



AIB  
association of issuing bodies



# AIB and EECS (European Energy Certificate System)

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Secretary General

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# **The Association of Issuing Bodies (AIB) operating EECS**



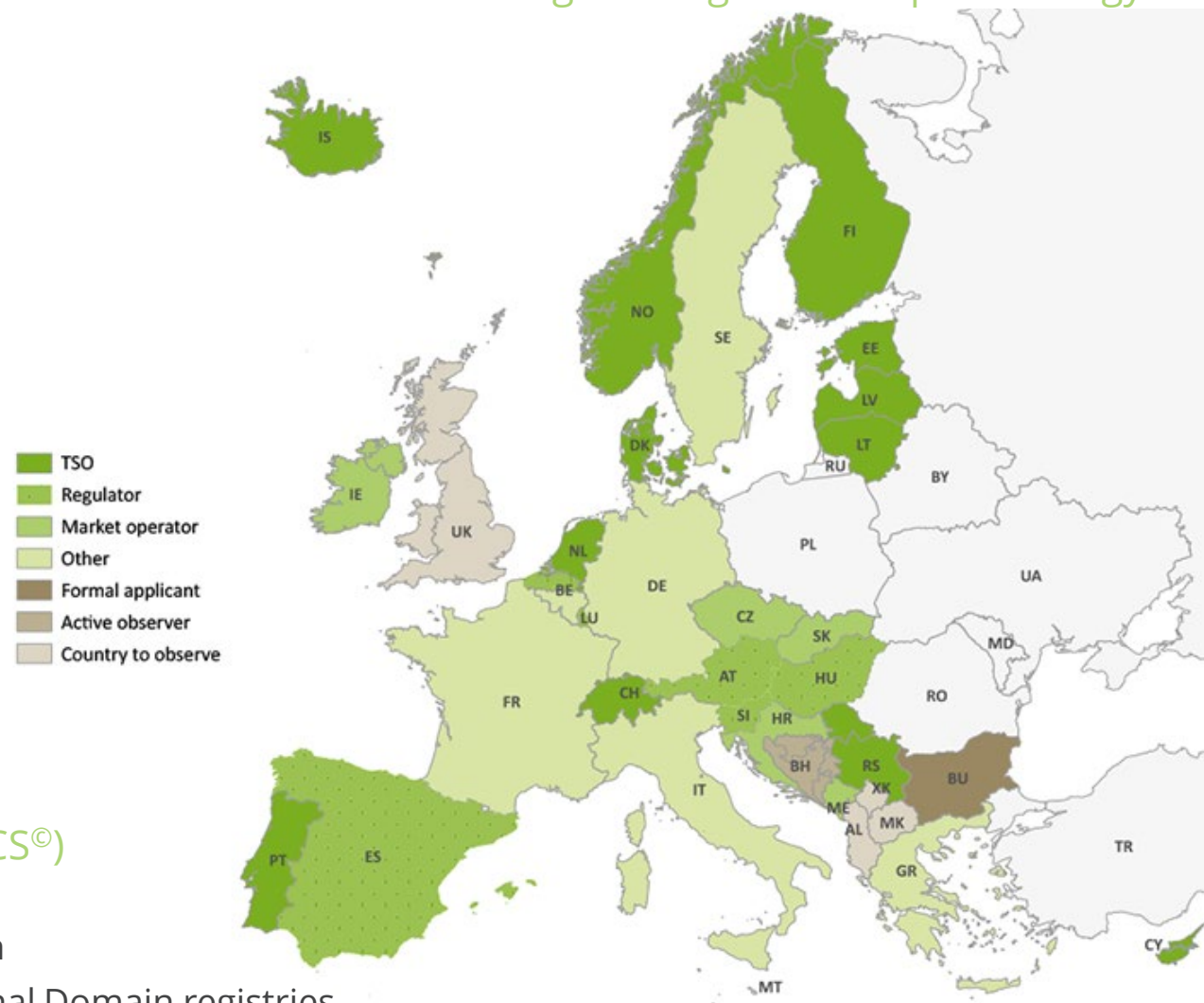
## The Association of Issuing Bodies - Facts

- AIB: non-profit association founded in 2002
- Now 28 countries connected (32 members)
- Geographical scope: EU - EFTA – Energy Community
- Issuing Bodies have diverse roles: regulator, market operator, TSO, ministry, power exchange etc.
- All AIB's current members are issuing bodies for electricity GOs
- About half AIB's members are also competent bodies for the supervision of electricity disclosure
- 8 AIB members assigned by their government for issuing GOs for gases – more to follow
- Developer and custodian of the EECS® standard

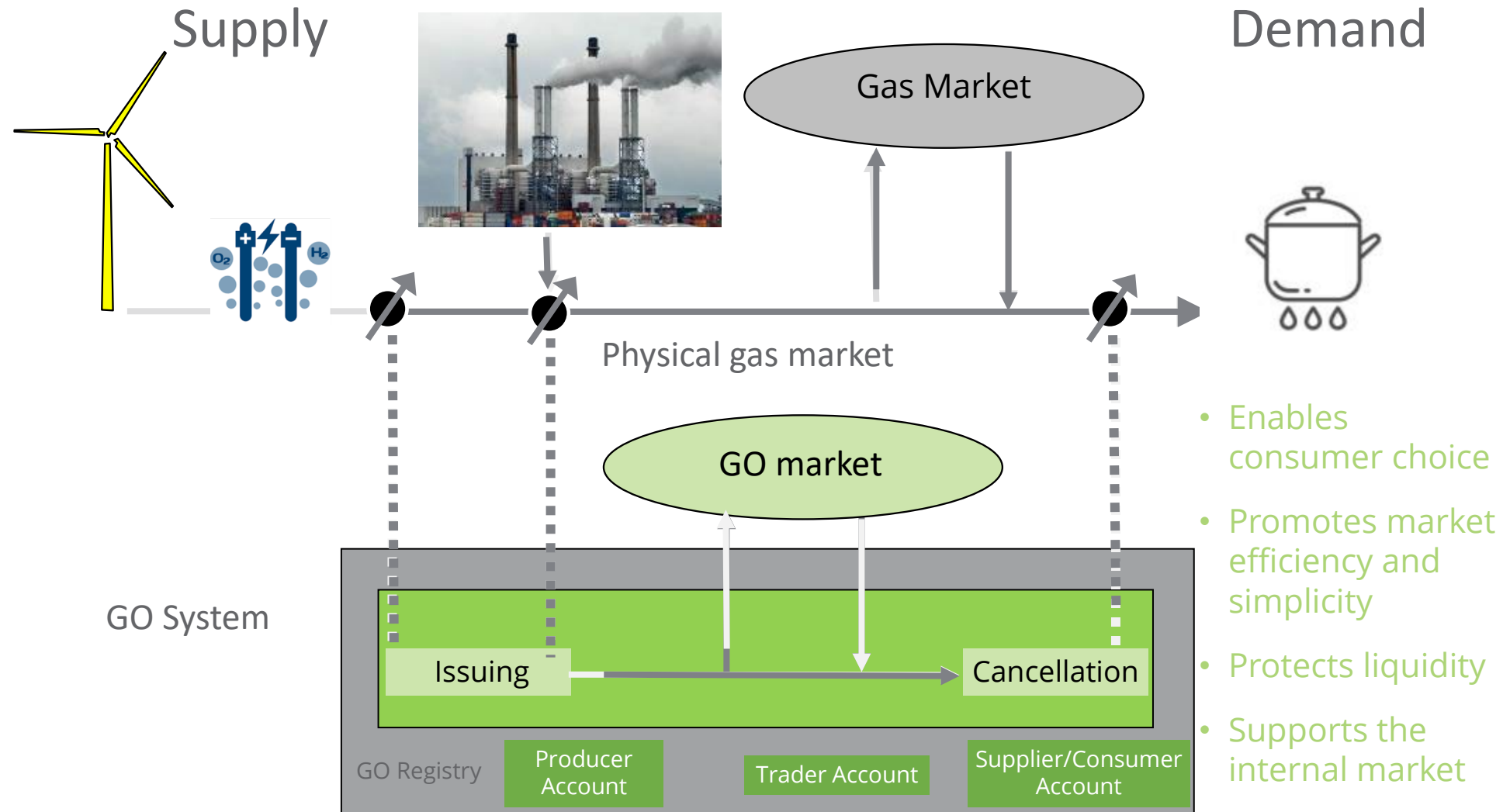
## Pillars of the European Energy Certificate System (EECS®)

- 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 Mission: Guaranteeing the origin of European Energy



# Book and Claim Certificate System



# The AIB HUB

## Framework

### → International transfers of electronic documents

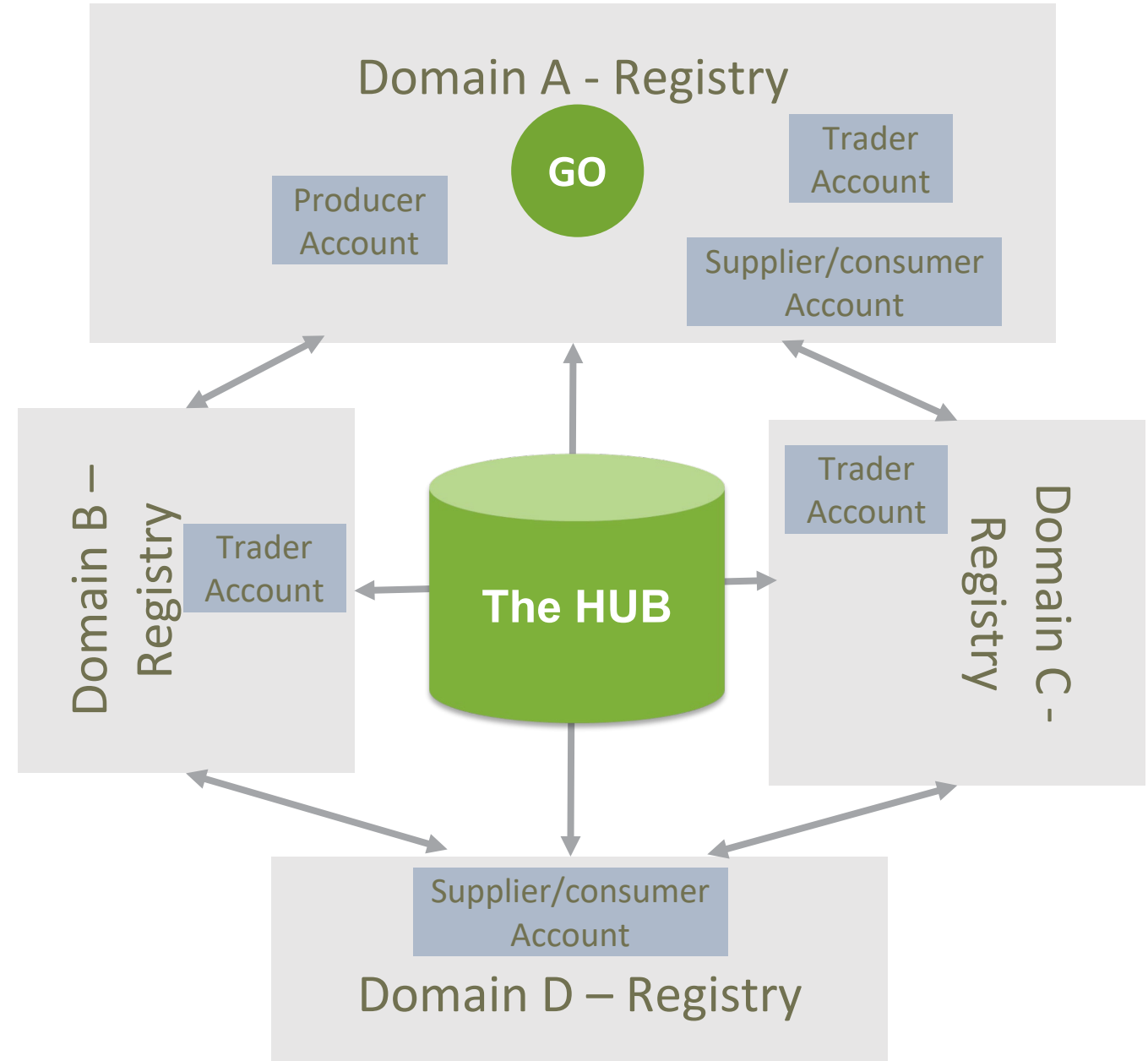
- 2021: 700 million GOs cross border transfer
- 28 Domains

### → How

- Standardised
- Automated
- Jointly operated

### → Why

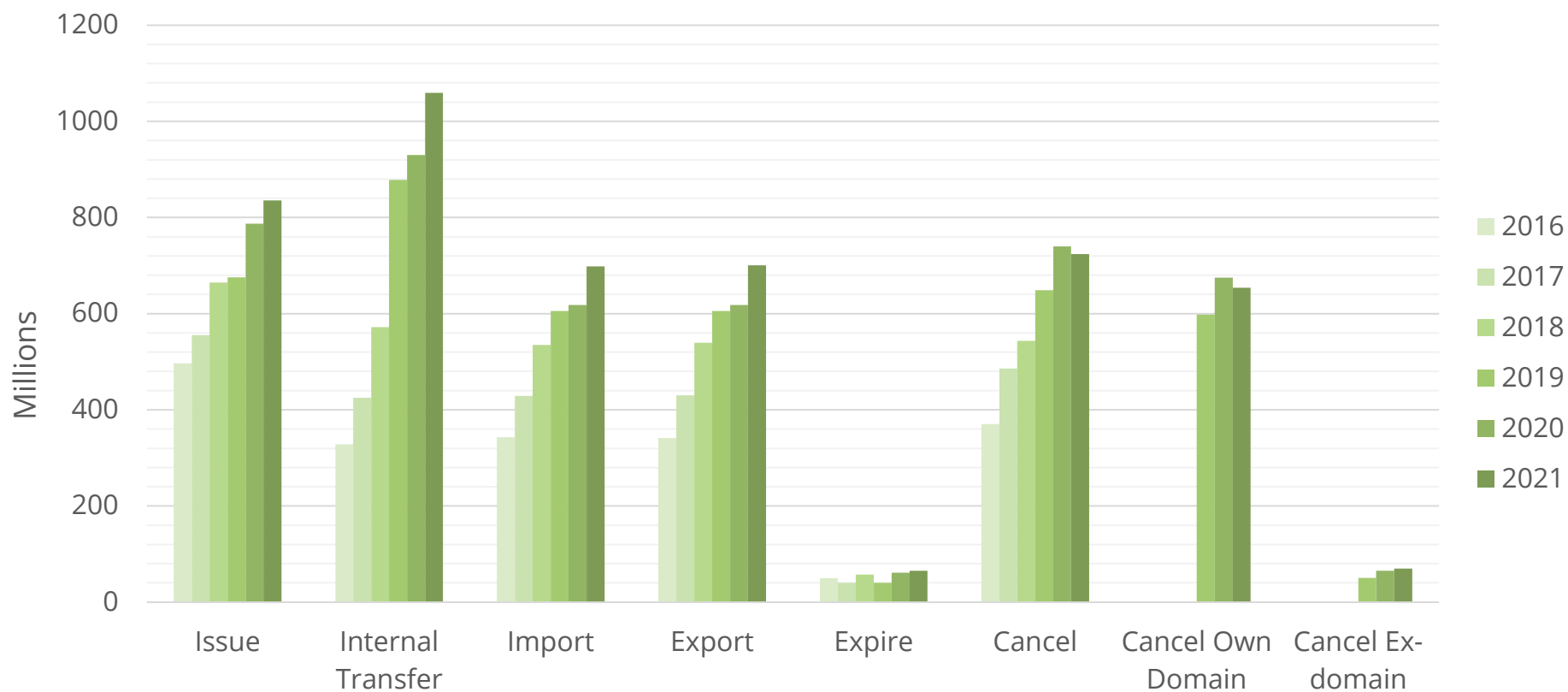
- Efficiency
- Trust
- Fraud prevention



# Size of the market for electricity GOs

## Facts & Statistics

### Annual EECS transactions by transaction date (TWh)



# AIB organised to facilitate multi-energy

## 1. EECS Energy Carrier Conversion Rules

→ Since September 2019

## 2. Separate decision making for Electricity and Gas specifics

→ Since February 2020

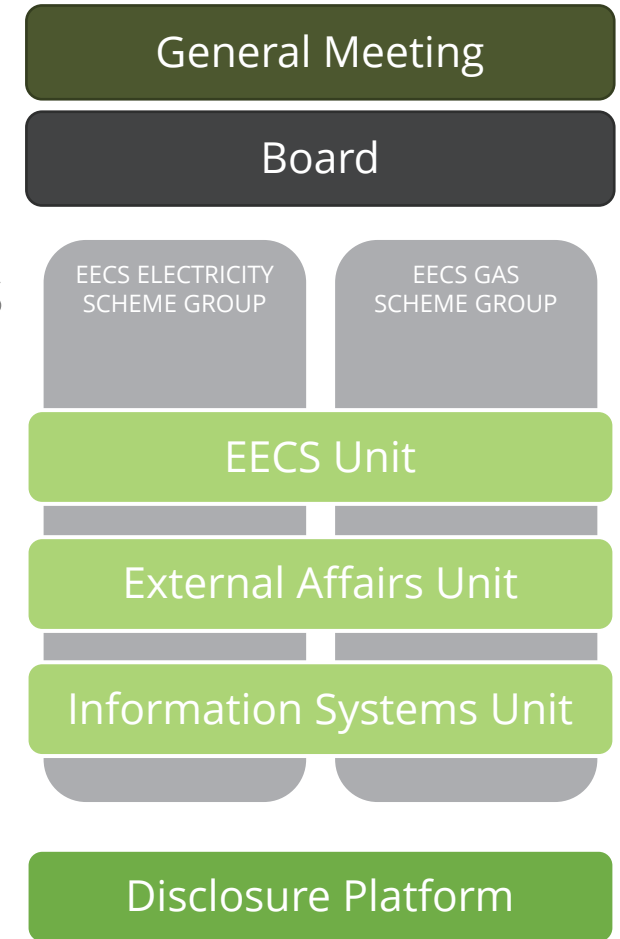
### i. Electricity Scheme Group

- Electricity Scheme = section N of the EECS Rules
- Voting members

### ii. 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)

## 3. AIB Hub facilitates cross-registry transfer of gas certificates in Q3/Q4 2022.



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# **The Guarantee of Origin as an EECS Product**



# What does a Certificate look like under EECS™?

## Generic EECS Certificates

Energy Medium
• Electricity / Energy Gas / Hydrogen
Product
• GO / Support 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 and/or Support
Support received by type
Dissemination level
Face Value
Conversion 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

CO2 Emissions

- %
- Absolute

#### Fossil energy sources

CO2 Emissions

#### Nuclear energy sources

Radioactive Waste

### Additional on Gas certificate

(= Energy Gas / Hydrogen)

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) \*

Pre-Conversion support info \*

PurityOfGas \*

CompositionCriteriaReference \*

Advanced Biofuel Criteria Met? \*

StorageTag \*

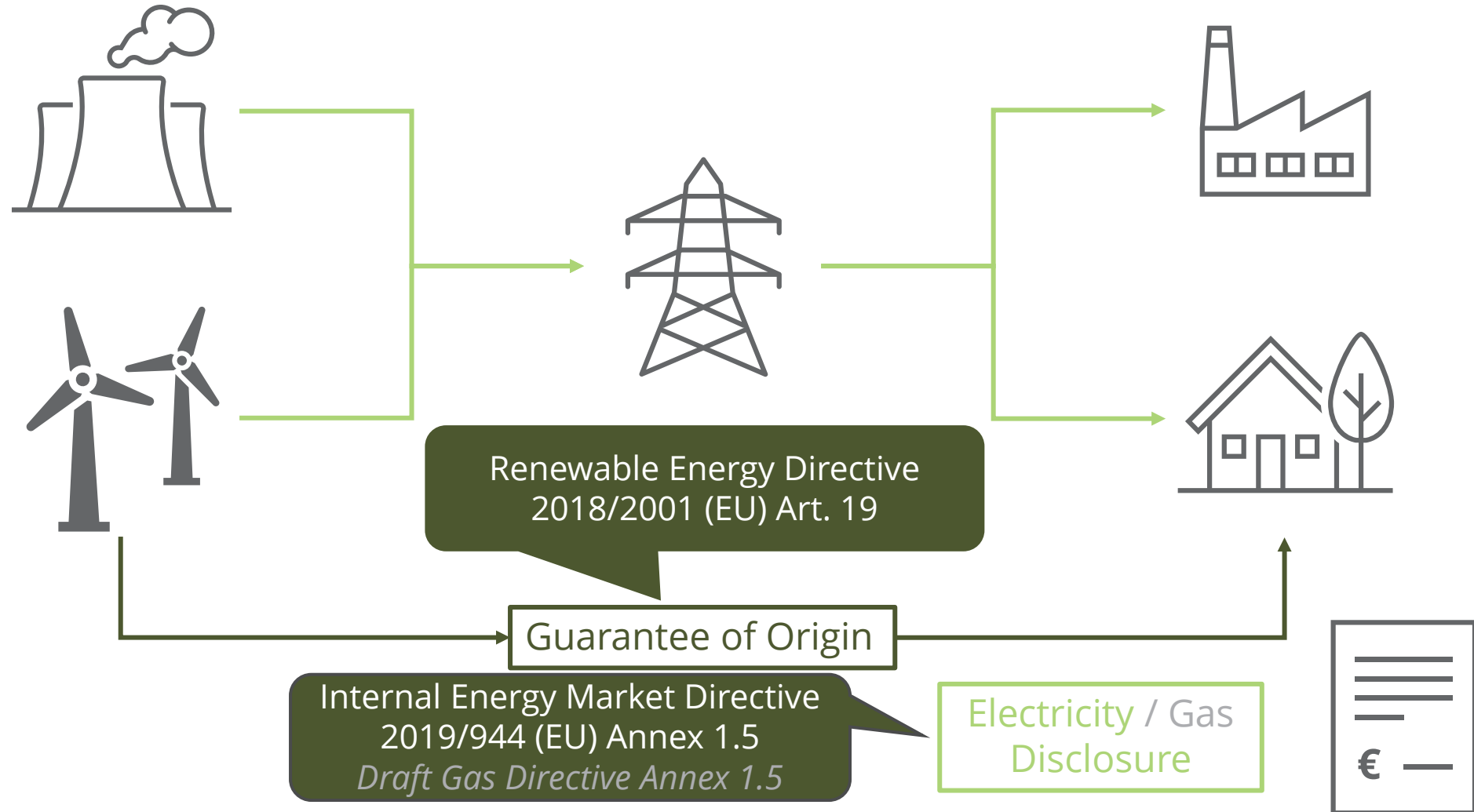
Legend:

Mandatory information field

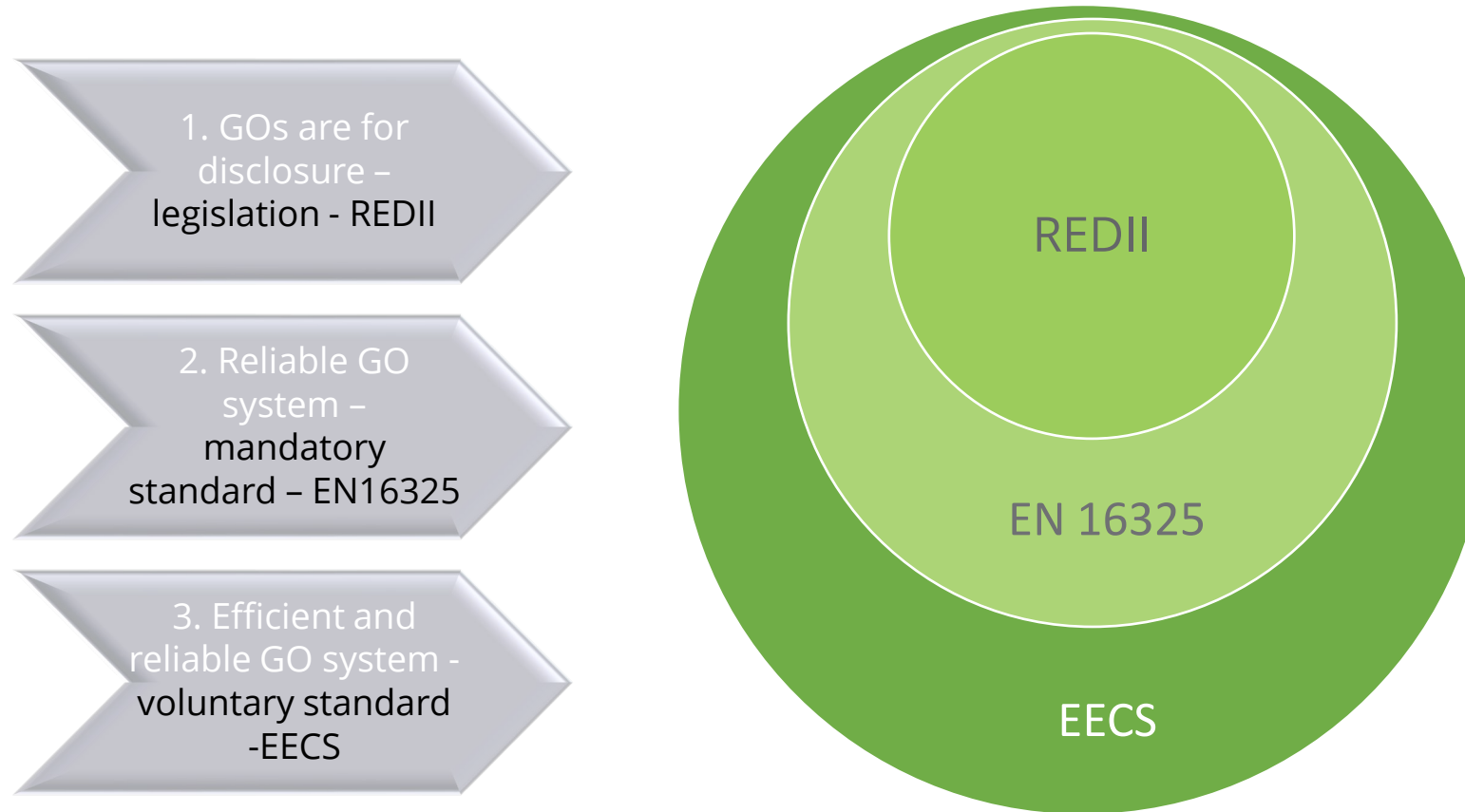
\*Optional information field

# European Legislation

## Guarantees of Origin



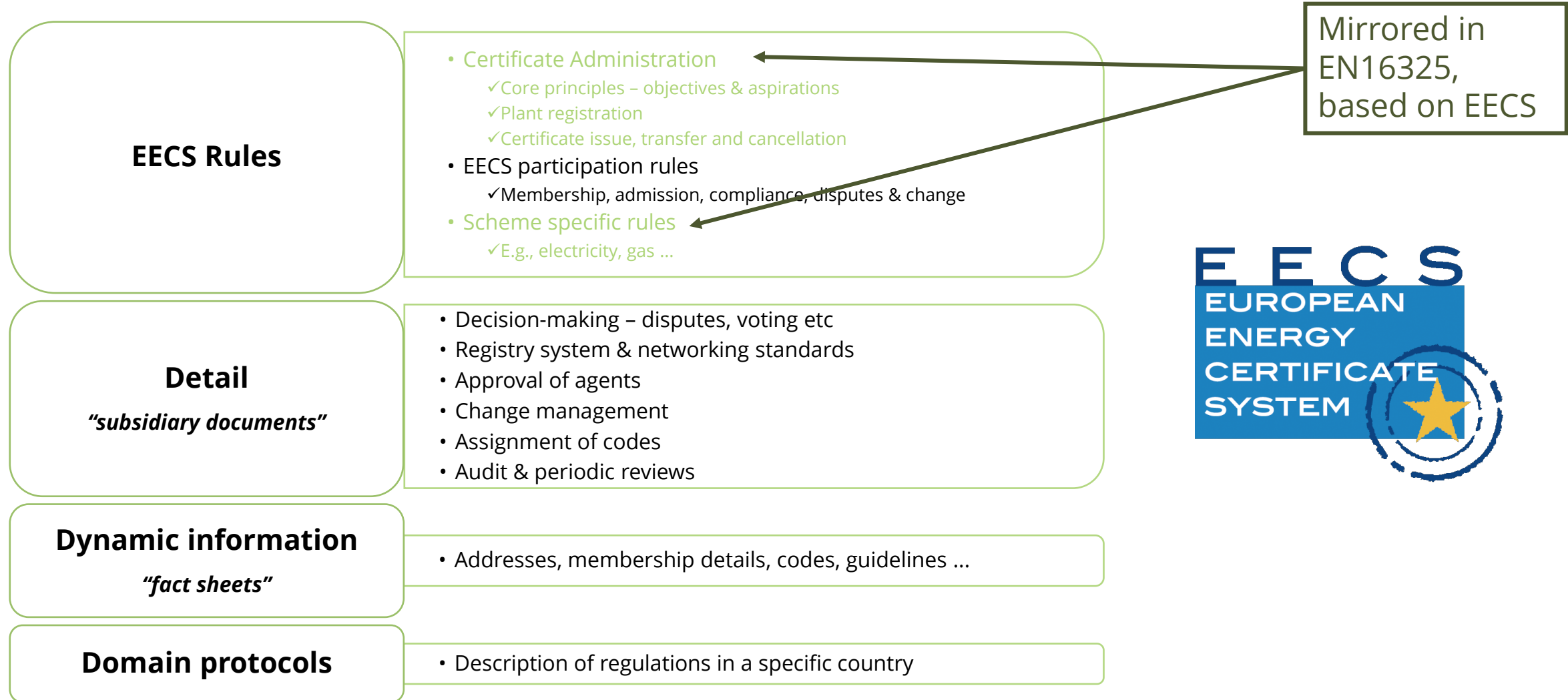
# Framework for cross border harmonisation of guarantees of origin



Note: EECS covers also other products than guarantees of origin

# The European Energy Certificate System (EECS)

## Framework





**03**

# **Challenges for member states**

# Main challenges

- Appointment of Issuing body
- Change of legislation (politics)
- Delay of EN16325
- Interdependent legislation is in constant evolution (Delegated Act on RNFBs, REDIII, EU-ETS, Union Database, ...)
- Inter-relation between certification for multiple purposes (disclosure, target accounting, support) in relation with national responsibilities
- International trade: first mover syndrome
- Competence for Hydrogen (B)



# State of play – gas and H2 GOs

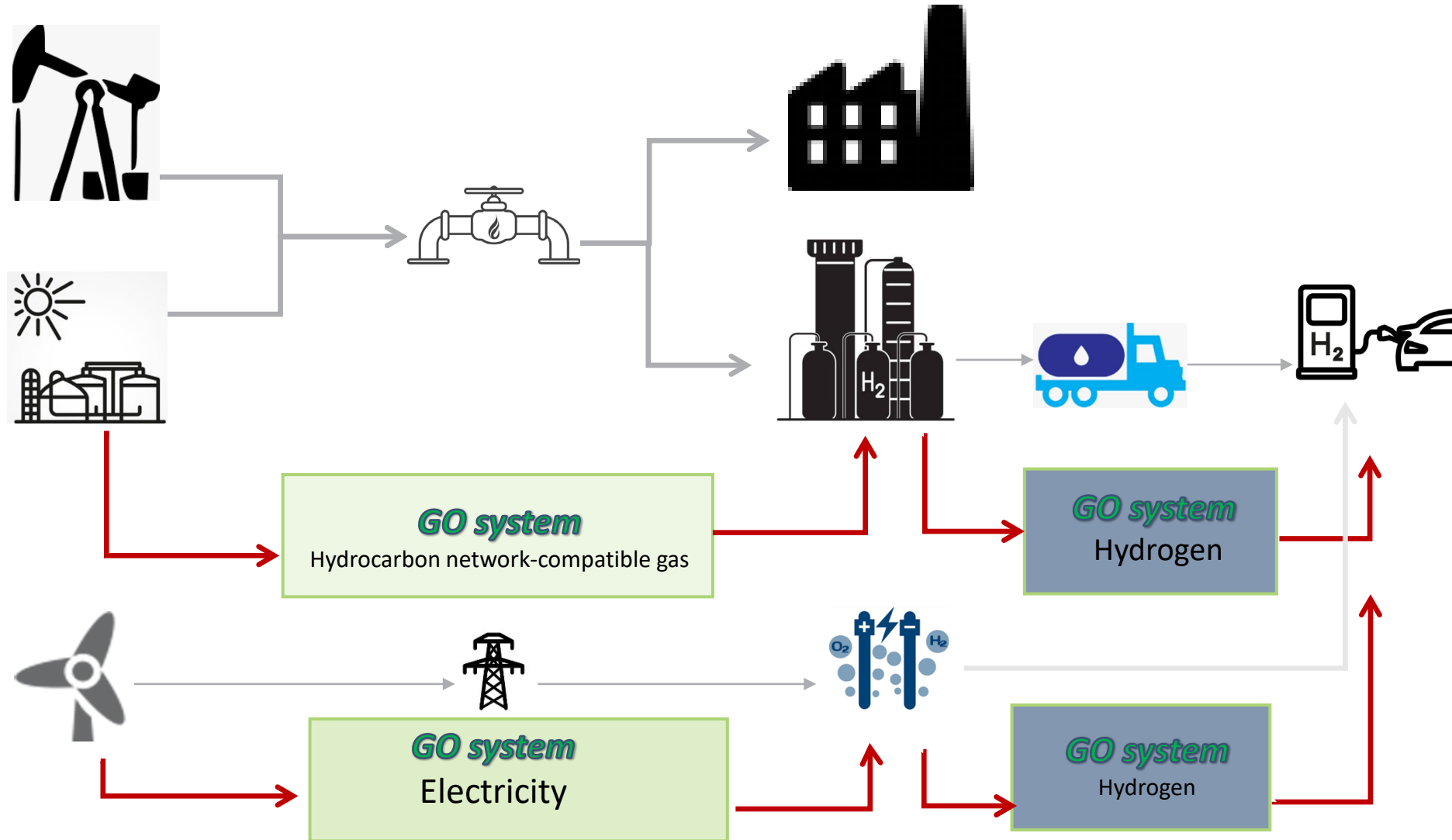
- Laws being amended
  - Latvia, Slovakia, Sweden
- Law amended, issuing body appointed
  - Letland, Italy, Lithuania, Brussels (not H2)
- Registry tendered/under development:
  - Switzerland, Portugal,
- Start issuing (soon)
  - Finland, Austria, Flanders (not H2), Estonia, Netherlands (CertifHY scheme),

**04**

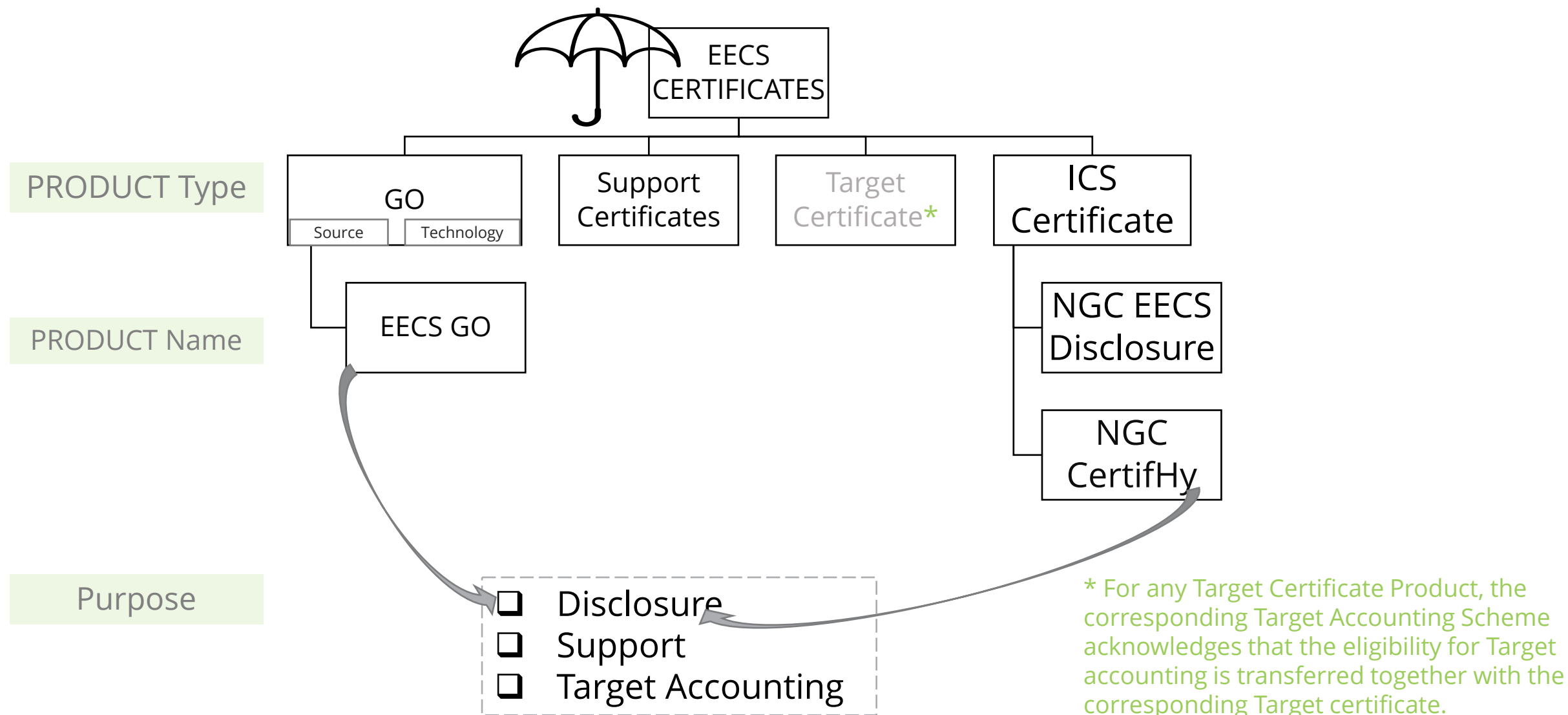
# **AIB and CertifHY**

# Why a generic GO system for all energy carriers?

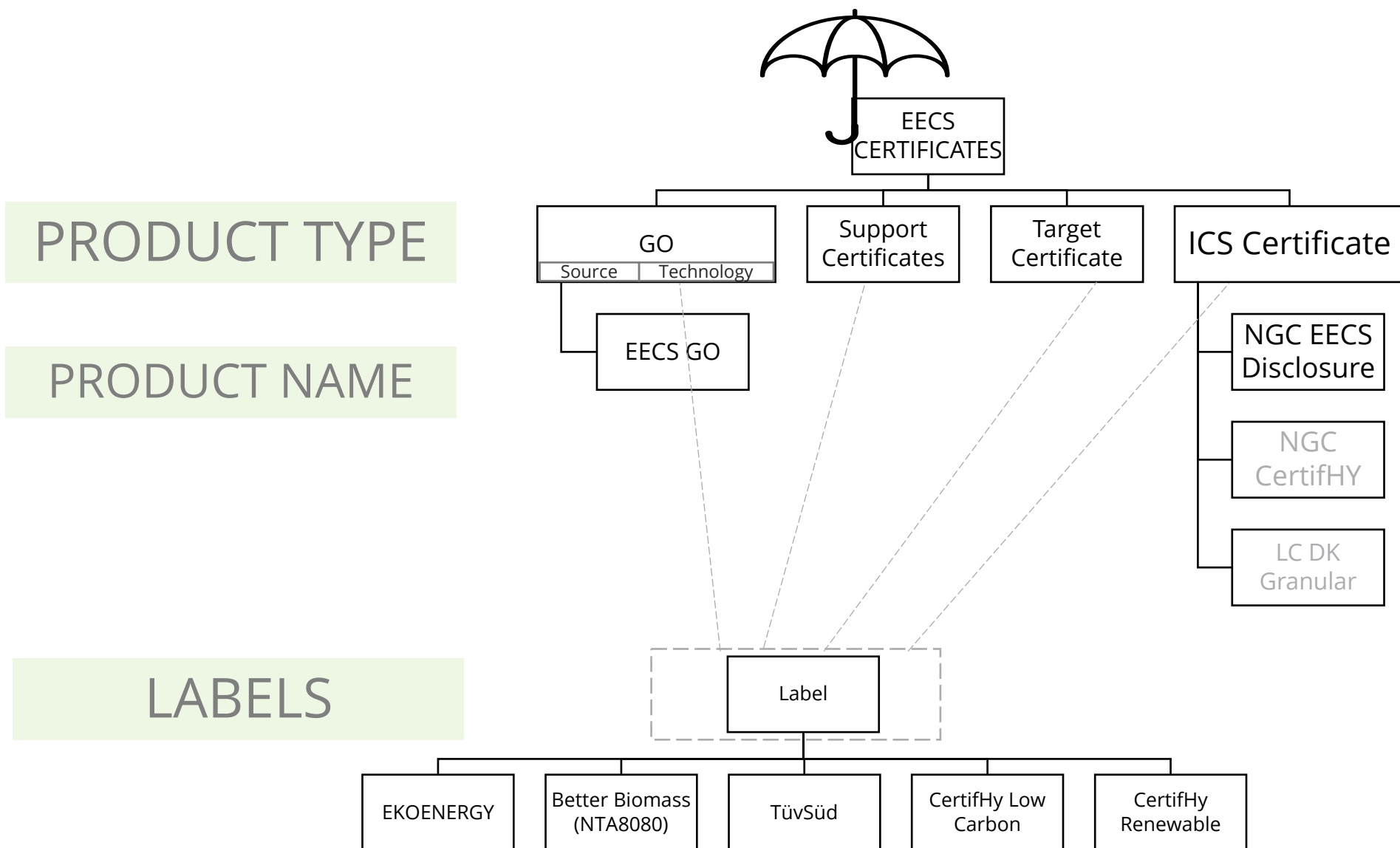
## GO Conversion Issuance



# Certificate Product Types under the EECS standard



# The relation between EECS Certificate types and labels



## Abbreviations

ICS = Independent Criteria Scheme  
NGC = Non-Governmental Certificate  
LC = Legislative Certificate

# Contribution of CertifHY to AIB

- Hinicio as very active contributor in AIB: chair of GSG, member of the board
- GSG development of Gas Scheme
  - Facilitate multiple gaseous energy carriers
  - Optional data fields pending EN16324
- Partner in EN16325 negotiations



# Contribution of AIB to CertifHY

Assist with integrating/aligning CertifHyNGC in/with EECS, mainly:

- Aligning the CertifHyScheme with the EECS Rules (optional purity field on GO, labels).
- Working on the recognition of CertifHy as an NGC in EECS, as well as an ICS, targeted 2022-2023.
- Construction of Domain Protocol of an Issuing Body under the CertifHy Scheme and EECS.

# Conclusion

## Guarantees of Origin



# Let's together continue to strengthen energy tracking!



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