



AIB and EECS

(European Energy Certificate System)

01

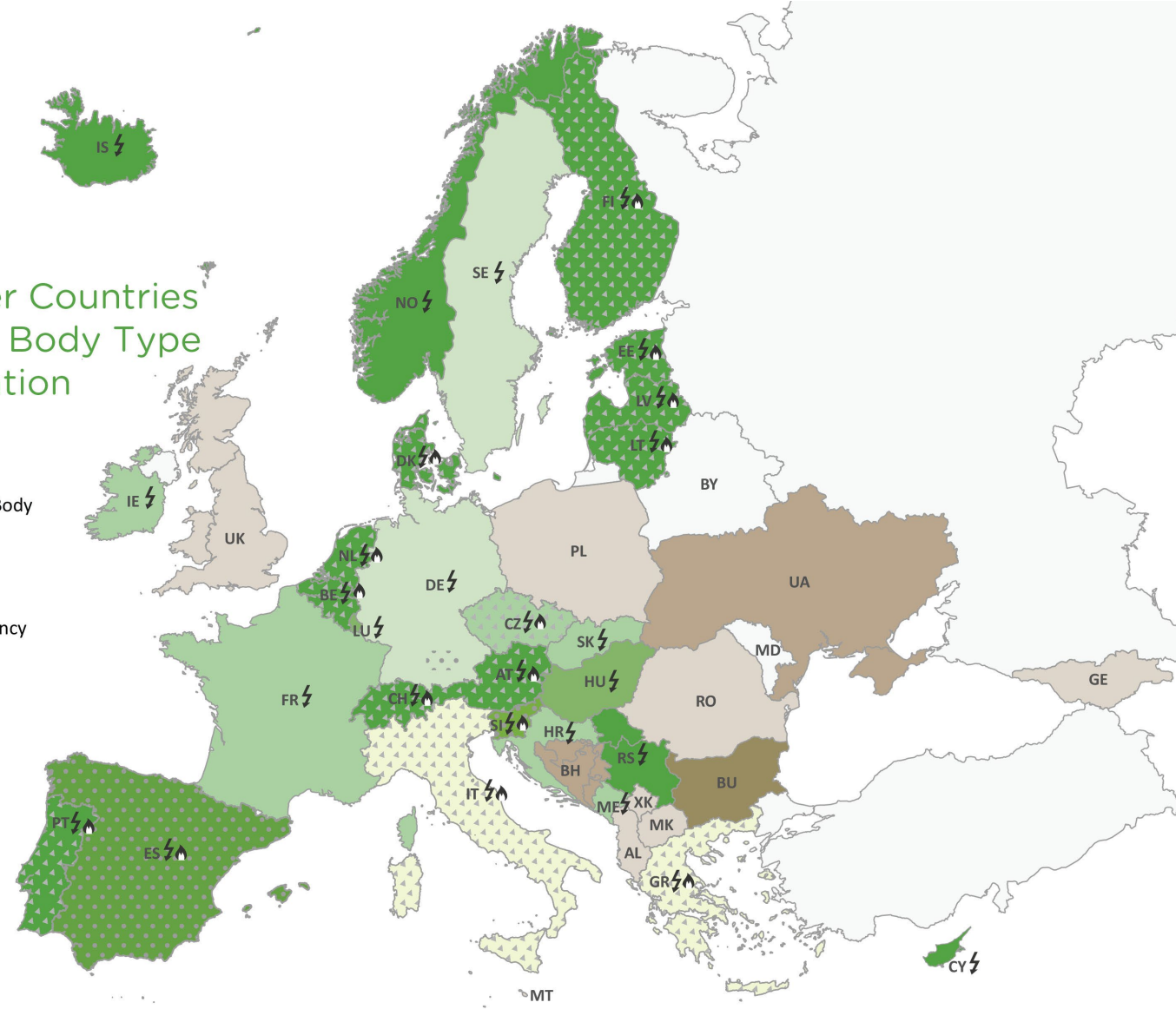
The Association of Issuing Bodies (AIB) operating EECS

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



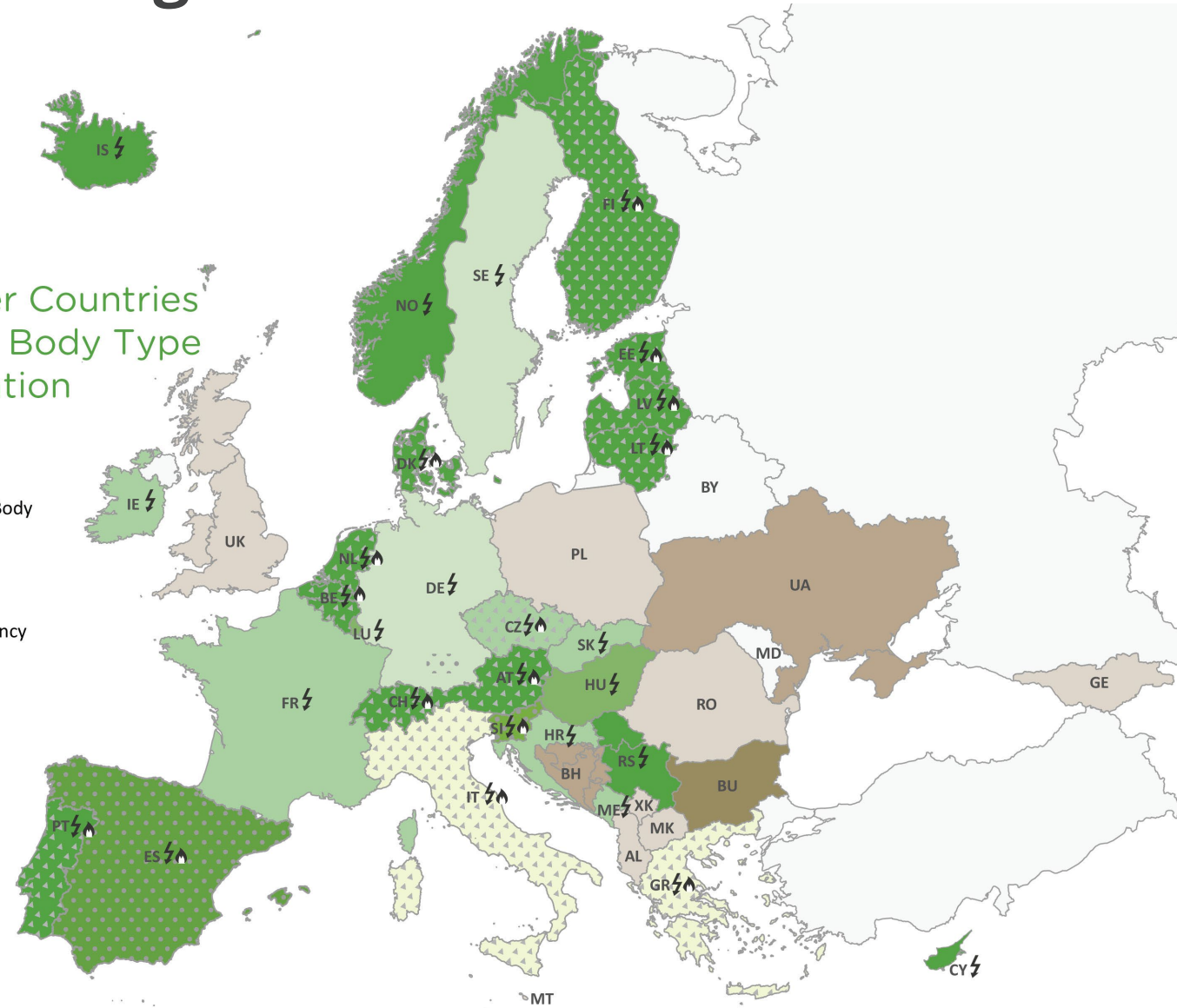
AIB and its Member Countries / Regions

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 20 AIB members assigned by their government for issuing gas GO

- Austria (E-Control), Belgium Brussels (Brugel), Belgium Flanders (VREG), Belgium Wallonia (SPW), Croatia (HROTE) Czech Republic (OTE), Denmark (Energinet), Estonia (Elering), Finland (Gasgrid Finland), France (EEX), Greece (Dapeep), Italy (GSE), Latvia (Conexus Baltic Grid), Lithuania (Amber Grid), Luxembourg (ILR), Netherlands (VertiCer), Portugal (REN), Slovenia (AGEN-RS), Spain (Enagas GTS), Switzerland (Pronovo), more to follow

AIB Member Countries and Issuing Body Type of Organisation

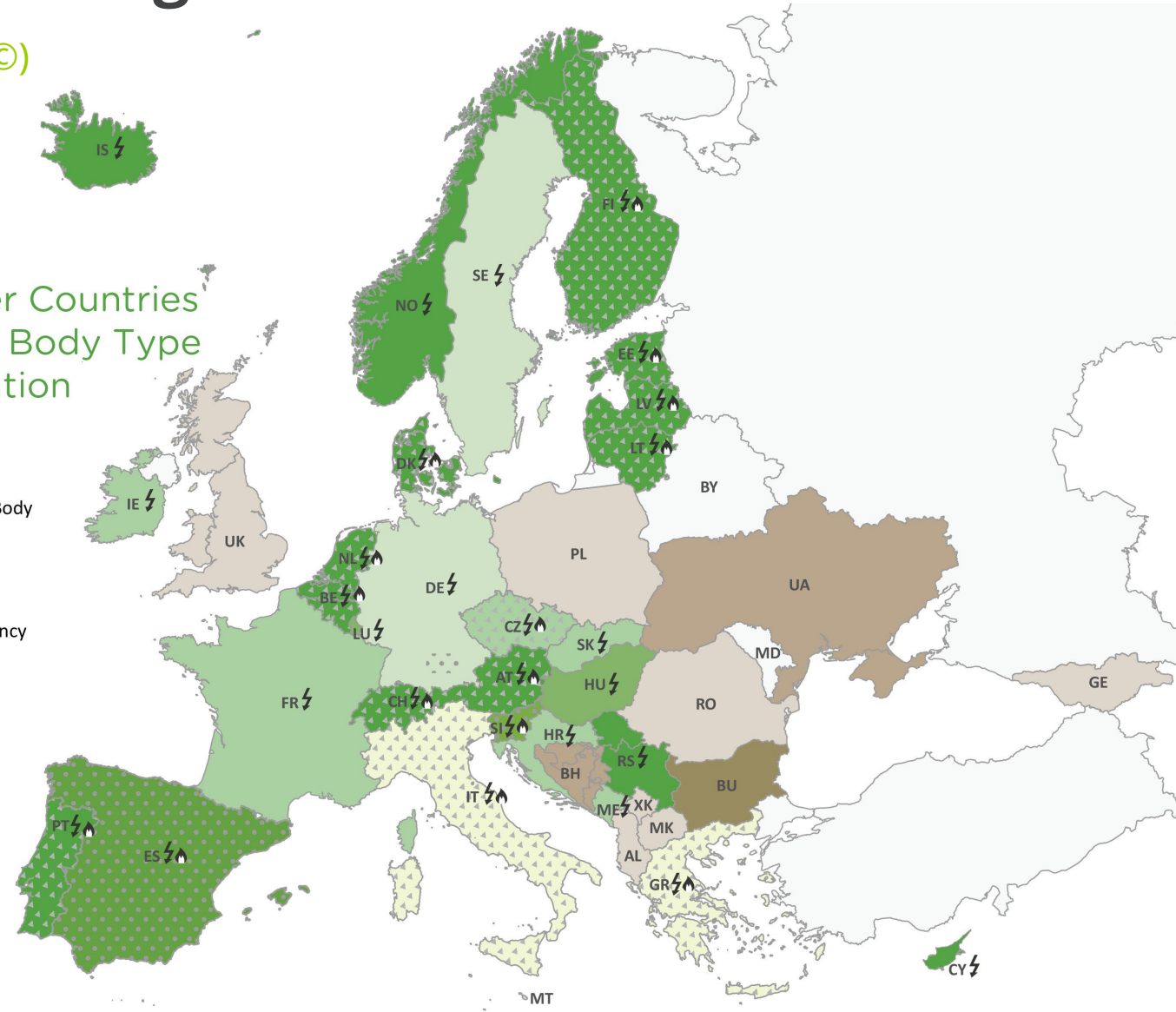


AIB and its Member Countries / Regions

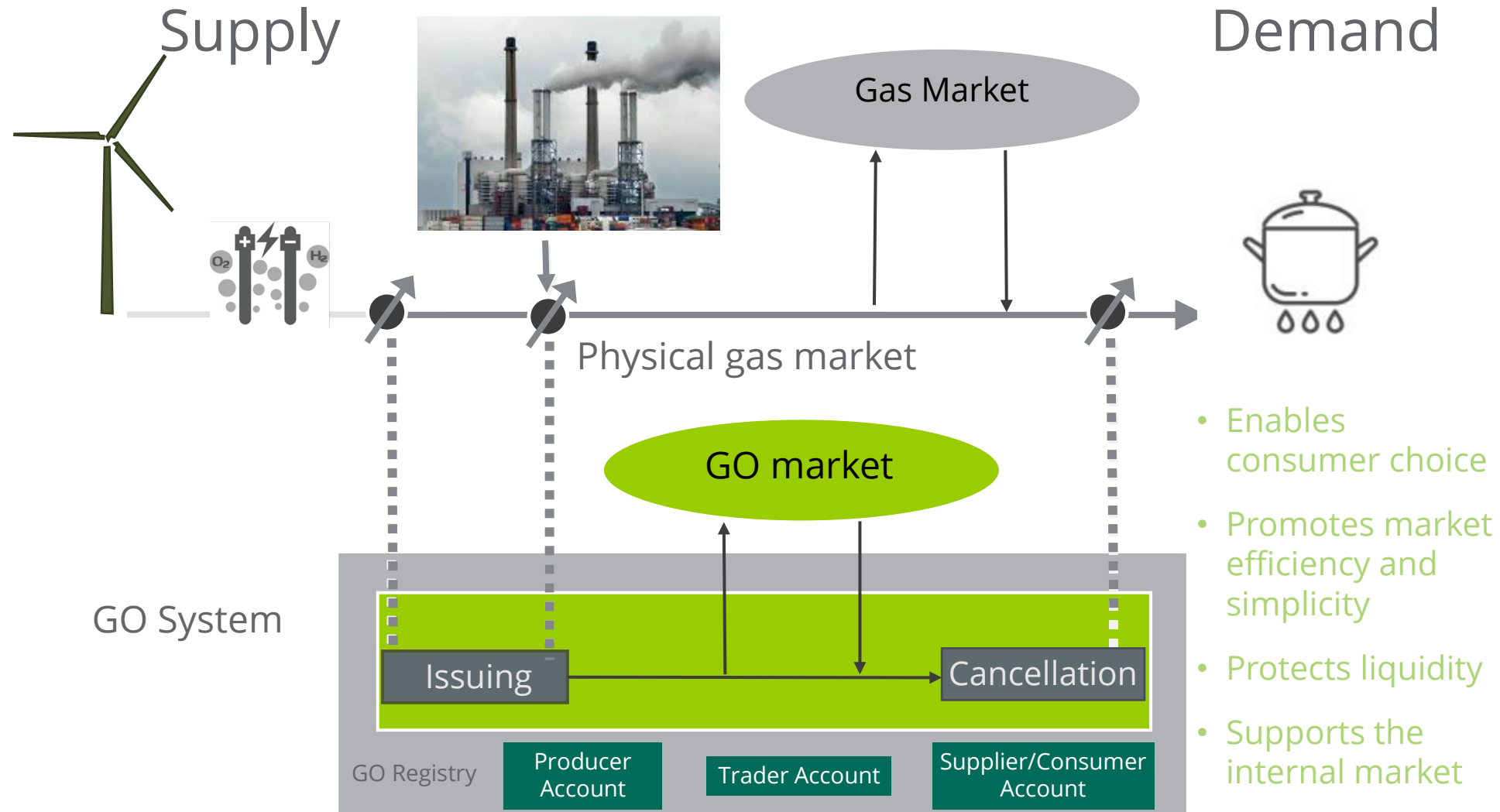
Pillars of the European Energy Certificate System (EECS®)

- 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

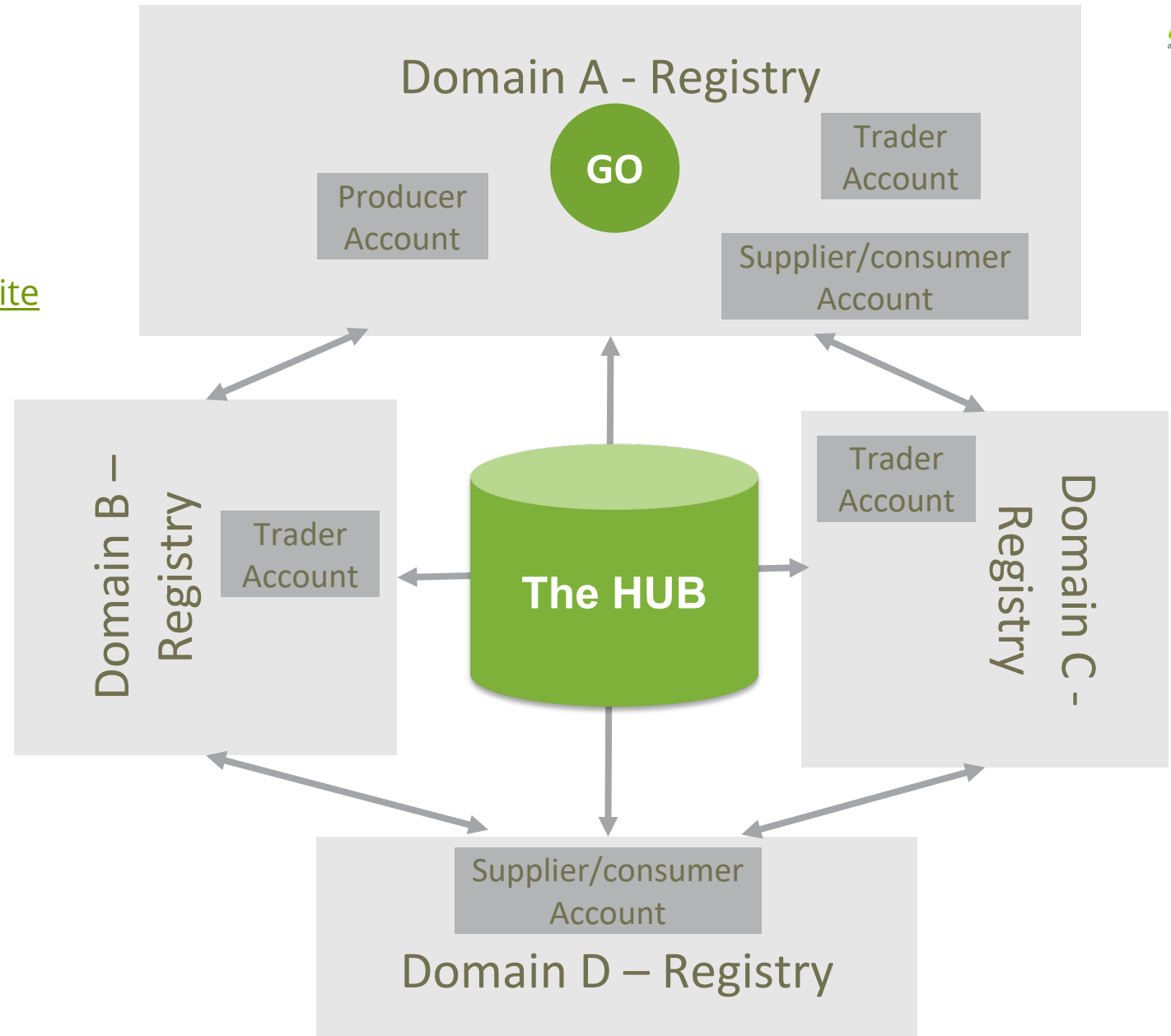
- Statistics are available on the [AIB website](#)
- 28 Domains

→ How

- Standardised
- Automated
- Jointly operated

→ Why

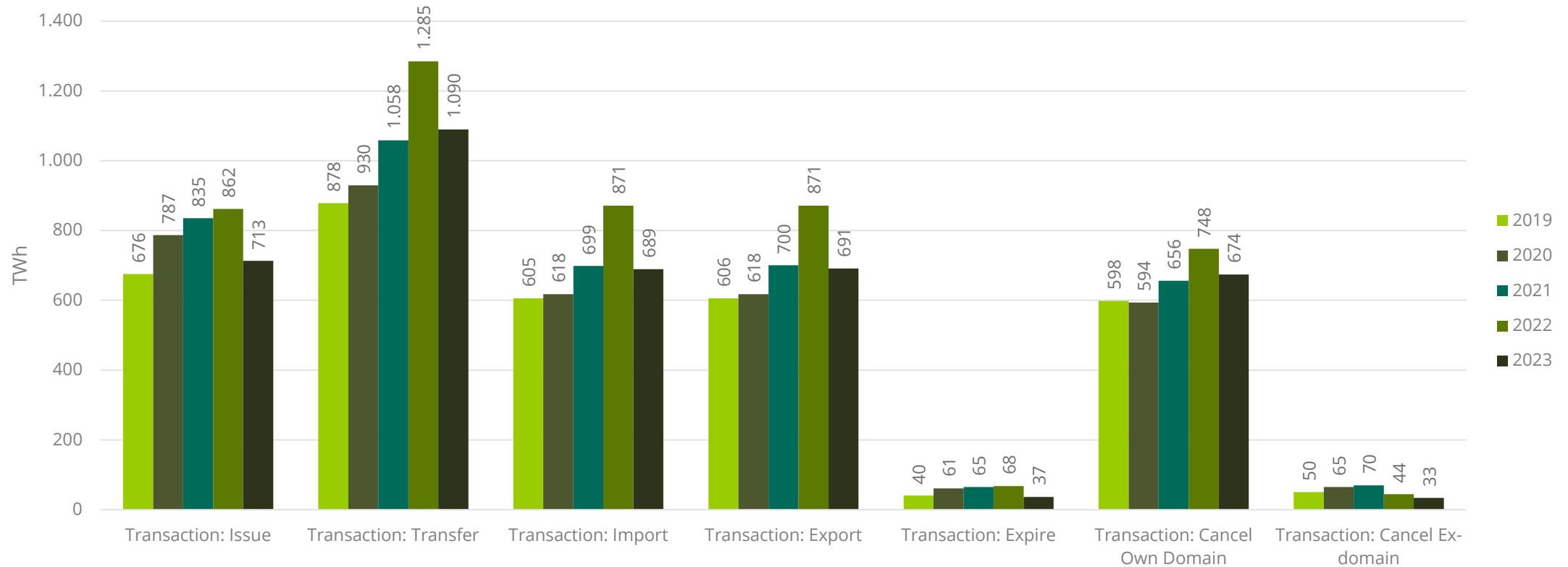
- Efficiency
- Trust
- Fraud prevention



Size of the market for electricity GOs

AIB Facts & Statistics (status 14/11/2023)

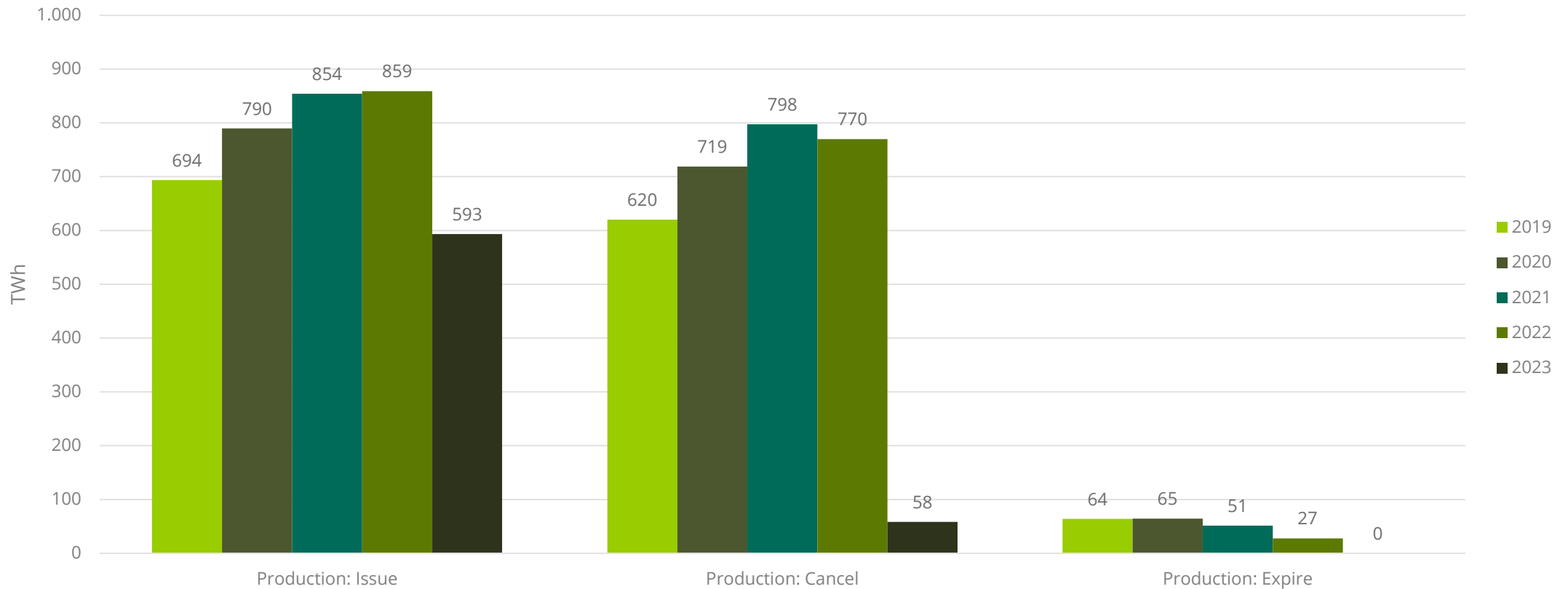
Annual EECS transactions by transaction date (TWh)



Size of the market for electricity GOs

AIB Facts & Statistics (status 14/11/2023)

Annual EECS transactions by production date (TWh)



AIB organised to facilitate multi-energy

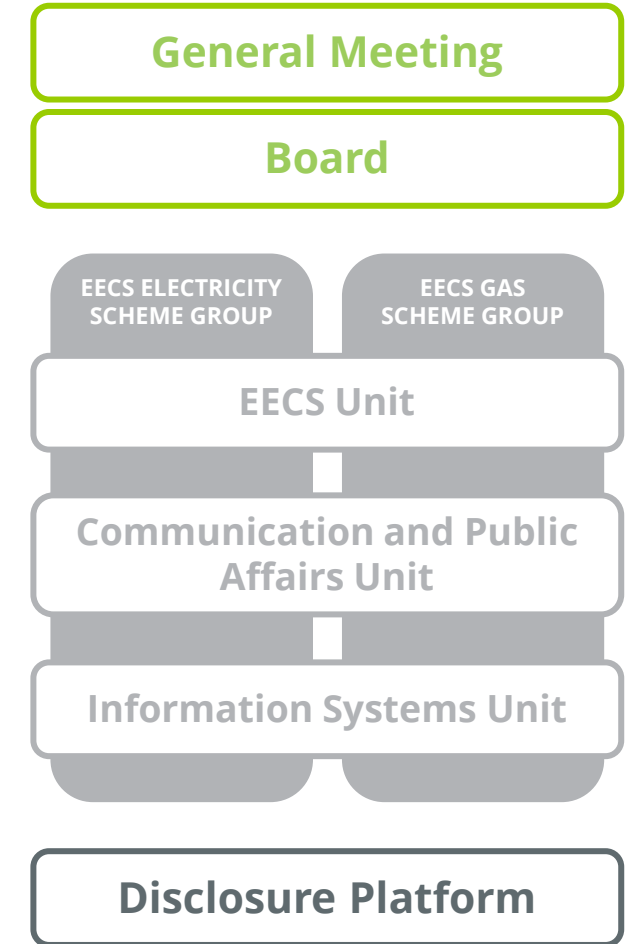
→ AIB Hub facilitates cross-registry transfer of gas certificates from 2023 on.

→ 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
• <u>Product name</u>
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? *

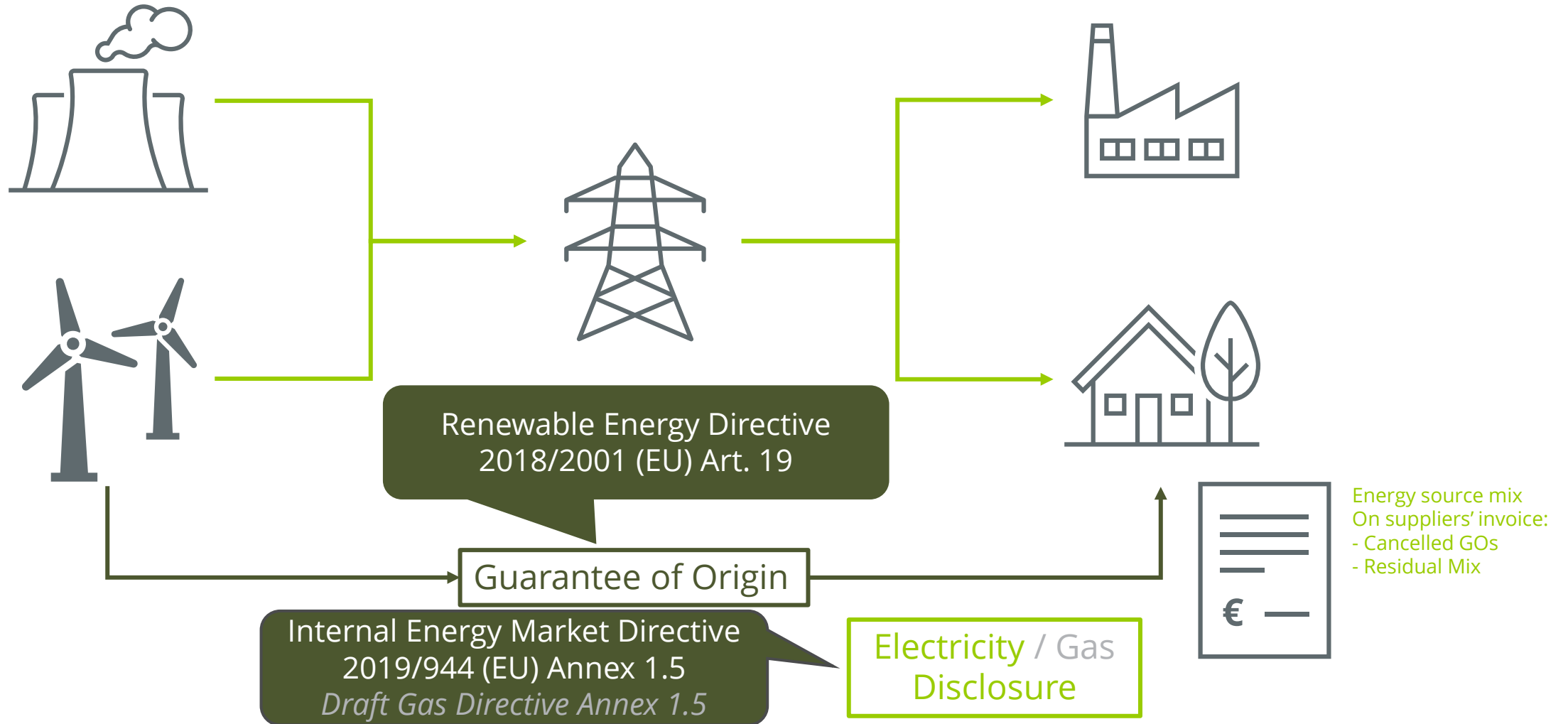
Legend:

Mandatory information field

*Optional information field

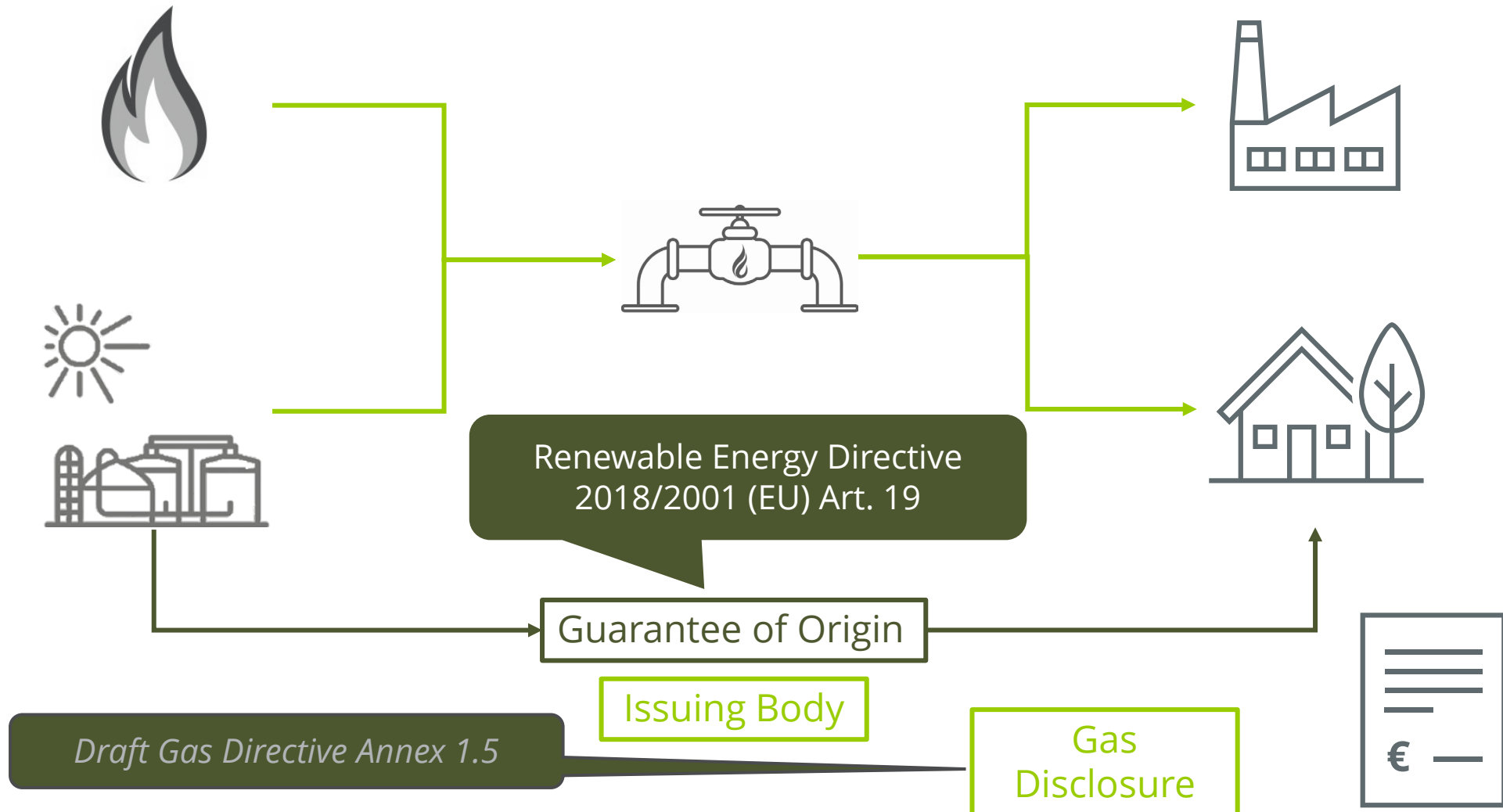
European Legislation

Guarantees of Origin

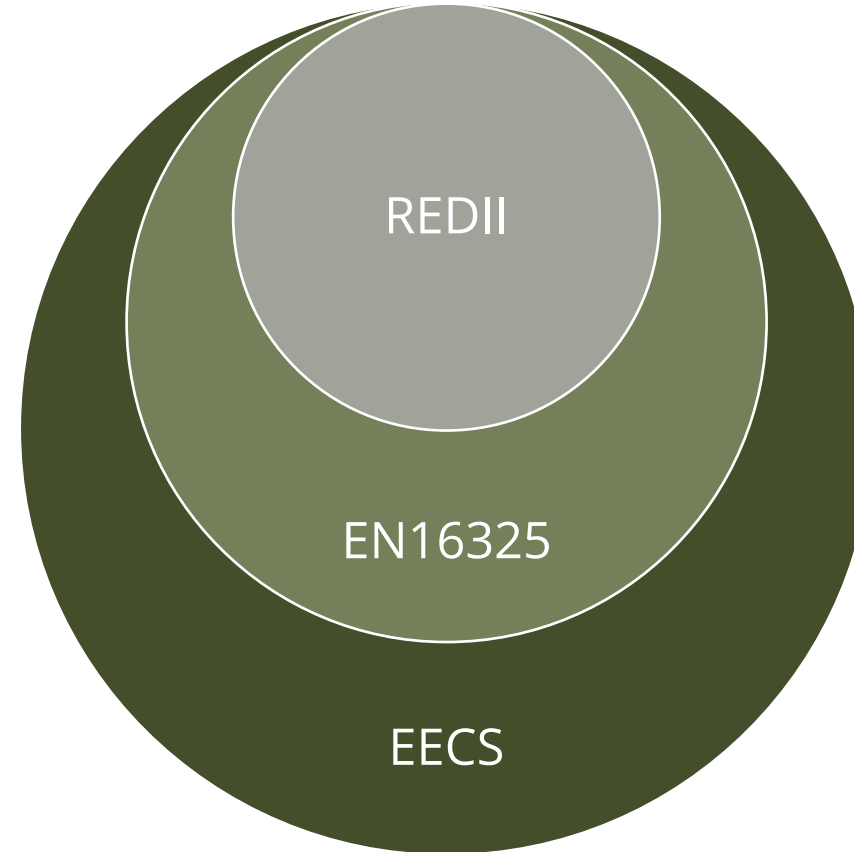
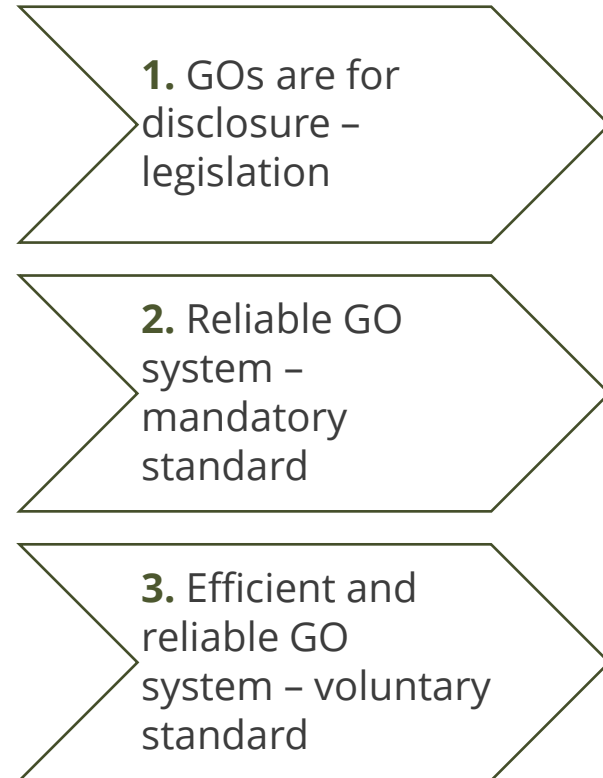


European Legislation

Guarantees of Origin



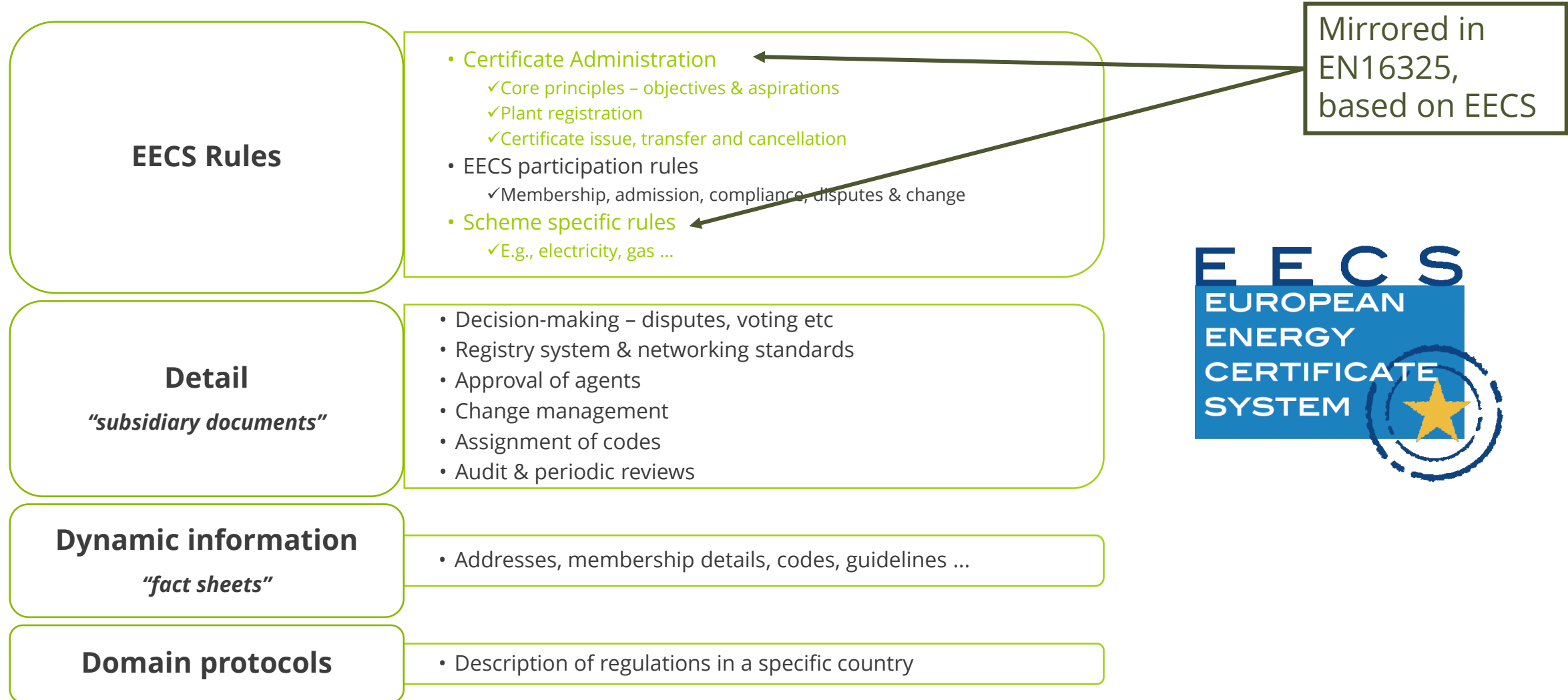
Framework for cross border harmonisation of GOs



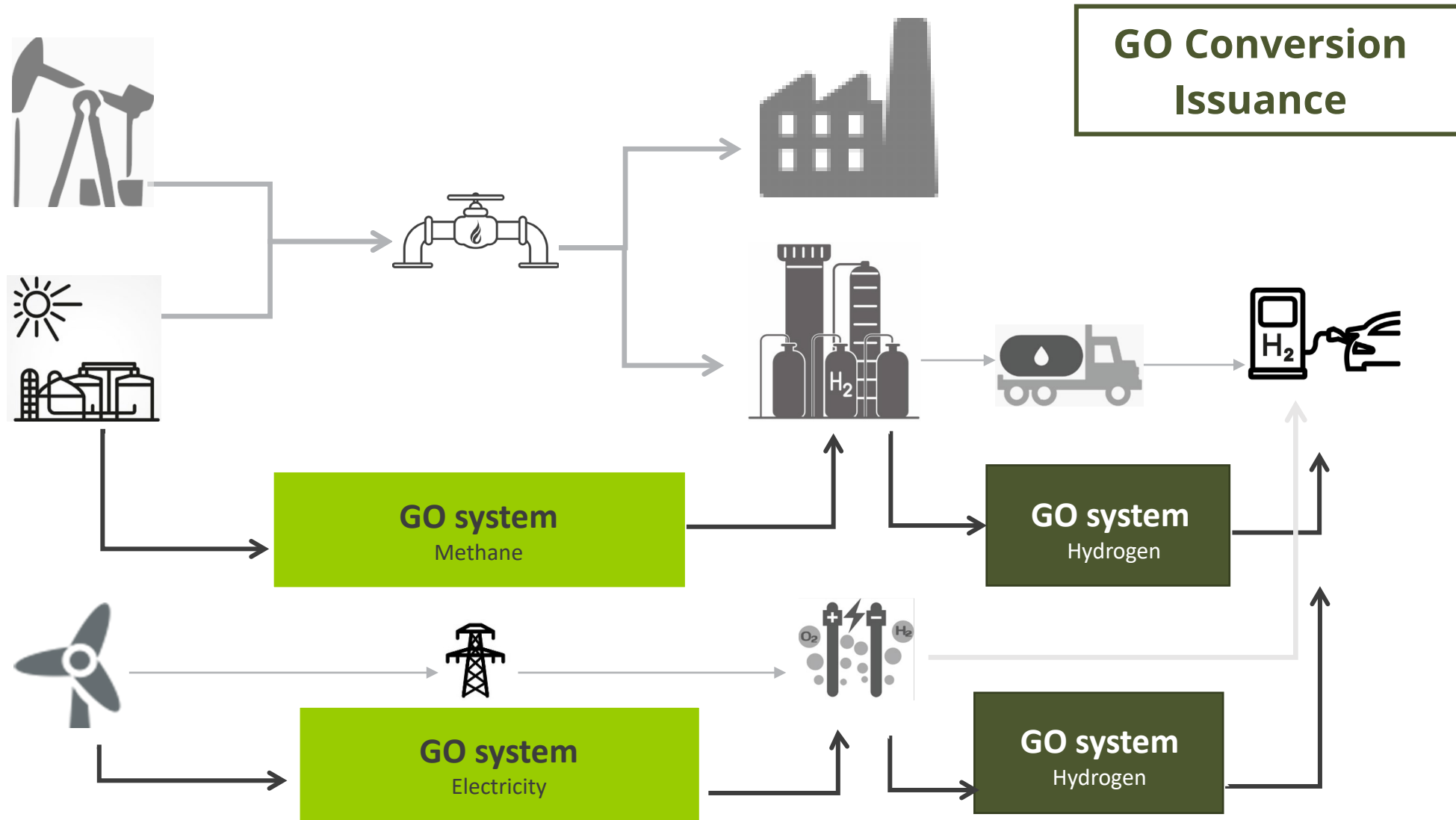
Note: EECS covers also other products than guarantees of origin

The European Energy Certificate System (EECS)

Framework

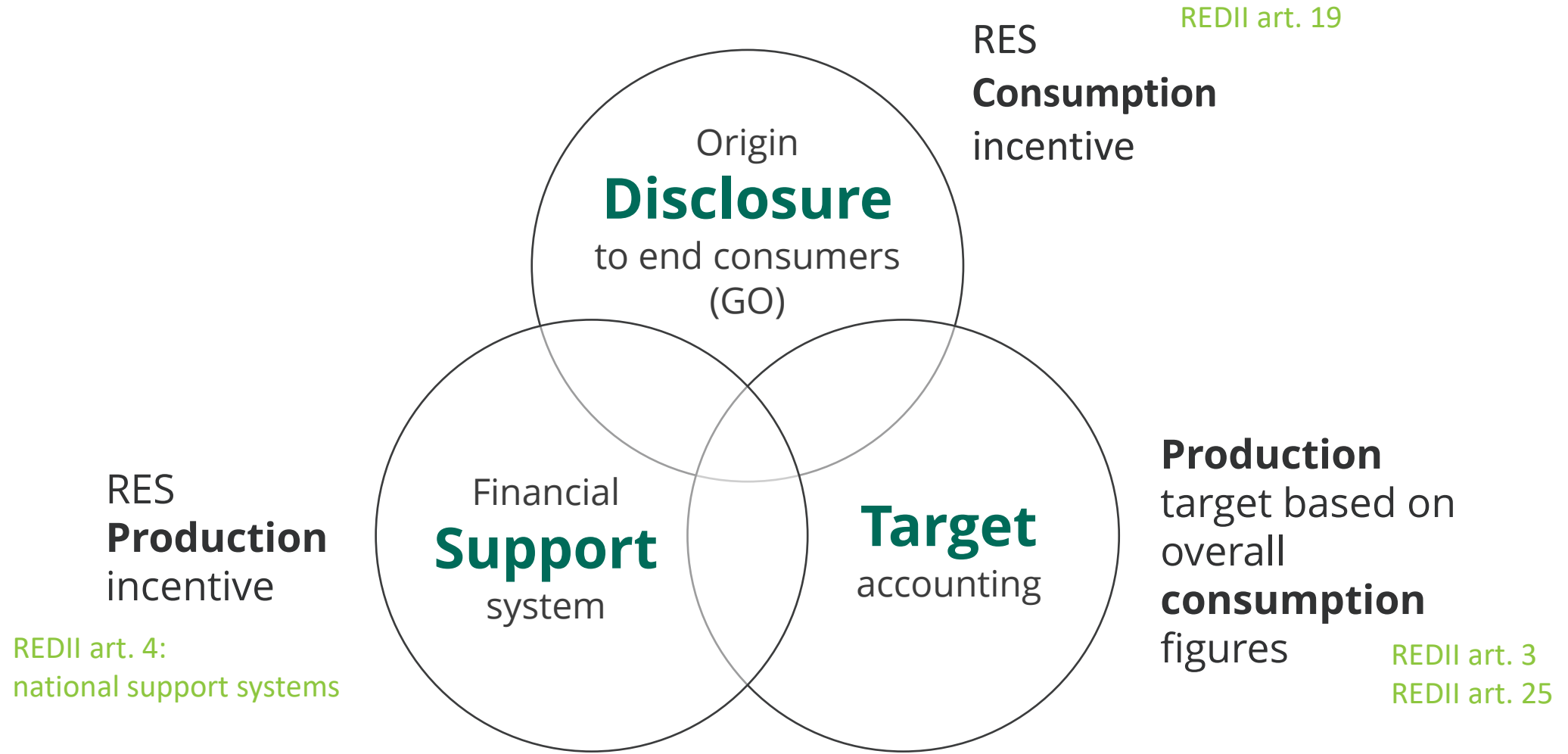


Why a generic GO system for all energy carriers?



3 regulated systems – 3 purposes

EECS certificate structure enables certifying multiple purposes



Certificate system design options

Facilitated by EECS

Single multipurpose certificate?

applicable for Support, Disclosure and
Target counting

- Consistency,
- Simpler and
- Cheaper to operate
- Challenge: record additional information
 - Requirements for EU-ETS ?
 - Mass Balancing concept: how is it to be understood?

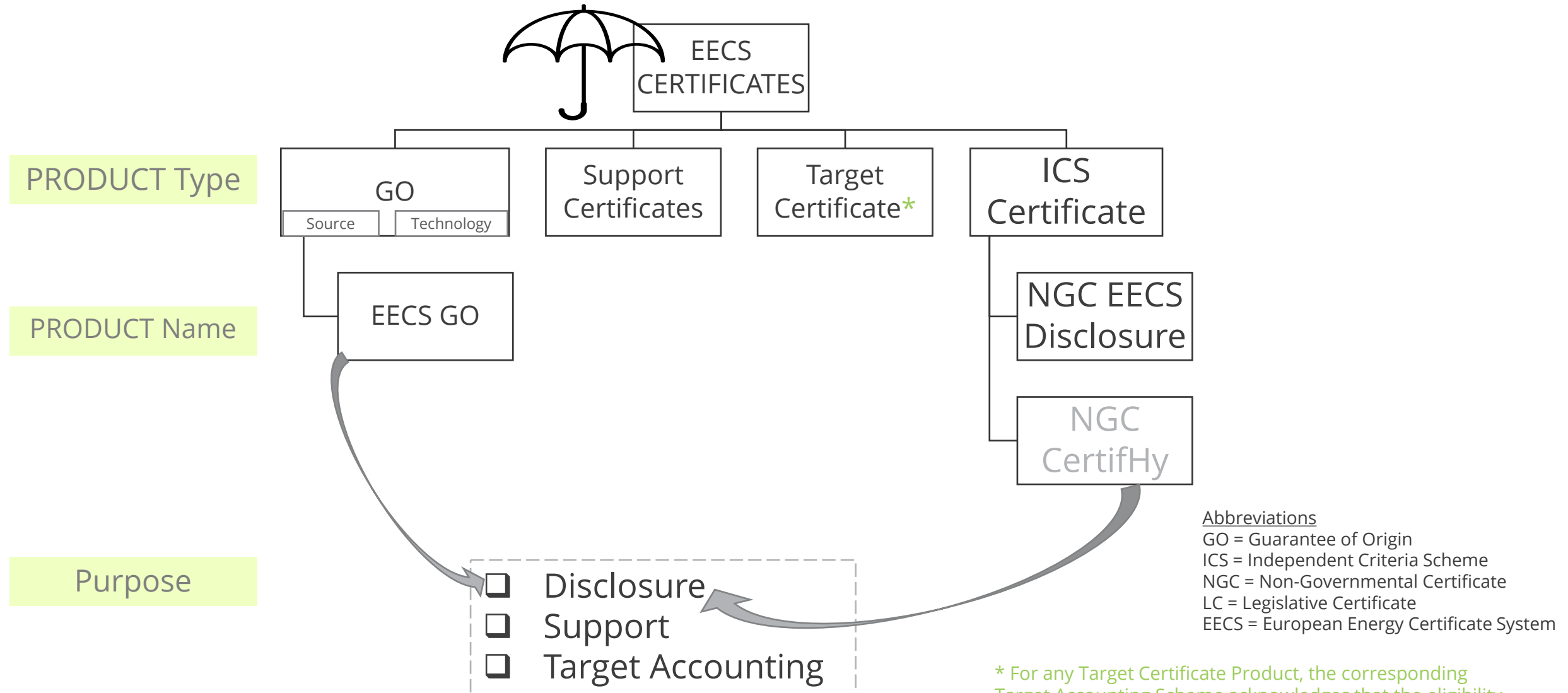
OR

One certificate for each purpose?

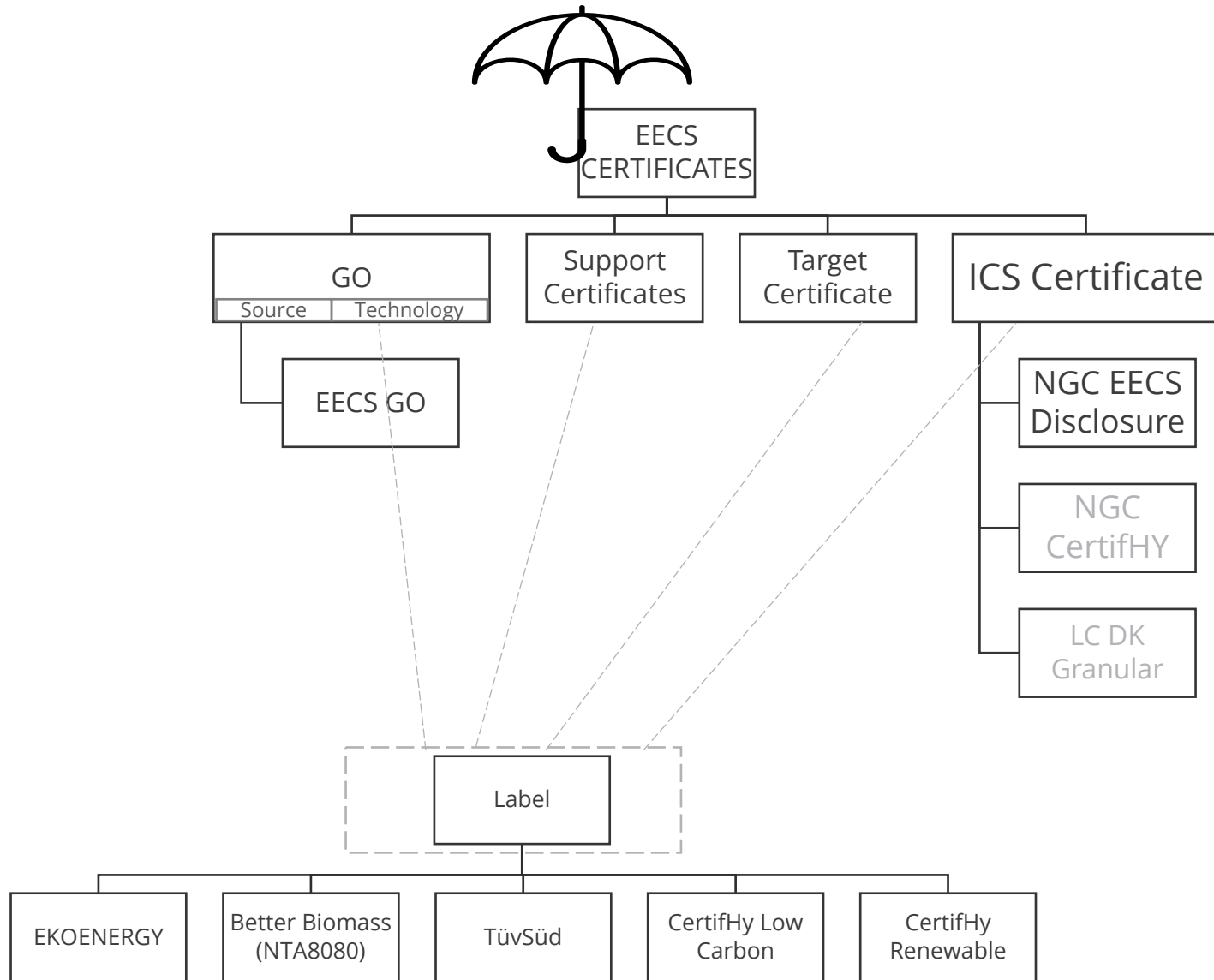
Support | Disclosure | Target counting

- Flexibility
- Duplication of registration work
- Risk of Double Disclosure of the renewable origin to an end consumer (Double Perception)

Certificate Product Types under the EECS standard



The relation between EECS Certificate types and labels



PRODUCT Type

PRODUCT Name

LABELS

Abbreviations

GO = Guarantee of Origin

ICS = Independent Criteria Scheme

NGC = Non-Governmental Certificate

LC = Legislative Certificate

EECS = European Energy Certificate System

Don't confuse apples with apple transport

Distinguish Purpose from Tracking Mechanism and from Consumption verification mechanism

→ Tracking Purpose

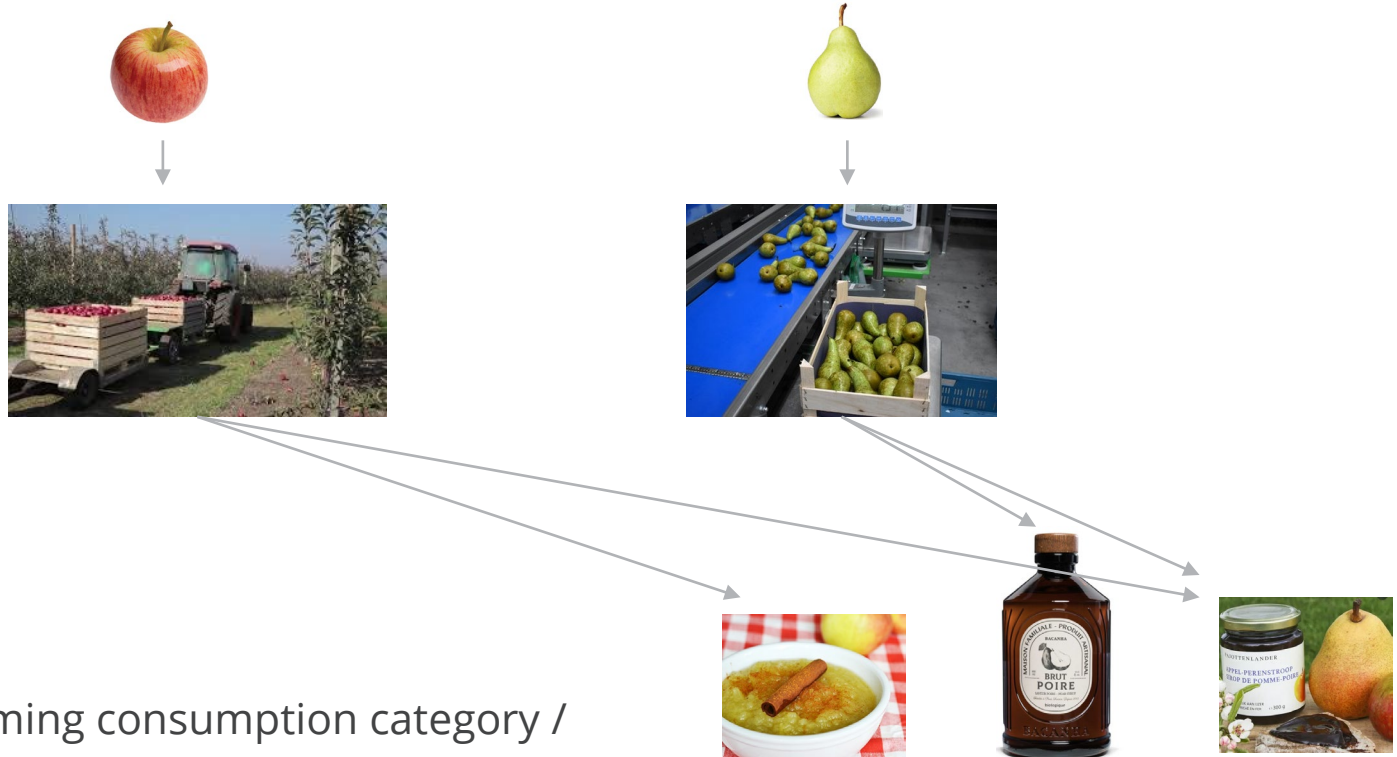
- Disclosure /
- Support /
- Target accounting

→ Tracking Mechanism

- Book and Claim /
- Mass Balance /
- Bundled sale of certificates and energy /
- ...

→ Consumption verification mechanism

- Disclosure supervision on suppliers /
- Mass Balancing Voluntary Scheme confirming consumption category /
- ...



03

Relation with Independent Criteria Schemes

Independent Criteria Schemes as EECS Products

Categories of ICSs

→ Operator of the ICS:

- AIB
- or
- External Scheme operator

→ Legal status

- Non-Governmental Certificate
- or
- Legislative Certificate

Independent Criteria Scheme: agreement between ICS operator and AIB

EECS Rules Section D 'EECS Products'

D2.4 ICS Certificates

D2.4.1 For a type of ICS Certificate to be accepted as an EECS Product:

- a) the type of ICS Certificate must relate either to:
 - i. the energy source for the associated Output;
 - ii. the technology used in producing the associated Output;
- b) the Scheme Operator of the relevant ICS Scheme must have entered into an agreement with the AIB regarding the operation of that ICS Scheme.

Independent Criteria Schemes may only be added to or removed from the Fact Sheet "Independent Criteria Schemes" by the General Secretary and with the support of the relevant Scheme Group.

Criteria for the agreement between AIB and ICS operator

1. Clear Scope
2. Shared Geographical Scope
3. EECS Compliance
4. Not competing with GO schemes and other legislative schemes
5. Clear authorisation and compliance criteria for issuing bodies under the ICS Scheme
6. Framework description for Scheme Update and Maintenance
7. Legal entity operating the Scheme
8. Clear Exit Conditions

Note: Issuing Bodies using the AIB Hub for cross-registry transfer shall comply with the EECS Rules.

Guarantees of Origin

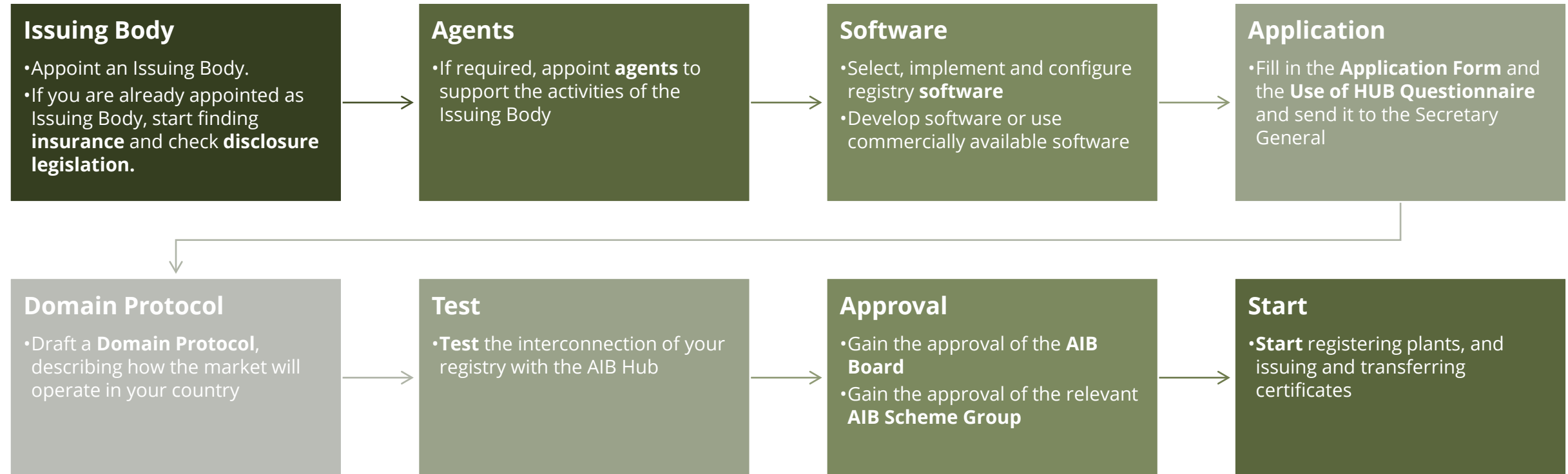


04

Joining Process

Setting up AIB infrastructure in your country

Joining Process



Orientated time schedule

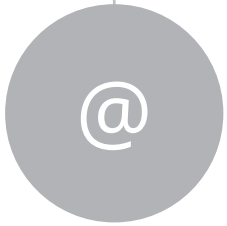
Joining Process

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												
Appoint agents												
Select, implement and configure registry software												
Apply for AIB membership												
Draft domain protocol												
Review domain protocol												
Test interconnection Your Registry ↔ AIB Hub												
Membership Approval of AIB board												
Scheme Membership Approval of AIB Scheme Group												
AIB Support												

Your Contacts

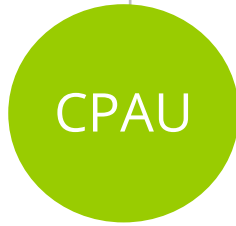
Joining Process

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



06

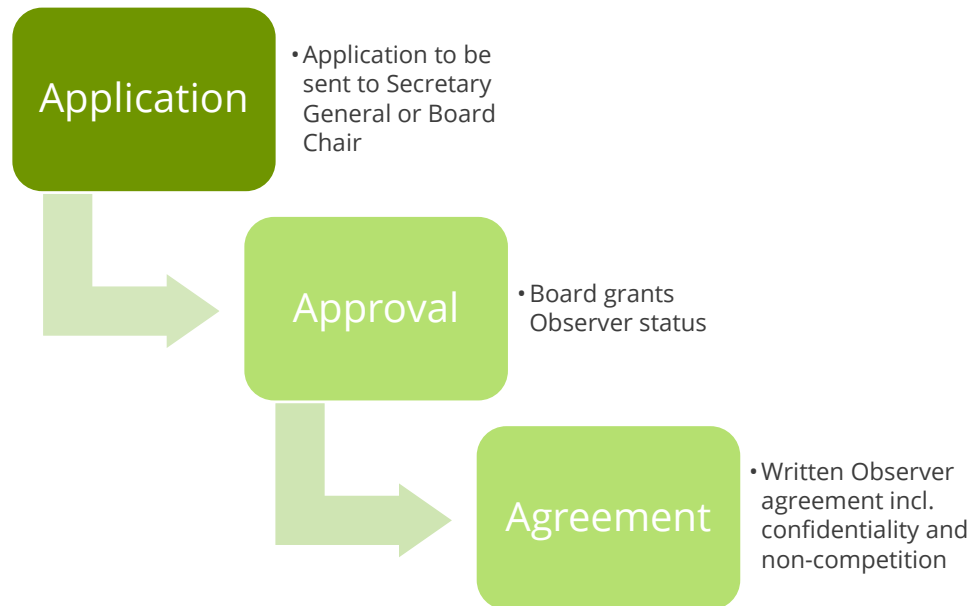
Observer

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!



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