



REGATRACE

Renewable Gas Trade Centre in Europe

European Overview of Registries

Stakeholder Workshop Brussels

March 29th, 2022



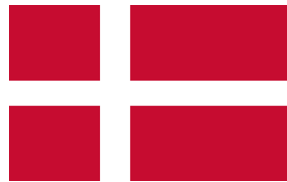
Countries with a registry for gas certificates



Austria * *



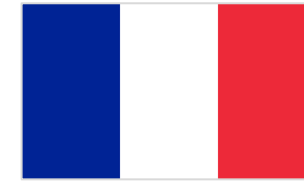
Belgium *



Denmark *



Estonia *



France *



Germany *



Ireland



Lithuania *



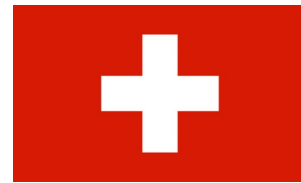
Netherlands *



Portugal *



Slovenia *



Switzerland * *



UK *

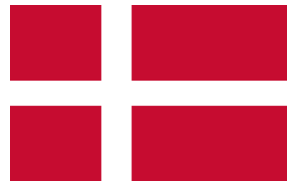
Registries are members of either the **European Renewable Gas Registry (ERGaR)** or of the **Association of Issuing Bodies (AIB)** or completely independent



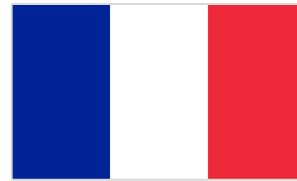
ERGaR Gas Registries (in operation)



Austria
(AGCS)



Denmark
(Energinet)



France
(GRDF)



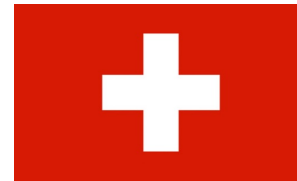
Germany
(dena)



Lithuania
(Amber Grid)



Netherlands
(Vertogas)



Switzerland
(VSG)



UK
(REAL)



ERGaR: Austria



Registry

- Operational since July 2012
- Operated by the Austrian balance group coordinator: AGCS Gas Clearing and Settlement AG
- Legal framework:
 - Austrian Gas Economy Law 2011 as amended (GWG 2011)
 - Standard Terms and Conditions
 - Renewable Electricity Act 2012 as amended (ÖSG 2012)
- Participant of the ERGaR CoO Scheme

Certificates

- Monthly issuance of “biomethane certificates” as basis for renewable power FiT from decentralized biomethane.
- Issuance is based on metering values from grid operators delivered to the balancing group coordinator.
- Certificates are also used in the voluntary market
- Annual injection: ca. 146 GWh
- Around 30% receives FiT for renewable power (ÖSG)



ERGaR: Austria



Market participants

- Since June 1, 2021, international (European) market participants are allowed.
- Accounts for biomethane producers and auditors are free of charge
- Accounts for other registry users (traders) must pay an annual connection fee.

Mass balancing

- **Legal:** no legal requirements have been defined yet.
- **Practical:**
 - Responsibility of market participants
 - Proof by means of a data package consisting of the following:
 - ✓ AGCS biomethane certificate (proves grid connection),
 - ✓ Proof of Sustainability (according to a recognized Voluntary Scheme), and
 - ✓ Proof of booked border capacities (based on German model).





Registry

- As of July 2021: only issuing body for gas GOs (RED II) by governmental mandate.
- Constant export transfers every month to dena's Biogasregister.
- In the process of connecting to the ERGaR CoO Scheme

Guarantees of origin

- Recognized as part of the documentation in the Danish ETS
- Used for consumer disclosure

Market participants

- Fees for market participants wishing to open an account were announced on July 1st, 2021: combination of fixed annual and a volume-based fee for issuance, export and import.

Mass balancing

- No mass balancing function yet, but a pilot project is planned in the near future.





Registry

- In operation since 2013.
- GRDF has the mandate from the Ministry of Energy to operate the registry until April 2023 (renewed by public tender)
- Issuance of biomethane GOs: 2.1 TWh/year (+200 production facilities)
- Active accounts for producers and consumers → traders were only allowed to participate starting September 2021
- In the process of joining the ERGaR CoO Scheme

Certificates

- GOs are used for consumer disclosure.
- The Biomethane GOs are not completely compatible in format with the GOs from RED II.
- No official recognition in the French ETS (with some exceptions with the right authorization).

Mass balancing

- No mass balancing function or label.





dena ✓ biogasregister

Registry

- Voluntary scheme established in 2010
- Objective: documentation of proofs of quantities, origin and properties for biomethane.
- Auxiliary tool for legal documentation requirements in electricity and heat sectors.
- Pure registration/verification platform → **NO** trading
- 256 registered companies and 200 registered plants (biomethane + 2 PtG)
- Most import process have been automated → reduction of processing times
- Participant of the ERGaR CoO Scheme

Certificates

- Issuance is based on metering data verified by an external authorized auditor ([link](#) to dena's auditor list)
- 2 types of certificates: with mass balancing and book & claim
- Without expiry date
- Types of certificates accepted: GOs (Art. 19 RED II) and other Certificates of Origin.
- Able to receive imports of hydrocarbon gas, hydrogen and other gaseous energy carriers.



ERGaR: Germany



dena  biogasregister

Market participants

- Fee schedule ([link](#)) for market participants: annual fee + transaction fee
- dena's Biogasregister has joined the ERGaR CoO Scheme, facilitating international transfers of biomethane certificates of origin (book & claim).
- Previous bilateral agreements with AT, DK, and UK replaced by the ERGaR CoO Scheme.
- No audits required for international transfers on a book & claim basis

Mass balancing

- A proof showing capacity booking is needed
- Audits (production plant and production quantities) are needed.



ERGaR: Lithuania



**Amber
Grid**

Registry

- Operated by Amber Grid (gas TSO) as official issuing body for gas GOs.
- For consumer disclosure (Art. 19 RED II) and for fulfilling the transport sector obligations (GO + PoS)
- Able to register gas volumes → a more sophisticated IT solution will be in place by mid-summer 2022.
- Interest in joining the ERGaR CoO Scheme

Certificates

- Type of certificates:
 1. GOs: for consumer disclosure (Art. 19 RED II) based on book & claim
 2. PoS: together with the respective GO, could be used in the transport sector by the gas supplier for fulfilling its supply obligations of RES in the energy mix.



ERGaR: Netherlands



Registry

- Established in 2009
- Subsidiary of Gasunie
- Mandated since 2015 by the Ministry of Economic Affairs and Climate to operate the biomethane registry
- Issued 2 million GOs in 2020
- Close cooperation with CertiQ (issuing body for electricity GOs)
- Participant of the ERGaR CoO Scheme

Certificates

- Cover most renewable gases: green gas, hydrogen (possible CO2 in the future).
- GOs for ETS: starting January 1, 2022
- GOs for subsidy reasons: simple disclosure → book & claim
- Export to other EU Member States possible
- Import from other EU Member States not yet possible.



ERGaR: Switzerland



Registry

- Operated by the Swiss Association of Gas Industry (VSG) under the mandate of the Federal Customs Authority (OZD) since 2009.
- Goal: ensure that renewable gases are sold to customers only once.
- Records all renewable gases produced inland, including their trade and use → under the supervision of OZD
- Records the consumption of natural gas as a fuel.

Certificates

- Used as basis for subsequent taxation or the refund of overpaid taxes:
 - Renewable gases produced in Switzerland are neither subject to the mineral oil tax nor the CO₂-levy.
 - Natural gas sold as fuel is not subject to the mineral oil tax (until end 2024).
 - injection of biomethane in Switzerland: 419 GWh (2021).



ERGaR: Switzerland



Market participants

- 38 Swiss producers of renewable gas which is fed into the gas grid.
- Gas traders
- Gas supply companies
- Accounts for all participants are free of charge.

Mass balancing

- No mass balancing function or label.
- Switzerland is a single balancing zone for renewable gas purposes.



ERGaR: United Kingdom



GreenGas
CERTIFICATION SCHEME

Registry

- Market-based biomethane registry (without governmental mandate)
- UK is not implementing RED II → certificates are not GOs according to Article 19 RED II
- Participant of the ERGaR CoO Scheme

Certificates

- Certificates are called “Renewable Gas Guarantees of Origin” (RGGOs)
- Not 100% compliant with RED II
- No mutual recognition agreement as third country
- Used for consumer disclosure
- No recognition in the UK ETS



ERGaR: United Kingdom



GreenGas
CERTIFICATION SCHEME

Market participants

- Trader member fees are in place: fixed annual fees plus a retirement fee (£/MWh)
- No fees for receiving imports
- Any biomass labelling system is accepted
- Exports possible to any other registry
- Exported RGGOs will not be considered GOs under RED II, but will still have value for consumers.

Mass balancing

- No mass balancing function or label
- Any claim of mass balance requires RGGOs to be placed within a wider evidence package (e.g. audit report with gas shipping data)



Independent Gas Registries: Ireland



**Gas
Networks
Ireland**

Registry

- Operated by Gas Networks Ireland
- Voluntary scheme in operation since October 1st, 2020
- One biomethane plant registered and injecting into the gas grid
- Two account holders + 3 companies that have requested to open an account

Certificates

- GOs based on a book & claim system (Article 19 RED II)
- Proofs of Origin: for mass balancing. Include.
 - A Proof of Origin will have proof of sustainability documentation inseparably connected to it.
 - To be used in the biofuels or ETS sectors
- Issued for renewable gases (only for biomethane at present).



AIB Gas Registries



Austria
(E-Control)



Belgium
(VREG)



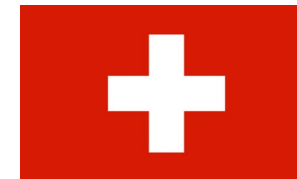
Estonia
(Elering)



Portugal
(REN) *



Slovenia
(AGEN-RS) *



Switzerland
(Pronovo) *

*** Registries under development**





Registry

- Official issuing body: E-Control
- In operation since January 1, 2022
- Legal background:
 - Renewable Expansion Act 2012 as amended (EAG 2021)
 - Gas Economy Act 2011 as amended (GWG 2011)
 - Regulation on gas labelling: in force since 2020

Certificates

- Certificate type scope: GOs for consumer disclosure (book & claim)
- Issued for biomethane. A deeper differentiation is in preparation and will be executed as soon as requested by the market.

Market participants

- Plant operators
- Agents
- Grid operators
- Suppliers



AIB: Belgium - Flanders



Registry

- Production registrar: Fluxys (Gas TSO)
- Official issuing body: VREG (independent authority of the Flemish energy market)
- In operation and issuing certificates since January 1, 2020

Certificates

- Certificate type scope: GOs for consumer disclosure (book & claim)
- Certificates issued in 2021: equivalent to 4000 to 5000 MWh
- Issued for biomethane. Hydrogen still under discussion

Market participants

- Producers, traders
- ESCOs handling green reporting
- Large gas consumers





elering

Registry

- Official issuing body: Elering AS (TSO)
- In operation and issuing certificates since January 4, 2018
- Will also be appointed as issuing body for H2 and heating & cooling GOs

Market participants

- Biomethane producers
- Gas sellers
- Traders
- Liquid fuel sellers and EV charging operators are involved in the registry for transport certificates

Certificates

- Certificate types:
 1. GOs (book & claim)
 2. Transport sector certificates
 3. Mass balancing certificates
- Certificate purpose:
 1. Consumer disclosure
 2. Financial support to producers
 3. Target accounting
 4. National production & consumption statistics
 5. Tax benefits to gas sellers
- Issued for biomethane. Plans to set up a H2 registry by the end of 2022.
- Certificates issued in 2021: equivalent to 152,352 MWh



AIB: Portugal



REN 

Registry

- Official issuing body: REN-EEGO (TSO), both for electricity and gas Gos
- Under development

Certificates

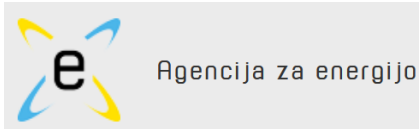
- Certificate type scope: GOs for consumer disclosure (book & claim)
- Will be issued for renewable gases (including hydrogen) and low carbon gases

Market participants

- Producers
- Traders
- Energy suppliers
- Brokers



AIB: Slovenia



Registry

- Official issuing body: AGEN-RS (Slovenian Energy Agency)
- Under development
- By-laws regarding gas GOs still to be developed.



AIB: Switzerland



Registry

- Official issuing body: Pronovo
- Under development

Certificates

- Certificate type scope: GOs for consumer disclosure (book & claim)
- Will be issued for all types of renewable liquid and gaseous energy carriers.

Market participants

- Still to be determined



Thank you for your attention!

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