

Guarantees of origin in Serbia

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What are the Guarantees of Origin (GO)?

- A guarantee of origin is an electronic document that has the exclusive function to demonstrate to the end customer that a certain amount of electricity is produced from renewable energy sources



Guarantees of origin

- Guarantees of origin offer customers the opportunity to express requirement for a “green” energy

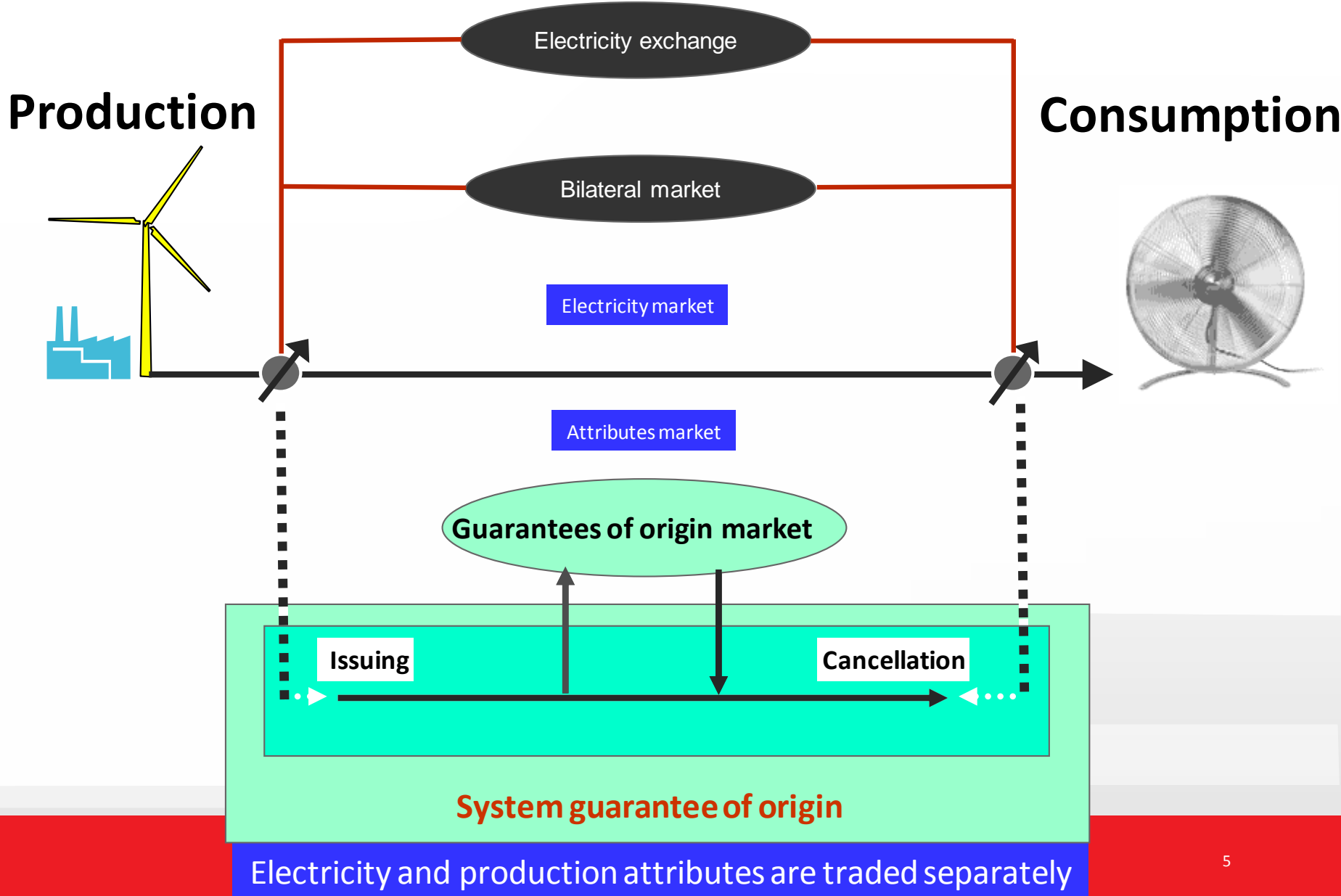


- It is not possible for the buyer to physically secure electricity from a specific source
- The electricity tracking system through the attributes enables this
- The Guarantees of origin system uses the certificates that guarantee the attributes of the produced MWh of electricity
- Providing reliable information to customers about the origin of energy they consume

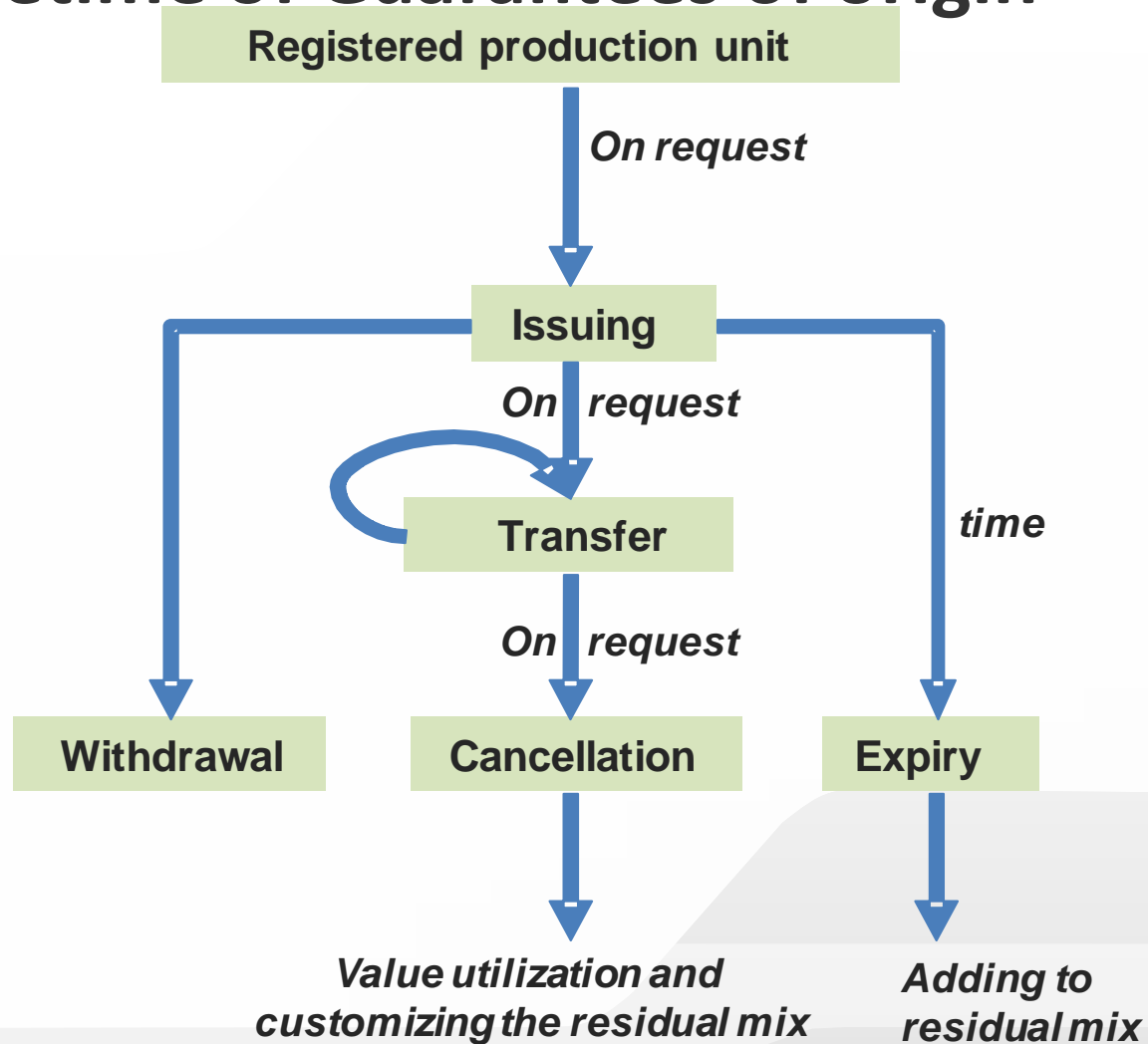
Concept of GOs

- Concept:
 - Guarantees of origin are issued to electricity producers
 - 1 guarantee = 1 MWh
 - Validity: 12 months
 - Guarantee of origin can be sold (transferred), canceled, exported from our domain
 - After expiry (12 months) GO that are not canceled go to national residual mix (owner can't use GO)

Monitoring of produced energy



Lifetime of Guarantees of origin



Regulation of guarantee of origin in Serbia

- Energy Law
- Decree on Guarantee of Origin 08.09.2017.
- Disclosure rules 27.10.2017.
- Domain Protocol 12.12.2017. (version 1)
- Domain Protocol 10.11.2019. (version 2 after AIB audit)
- Price Act 12.12.2017.

Market participants



Issuing Body



Registry Operator



Regulatory Authority

Issuing

Transferring

Cancellation

Producers from renewable sources



Producers, Suppliers



Suppliers



Market participants

- EMS AD BEOGRAD was appointed as the Issuing Body for GO for Serbia
- Registry users:
 - Electricity producers from renewable sources registered at Ministry of mining and electricity registry – receives guarantees of origin
 - Suppliers – use guarantees of origin for end costumers
 - Wholesale suppliers – trade with guarantees of origin
- Ministry keeps a registry of electricity producers from renewable sources in Serbia
- NRA supervises all participants whether they act in accordance with the legal provisions
- End customers

EECS Electricity Domain Protocol

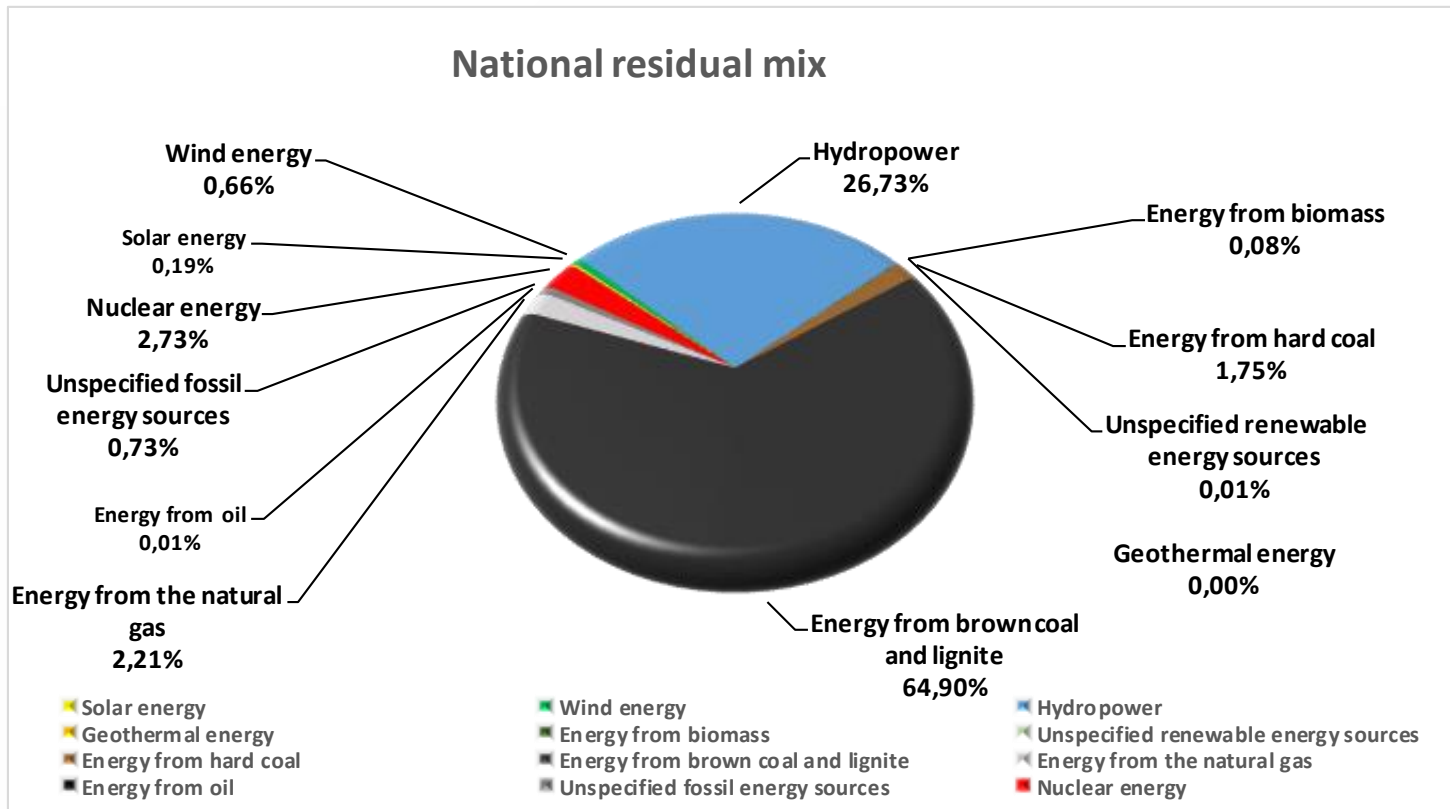
- Adopt by JSC EMS
- EECS Electricity Domain Protocol sets out:
 - The manner of registering the user of the guarantee of origin
 - Model of the agreement with users of the GO registry
 - Issuing, transferring, cancellation and withdrawal of guarantees of origin
 - Objection of the user of the GO registry
 - Publication of public data
 - and other issues necessary for keeping the GO registry
- EMS JSC adopts Domain Protocol in Serbian and English language

Disclosure rules

- Describes more closely the Calculation of the share of all types of energy sources in the sold electricity, as well as the method of controlling the calculation
- Disclosure rules consists of part that regulate publication of data and the Methodology containing the calculating part
- The supplier offers tariff packages to customers:
 - Tariff with certain share of RES
 - Tariff with no obligation to provide a share

National residual mix

- National residual mix report is published on our website

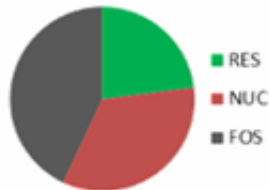


Guarantees of origin – obligations of the supplier

- Law dictates suppliers to provide information once a year to its end customers on the origin of the electricity they used in the previous year
 - For that purpose data on used guarantees of origin, energy feed-in system and national residual mix need to be accurate



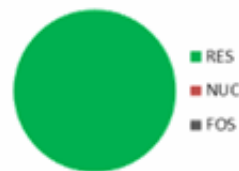
General mix of supplier



Delivered to all customers

Energy product mix

Green energy as a product



Delivered to customers of certain products of green energy, supported with guarantees of origin. Promotional material products

Residual mix of the supplier



Delivered to customers who do not consume a particular product of green energy. Promotional material supplier mix

Steps which EMS took for AIB full membership

- GO Technical assistance
- Becoming Observer in 2015
- IT platform procurement in 2015 (3 years renting)
- EMS wrote all necessary acts in 2017 – official start on issuing of national GOs
- Request for full membership
- Start of the audit
- New 3 years contract with IT platform provider

2011

2015

2017

2018

Steps which EMS took for AIB full membership

- Correcting of all points spotted on audit
- Sign the AIB Hub participant agreement – Approval of membership – start of AIB membership fee payment
- In same time new Domain protocol – starting of EECS GOs
- Start of insurance policy procurement
- Appliacion for GS1 scheme in Serbia
- Test HUB connection
- Connected to the Hub

2018

2019

2020

today

Internationally recognized guarantees of origin

- Membership in the AIB allows for the guarantees of origin from the Republic of Serbia to be recognized in other members of the AIB, and that the guarantees of origin from other AIB countries are recognized in the Republic of Serbia
- Import and export of guarantees of origin through AIB HUB
- In Serbian Guarantees of Origin Registry (CMO.Grexel) are currently registered:
 - 10 Account holders (Wholesale Suppliers, Suppliers and Producers)
 - 10 Production Units

GO Registry

- All the questions related to the Issuing and Administration of Guarantees of Origin process can be submitted to the:
 - e-mail address (grexel-info@ems.rs) and
 - via phone

Home Info Reports Log in



CMO.grexel is a central registration database for European Energy Certificate System (EECS)[®] certificates, national electricity guarantees of origin, biomethane certificates, hydrogen guarantees of origin and CO2 allowance and removal certificates.

The types of certificates currently supported include:

- o Guarantees of origin as meant by directives 2009/28/EC and 2012/27/EU (cogeneration)
- o Independent Criteria Scheme (ICS) certificates
- o Biomethane certificates
- o CertifyHy Hydrogen GOs

CMO.grexel is the national registry for the following countries and Issuing Bodies:

AIB-EECS guarantees of origin (www.aib-net.org):

- o Croatia - [HROTE](#)
- o Denmark - [Energinet/El](#)
- o Iceland - [Landsnet](#)
- o Ireland - [SEMO](#)
- o Lithuania - [Litgrid](#)
- o Luxembourg - [Institut Luxembourgeois de Régulation](#)
- o Serbia - [EMS](#)

National guarantees of origin:

- o Hungary - [MEKH](#)

Biomethane:

- o Finland - [Gasgrid Finland](#)
- o Finland - [Gasum Oy](#)
- o Denmark - [Energinet/Gas](#)

Hydrogen

- o EU - [CertifyHy](#) (Grexel)

CMO.grexel is open to anybody who wishes to open an account in the respective domains, regardless of the nationality or registration state. Domain specific restrictions may apply.

All Issuing Bodies using CMO.grexel are bound by national VAT and anti-money laundering regulations and co-operate with authorities at domestic and international level to avoid fraud.

Benefits to the company of AIB membership

The main benefits for EMS JSC Belgrade being part of the AIB are that it enables us to actively gather knowledge of the EECS certificate schemes in compliance with the quality standards set up by the AIB and to develop competent market opportunities for all EECS Scheme participants.

Being part of the AIB allows EMS JSC Belgrade to develop and exchange new ideas and gather experience from other AIB members and observers.

Thank you for your attention

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http://www.ems.rs/page.php?kat_id=670

