Operator (HUPX Zrt.) are obliged to open an account by 31 March 2022 at the latest.

D.1.2. The Account Holder may initiate the completion of the Agreement. The Agreement is available on the MEKH website. If the Agreement has been completed, the document must be converted to pdf format, followed by a certified or qualified personal or business electronic signature. The electronically signed Agreement may be submitted to MEKH according to the requirements for electronic administration are laid down in Act CCXXII of 2015 on the General Rules for Trust Services and Electronic Transactions.

A foreign client may also send the Agreement to MEKH on hard copy by post. In this case, the two copies of the Agreement shall be sent to the MEKH. A foreign client may also have a Hungarian representative for taking out the Agreement – in this case, the representative shall attach a power of attorney as well, beside those documents that are required by D.1.3.

D.1.3. Submission of supporting documents is required to complete the Agreement. The lists of necessary documents differ according to the three possible legal categories of the clients: natural person, sole proprietor, legal person.

D.1.3.1. Required for contracting with a natural person:

- in the case of a domestic natural person: an identity card and an official card proving the address, or an official passport, certifying a passport and an address, or an official driving license and an official card certifying the address.
- in the case of a foreign natural person: passport, identity card, provided that he or she is entitled to reside in Hungary or has a valid residence permit.

D.1.3.2. Required for contracting with a sole proprietor:

- identity document,
- a sole proprietorship certificate or a notary's certificate of registration of the sole proprietor,
- other necessary certificate for carrying out the activity (in particular for a lawyer or a notary),
- a document which contains the tax number, unless it is clear from another document.

D.1.3.3. Required for contracting with a legal entity and an entity without legal personality:

- deed of foundation or statutes or deed of association,
- certified copy of a Company Statement which is not older than 30 days or court certificate of existence of the organization which is not older than 30 days,
- the identity document of the person who is represented and is authorized to sign.

D.1.3.4. MEKH replies to the Account Holder or representative within 15 days, and it records the data required by law. If the client or its representative sends the

Agreement with incomplete, incorrect information or without attaching the necessary annexes, MEKH advises the Account Holder to supply the missing information. If the Agreement does not contain any defect or error, the Agreement shall also be signed by the representatives of MEKH. MEKH will send the signed contract electronically to the Account Holder. If a foreign client submitted the contract on paper – according to D.1.2. – MEKH will send one copy of the signed contract to the Account Holder. The Account Holder has to pay the yearly account fee to MEKH within 8 days from the effective date of the Agreement. MEKH opens an account within 15 days of receipt of the yearly fee to the account of MEKH (see Account Application/Amendment Form screenshots in Annex 3.).

D.1.4. The Agreement comes into effect on the date of receipt of the signed Agreement. The Agreement shall be valid for an unlimited period.

D.1.5. If any data given in the Agreement or on the Account changes, the Account Holder or representative must inform MEKH within 5 days.

D.1.6. Tariffs for Account transactions and Account management fees are published at the website of the MEKH:

<http://www.mekh.hu/szarmazasi-garancia>.

D.2 Resignation of an Account Holder

D.2.1. The Account Holder must notify MEKH of its intent to close its account in written form. Resignation can be submitted by Hungarian clients electronically, according to requirements for electronic administration which are laid down in Act CCXXII of 2015 on the General Rules for Trust Services and Electronic Transactions. Foreign clients may submit the resignation by post. MEKH closes the account in the Registry within 40 days from the date of receipt by MEKH.

D.2.2. When closing an account, the Account Holder is responsible for paying any outstanding payments to MEKH. MEKH is not responsible for refunding any fees that have been already paid by the Account Holder, such as the yearly fee for EECS Account Holders.

D.2.3. Any GOs in the account must be transferred before the notice to close is sent or these GOs will go into the Residual Mix for Hungary when they expire.

D.3 Registration of a Production Device

D.3.1. Account Holders, which aim to register a Production Device, are referred to as Registrants. The Production Device's owners or duly authorised agents can apply for registration of Production Device in the Registry. To be registered, a Production Device must:

- be located in Hungary;
- have a minimum installed capacity of 50 kW;
- have at least one decision issued by MEKH out of the following: [1] a licence to produce RES or CHP electricity; or [2] a decision on eligibility to participate in a support scheme described in C.3.1-2.; or [3] a qualification.

D.3.2. According to Section 74 of the Electricity Act, construction or operation of Production Devices with installed capacity 0,5 MW or higher is enabled with a licence issued by MEKH. A Production Device utilizing RES sources with an effective licence may be registered in the Registry based on the licence. A licence contains all data that is needed for a later registration in the Registry.

D.3.3. Participation in any support scheme presented in C.3. is also enabled with a decision issued by MEKH with no regard to installed capacity. During the procedure of issuing a decision on support scheme eligibility, all data should be submitted to MEKH that is needed for a later registration. A Production Device with an effective decision on participation in any support scheme may be registered in the Registry based on its licence.

D.3.4. For those Production Devices that have no licence (with installed capacity under 0,5 MW) and do not participate in any support scheme, a qualification is required for registration. A qualification is also needed for CHP Production Devices, regardless of any licence or support scheme participation.

D.3.4.1. According to the GO Decree, MEKH shall establish in a decision at the request of the Production Device's owners or duly authorised agents, whether the Production Device is suitable for the generation of RES or CHP electricity.

D.3.4.2. The request for the qualification of the Production Device involved in high-efficient cogeneration may be submitted after the start of commercial operation.

D.3.4.3. The request for qualification may be submitted via the form published at the website of the MEKH:

<http://www.mekh.hu/eromuegysegek-minositese>

In case of a request for a CHP qualification, additional calculations shall be made in order to prove primary energy savings. The calculation sheet is accessible on the website of MEKH:

http://www.mekh.hu/download/a/28/01000/nagy_hatasfoku_kapcsolt_energiatermeles_szamitasara_vonatkozo_segedlet_v3.xlsx. It shall be filled out and attached to the application form.

D.3.4.4. The documents below shall be attached to any request:

- single line electric wiring diagram from the generator to the connection point and a single line heat pattern, including the points of measurement of electricity fed into the public utility system, of the useful heat generated and put out and of the fuel input;
- validation certificates of consumption meters;
- certificate issued by the metropolitan and county government office exercising the powers of measurement and technical safety authority to verify that the consumption meter and the arrangement thereof is suitable to fulfil the conditions determined in section D.3.2.3., provided that the request is aimed at obtaining the qualification of high efficiency co-producer;
- declaration in which the producer agrees to keep authentic records of the consumption of the various types of fuels and making such data available to the MEKH for any Production Device unit enabling the use of different fuels;
- system connection contract for any Production Device of a total installed capacity below 0.5 MW;
- statement on whether or not the Production Device was established with investment aid and
- the specification of the aid system, the grantor of the aid, the amount, currency and the details of the disbursement of the aid, if the Production Device received investment aid.

During the procedure of issuing a decision on qualification, all data should be submitted to MEKH that is needed for a later registration.

D.3.4.5. CHP qualification may only be granted if all validated consumption metering equipment necessary for performing the calculations determined in the Decree on the calculation method to be applied to determine the volumes of RES or CHP electricity together with useful thermal energy and of useful heat have been installed. Documentation attached to the application shall prove that the meters are valid and that the meter readings are appropriate to determine all relevant volumes. Valid meter readings for a relevant reference period are also to be attached to the application.

- D.3.4.6. A Production Device may only be granted the qualification of high-efficiency cogeneration, if its electricity production examined in the qualification process meets the energy savings requirements determined in the CHP Decree.
- D.3.5. The Registrant may initiate the registration of a Production Device, if it fulfills the criteria set in D.3.1, – including that there is a decision (licence, support scheme eligibility, or qualification) in effect regarding that Production Device.
- D.3.5.1. The Registrant must warrant that the information provided to MEKH in connection with its application is complete and accurate and that the Production Device meets the qualification criteria for EECS GOs or National GOs.
- D.3.5.2. In case the Account Holder wishes to register a Production Device owned by a third party in the Registry, they shall provide proof of their procedural and representative authorisation. Where the Account Holder is not the owner of the Production Device, in addition to initiating the registration in the Registry, the Account Holder shall submit to MEKH the power of attorney of the owner of the Production Device. The power of attorney shall be in the form of a notarial deed or a private document with full probative value. The power of attorney shall include its duration, that the Production Device owner agrees that the GOs for the electricity generated by the Production Device may be requested by the Account Holder and registered to the Account of the Account Holder, and that the Production Device details may be publicly displayed in the Registry and on the Registry Provider's website. These requisites and other rules are set in the Agreement.
- D.3.5.3. The Registrant must submit a registration form with the following data using the online registry (see Production Device registration form screenshots in Annex 4):
- Production Device: name, address, registrant, start date, commissioning date, installed capacity, earmark name and type, network operator (measurement body), operator, applied EECS schemes and all owners.
 - Codes of all possible Fuels, which can be converted into energy by that Production Device. According to fuel codes in AIB EECS Fact Sheet 5.
 - Technology code of the Production Device according to technology codes in AIB EECS Fact Sheet 5.
 - Determination of the account where GOs originating from that Production Device are to be issued.
- D.3.5.4. By registering a Production Device for the purpose of EECS, Production Device owners or authorized agents accept that MEKH publishes limited data of the Production Device:
- Name;
 - Domain;
 - GSRN number;
 - Fuel(s);
 - Technology;
 - Installed capacity;
 - Date of commissioning;
 - Location;
 - Name and address of operator;
 - Support schemes.

As the Production Device is registered in the Registry, it is assigned a unique identifier, if one has not already been assigned. The identifier consists of a number

with 18 numeric characters that also identifies the Domain of origin. GSRN (Global Service Relational Number) coding is used.

D.3.5.5. MEKH validates the application internally. MEKH can verify data of the Production Device application including, but not limited to:

- Ownership;
- Metering;
- Date of commissioning;
- Date of qualification;
- Installed capacity;
- Location;
- Fuel(s) type;
- Technology type.

D.3.5.6. MEKH checks whether a Production Device is in receipt of (or has previously been received) a fixed rate support according to section C.3.1. This is checked by MEKH during the Production Device registration process. In the case that the Production Device has exited a Support Scheme mid year, suppliers can declare supported RES for Fuel Mix purposes up until the date they exited support and GOs can only be issued from the next month of the date the Production Device exited the Support Scheme.

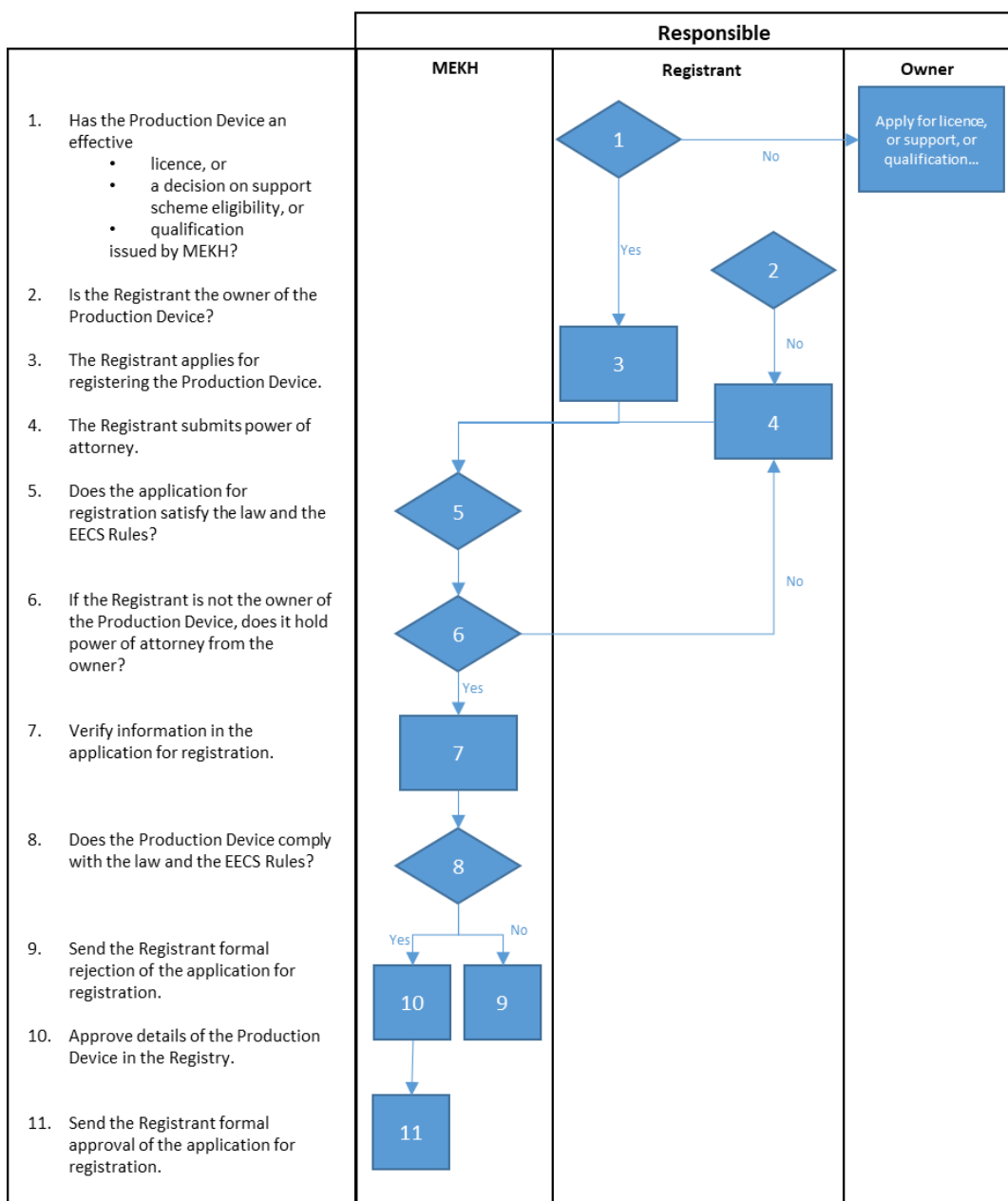
D.3.5.7. If the Production Device satisfies the Hungarian laws and the EECS Rules, and if the data of the Production Device provided by the Registrant correspond to the data that are set in the effective decision of MEKH on the Production Device (see D.3.1-4. on licence, support scheme eligibility or qualification decision), MEKH approves registration and activates the Production Device in the Registry. If MEKH detects a deficiency or non-conformity on the registration form in the Production Device data, MEKH will initiate a consultation with the Account Holder.

When the Production Device is activated, MEKH informs the registrant accordingly. The deadline of MEKH for the registration process (set in the Agreement) is 40 days.

D.3.6. A Production Device is eligible for EECS GOs or National GOs that relate to the electricity that was fed into the grid after the date of issuance of

- the licence, or
- the decision of MEKH on eligibility to participate in a support scheme, or
- the qualification.

D.3.7. When re-registering a Production Device, MEKH satisfies itself that the relevant records in the Registry adequately describe that Production Device. Production Device is checked again according to section D.3.1-5.



D.4 De-Registration of a Production Device

D.4.1. The Registrant or the owner of a Production Device may request the deregistration of the Production Device. Such request must be submitted to MEKH in written form. MEKH will deregister the Production Device in 40 days from the date of receipt by MEKH.

D.4.2. After deregistration no EECS GOs or National GOs will be issued for the output of the Production Device.

D.5 Maintenance of Production Device Registration Data

D.5.1. The expiry date of any licence or support scheme eligibility is set in the licence or MEKH decision. The qualification of a Production Device expires after five years. Re-qualification and re-registration of a Production Device is made by re-submitting applications as described in section D.3.

D.5.2. According to relevant legislation and according the MEKH decisions, in case of any relevant change, the licensee (above 0,5 MW), the operator of a qualified Production Device and also the operator of a Production Device that benefits from a support scheme, should inform MEKH as soon as possible. If any data that is included in the licence changes, an application for amendment of the licence should be submitted. If a capacity increase exceeds a licencing limit³, an application for the relevant licence should be submitted to MEKH. The decision on support scheme eligibility and the qualification decision shall not be amended by all means, but the operator shall submit relevant data and MEKH and MEKH has the power to withdraw qualification, if it is reasonable.

If such information or application is submitted to MEKH, MEKH also checks if the Production Device has a registration in the Registry.

According to the Agreement, the Registrant of a Production Device must notify MEKH of any planned changes due to come into effect that will result, or unplanned changes that have resulted, in:

- the information recorded in the Registry in relation to the Production Device becoming inaccurate; or
- the qualification criteria for registration ceasing to be satisfied with respect to that Production Device.

D.5.2.1. The deadline for notification:

- no less than 30 days prior to any planned change and
- in no more than 5 days after becoming aware of any change which may not be planned in advance to the MEKH.

D.5.2.2. On receipt of a change of details notification (following an inspection or otherwise), MEKH will evaluate the impact of the changes on the qualifying criteria and respond to the Registrant within 40 days specifying the decision taken.

D.5.3. In case of capacity increase the existing Production Device is updated in the Registry.

D.5.4. In the event of becoming aware of any information indicating that the requirements for the registration are not fulfilled, the MEKH shall withdraw its qualification decision and the Registry record for that Production Device will be updated to show that the Production Device no longer qualifies for GOs with effect from:

- (in relation to planned changes notified in advance) the date on which such planned changes are due to come into effect; or
- (in relation to other changes) as soon as reasonably practicable after becoming so aware.

D.6 Audit of Registered Production Devices

D.6.1. As the Hungarian National Regulatory Authority for energy, MEKH conducts regular inspections on Production Devices in order to check the operation of licencees and other electricity generators and the proper functioning of the electricity system and support schemes. Besides this, inspections also serve the purpose to check whether or not the information in relation to the provision of EECS is accurate. The inspection aims to ensure that the Registrant is complying with relevant obligations and with Product Rules, and meets PD qualification criteria. Additionally, MEKH checks the measuring device: assess if it is properly positioned to correctly measure the quantity produced and the accuracy of measurement devices is acceptable in accordance with the existing regulatory framework. The formula for calculating the

³ Under 0,5 MW installed capacity no licence needed. Between 0,5 and 50 MW installed capacity a simplified licence (one licence for establishment and operation) is needed. In case of installed capacity 50 MW or greater separate licences are needed for establishment and operation.

amount of GOs that might be issued upon electricity production is also reviewed during an inspection.

D.6.2. The period between inspections of a Production Device will not exceed 5 years. The inspection may be onsite audit or on the basis of data and documents.

D.6.2.1. Scheduled inspections are carried out in accordance with the annual inspection plan of MEKH. Scheduled inspections include Production Devices with an installed capacity 0,5 MW or more.

D.6.2.2. Unscheduled inspections are carried out to investigate complaints, accidents or disturbances, accidents related to Production Device, as well as if the declarations of conformity of operation of the energy facility indicate technical safety, risks, hazards to individuals, society and the environment.

D.6.3. If a Production Device fails to pass the requirements of the audit or the registration information has changed significantly, no EECS GOs or National GOs will be issued before corrective actions have been performed. If an inspection identifies material differences from the details recorded in the Registry, MEKH reserves the right to request the Account Holder to re-apply for registration.

D.6.4. If an inspection identifies material differences from the details recorded on Registry, the issuing of certificates is suspended until the discrepancies with registered data and regulative framework are overcome.

D.6.5. MEKH can check at any time a registered Production Device to determine whether the electricity is generated from a renewable energy source and whether the measurement of the produced electricity and EECS Domain Protocol other measures necessary for the production from renewable energy sources as mentioned in the application file, corresponds with reality.

D.6.6. Refusal to permit access may be considered a breach of the Standard Terms and Conditions.

D.7 Registration Error/Exception Handling

D.7.1. Any errors in EECS Certificates resulting from an error in the registered data of a Production Device will be handled in accordance with section E.8.

D.7.2. Where MEKH becomes aware that a Production Device no longer fulfils, or will no longer fulfil, the registration criteria, the Registry record for that Production Device will be updated to show that the Production Device no longer qualifies for GO with effect from:

- (in relation to planned changes notified in advance) the date on which such planned changes are due to take effect; or
- (in relation to other changes) as soon as reasonably practicable after becoming so aware.

MEKH will notify the AIB of such breach where MEKH is of the reasonable opinion that such breach could affect the transfer of EECS Certificates out of its Registry into the Registry of another Registrant.

D.7.3. If MEKH detects errors in the details of any Production Device in the Registry, it will correct them without any delay. The relevant Account Holder will be informed of such actions.

E Certificate Systems Administration

E.1 Issuing EECS Certificates

E.1.1. Only for Production Devices connected to the Hungarian electricity grid and registered in the Registry can GOs be requested for issuing. All electricity injected

into the electricity grid is measured by independent network operators that operate as measurement bodies.

- E.1.2. An EECS GO or a National GO shall be issued per unit of electricity produced from renewable energy sources (RES GO) or high efficient cogeneration (CHP GO) and supplied (injected) to the electricity grid. No EECS GO or National GO shall be issued for electricity consumed for producer's own needs as auxiliary electricity. The face value of one (1) GO is one (1) MWh. No more than one EECS GO or no more than one National GO shall be issued per unit of electricity produced from renewable energy sources, i. e. each energy unit shall be considered only once. No other certificate for the same purpose is in existence in Hungary.

GOs can be issued only

- if the Production Device has a decision set in D.3.1. that is effective in the production period and if criteria, and
- if the measurement criteria set in E.3. are fulfilled.

When a Production Device is out of service, no GOs can be issued for any electricity injected into the electricity grid by this Production Device.

- E.1.3. A Producer is not entitled to the EECS GO or National GO issued for the electricity produced from renewable energy sources and supplied (injected) to the electricity grid if they receive KÁT fixed rate support according to section C.3.1.

- E.1.4. MEKH issues GOs upon request of the Account Holder. The Account Holder can request the issuance of GOs

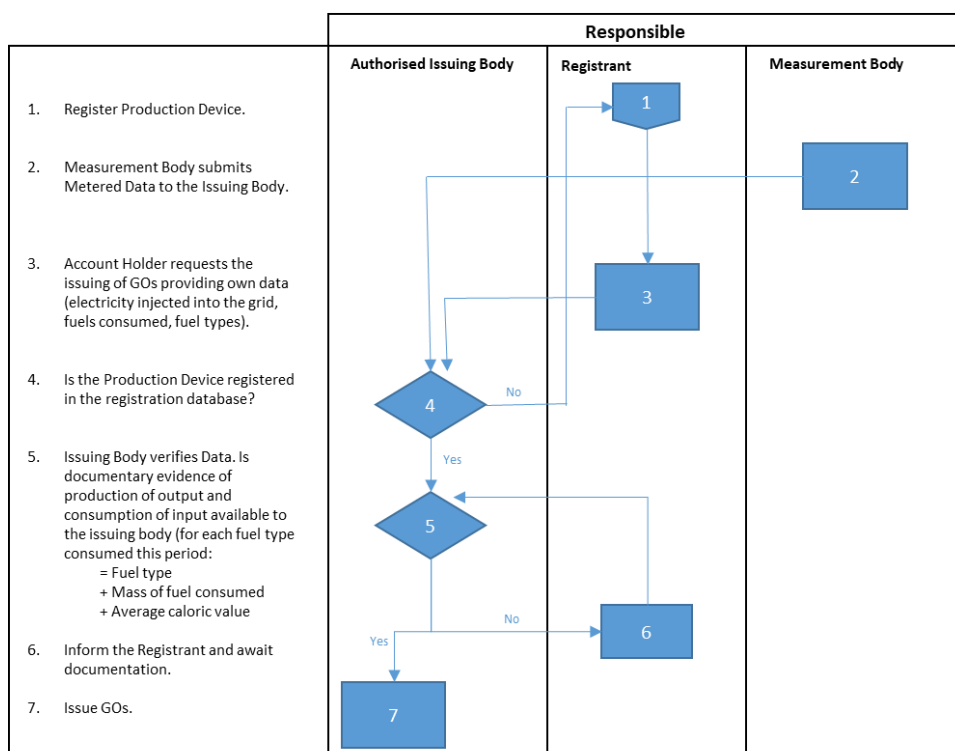
- after the metered data are provided by the measurement body (according to E.2.2. and E.3.2.), and
- no later than 6 calendar months after the production month.

MEKH approves request within 75 days from request, according to the provisions of Act CL of 2016 on General Public Administration Procedures (hereafter **Public Administration Act**) and Act XXII of 2013 on the Hungarian Energy and Public Utility Regulatory Authority. The issuing date is when MEKH approves the request and issues the requested GOs.

- E.1.5. The only difference between EECS GOs and National GOs is that National GOs refer to electricity generated before the Date of Entry.

- E.1.6. GO Certificate template is inserted in Annex 5.

E.2 Processes



E.2.1. The Account Holder has an account set up with Production Devices listed under the account.

E.2.2. The Measurement Bodies submit metered data to MEKH from Production Devices with an installed capacity from 0,5 to 49,99 MW by the 22nd of the next calendar month, metered data of Production Devices with an installed capacity of 50 MW and above until the 15th of the next calendar month.

E.2.3. The Account Holder submits a request for the issuing of EECS GOs or National GOs providing their own metered data no later than 6 calendar months after the production month. (In case of CHP, GOs are issued for a one-year-long production period.)

E.2.4. MEKH conducts an administrative procedure based on the provisions of Public Administration Act upon the request and during this procedure examines and compares the measurement data submitted by the measurement body and the Account Holder. If the data are accurate, MEKH issues an official instrument in a decision within 75 days from request and issues EECS GOs or National GOs based on this decision.

If concern arises about the accuracy of the measurement data or any other data in the request, MEKH advises the measurement body and/or the Account Holder in a ruling in order to clear up the data.

The Face Value of a GO is 1 (one) MWh. Qualifying Output produced by a Production Device which is less than the Face Value may be carried over until the Qualifying Output is sufficient to issue a GO.

E.2.5. In case of a request for CHP GO, the request shall contain

- the lower (net) calorific value of the source of fuel used for electricity generation to two decimals' precision;
- the volume and use of the heat cogenerated with electricity;
- the amount of primary energy savings calculated as provided in the Decree on the calculation method to be applied to determine the volumes of electricity

produced by high-efficiency cogeneration together with useful thermal energy and of useful heat (see the same calculation sheet that is referred in D.3.4.3.).

All the volumes shall be proved with valid metering documentation. After receiving all the necessary meter readings (electricity and energy sources as well) MEKH verifies if the primary energy saving is enough to fulfil the criteria for issuing CHP GOs, according to the following formula:

$$PES = \left(1 - \frac{1}{\frac{CHP H\eta}{Ref H\eta} + \frac{CHP E\eta}{Ref E\eta}} \right) \times 100\%$$

Where

- PES is the primary energy savings
- CHP H η is the heat production efficiency of cogeneration
- Ref H η is the efficiency reference value for separate heat production
- CHP E η is the efficiency of electricity production from cogeneration
- Ref E η is the efficiency reference value for separate electricity production.

E.2.6. Issued EECS GOs and National GOs are deposited into the Account(s) nominated by the Registrant of the Production Device.

E.2.7. MEKH informs Account Holder about the Issue of the Certificates via sending the official instrument. An Account Holder is treated as the owner of the EECS GOs and National GOs that are in its account.

E.2.8. MEKH issues EECS GOs and National GOs automatically for production with fixed rate support KÁT described at C.3.1. to the Account of the Hungarian TSO MAVIR from 2022. These GOs will be sold by MAVIR through auction on the organized electricity market according to Article 19(2b) of RED18. The auctions start from 1st June 2022. The income from the auction cover the costs of the KÁT scheme.

E.2.9. The certificate data specified by the EECS Rules shall not change in any way once an EECS Certificate has been properly issued, except to indicate that it has expired, cancelled, or withdrawn.

E.2.10. RES GOs shall contain the following data:

- the source of energy used to generate electricity and the dates on which generation commenced and ended;
- information on whether the guarantee of origin applies to electricity or heating and/or thermal energy;
- the name, location, type and installed capacity of the facility generating the energy;
- information on whether or not the facility received any investment aid;
- information on whether or not the energy unit received any aid from any national support scheme in any other form and from which support scheme;
- the date of commissioning of the facility;
- the date and country of issue;
- and the unique ID code of the guarantee of origin.

E.2.11. CHP GOs shall contain the following data:

- the name, location, type and installed capacity of the facility generating the energy (thermal energy and electricity);
- the date of commencing and finishing of electricity generation in the period for which the guarantee of origin was issued and the location of generation;

- the lower (net) calorific value of the source of fuel used for electricity generation;
- the volume and use of the heat cogenerated with electricity;
- the volume of electricity subject to the guarantee of origin and produced by high-efficiency cogeneration;
- the amount of primary energy savings calculated as provided in the Decree on the calculation method to be applied to determine the volumes of electricity produced by high-efficiency cogeneration together with useful thermal energy and of useful heat;
- the nominal electricity and heat generation efficiency rate of the power plant unit;
- information on whether or not the facility received any investment aid;
- information on whether or not the energy unit received any aid from any national support scheme in any other form and from which support scheme;
- the date of commissioning of the facility;
- the date and country of issue;
- the unique ID code of the guarantee of origin.

E.3 Measurement

- E.3.1. Only Production Devices that are equipped with metering equipment that complies with the relevant regulations for the trading of generation energy shall be registered. Production metering equipment is located between Production Device and transmission/distribution grid and measures net generated electricity transmitted to transmission or distribution grid.
- E.3.2. Hungarian TSO and DSOs provide metered data of the monthly production of the Production Device to MEKH within 15 or 22 days of the end of the month, depending on the installed capacity of production device as it is described in E.2.2. According to the Electricity Act, TSOs and DSOs are responsible for the measurement.

E.4 Energy Storage (Including Pumped Storage)

- E.4.1. Energy leaving an energy storage does not qualify for the issuing of GOs.
- E.4.2. There are no pumped storage facilities in Hungary.

E.5 Combustion Fuels (e.g. Biomass)

- E.5.1. For co-firing Production Devices, EECS GOs or National GOs for RES shall be issued only for the electricity that is produced from RES, with regards with the percentage of specific biomass or biogas source.
- E.5.2. For all Production Devices that can be operated with multiple fuels, the volume of electricity generated from RES and to be taken into regard for EECS GO or National GO shall be calculated proportionately, broken down based on the composition of the amount of fuel input according to energy sources. The calculation shall be made by the producer in monthly breakdown and substantiated by reasonably acceptable, authentic metering documents attached to the application form. Registrant should submit the calculations and the documents to MEKH. Template for the calculation is inserted in Annex 6. Such fuel declarations are always verified by MEKH before associated EECS GOs or National GOs may be issued. The calculation methodology follows the provisions set in N6.3.2. of the EECS Rules.

A person submitting a Production Declaration in relation to a Production Device for which there is more than one Input shall be obliged to submit (in respect of the same period as that to which the Production Declaration relates) a Consumption Declaration for each combustible Input and to specify therein:

the values of M^1, C^1, \dots, M^n and C^n ; and

as the Energy Input Factor for that Input and that period, a factor no greater than L, where L is the proportion of the total Output produced during this period by the relevant Input and is calculated as follows:

$$L = \frac{M^1 \times C^1}{(M^1 \times C^1) \dots + (M^n \times C^n)}$$

Where

- M¹ is the mass of the relevant Energy Input for that Production Device during the relevant period
- C¹ is the average calorific value of the relevant Energy Input for that Production Device during the relevant period
- Mⁿ is the mass of each relevant Input other than the relevant Input for that Production Device during the relevant period
- Cⁿ is the average calorific value of each relevant Input other than the relevant Input for that Production Device during the relevant period.

E.5.3. If MEKH suspects that information regarding a declaration is incorrect, it immediately stops the issuance for the Production Device. After this, MEKH contacts the owner(s) to find out if the discrepancy can be solved. If not, MEKH starts an investigation, which may include an onsite inspection. Issuing may be done only when discrepancies have been solved.

E.6 Format

E.6.1. EECS Certificates shall be Issued in such format as may be determined by AIB from time to time.

E.6.2. EECS Certificates are issued based on the format of the electronic database provided by the software provider Grexel.

E.7 Transferring EECS Certificates

E.7.1. An Account Holder can get secure electronic access to the Account to make transfers of EECS GOs or National GOs to another Account in the Registry or to make transfers of EECS GOs to another EECS Registration Database for EECS GOs in another Domain through the AIB Hub.

E.7.2. Only persons duly authorized by the Account Holder may request the transfer of EECS GOs or National GOs out of that Account Holder's Transferable Account. Authorized persons must be identified on the Agreement. Authorized persons can also later be added by the root user(s) of that Account Holder.

E.7.3. Only EECS GOs can be transferred to and from the Registry.

E.7.4. The initiation of transfers is done in the Registry by the selling Account Holder. The selling Account Holder has to specify the followings:

- the amount of GOs that are requested to be transferred,
- the Domain of receiving Account Holder, and
- the receiving Account Holder.

E.7.5. The transfer of EECS GOs or National GOs and the confirmation of that transfer are automated. When the Account Holder has initiated the transfer, the system instantly displays a message of whether or not the initiation has been successful. GOs that are initiated to be transferred cannot be initiated to another transfer until they appear at the receiving Account Holder's account or the initiation becomes unsuccessful.

E.7.6. When transferring between two accounts in the Registry, the EECS GOs and the National GOs are automatically transferred to the receiving account if the initiation

of the transfer is successful. If the initiation of the transfer is not successful, the certificates do not leave the Account of the original Account Holder.

- E.7.7. When transferring between Accounts in two different registries, the success of the transfer is subject to the verification process of the AIB HUB and the receiving registry. If the transfer is not successful, the certificates are returned to the Account of the original Account Holder.
- E.7.8. In transfers between Accounts in two different registries, MEKH will cooperate with other Members of the EECS scheme to amend its own, or the other Members' Account Holder information.
- E.7.9. Where it is impossible to transfer for technical reasons, this can be overcome by cancelling certificates for use in another domain, with the agreement of the importing issuing body. Any such cancellations are notified to the "importing" issuing body and the AIB Secretariat.
- E.7.10. EECS GOs and National GOs that have been cancelled, withdrawn or expired are not available for transfer.

E.8 Administration of Malfunctions, Corrections and Errors

- E.8.1. Once issued, the details of an EECS GO or National GO cannot be altered or deleted except to correct an error.
- E.8.2. MEKH has the right to perform corrective actions such as withdrawal or transfer of EECS GOs or National GOs in the Registry where EECS GOs or National GOs have been erroneously issued or transferred.
- E.8.3. If an error occurs in the measurement data on which basis EECS GO or National GO is created, MEKH will correct this error. If EECS GOs or National GOs are not issued correctly, i.e. larger quantity, and traded, the error will be corrected in future issuing a reduced number of certificates in the next period.
- E.8.4. Where it is impossible to transfer for technical reasons, this can be overcome by cancelling EECS GOs for use in another domain, subject to an agreement between MEKH and the importing Issuing Body.
- E.8.5. MEKH shall correct all errors in, or with respect to, that EECS GO and any errors replicated in EECS GOs split from it, provided that such EECS GO(s) have not been transferred out of that Transferable Account.
- E.8.6. In case the EECS GOs are no longer in the Hungarian domain, MEKH will cooperate with other Issuing Bodies to withdraw or correct the erroneous EECS GOs.
- E.8.7. MEKH will make all available effort to prevent undue enrichment of any Account Holder as a result of erroneous EECS GOs or the correction of erroneous EECS GOs.

E.9 End of Life of EECS Certificates – Cancellation

- E.9.1. Cancellation is removing an EECS GO or National GO from circulation by MEKH as a Member of the EECS Scheme. Once Cancelled, an EECS GO or National GO cannot be moved to any other account, and so is no longer tradable. The expired EECS GOs and National GOs are not valid for cancellation. Only EECS GOs and National GOs may be cancelled in the Registry.
- E.9.2. GOs can be used solely for the purpose of disclosure. Both EECS GOs and National GOs may be used in the fuel mix disclosure of electricity consumption in Hungary.⁴ GOs shall be cancelled in the Registry only for electricity mix disclosure purpose.

⁴ As National GOs refer to electricity production before the Date of Entry, National GOs might be used only to cover electricity consumption of years 2022 or before (see C.2.4., C.2.6.).

E.9.3. EECS GOs and National GOs may be cancelled for use in countries or areas which are not a Domain in relation to EECS GOs (hereafter **Ex-Domain Cancellation**). Ex-Domain Cancellation for such countries or areas will only be technically enabled if there is considerable market interest and an agreement between MEKH and competent authorities in the beneficiary country or area of basic principles of GO trade and disclosure. MEKH must also be reasonably assured that Ex-Domain Cancellation in the other country or area will not be used in a fraudulent or otherwise inappropriate way.

E.9.4. EECS GOs may only be cancelled for use in other EECS GOs Domains if the transfer of such EECS GOs to the other Domain is not possible and provided that there is a Cancellation Agreement with the Scheme Member of that other Domain.

E.9.5. Account Holders possessing EECS GOs or National GOs in the Registry can perform cancellations by executing the transaction in the Registry. The Account Holder must specify the EECS GOs or National GOs to be cancelled as well as the country of consumption, cancellation purpose, usage category, name, type and location of beneficiary and related consumption period. The Account Holder may choose to cancel part or all of a given certificate bundle or several bundles. The cancellation is done when MEKH approves the transaction.

E.9.6. Cancelled EECS GOs and National GOs are removed from the Transferable account by changing their status to “cancelled” so they do not appear in any Account of the Registry after the cancellation. After the approval of the cancellation by MEKH, the Account Holder has full access to see the details of the cancellation process in the Registry and generate a Cancellation Statement from there or they can order an official Cancellation Statement from MEKH.

Cancellation Statement template is inserted in Annex 7.

E.9.7. Having performed a cancellation, the Account Holder receives confirmation of a successful or failure cancellation process instantly in the Registry.

E.10 End of Life of EECS Certificates – Expiry

E.10.1. EECS GOs and National GOs automatically expire 12 months after the end of the related production period.

E.10.2. EECS GOs and National GOs which have expired, will have such status in the Registry and are no longer valid for transfer, export, cancellation or any other operation. It is not possible at all to validate an expired certificate for any operation.

E.11 End of Life of EECS Certificates – Withdrawal

E.11.1. EECS GOs and National GOs which have been withdrawn are no longer valid for transfer nor cancellation.

E.11.2. MEKH may withdraw an EECS GO or National GO held in an Account on its Registry at the request of the Account Holder of that Account, or otherwise in accordance with the provisions of the EECS scheme as described in E.8.



F Issuer's Agents

F.1 Production Auditor

F.1.1. As the Competent Authority for Guarantees of Origin in Hungary, MEKH acts as the Production Auditor and conducts inspections of Production Devices.

F.2 Production Registrar

F.2.1. MEKH Acts as the Production Registrar in the Hungarian EECS domain and verifies production data as part of the registration process.

G Activity Reporting

G.1 Public Reports

G.1.1. Hungary's EECS GO Market Information is continually – at latest by 22nd of every month – published on CMO.grexel.com including:

- A list of Account Holders registered for the Scheme in the Hungarian Domain;
- A list of Production Devices registered for the Scheme in the Hungarian Domain;
- Information on certificates that have been Issued;
- Information on certificates that have been Transferred;
- Information on certificates that have been Cancelled (for use within Hungary; and for use in other Domains);
- Information on certificates that have been Exported;
- Information on certificates that have been Imported;
- Information on certificates that have Expired.

G.2 Record Retention

G.2.1. Retention of printed and electronic information regarding registries and data is done in accordance with the following table:

Data	Time	Medium
Standard terms and conditions and its appendices	Minimum 5 years (paper) and 10 years (scans) after termination of contract	Paper Copies and Electronic forms
Production Device Registration forms, audit reports	Minimum 10 years after de-registration	Electronic forms
Issuing Request (Consumption Declaration / Production Declarations)	Minimum 10 years	Electronic forms
Transfer requests	Minimum 10 years	Electronic forms
Transaction data	Minimum 10 years	Database backups

G.2.2. MEKH retains all records to which it has had access relating to any EECS GO on its EECS Registration Database which is the subject of a Transfer Request for not less than 10 years after its Cancellation or Expiry (or such longer period as may be required by applicable national legislation).

G.2.3. All data stored in the Registry is backed up in order to ensure complete recovery from any possible data loss.

G.2.4. All data in the Registry is stored in a manner that support the transparent audit of all Account Holder, Production Device, transaction and certificate information.

G.3 Orderly Market Reporting

G.3.1. MEKH will inform the AIB in advance of any relevant changes in legislation about EECS scheme in Hungary, especially if it involves changes on this Domain Protocol. MEKH will inform AIB of any changes to legislation, processes and procedures or updates it would like to make to the Domain Protocol in advance of such change taking effect in order to get approval from the relevant Scheme Group.

G.3.2. MEKH will enforce the rules in relation to any act of non-compliance. MEKH will provide all required information to AIB to resolve or investigate such action.



H Association of Issuing Bodies

H.1 Membership

- H.1.1. AIB enables international transfer of EECS GOs under the European Energy Certificate System (EECS).
- H.1.2. AIB promotes the use of a standardized System, based on harmonized environment, structures and procedures in order to ensure the reliable operation of EECS GO Certificate Registries.
- H.1.3. In the case MEKH would be replaced by other Issuing Body for the Hungarian domain by a new law, AIB would be informed immediately. In this situation MEKH would take the necessary actions to guarantee a right transition to the new Issuing Body.
- H.1.4. Where MEKH ceases to be a Scheme Member of an EECS Scheme it shall revise its Registry so that every Production Device registered therein ceases to be registered for the purposes of each EECS Product in relation to the Output to which that EECS Scheme relates. The Registry shall be locked and no further issuing shall take place.

H.2 Complaints to the AIB

- H.2.1. Account Holder may file complaints to the AIB indicating that:
 - MEKH is in breach of any of the provisions of Product Rules in relation to that EECS product;
 - Any product rules do not comply with the relevant provisions of the EECS Rules.

I Change Control

I.1 Complaints to MEKH

- I.1.1. An Account Holder may file complaints against MEKH by sending an e-mail. If the complaint regards to a decision on MEKH side and MEKH finds that the complaint is justified, then MEKH will make all the efforts to correct the mistake as soon as possible and within a period of 20 working days. Treatment of the complaint and disputes will be made in accordance with the national legislation.

I.2 Disputes

- I.2.1. Disputes between two market parties, where the reason of the dispute is a mistake or technical error of MEKH, shall be notified as soon as possible via electronic mail. Disputes between market parties related to delayed or incomplete payment or other issues relating to contractual agreements between the parties will not be handled or resolved by MEKH.
- I.2.2. If MEKH and the Account Holder are unable to solve a dispute, the issue shall be resolved according to national legislation.

I.3 Change Requests

- I.3.1. An Account Holder may propose a modification to this Domain Protocol.
- I.3.2. Such a proposal will include a detailed description, including an exact specification of any proposed modification of this Domain Protocol and be passed in written form to MEKH.
- I.3.3. On receipt of such a request MEKH will:
 - I.3.3.1. Respond to the request within 60 working days, describing the procedures to be followed, and estimating when a reply can be expected;
 - I.3.3.2. Consult with the other EECS GO Scheme Participants within Hungary;
 - I.3.3.3. Decide whether the request and its consequences are in its opinion reasonable;
 - I.3.3.4. Inform the EECS GO Scheme Participants within Hungary of the outcome of this decision.
- I.3.4. MEKH may make such modifications to this Domain Protocol as are in its opinion necessary to the effective, transparent and efficient operation of the market.
- I.3.5. Any modifications to this Domain Protocol are subject to approval by the AIB (Assessment Panel in accordance with EECS rules section L5.2.1 and the prior consent of the General Meeting in accordance with the provisions of EECS rules section L5) that such changes do not conflict with the Principles and Rules of Operation of the AIB for The European Energy Certification Registry.
- I.3.6. Implementation of modifications will be notified by e-mail to the Participants and will take effect on publication of the documentation on the websites of AIB (www.aib-net.org) and MEKH (www.mekh.hu).

Annex 1: Contacts List

Authorised Issuing Body / Registry Operator / Production Registrar / Production Auditor

Hungarian Energy and Public Utility Regulatory Authority
Department of Electricity Price and Regulation
Ákos Hamburger
tel: +36 1 459 7707
e-mail: go@mekh.hu
www.mekh.hu
H-1054 Budapest, Bajcsy-Zsilinszky út 52.

Registry Provider

Grexel Systems Oy
Markus Klimscheffskij
Lautatarhankatu 6
FI-00580 Helsinki
Finland
T +358 9 42413169
markus.klimscheffskij@grexel.com

Measurement Bodies

MAVIR Magyar Villamosenergia-ipari Átviteli Rendszerirányító Zrt.
H-1031 Budapest, Anikó u.4.
www.mavir.hu
mkp@mavir.hu

E.ON Dél-dunántúli Áramhálózati Zrt.
H-7626 Pécs, Rákóczi út 73/b.
ertesites.ede@eon-hungaria.com

E.ON Észak-dunántúli Áramhálózati Zrt.
H_9027 Győr, Kandó K. u. 13.
ertesites.eed@eon-hungaria.com

OPUS TITÁSZ Áramhálózati Zrt.
H-4024 Debrecen, Kossuth u. 41.
opustitasz@opustitasz.hu



EECS Domain Protocol

ELMŰ Hálózati Kft.

H-1132 Budapest, Váci út 72-74.

cegkapuelmudso@elmuhalozat.hu

MVM ÉMÁSZ Áramhálózati Kft.

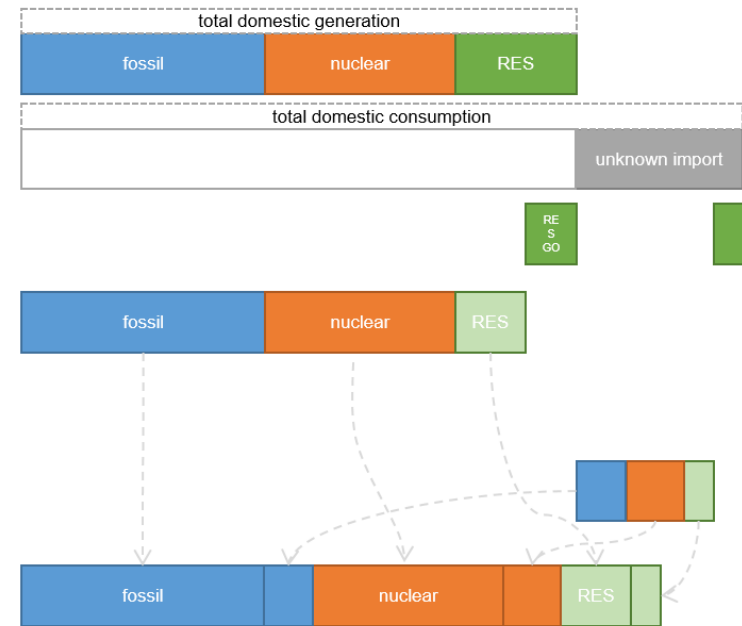
H-3525 Miskolc, Dózsa György út 13.

MVM Démász Áramhálózati Kft.

H-6724 Szeged, Kossuth Lajos sugárút 64-66.

Annex 2: Disclosure residual mix calculation process

#	Responsible party	Task	Deadline
1.	HEA	determining the energy mix of domestic net electricity generation for year X	1 st April year X+1
2.	HEA	determining gross electricity consumption and annual electricity exchange balance for year X	1 st April year X+1
3.	HEA	determining the amount of domestic and foreign GOs cancelled for consumption in year X	1 st April year X+1
4.	HEA	determining domestic residual mix (energy mix of domestic generated part of electricity consumed and not covered with GOs in year X)	20 th April year X+1
5.	HEA	sending domestic residual mix to AIB for calculating European Attribute Mix	30 th April year X+1
6.	AIB	determining European Attribute Mix	15 th May year X+1
7.	HEA	determining adjusted residual mix (energy mix of domestic electricity consumption not covered with GOs in year X)	31 st May year X+1
8.	Disclosure obligated parties (suppliers)	disclosure of product and supplier mixes (based on GOs used and corrugated residual mix)	1 st July year X+1



Annex 3: Account Application/Amendment Form

General	Type	Trading Schemes	Business Contact	Invoice Contact	Technical Contact
General Information					
Name	<input type="text"/>		Business Id	<input type="text"/> * e.g. HU454325325	
Start Date	<input type="text"/> YYYY-MM-DD		End Date	<input type="text"/> YYYY-MM-DD	
<input type="checkbox"/> Physical Person <input checked="" type="checkbox"/> Use Journals <input type="checkbox"/> IB					
Billing reference	<input type="text"/>		Purchase Order number	<input type="text"/>	
Domain	<input type="text"/> Hungary		Website	<input type="text"/> http://	
Business Address					
Street	<input type="text"/>				
PO Box	<input type="text"/>				
Zip code	<input type="text"/>			City	<input type="text"/>
Country	<input type="text"/> - Select -				

General	Type	Trading Schemes	Business Contact	Invoice Contact	Technical Contact
Organization Type					
Organization Type	<input type="text"/> - Select -				
Start Date	<input type="text"/> YYYY-MM-DD		End Date	<input type="text"/> YYYY-MM-DD	
<div>Add</div> <div>Back</div>					

General	Type	Trading Schemes	Business Contact	Invoice Contact	Technical Contact
Trading Schemes					
Trading Schemes	<input type="text"/> - Select -				
Start Date	<input type="text"/> 2021-05-31		End Date	<input type="text"/> YYYY-MM-DD	
<div>Save</div> <div>Back</div>					

General	Type	Trading Schemes	Business Contact	Invoice Contact	Technical Contact
Business Contact					
First Name	<input type="text"/>	*	Last Name	<input type="text"/>	*
Middle Name	<input type="text"/>		Title	<input type="text"/>	
Salutation	<input type="text"/>				
Street	<input type="text"/>				
PO Box	<input type="text"/>				
Zip code	<input type="text"/>	*			
Country	- Select -	▼ *	City	<input type="text"/>	*
Email	<input type="text"/>	*	Mobile Phone	<input type="text"/>	
Office Phone	<input type="text"/>	*			
Fax Number	<input type="text"/>				

General	Type	Trading Schemes	Business Contact	Invoice Contact	Technical Contact
Invoice Contact					
First Name	<input type="text"/>	*	Last Name	<input type="text"/>	*
Middle Name	<input type="text"/>		Title	<input type="text"/>	
Salutation	<input type="text"/>				
Street	<input type="text"/>				
PO Box	<input type="text"/>				
Zip code	<input type="text"/>	*			
Country	- Select -	▼ *	City	<input type="text"/>	*
Email	<input type="text"/>	*	Mobile Phone	<input type="text"/>	
Office Phone	<input type="text"/>	*			
Fax Number	<input type="text"/>				

General	Type	Trading Schemes	Business Contact	Invoice Contact	Technical Contact
Technical Contact					
First Name	<input type="text"/>	*	Last Name	<input type="text"/>	*
Middle Name	<input type="text"/>		Title	<input type="text"/>	
Salutation	<input type="text"/>				
Street	<input type="text"/>				
PO Box	<input type="text"/>				
Zip code	<input type="text"/>	*			
Country	- Select -	▼ *	City	<input type="text"/>	*
Email	<input type="text"/>	*	Mobile Phone	<input type="text"/>	
Office Phone	<input type="text"/>	*			
Fax Number	<input type="text"/>				

Annex 4: Device Registration Form

Production Device Registration				
Details Location Earmarks Fuels Technology Operator Licenses Owners Meters	Details			
	Name	<input type="text"/>	Registrant	<input type="text"/>
	Start Date	<input type="text" value="YYYY-MM-DD"/> <input type="text" value="00"/>	Commission Date	<input type="text" value="YYYY-MM-DD"/>
	Installed Capacity (MW)	<input type="text"/>	Estimated annual production (MWh)	<input type="text"/>
	Issuing body comment	<input type="text"/>		
	<input checked="" type="checkbox"/> Auto Generate GSRN			
	<input checked="" type="checkbox"/> Grid Connected		Registrar <input type="text" value="- Select -"/>	
	Grid Area	<input type="text" value="- Select -"/>		
			Radioactive waste produced (g/MWh)	<input type="text"/>
	<p>Note: Fields marked with an asterisk are mandatory</p> <p> <input type="button" value="Save"/> <input type="button" value="Submit"/> <input type="button" value="Reset"/> <input type="button" value="Next"/> </p>			

Production Device Registration				
Details Location Earmarks Fuels Technology Operator Licenses Owners Meters	Location			
	Street	<input type="text"/>	Country	<input type="text" value="Hungary"/>
	City	<input type="text"/>	Zip code	<input type="text"/>
	Latitude	<input type="text"/>	Longitude	<input type="text"/>
	Coordinate Code	<input type="text"/>		
	Ref: AIB Fact Sheet 16			
	<p>Note: Fields marked with an asterisk are mandatory</p> <p> <input type="button" value="Save"/> <input type="button" value="Submit"/> <input type="button" value="Reset"/> <input type="button" value="Previous"/> <input type="button" value="Next"/> </p>			

Production Device Registration

Details
Location
Earmarks
Fuels
Technology
Operator
Licenses
Owners
Meters

Earmarks

	Earmark Name	Description	Earmark Type
<input type="checkbox"/>	Investment Support	Investment Support	Investment Support
<input type="checkbox"/>	Production Support	Feed-in -tariff	Production Support

Note: Fields marked with an asterisk are mandatory

Save
Submit
Reset
Previous
Next

Production Device Registration

Details
Location
Earmarks
Fuels
Technology
Operator
Licenses
Owners
Meters

Fuel

Ref: AIB Fact Sheet 5

	Fuel Name	Code	Burning value, GJ/ton
<input type="checkbox"/>	Unspecified	F00000000	000,00
<input checked="" type="checkbox"/>	Renewable	F01000000	000,00
<input checked="" type="checkbox"/>	Fossil	F02000000	000,00
<input checked="" type="checkbox"/>	Nuclear/Solid/Radioactive fuel	F03010100	-

Note: Fields marked with an asterisk are mandatory

Save
Submit
Reset
Previous
Next

Production Device Registration

Details
Location
Earmarks
Fuels
Technology
Operator
Licenses
Owners
Meters

Technology

Ref: AIB Fact Sheet 5

	Technology	Code	
<input type="checkbox"/>	Anaerobic digestion	M010000	
<input type="checkbox"/>	Solar	T010000	
<input type="checkbox"/>	Wind	T020000	
<input type="checkbox"/>	Hydropower	T030000	
<input type="checkbox"/>	Marine	T040000	
<input type="checkbox"/>	Thermal	T050000	
<input type="checkbox"/>	Nuclear	T060000	
<input type="checkbox"/>	Other	T070000	
<input type="checkbox"/>	Not Defined	T999999	
<input type="checkbox"/>	Hydrogen	W000000	

Note: Fields marked with an asterisk are mandatory

SaveSubmitResetPreviousNext

Production Device Registration

Details
Location
Earmarks
Fuels
Technology
Operator
Licenses
Owners
Meters

Operator

☒ Operated by registrant
☐ Select existing AH as Operator
☐ Search Operator by Business Id

Operator	
Business Id	Operator Name
PO Box	Street
City	Zip code
Country	

Note: Fields marked with an asterisk are mandatory

SaveSubmitResetPreviousNext

Production Device Registration

Details
Location
Earmarks
Fuels
Technology
Operator
Licenses
Owners
Meters

Licenses

Add License

Purpose	- Select - *	Allocation Factor (%)	
License Start Date	YYYY-MM-DD *		
License Expiry Date	YYYY-MM-DD *		
Trading Schemes			
CHP Technology		CHP Use of Heat	
CHP PtoH Ratio			

Note: If "Installed Capacity" or "Commissioning Date" are left empty, the corresponding fields in the Details menu will be used.

AddBack

Note: Fields marked with an asterisk are mandatory

SaveSubmitResetPreviousNext

Production Device Registration

Details
Location
Earmarks
Fuels
Technology
Operator
Licenses
Owners
Meters

Owners

☒ Registrant owns 100%

Note: Fields marked with an asterisk are mandatory

SaveSubmitResetPreviousNext

Production Device Registration

- Details
- Location
- Earmarks
- Fuels
- Technology
- Operator
- Licenses
- Owners
- Meters**

Create Meter

Meter Code

*

Grid Reference

*

MWh Coefficient

1

☐ Manual

Description

☒ Incremental

Create

Reset

Gross Measurement

☐ Gross Measurement

Metering description

Note: Fields marked with an asterisk are mandatory

Save

Submit

Reset

Previous



EECS Domain Protocol

Annex 5: EECS GO Certificate

Transaction details

Transaction Type:	Issue
Transaction Date:	2021-10-08 12:18:18
Transaction Number:	2021100800001

Message to Receiver: -

From	To
Issuing Body: Magyar Energia Hivatal	Account Holder: Account Holder
Domain: Demo Hungary	Account: HU- Account Holder- 643002406600099357
Street: Street	Domain: Demo Hungary
Postal Code and City: Zip City	Street: -
Country: Hungary	Postal Code and City: 1111 Budapest
	Country: Hungary

Total

Total MWh:	136
Total HU-GO:	136

Certificate Number (From - To)	Volume Domain	Fuel, Technology	S/T	Issuing Date	Production Period	Production Device (GSRN, installed capacity, name)	Trading Schemes	Support Schemes
6430024065559 0241000000000 4344 To 6430024065559 0241000000000 4479	136 Demo Hungary	F01040100, T010000	S	2021-10-08	2021-05-01 To 2021-05-31	643002406676000059 10 MW Production Device	HU-GO	No support

2021-10-08 12:23:19 CET

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Production Device public information

Production Device Name:	Production Device
Production Device GSRN:	643002406676000059
Domain of Production Device:	Demo Hungary
Installed Capacity, MW:	10
Date of Commissioning:	2026-01-01
Location of Production Device:	1111 Budapest, HU
Technology:	T010000 - Solar
Fuel:	F01040100 - Renewable/Heat/Solar
Investment support:	-
Production support:	-
CO2 Saved(kg/MWh):	-
Primary Energy Savings(MJ/MWh):	-
Primary Energy Savings(%):	-
Use of Heat Code:	-
Lower Calorific Value(MJ/kg, m3 or l):	-
CO2 Emissions(kg/MWh):	-
Thermal Capacity(MW):	-
Mechanical Capacity(MW):	-
Overall Primary Energy Savings(%):	-
Useful Cogeneration Heat(GJ/MWh):	-
Electrical Efficiency(%):	-
Thermal Efficiency(%):	-



EECS Domain Protocol

Annex 6: Calculation Template for Co-Firing Production Devices

PD monthly data for mixed combustion
PD name:
PD site address:
Grid reference:

Name		Data	Check	Comment	Data entry or calculated field
Electricity balance					
Electricity produced	MWh			Electricity measured at the generator terminals	PD data entry
PD self-consumption	MWh			Technological self-consumption of electricity produced	PD data entry
Electricity self-consumption	%				PD data entry
Electricity supplied to public utility system	MWh				PD data entry
Electricity received from an external network belonging to PD	MWh			Electricity from an external network	PD data entry
Self-consumption	MWh			PD electricity consumption for full technology purposes	PD data entry
Heat energy balance					
Heat produced	GJ			Hot water or steam produced by PD	PD data entry
Heat loss	GJ				PD data entry
Heat expenditure	GJ			Useful heat released from PD	PD data entry
Heat self-consumption	%				PD data entry
Energy source balance					
Renewable energy source use	t				PD data entry
	m ³				PD data entry
	GJ/t				PD data entry
	GJ/m ³				PD data entry
	GJ				PD data entry
Non-renewable energy source use	t				PD data entry
	m ³				PD data entry
	GJ/t				PD data entry
	GJ/m ³				PD data entry
	GJ				PD data entry
Total heat consumption	GJ	0,000			Calculated field
Electricity ratio by energy source					
Renewable fuel consumption ratio	%	0,00%			Calculated field
Non-renewable fuel consumption ratio	%	100,00%			Calculated field
PD efficiency	%	0,00%		It is advisable to count for inspection	Calculated field
Maximum amount of GOs that can be issued					
Amount of GOs that can be issued	MWh	0		Renewable electricity sales	Calculated field
Non-renewable electricity	MWh	0			Calculated field



EECS Domain Protocol

Annex 7: EECS Electricity Cancellation Statement

This Cancellation Statement acts as a receipt for the EECS GOs listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and that this Cancellation Statement and these Certificates may not be transferred to any party other than the energy supplier or end-consumer.

Cancellation Statement

This cancellation statement acts as a receipt for the certificates listed below and for the purpose shown. With this Cancellation Statement, released on the Transaction Date, the indicated certificates are no longer tradable. Onward sale of this Cancellation Statement is prohibited. The environmental qualities of the associated energy have been consumed and this Cancellation Statement and these certificates may not be transferred to any party other than the energy supplier or end-consumer specified below.

Transaction details

Transaction Type:	Cancel
Transaction Date:	2021-06-14 10:49:08
Transaction Number:	2021061400002

Message to Receiver:

-

From	To
Account Holder:	Account Holder
Account:	HU- Account Holder- 643002406600099357
Domain:	Demo Hungary
Street:	-
Postal Code and City:	1111 Budapest
Country:	Hungary
Name of Beneficiary:	Consumer
Cancellation Purpose:	disclosure
Consumption Period:	2021-01-01 to 2021-12-31
Country of Consumption:	Hungary
Location of Beneficiary:	Hungary
Usage Category:	Disclosure
Type of Beneficiary:	End-consumer

Total

Total MWh:	1000
Total HU-GO:	1000

Certificate Number (From - To)	Volume Domain	Fuel, Technology	S/T	Issuing Date	Production Period	Production Device (GSRN, installed capacity, name)	Trading Schemes	Support Schemes
6430024065559 0241000000000 3344 To 6430024065559 0241000000000 4343	1000 Demo Hungary	F01040100, T010000	S	2021-06-14	2021-01-01 To 2021-01-31	643002406676000059 10 MW Production Device	HU-GO	No support

2021-10-08 13:25:41 CET

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EECS Domain Protocol

Production Device public information

Production Device Name:	Production Device
Production Device GSRN:	643002406676000059
Domain of Production Device:	Demo Hungary
Installed Capacity, MW:	10
Date of Commissioning:	2026-01-01
Location of Production Device:	1111 Budapest, HU
Technology:	T010000 - Solar
Fuel:	F01040100 - Renewable/Heat/Solar
Investment support:	-
Production support:	-
CO2 Saved(kg/MWh):	-
Primary Energy Savings(MJ/MWh):	-
Primary Energy Savings(%):	-
Use of Heat Code:	-
Lower Calorific Value(MJ/kg, m3 or l):	-
CO2 Emissions(kg/MWh):	-
Thermal Capacity(MW):	-
Mechanical Capacity(MW):	-
Overall Primary Energy Savings(%):	-
Useful Cogeneration Heat(GJ/MWh):	-
Electrical Efficiency(%):	-
Thermal Efficiency(%):	-

Magyar Energia Hivatal

Place: _____ Date: _____

Signature

Name in print: _____

2021-10-08 13:25:41 CET

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EECS Domain Protocol