User manual: Gas and hydrogen guarantee of origin service and register G-REX



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#### https://grex.grexel.com/



#### https://gasgrid.fi/en/our-services/guarantees-of-origin/



GASGRID





#### General

- Act on Guarantee of Origin for Energy 1050/2021 (standard CEN EN 16325 under revision)
- Government Decree on Guarantee of Origin for Energy 1081/2021
- Gas and hydrogen guarantees of origin verify that the gas and hydrogen have been produced from renewable energy sources
- Guarantee of origin means an electronic document that proves to the end user that a certain percentage or amount of energy has been produced from renewable sources
  - ightarrow The electronic document is created in the register of guarantees of origin
- For gas injected into grid as well as offgrid gas
- Certification and verification obligation from **1 July 2022**
- Communication: 1. Customer notices and 2. Notices for register users





#### How to join the service

- 1. Read the documents, all of which you can find at <u>https://gasgrid.fi/en/our-services/guarantees-of-origin/</u>
- 2. Make a service contract with Gasgrid Finland (Issuing Body IB), <u>customerservice@gasgrid.fi</u>
  - The signature is principally done digitally using Visma Sign: Gasgrid Finland starts the process and first sends the contract to the Account Holder (AH) for signing
    - → Gasgrid Finland creates the signing-in credentials for G-REX for the AH's administrator, who can add users to the register from their own organisation
  - In the event of a paper signature, send *two* copies of the signed service contract, with attachments, to Gasgrid Finland Oy, Keilaranta 19 D, FI-02150 Espoo. Gasgrid Finland will sign the contracts and return one of the copies to the contracting party.
- 3. The AH will be able to carry out transactions in the register and register a production device.



#### Account Holder (AH) registration





## Production Device (PD) registration







#### **IB** creats an organisation



- 1. IB and AH have made a service contract
- 2. IB creates an organisation based on information provided by AH and creates credentials for AH's administrator
  - Organisation ID number is generated automatically
  - Domain: Finland Biogas and Hydrogen GO
  - Organisation Standards and Trading schemes are added automatically to all three, i.e. GO, \*GO-18M and GO-H2
  - IB creates a Billing reference (customer ID)
  - Role is AH Root, which has the most extensive rights to AH's organisation
  - IB adds itself as part of AH's organisation in the role of AH Root
- 3. Organisation type: Account holder disclosure

\*GO-18M: Conversion of the voluntary Biogas Certificates into the GO's in accordance with Finnish legislation. Valid for 18 months after the last production date.





#### AH adds users

- 4. The administrator creates personal IDs (personal email) in the register for other users in the organisation ("Add user")
  - You can create viewing rights or other restricted rights also
  - AH cannot change organisation information created by IB
- 5. The user receives an email and logs in to the register as instructed (see page 14).
- 6. The user may belong to more than one organisation. The user can change organisation by selecting "Change organisation" from the menu in the upper corner.
- 7. AH can create a Production Device that IB approves.

Add user						×
First name*			Last name*			
Login email* 👔		Dat	a Process Approval* 🗌 🤅			
The representative of the organization	on certifies that the person to b	e added consents to processing of pe	ersonal data in G-REX			
Add Organization Roles						Â
Organization name *	Email	Mobile Phone	Office phone	i 4.	Action	
89X82FB29C - Gasg × 🔻		•	•		Add	Cancel
		AH Root				
4				AH PD Administrat	or	
Close				AH PD Viewer		
				AH User Administr	ator	





#### Roles

Account management rights (see AH manual in the register)

- AH Root and AH Account Administrator can carry out all account activities permitted for AH
- AH Account Viewer as the name suggests is the viewing right

Device management rights (see AH manual in the register)

- AH Account Administrator has no rights
- AH Root has all rights
- AH PD Administrator (e.g. manages devices), AH PD Editor, AH PD Viewer varies slightly

Organisation roles (see AH manual in the register)

- **Registrant** (Account Holder, owner, all rights)
- Operator (meter readings)

Registrar (audits)

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Note: Plants organization role Registrant must be fille





## Log in

- (Microsoft) Authenticator app for iOS/Android is required. It can be downloaded free of charge from the App store.
- The first time follow the link in the email message (you will also receive a verification code) and you can create a password.
  - After typing in the verification code, press "Continue" (not "Change email")
  - When the log in process requests a QR code, open the Authenticator and select Add account > Work or school account and use the phone to scan the QR code from the screen.

 $\rightarrow$  And log in once again (user ID, password, Authenticator number)

- Subsequent log ins by
  - Typing in the user ID and password and the
  - Verification number from the Authenticator (number changes every 30 sec)
- A new mobile device
  - It is also possible to backup Authenticator
  - Otherwise, the profile should be deleted before creating a new one. Then please, contact us <u>customerservice@gasgrid.fi</u>

	User credential for Grexel G-REX 2022-03-30
	N noreply@grexel.com
	Dear
	Welcome to the Grexel G-REX.
- (	Go to this page to verify your email address and mobile phone number and set a new password. Please use the following email address
	In you did not request these user credentials, nor expected them, please be in contact with <a href="mailto:support@grexel.atlassian.net">support@grexel.atlassian.net</a> .
	If you have any questions or need help getting started, please check FAQ at SupportPageUri or submit a support ticket.
	Best regards,
	The Grexel G-REX team







## AH: Creating a production device in the register







#### **Different stages**

Register Plant				Save	
GENERAL	ORGANIZATION	METER	LICENSE	SUMMARY	

- 1. General
  - Device name, address, GSRN, network information (distribution network, transmission network or offgrid device). The field must contain no special characters.
- 2. Organisation
  - Role (e.g. Registrant), the account to be linked, start date
- 3. Meter
  - Meter (metering point) ID and start date time and free-form text
    - → "Grid Reference": Transmission network 5 digits and a letter and distribution network GSRN and offgrid for example, a description or a code
  - Meter formula operator = + sign
  - Coefficient = 1, relates to indirect electricity measurements so no other values
- 4. License
  - License and support information, owner information and other attributes: production source, network ID and code, capacity, thermal value
  - License "Start date": Date on which the verification document enters into force
  - "End date" is the verification document audit date



#### Acting as an aggregator

- Manages the Production Devices of different parties as the AH
- Needs a power of attorney
- Aggregator makes transactions and is responsible for service payments towards IB
- Acts as the contact point towards IB

#### **Change device information**

- 1. Change device information (and e.g. change in dates indicated)
  - → Initially AH emails the changed device information to IB's contact person and IB then registers and approves the information
- 2. Changed information can include
  - Device owner information
  - Device capacity information
  - Production source
  - Meter information



# 6. Production data and Declarations

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#### **Production data**

- Report production monthly for the full **calendar month** 
  - Interface available
- In the view, first select the device and then the meter ID
- Next select "Add meter reading" and in the spaces below type
  - Value and unit
  - Calendar month (Start date End date)
- Time: UTC and EET/EEST
- Gas injected into the grid
  - IB receives the data from the information exchange system or transmission network monitoring system.





#### Declarations

- Report the percentages of different sources of production for the production period
- Making a declaration applies to devices that have several different types of production
- Recommendation: AH reports the declarations monthly for the same period as production data
- IB cannot approve product data or issue certificates if no declarations have been made
- When AH has made the declarations, IB approves the declarations, production data and issues the required certificates

Declaration details							
Plant GSRN 64300559220000057 Name Markon testilaitos numero kaksi	National ID fi	Declaration Start date time 01/02/2022, 00:00 Status Approved	End date time 01/04/2022, 00:00				
Energy source declaration							
Percentage	EnergySourceCode	EnergySourceNameKeyword	Description				
50%	F01030100	Renewable/Gaseous/Landfill gas	puolet				
50%	F01030301	Renewable/Gaseous/Agricultural gas/Pig manure	puolet				
	·						





#### Issuing

- IB issues guarantees of origin when the production data has been reported and the required declarations made
- Guarantees are issued automatically each calendar month (production period)
- No separate application is made
- Surplus overall MWh production is carried over to the following month and taken into account in future issuances
- If there are several declarations, guarantees of origin are issued for each production source
  - A certificate may contain only one production source



#### **Transfers and cancellations**

- In the G-REX an AH may transfer guarantees of origin to another AH or cancel them in accordance with consumption
- Both transfers and cancellations may be made immediately or on a scheduled basis
- The cancellation object/beneficiary is specified when cancelling
- IB approves cancellations
- Guarantees of origin allocated for a calendar year must be cancelled by 31 March of the following year
- Conversion (instruction on Gasgrid's website)
  - Contact Gasgrid to effect conversion
  - Cancellation is done in the register of sources (guarantees of origin must be valid)
  - Select "Cancellation for conversion"
  - Registrars publish the plants utilising conversion on their websites
  - An operator may need to belong to or authorise a representative for itself for more than one national guarantee of origin register



#### **Cancellation Statement**

- Includes all details of the cancellation
  - electronic, non-transferrable receipt which provides evidence of the cancellation of one or more GOs for the purpose of Disclosure of the Attributes of those GOs for the beneficiary or beneficiaries of the cancellation
- IB's signature: At this stage no separate signature goes to the register but is submitted on request

#### **Cancellation Statement**

This document certifies that the specified Guarantees of Origin have been cancelled for the benefit of the specified receiver and for the period and purpose specified herein. 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 endconsumer specified below. Onward sale of this Cancellation Statement is prohibited. Cancelled Guarantees of Origin cannot be transferred to other account holders.



Decisions made by Issuing Body of registry under Act on Guarantee of Origin for Energy are eligible for a request for an administrative review. Instructions for making an appeal is provided at: <u>https://gasgrid.fi/en/our-services/guarantees-oforigin/</u>

Transaction details Transaction type Cancellation	Status Completed	From account Organization name Helin organisaatio3	Organization ID 89X19F9FAM	Beneficiary Name of Beneficiary Kaasun käyttö	Country of consumption Finland
Transaction number 2022032900010	Total 5	Domain GREX.Demo GGF	Domain code FI-GGF	Organization ID 89X19F9FAM	Location of beneficiary Tampere
Transaction Started 29/03/2022, 12:50	Transaction Completed 29/03/2022, 12:50	Account number 64300559220000064		Consumption period 21/03/2022 - 22/03/2022	Usage type Disclosure
Public Statement		Street	City Hyvinkää	Cancellation purpose lhg	Type of beneficiary End Consumer
		ZIP code 05800	Country Finland		

Volume	Certificate number start	Certificate number end	Issuing body	Energy source code	Technology code	Production StartDate	Production EndDate	Issue date	Trading schemes	
5	64300559220100000000000000064	643005592201000000000000000068	Gasgrid Finland	F01030300	TG20000	2022-02-01	2022-02-28	2022-03-14	GGF:GO	
CERTIFICATE INFORMATION Support schemes Standard			ENERGY SOURCE AND TECHNOLOGY							
No suppo Productio The unit o Support	rt n support description f energy has not benefited from Publ	GGF Investment support description lic Originating Plant has not benefi Support	r P0 estment support description ga ginating Plant has not benefited from Public port		newable/Gaseous/A	Igricultural T	'G20000 - Biogas/	Gasification		
ISSUER	ISSUER			ATTRIBUTES						
Issuing body Gasgrid Finland Issuing country code FI		Issuing body code 89 Competent authority code F199		Calorific value Upper	type Dissemit 4 Transfi other net Distribut Transmi or Closed System	nation level erred over any twork than a ion or ssion System I Distribution	Energy carrier Gas	Networ 475895:	k identity	
PLANT				Network name Pääverkko	Nominal cap (kW) 100000	acity Pur Dis	pose Tyj closure Me	pe of Gas U thane (a	se of gas ) Transport	
				Product type						
Plant nan Helin biol	ne laitos3	GSRN 643005592200000071		Source						
Operation 2021-01-0	ial date 1									
ZIP code	City	Country Country	y code							
05800	Hyvinkää	Finland FI								
Longitude	» N	Latitude E								
Coordinat	te code									



# Export and import of GOs (EU/EEA)

- Carried out manually by IB for now
- Contact the IB's contact person <u>heli.haapea@gasgrid.fi</u> or <u>customerservice@gasgrid.fi</u>
- Please allow enough time!





## Activity log

- The log includes all account and user activities
- A log entry is also made for activities carried out by the IB





#### Logs and reports

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- The register has standard reports for AH users
- You can filter the data viewed in the reports and select which columns are shown
- You can export the data in MS Excel CSV format or print out as a PDF document

*in the right upper corner:* 







#### Information exchange between AH and IB

- By email and telephone
- Develops existing information exchange in the register
  - It is possible to add Additional information or Internal comments
- In the event of problems or malfunction, please contact <u>customerservice@gasgrid.fi</u>

Additional information (i)	Internal comment (j)	Edit
	"	"



customerservice@gasgrid.fi

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