



AIB and EECS (European Energy Certificate System)

ERRA, RES Committee meeting, 9 February 2023

Liesbeth Switten

Secretary general

01

The Association of Issuing Bodies (AIB) operating EECS

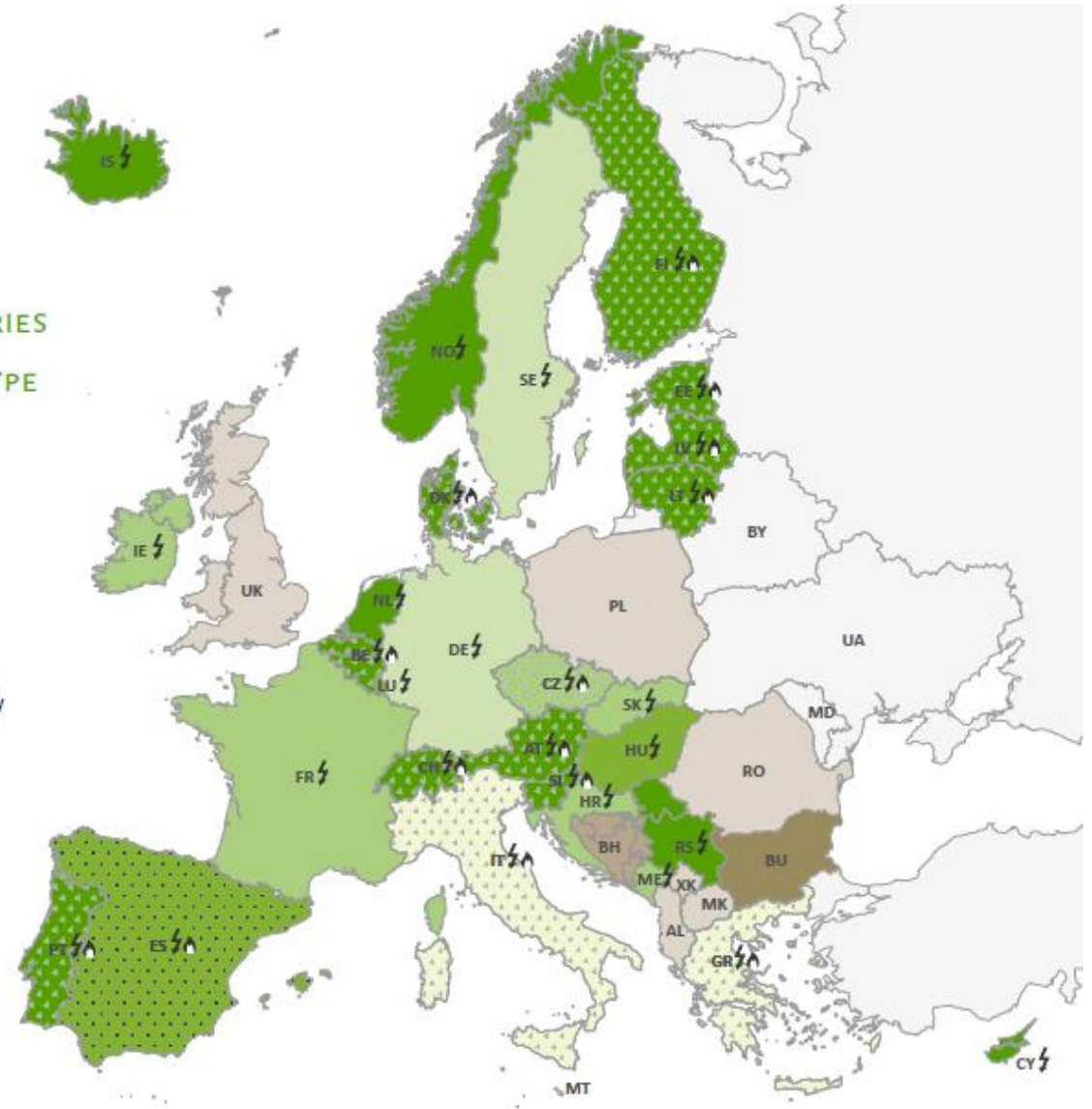
The AIB

AIB Facts & Statistics

- AIB was founded in 2002
- International Non-Profit Association
- Headquarters in Brussels
- Developer and custodian of the EECS™ standard

AIB MEMBER COUNTRIES AND ISSUING BODY TYPE OF ORGANISATION

- ES ⚡ Electricity Issuing Body
- Electricity TSO
- Electricity Regulator
- Electricity Market operator
- Electricity Governmental agency
- Electricity Other
- Formal applicant
- Active observer
- Awaiting
- FI ⚡ Gas Issuing Body
- Gas TSO
- Gas Other



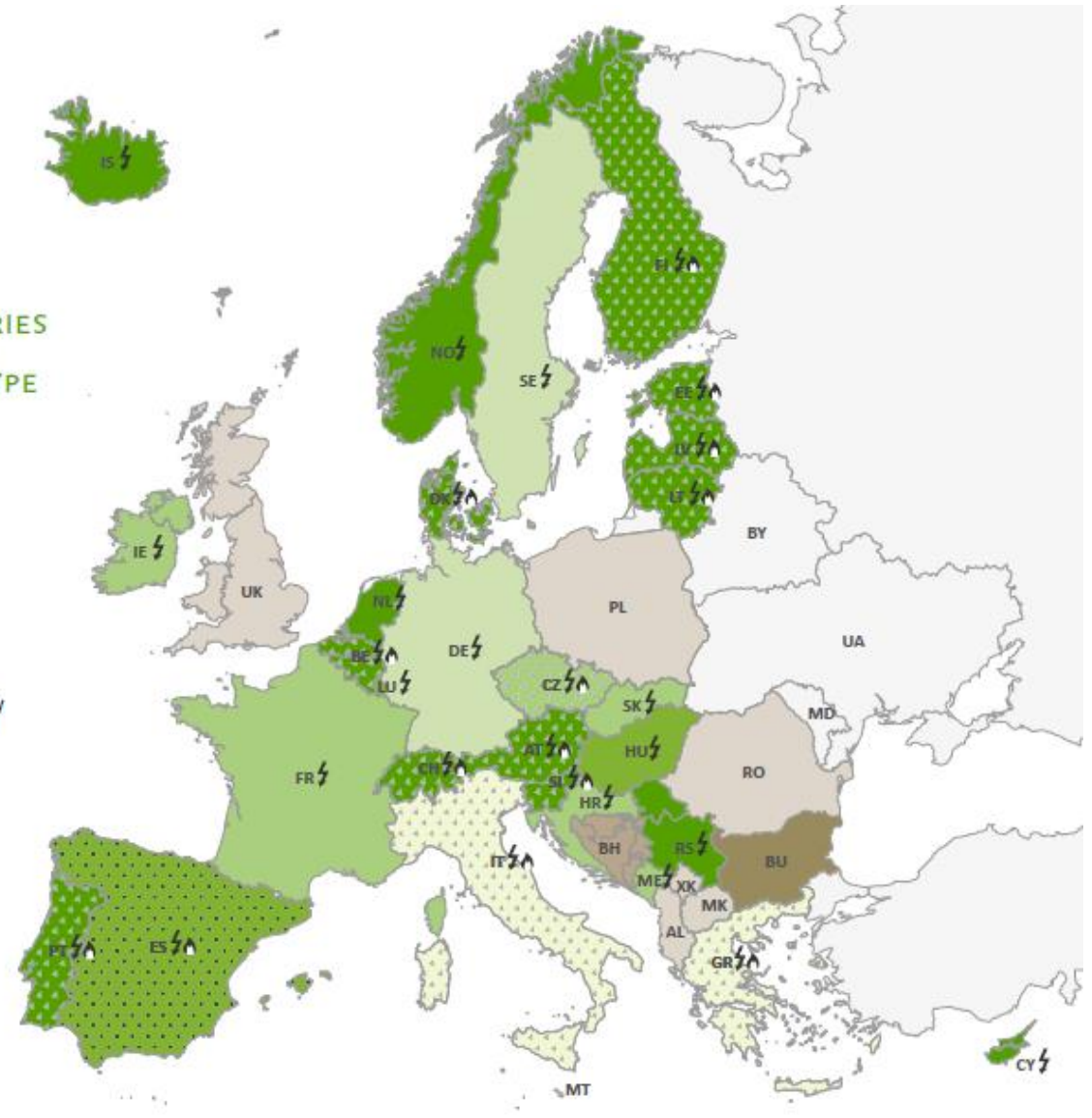
AIB and its Member Countries / Regions

AIB Facts & Statistics

- 28 countries connected (36 members)
- Geographical scope: EU - EFTA – Energy Community
- All current AIB members are issuing bodies for Guarantees of Origin
- Very diverse: regulator, market operator, TSO, ministry, power exchange etc.
- Several members are also competent bodies for the supervision of electricity disclosure
- Already 16 AIB members assigned by their government for issuing gas GO
 - Austria (E-Control), Belgium Brussels (Brugel), Belgium Flanders (VREG), Belgium Wallonia (SPW), Czech Republic (OTE), Energinet (Denmark), Estonia (Elering), Finland (Gasgrid Finland), Greece (Dapeep), Italy (GSE), Latvia (Conexus Baltic Grid), Lithuania (Amber Grid), Portugal (REN), Slovenia (AGENS), Spain (Enagas GTS), Switzerland (Pronovo), more to follow

AIB MEMBER COUNTRIES AND ISSUING BODY TYPE OF ORGANISATION

- ES ⚡ Electricity Issuing Body
- Electricity TSO
- Electricity Regulator
- Electricity Market operator
- Electricity Governmental agency
- Electricity Other
- Formal applicant
- Active observer
- Awaiting
- FI 🔥 Gas Issuing Body
- Gas TSO
- Gas Other

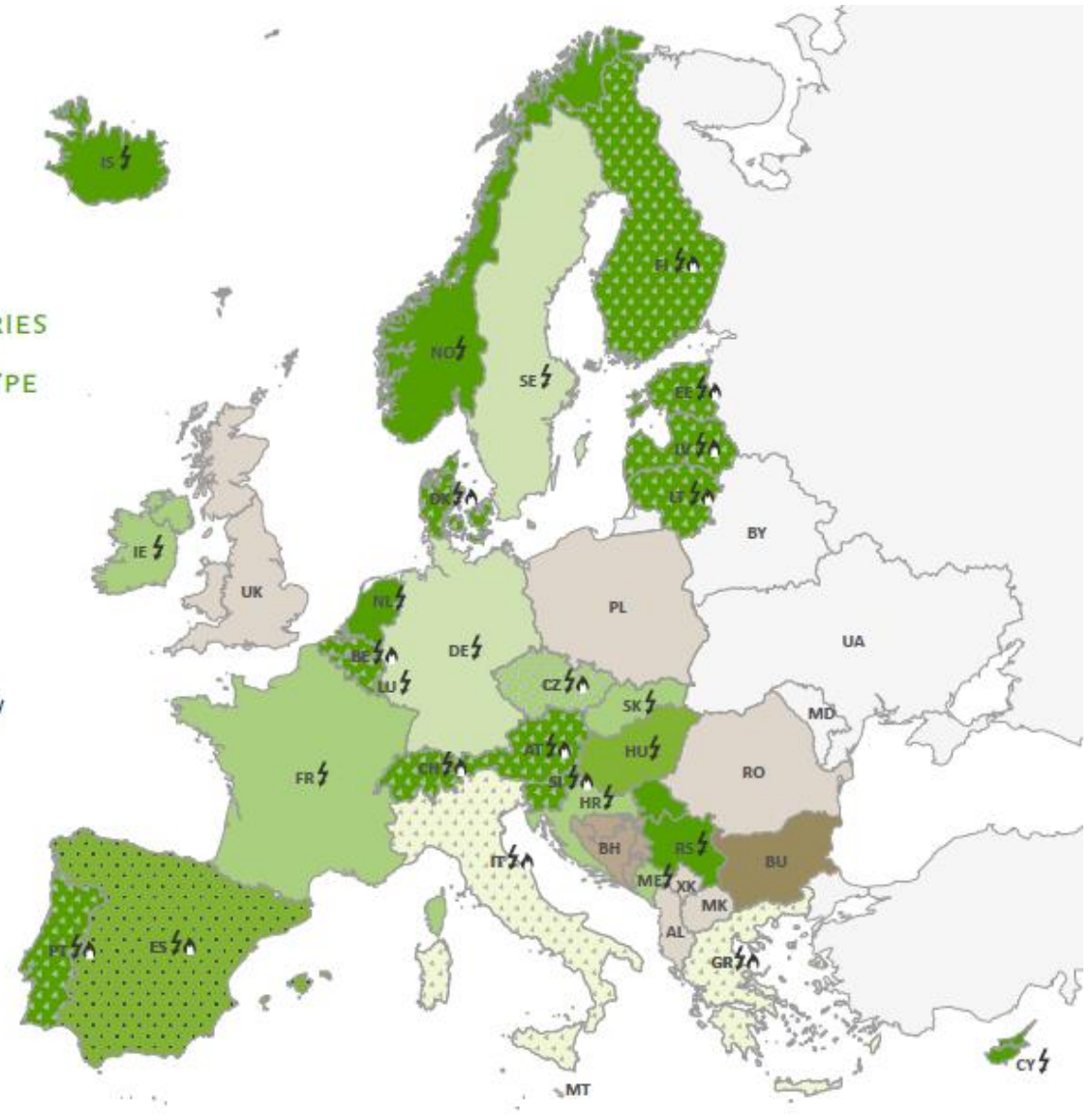
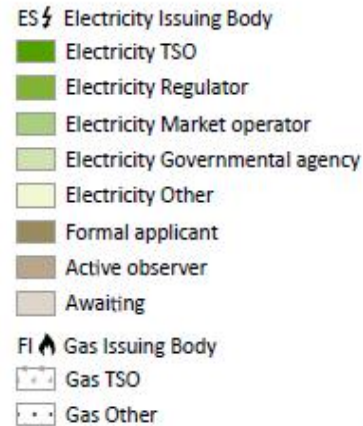


AIB and its Member Countries / Regions

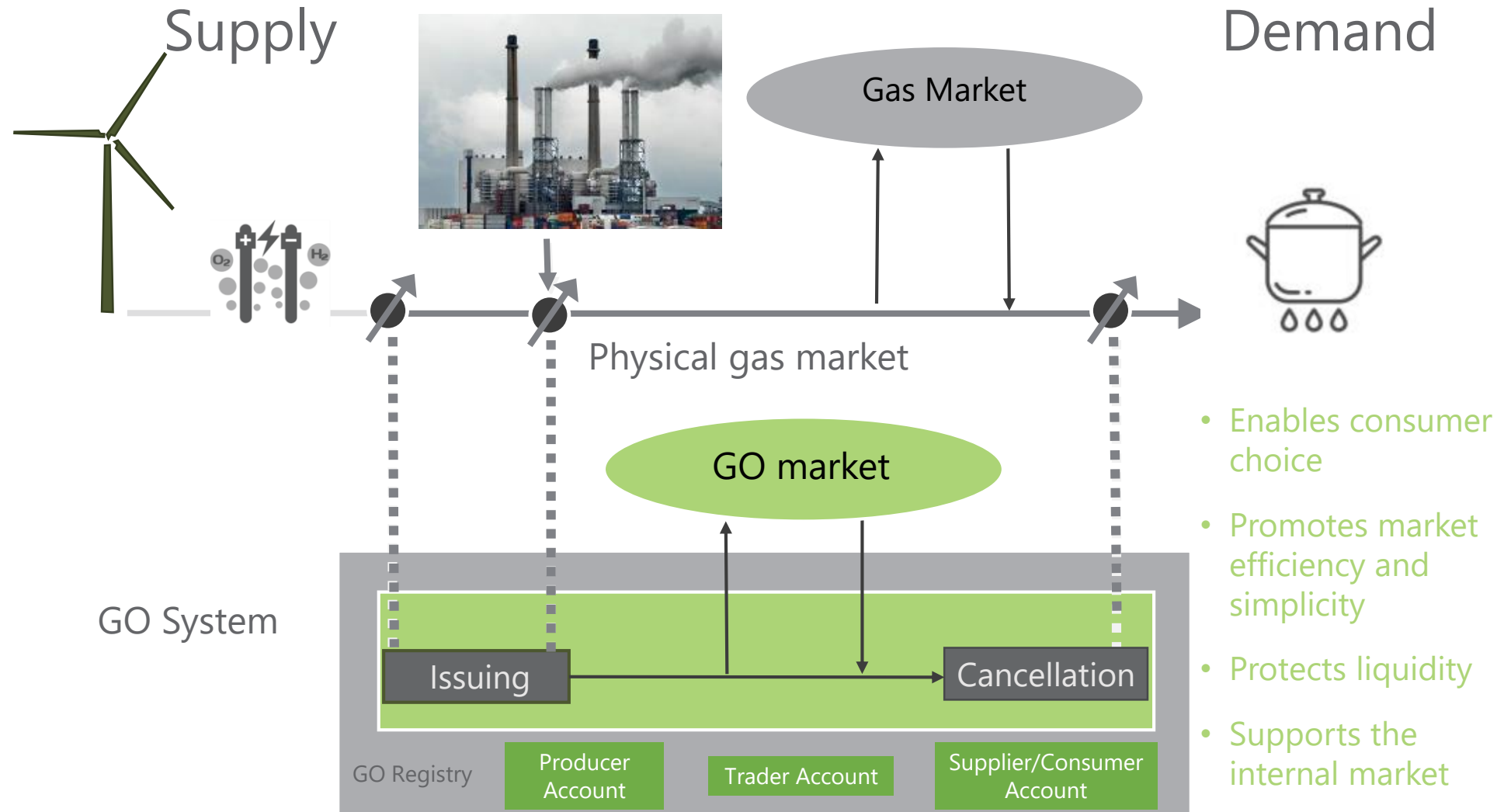
Pillars of the European Energy Certificate System (EECS©)

- I. **EECS Rules:** engaging into quality and harmonisation
- II. **IT hub:** enables GO transfer between national/regional Domain registries
- III. Peer reviews and **audits**

AIB MEMBER COUNTRIES AND ISSUING BODY TYPE OF ORGANISATION



Book and Claim Certificate System



The AIB HUB

Framework

→ International transfers of electronic documents

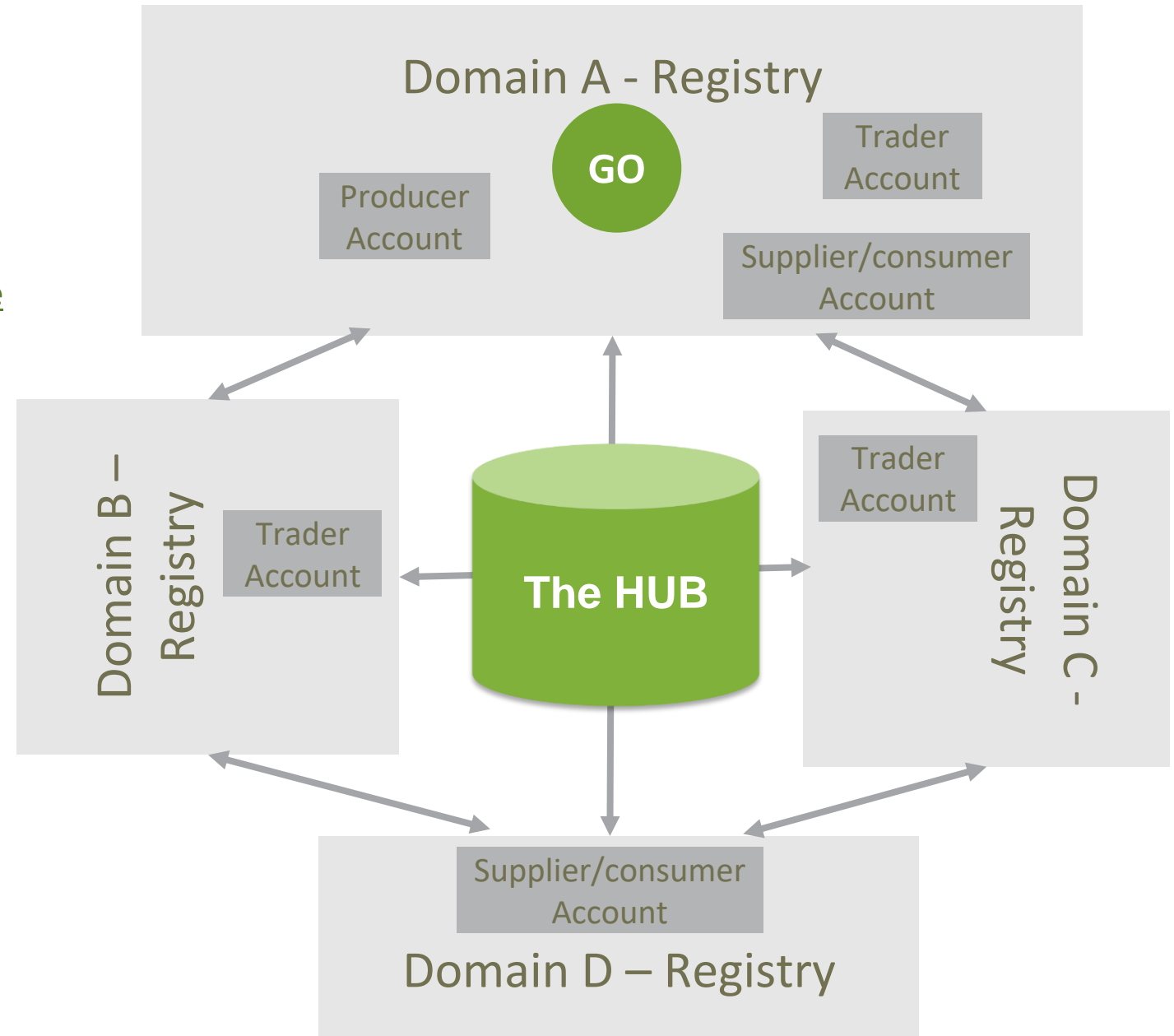
- Statistics are available on the [AIB website](#)
- 28 Domains

→ How

- Standardised
- Automated
- Jointly operated

→ Why

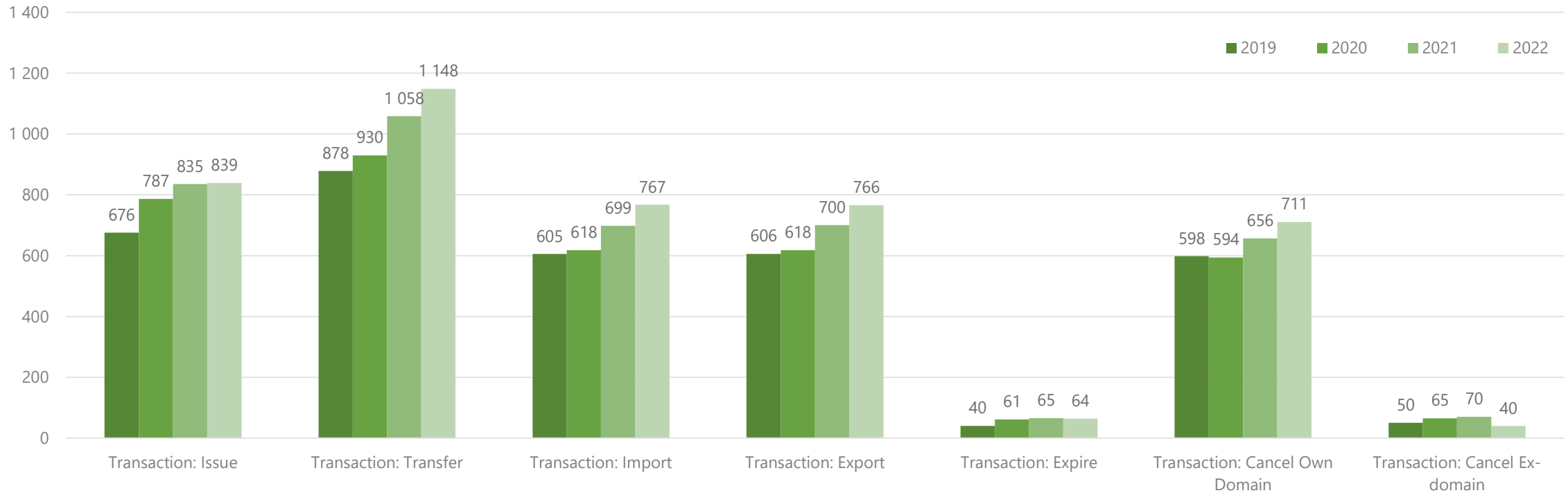
- Efficiency
- Trust
- Fraud prevention



Size of the market for electricity GOs

AIB Facts & Statistics (status 30/11/2022)

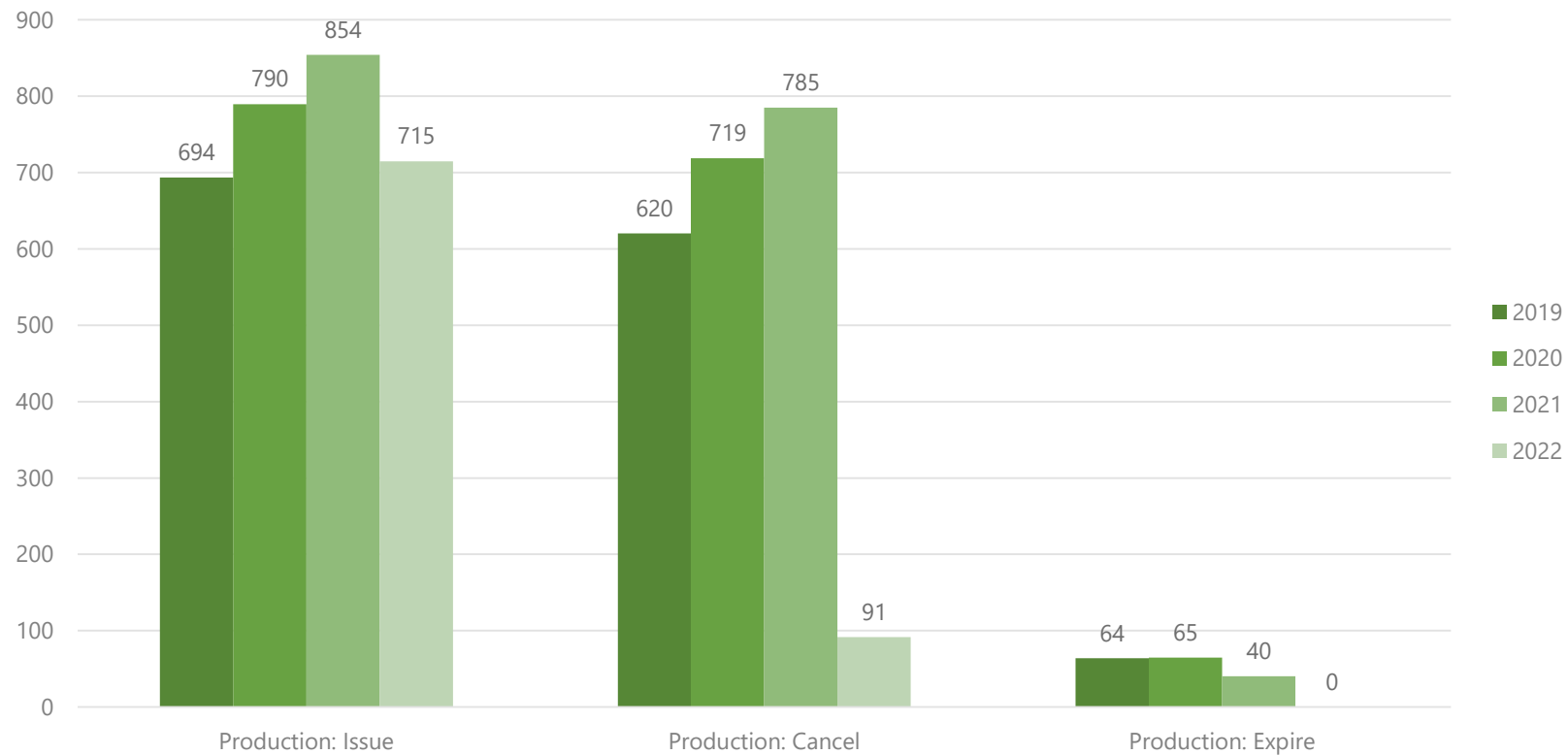
Annual EECS transactions by transaction date (TWh)



Size of the market for electricity GOs

AIB Facts & Statistics (status 30/11/2022)

Annual EECS transactions by production date (TWh)



AIB organised to facilitate multi-energy

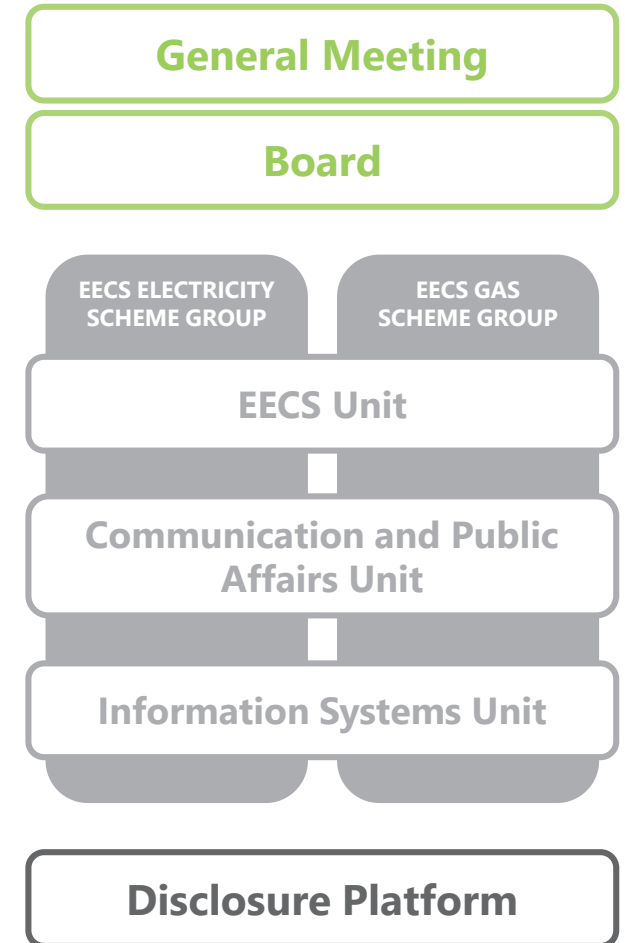
→ AIB Hub facilitates cross-registry transfer of gas certificates in 2023.

→ EECS Energy Carrier Conversion Rules

- Since September 2019
- Gas issuing bodies will be enabled to import electricity GOs, Electricity issuing bodies (31) will be enabled to import gas GOs. Issuing EECS Gas GOs requires membership to EECS Gas Scheme Group.

→ Separate decision making for Electricity and Gas specifics

- Since February 2020
 - Electricity Scheme Group
 - Electricity Scheme = section N of the EECS Rules
 - Voting members
 - Gas Scheme Group
 - Existing members
 - Observer - Scheme co-developer status
 - Forum for discussion and resolution of challenges
 - EECS Gas Scheme: Chapter O of the EECS Rules (since nov 2019)



02

The Guarantee of Origin as an EECS Product

Transparency enhances empowered consumer choices

Data on generic EECS Certificates

Energy Carrier
• Electricity / Energy Gas / Hydrogen
Product
• GO / Support Certificate / Target Certificate / Independent Criteria Scheme
• Product name
Unique certificate number
Production period (start and end dates)
Energy source
Type of installation
Production device info
Identity and country of originating member
Issue date
Identity and country of relevant competent body
Purpose
• Disclosure, Support and/or Target
Support received by type
Dissemination level
Face Value
Conversion Tag & Storage Tag
Label(s) *
Carbon Footprint *
Timestamp *
Production Device Module *
Radioactive waste *

Additional on Electricity certificate

High-Efficiency Cogeneration

High Efficiency Cogeneration Criterion Met?

- Y/N
- If Yes, then also following fields are mandatory

Lower Calorific Value

Use of Heat

Primary Energy Savings

- % PES
- Absolute PES

GHG Emissions

- %
- Absolute

Fossil energy sources

GHG Emissions

Nuclear energy sources

Radioactive Waste

Additional on Gas certificate

Type of Gas

- See Fact Sheet

Whether Higher or Lower Calorific Value

GHG Emissions Saved & Produced *

- + Methodology reference

Sustainability Criteria met?*

- Y/N; requirements, scheme, name Certification Body, reference to report

GHG saving criteria met?*

Calorific value *

End-Use of gas category*

Source-Shares *

Production Device Module(s) *

- Description, capacity, date operational

Pre-Conversion support info *

PurityOfGas *

CompositionCriteriaReference *

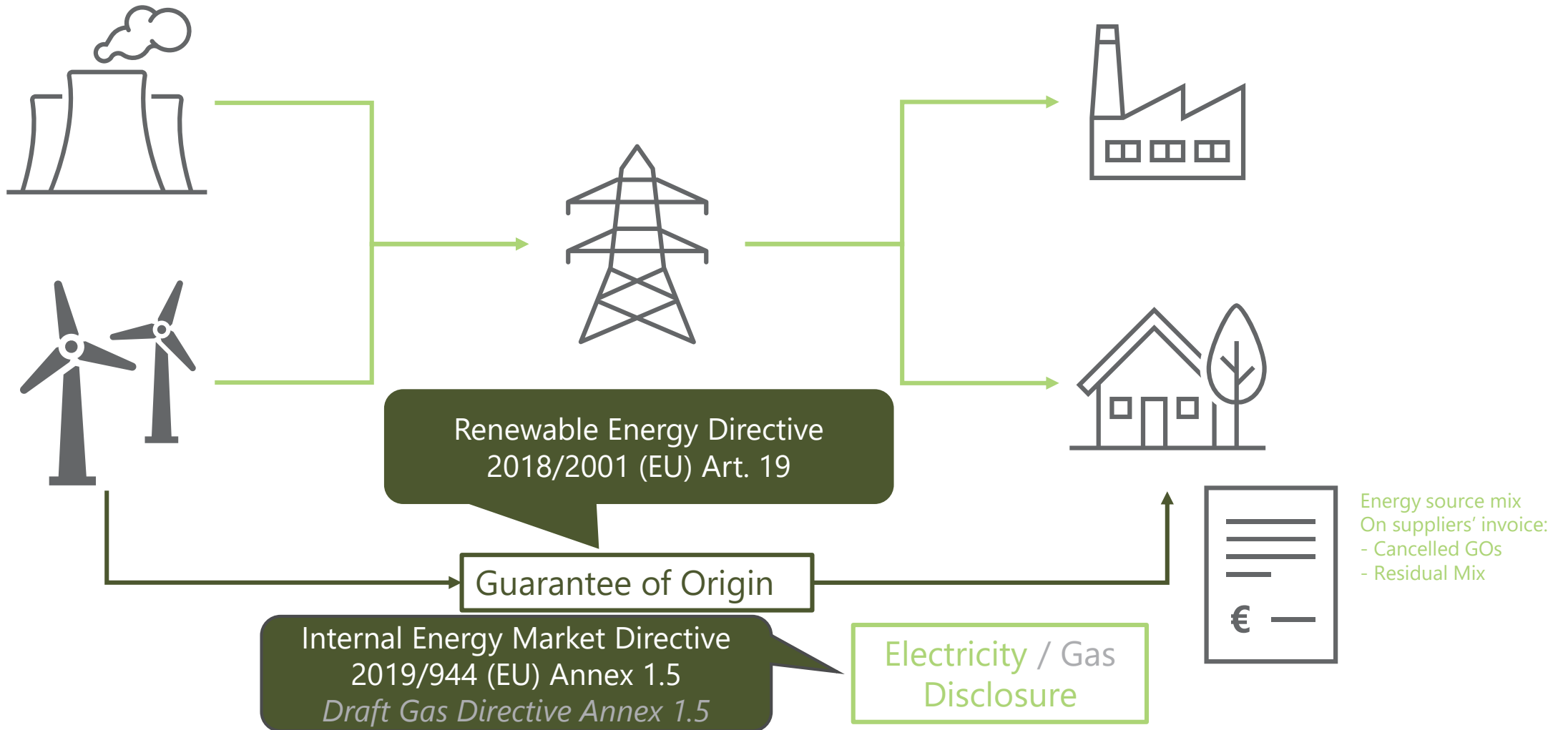
Advanced Biofuel Criteria Met? *

Legend: Mandatory information field

*Optional information field

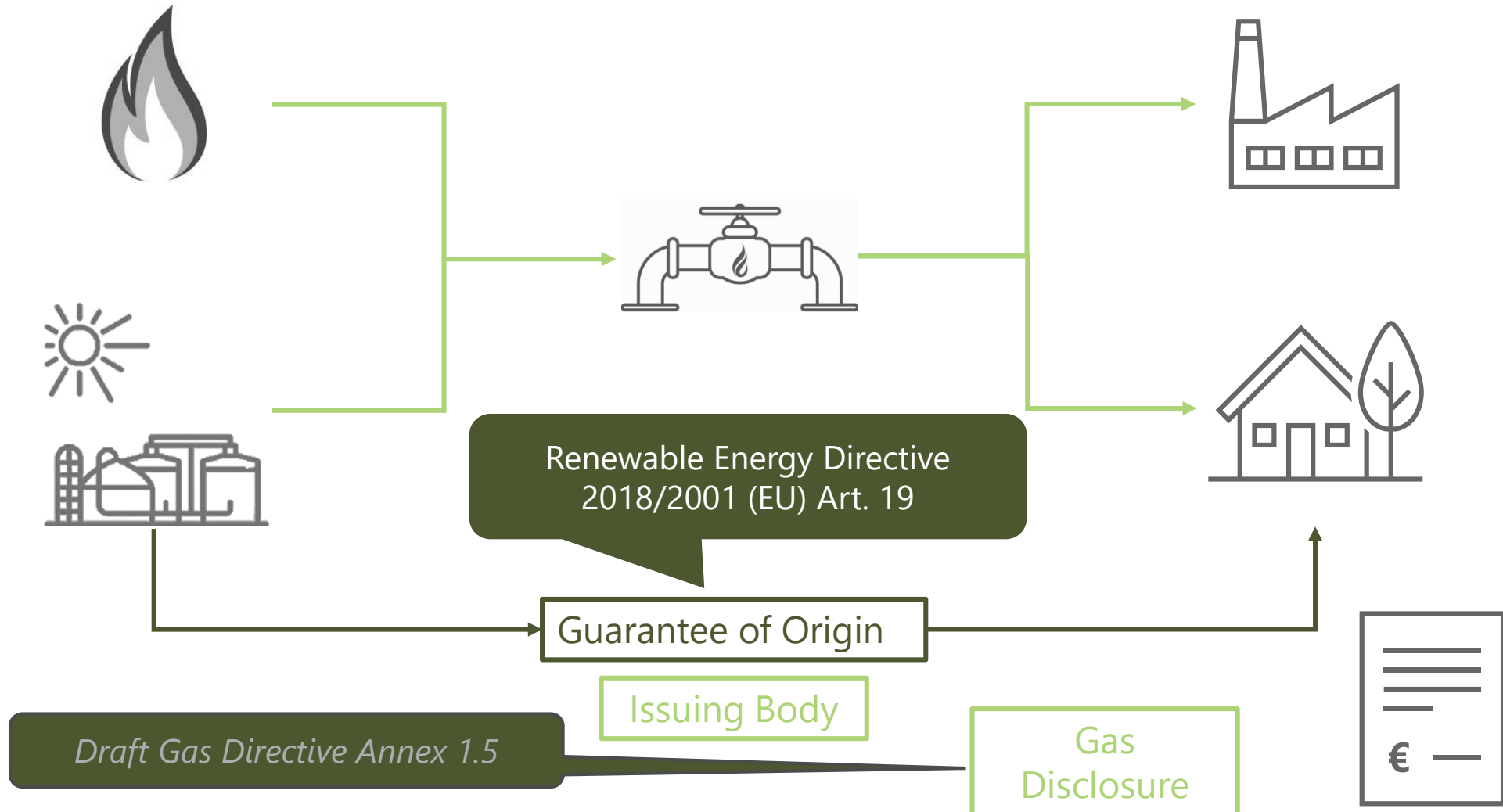
European Legislation

Guarantees of Origin

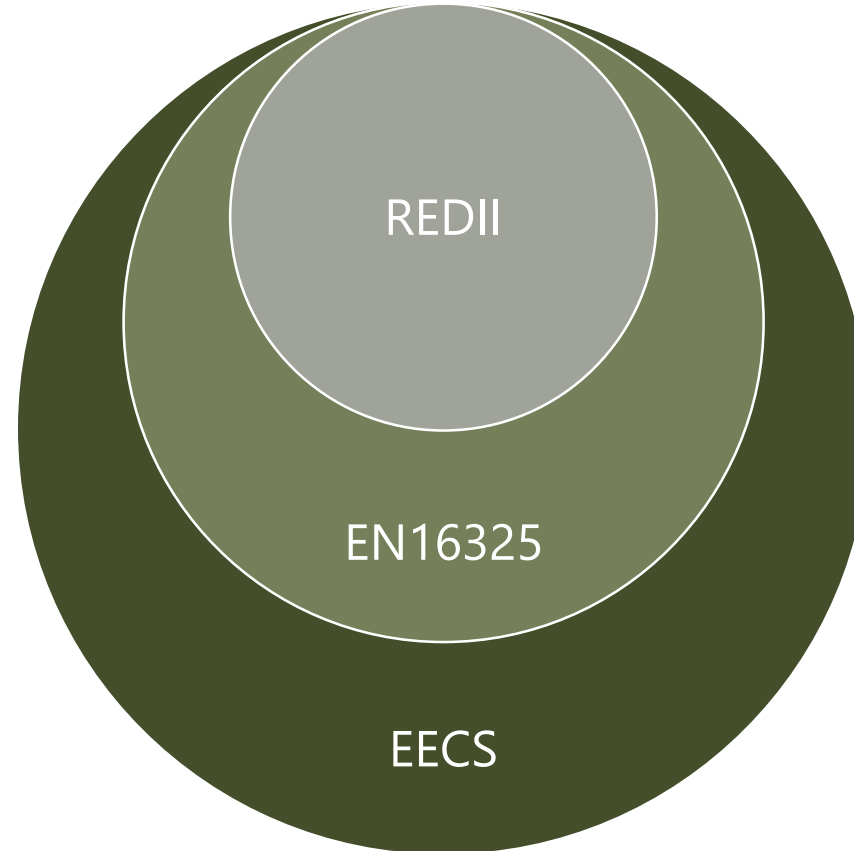
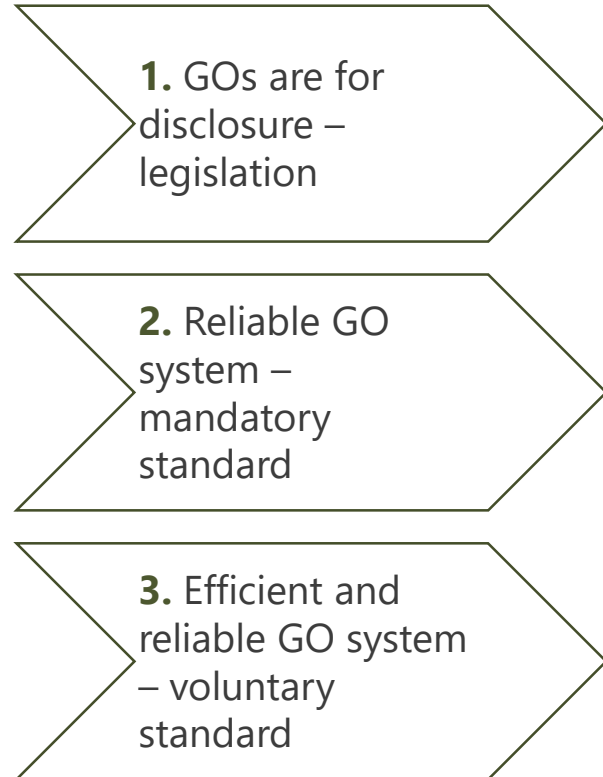


European Legislation

Guarantees of Origin



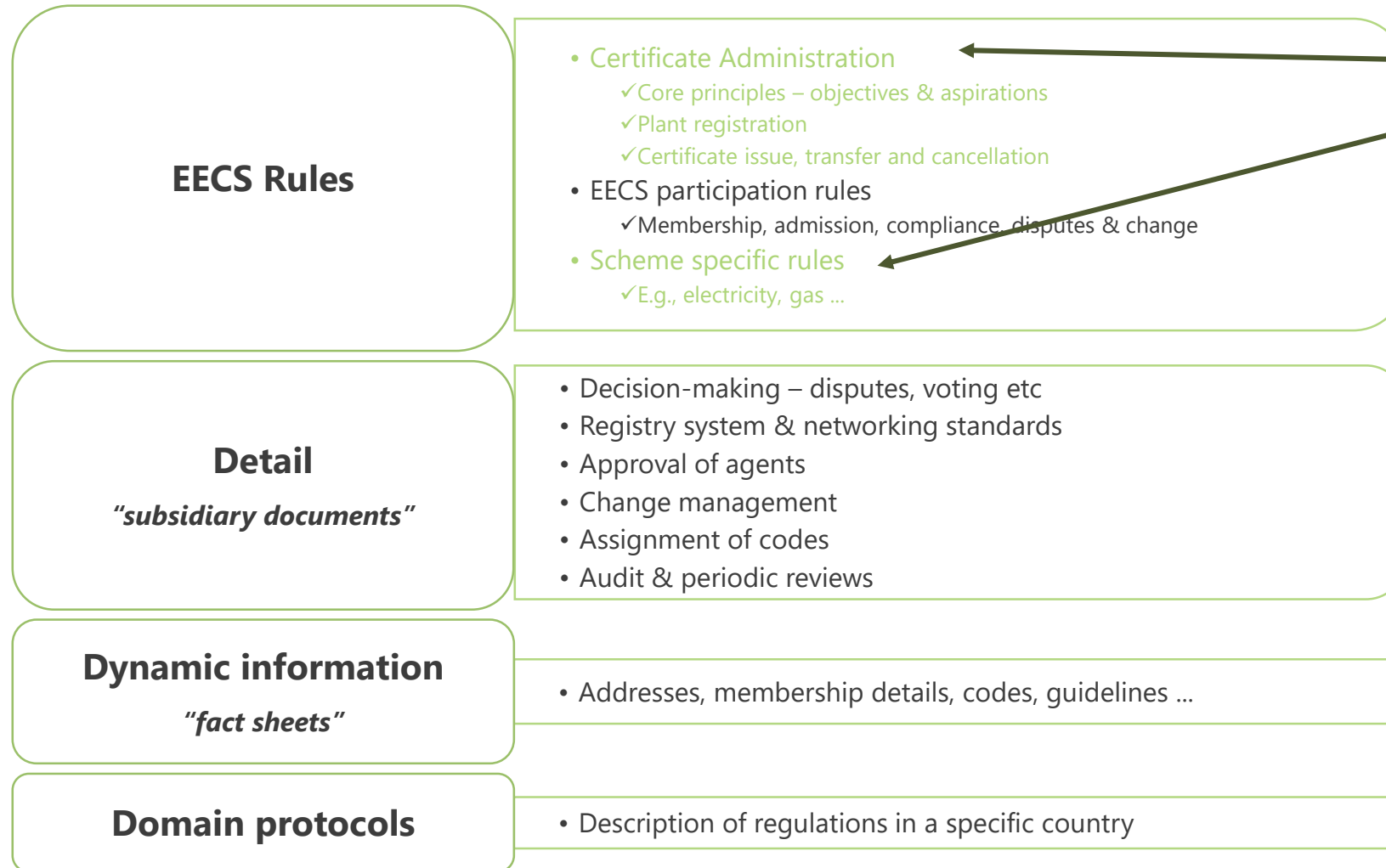
Framework for cross border harmonisation of GOs



Note: EECS covers also other products than guarantees of origin

The European Energy Certificate System (EECS)

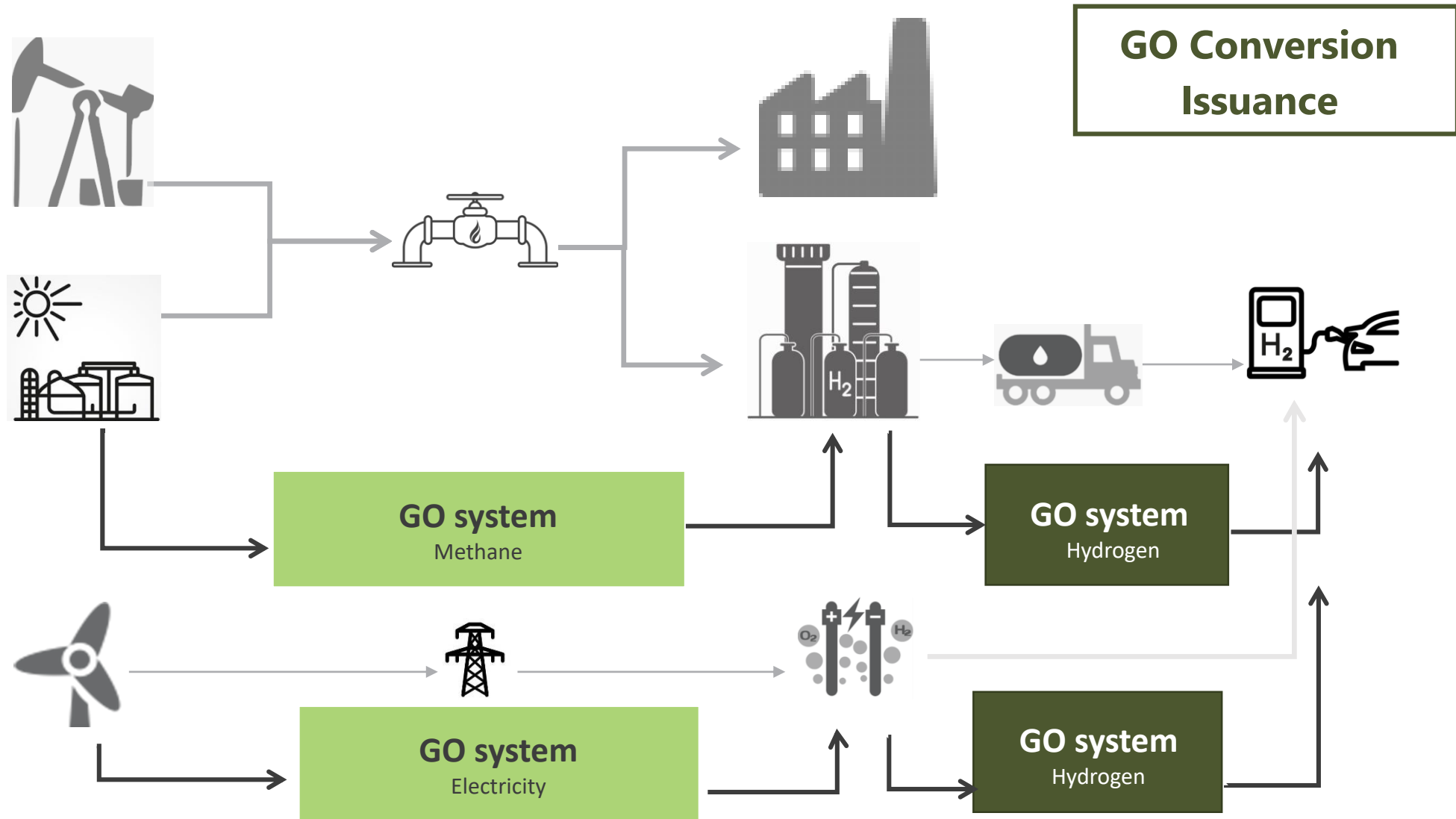
Framework



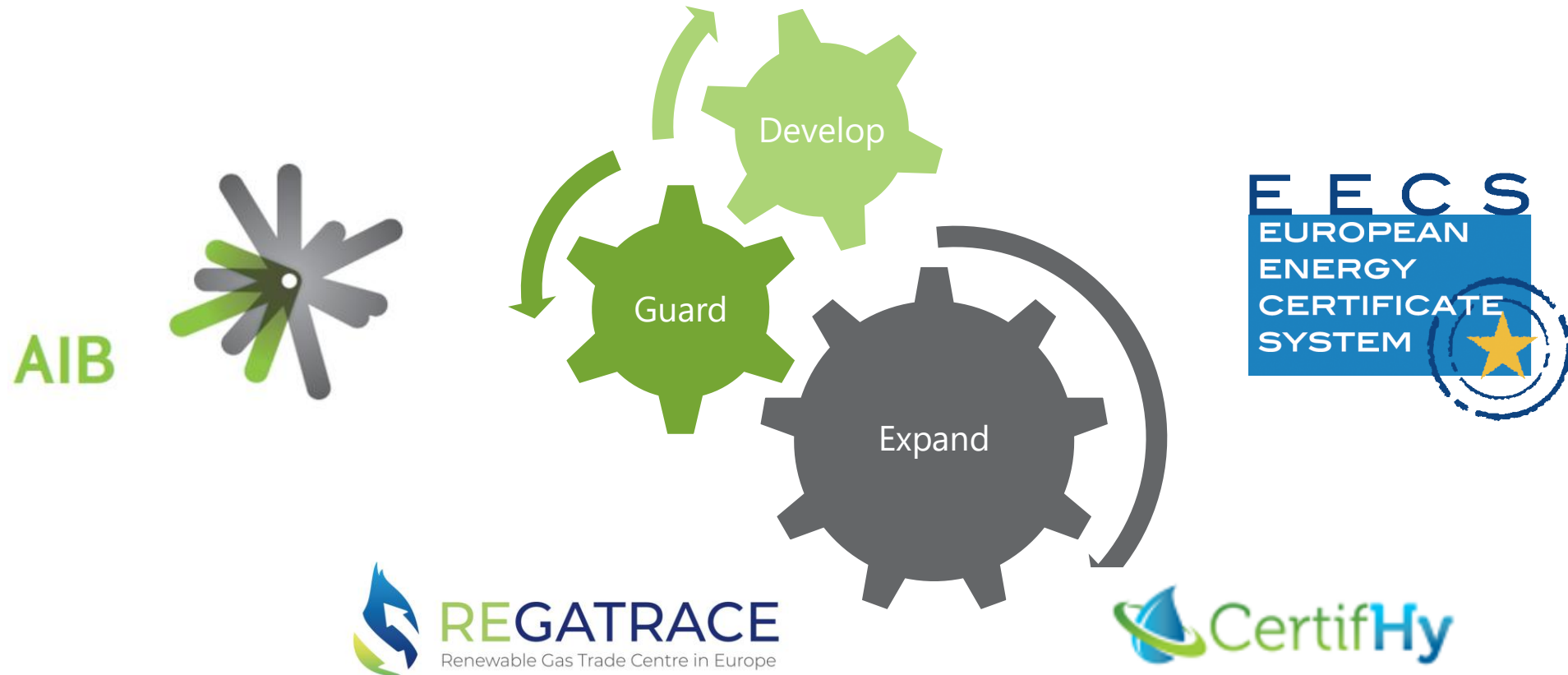
Mirrored in EN16325, based on EECS



Why a generic GO system for all energy carriers?



Guarantees of Origin

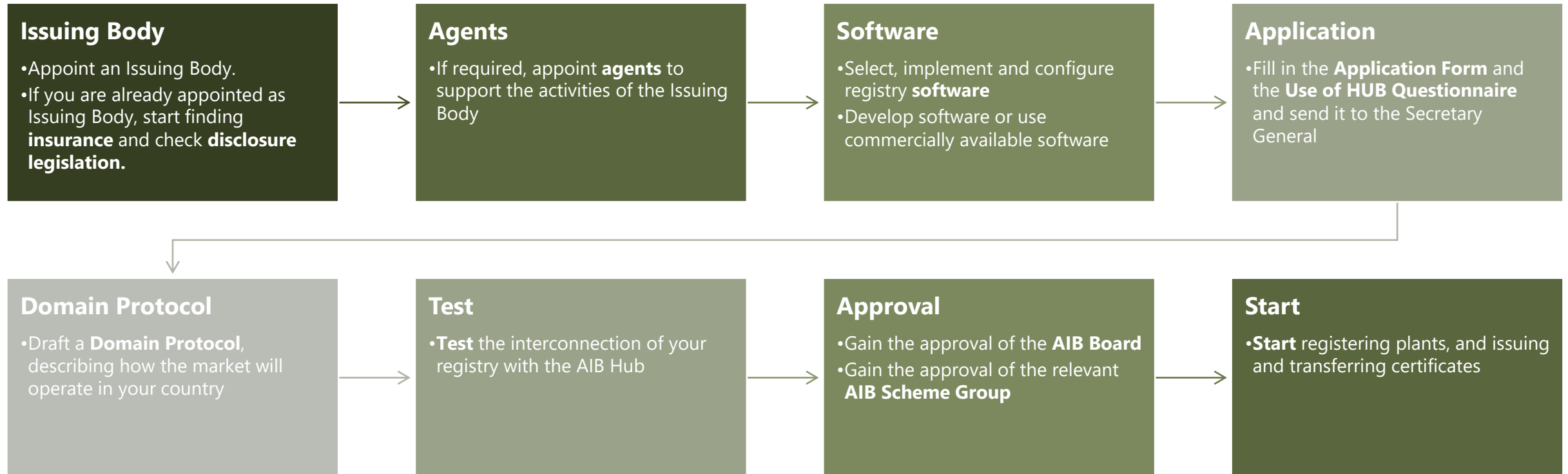


04

Joining Process

Setting up AIB infrastructure in your country

Joining Process



Orientated time schedule

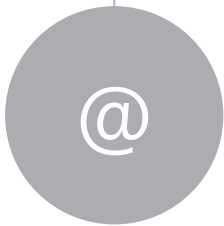
Joining Process

Activity	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
Get in contact with AIB	Active	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey
Appoint agents	Active	Active	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey
Select, implement and configure registry software	Grey	Active	Active	Active	Active	Active	Active	Active	Active	Grey	Grey	Grey
Apply for AIB membership	Active	Active	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey
Draft domain protocol	Grey	Active	Active	Active	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey
Review domain protocol	Grey	Grey	Grey	Active	Active	Active	Active	Active	Active	Active	Active	Active
Test interconnection Your Registry ↔ AIB Hub	Grey	Grey	Grey	Grey	Active	Active	Active	Active	Active	Active	Active	Active
Membership Approval of AIB board	Grey	Grey	Grey	Grey	Grey	Active	Active	Active	Active	Active	Active	Active
Scheme Membership Approval of AIB Scheme Group	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Active
AIB Support	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active

Your Contacts

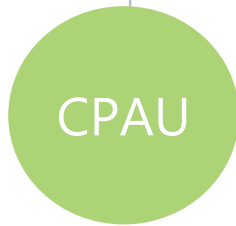
Joining Process

**Joining
Documentation**



www.aib-net.org

**Procedural
Matters**



cpau@aib-net.org

**Technical
Matters**



liesbeth@aib-net.org

**IT
Matters**



info@aib-net.org

05

Membership

Benefits of Joining AIB

Membership

EECS standard developed jointly by all members according to EU Directives and member state needs.

- ✓ Both EECS and the AIB Hub are continuously **improved**
- ✓ **Harmonised certification** with specifics for gas/electricity
- ✓ **Independent decision-making** regarding specifics for gas/electricity
- ✓ Dealing with **one Hub connection** instead of a lot:
 - Cuts down prices
 - Reduces workload
 - More safe/reliable 58 eyes are much better than 2
- ✓ Part of a **“accredited authority”**
- ✓ Peer-to-peer exchange of **reliable information**
- ✓ Continuous best practices **training**
- ✓ Strong **networking**
- ✓ Tailor-made **advice and expertise**

Benefits of Joining AIB

Membership

Becoming and being a member of the AIB



Membership Fees

Membership

- AIB is an Association financing itself via membership fees.
- The membership fees intend to share the costs of providing services equitably between members (explained in detail in Joining Brochure).
- Where applicable, membership fees are calculated based on the number of transfers expressed in TWh.

	Activity	Fee
Observer	N/A	€ 6 000
Small	< 4 TWh	€ 6 000
Medium	≥ 4 TWh and < 8 TWh	€ 36 100
Large	≥ 8 TWh	€ 77 600



06

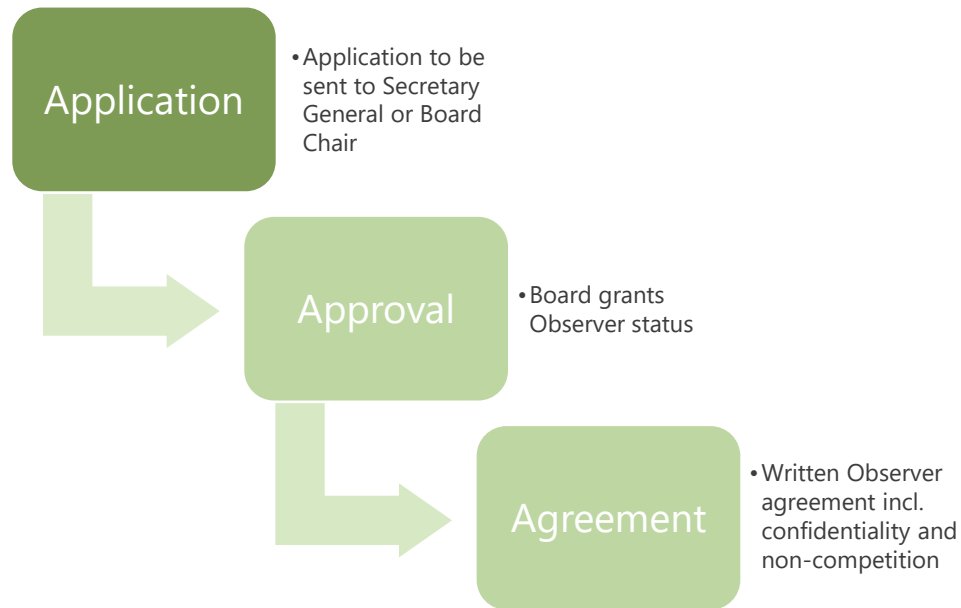
Observer

Observer Status

Observer

The Observer status can be granted to Issuing Bodies (legislative or voluntary certificates).

Process



Rights

- ✓ Limited access to website and meetings
- ✓ No voting rights
- ✓ First calendar year a free or cost-covering fee



Thank you for your attention!

You are welcome to become a member of the AIB
and
we look forward to a pleasant cooperation.

Let's together continue to strengthen energy tracking!



www.aib-net.org



+32 (0)486 55 83 01



info@aib-net.org