# The Origin of Guarantees of Origin

The role of the AIB in the European GO market

Ivar Munch Clausen



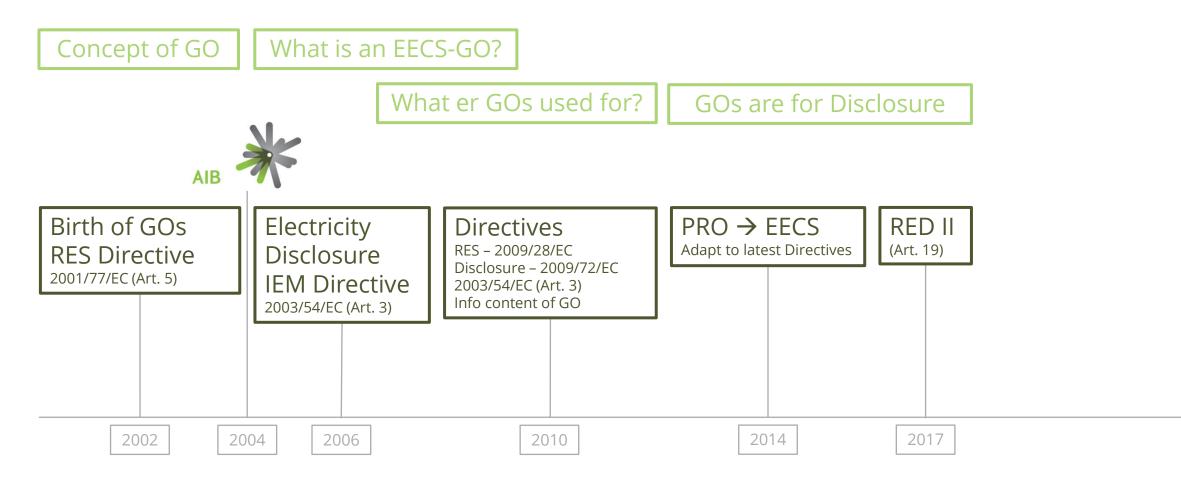


# **Short history**

## Timeline

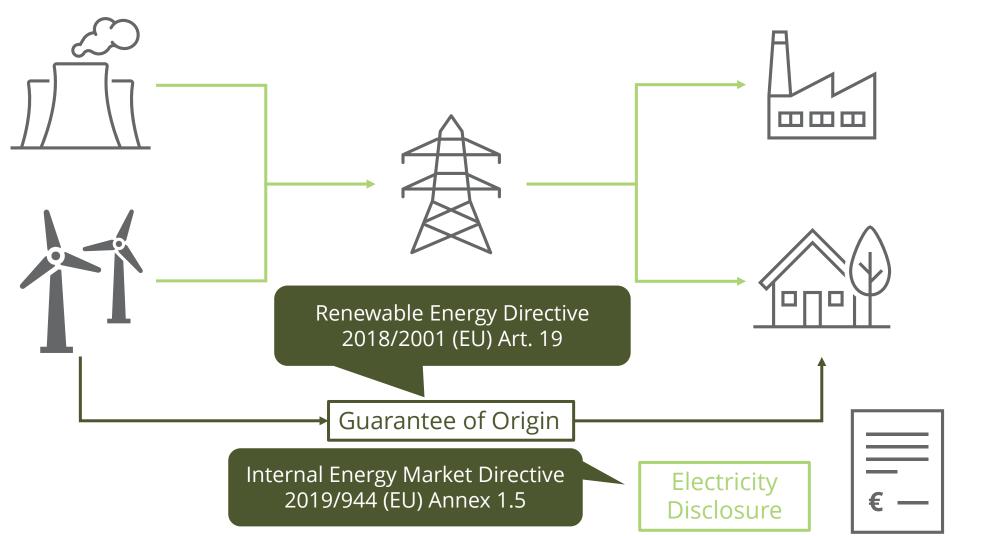


## **Guarantees of Origin**



## **European Legislation**

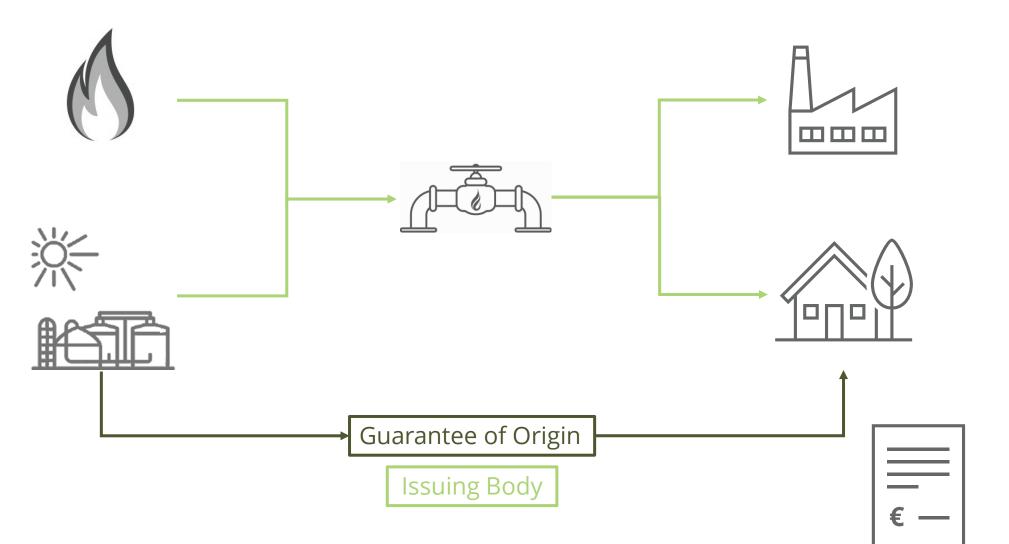
## **Guarantees of Origin**





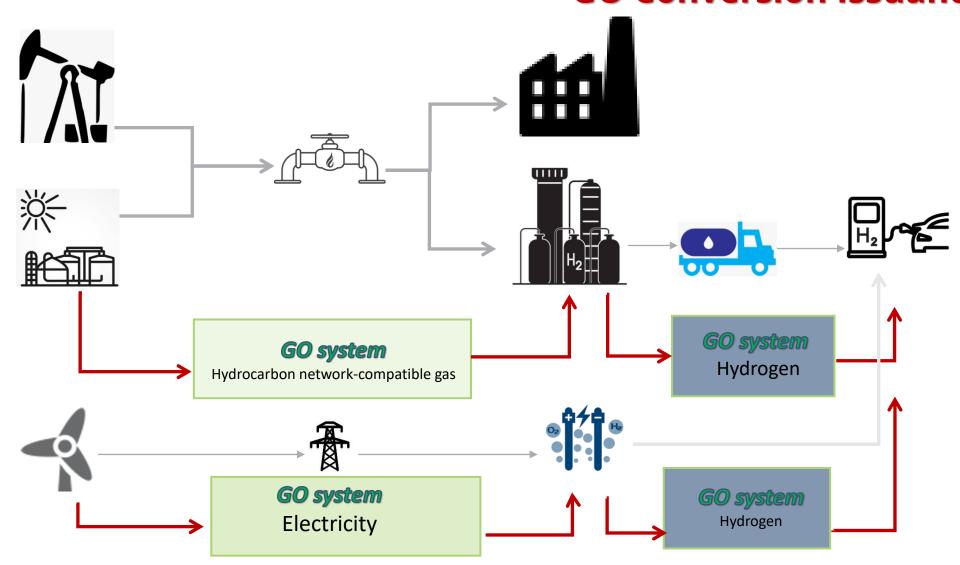
## The principle for gas

## **Guarantees of Origin**





## Why a generic GO system for all energy carriers? GO Conversion Issuance



## Components to be managed in a reliable GO system



### **Guarantees of Origin**

#### Account Holder Registration

Prevent access of fraudulent actors
Ensure rule-compliance contractually



#### **Production Device Registration**

Verify plant dataEnsure data maintenance and re-verification

#### **GO** Issuing

Base isuing on verified meter readings
Verify shares of energy origin in multi-fuel pants



#### **GO Transfer**

• Secure and electronic transfer independently from the pshyical energy or energy trading • Non-mutability and uniqueness of certificate data

#### **GO** Cancellation

·GO as the sole instrument to disclose renewable energy to consumers

#### Disclosure

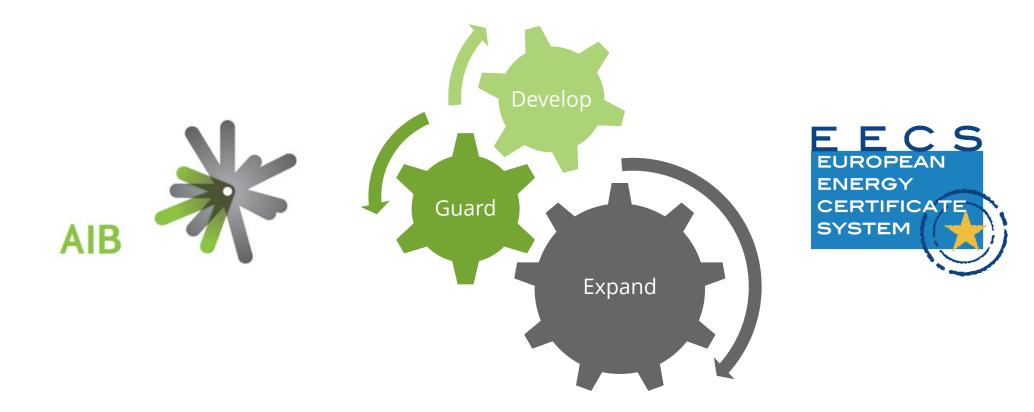
Disclosure of the energy origin sold/consumed

•Where applicable, calculation of the residual mix and obligation to use it for untracked energy





### **Guarantees of Origin**

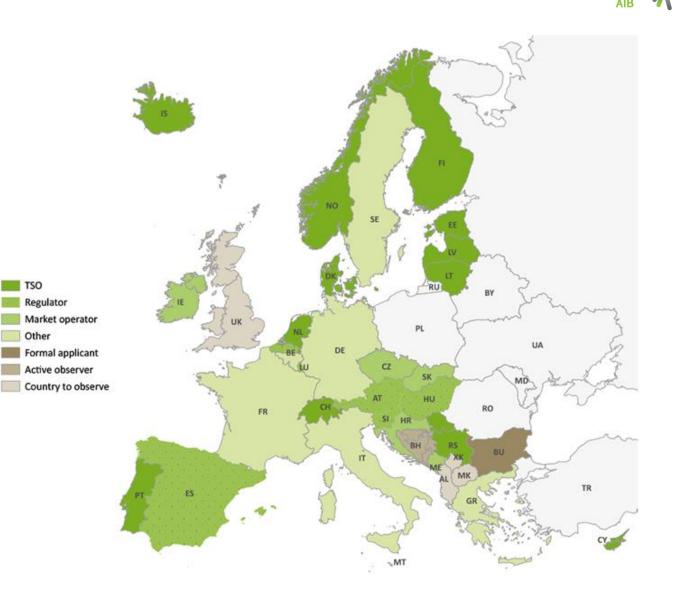


# **O2** Association of Issuing bodies

## **The AIB**

## AIB Facts & Statistics

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

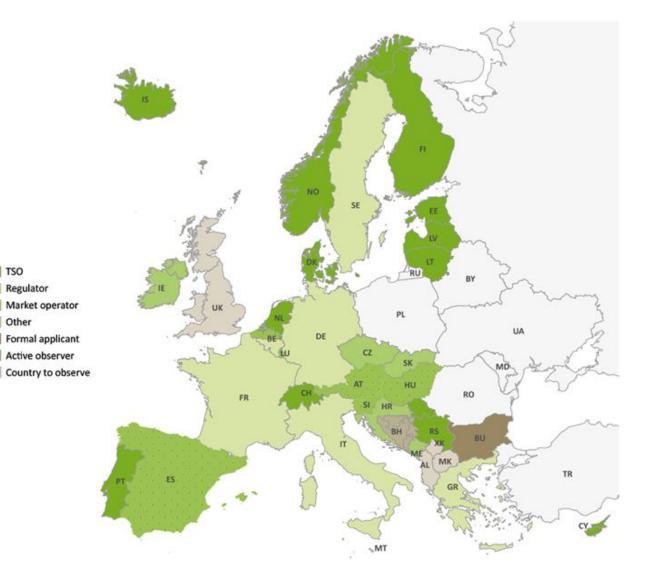


## AIB copyright © 2021. We reserve the rights in this document and in the information contained therein. Reproduction, use or disclosure to third parties without express authority is strictly forbidden. The Association of Issuing Bodies ivzw (AIB) is an international non-profit association.

## **AIB and its Member Countries / Regions**

## **AIB Facts & Statistics**

- → 27 countries connected (31 members)
- → Geographical scope: EU EFTA Energy Community
- → All AIB's current members are issuing bodies for GOs
- → Very diverse: regulator, market operator, TSO, ministry, power exchange etc.
- → About half AIB's members are also competent bodies for the supervision of electricity disclosure
- → Already 7 AIB members assigned by their government for issuing gas GO – more to follow

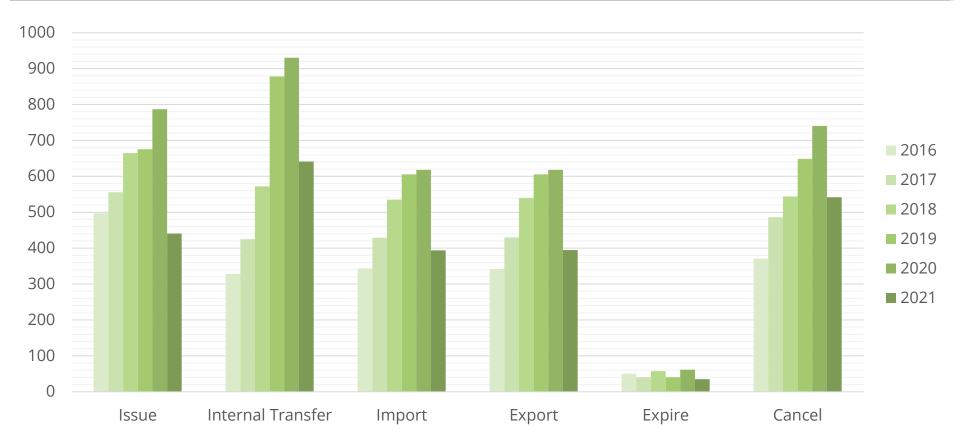




## Size of the market for electricity GOs

### AIB Facts & Statistics

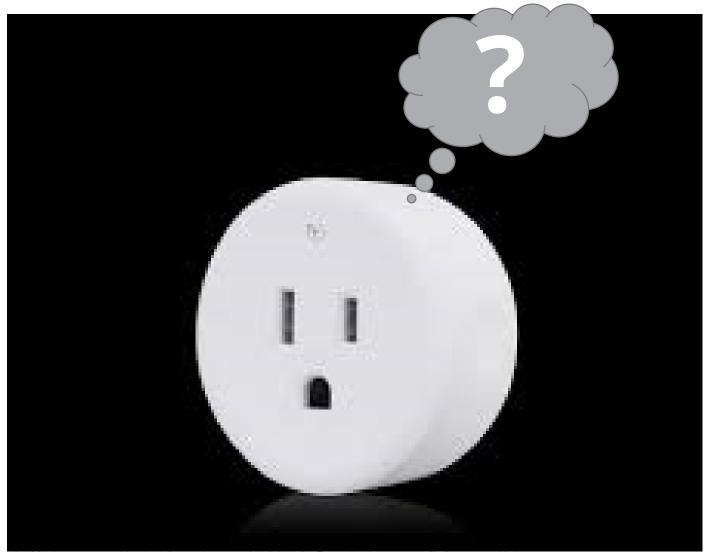
## Annual EECS transactions by transaction date (TWh)



# Fine, but why?

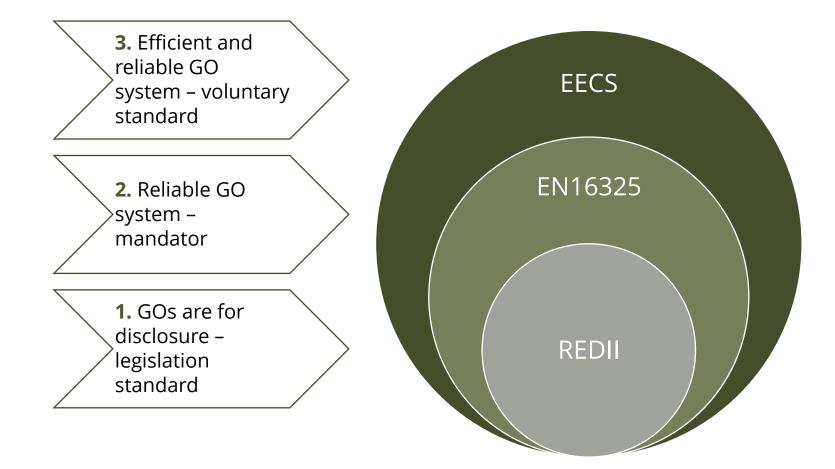






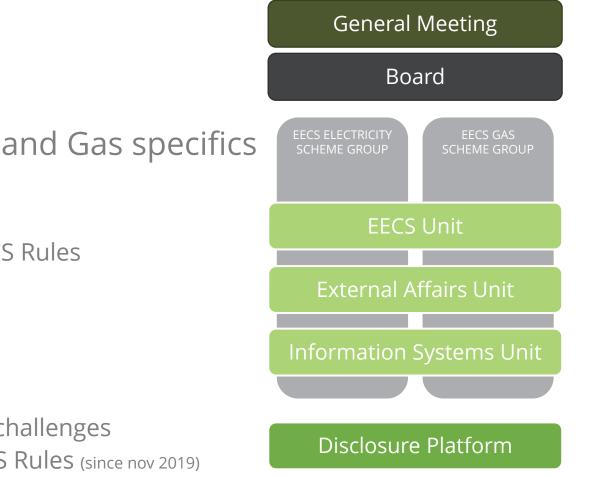
## **Guarantees of origin**

### Framework



## AIB organised to facilitate multi-energy





## 1. EECS Energy Carrier Conversion Rules

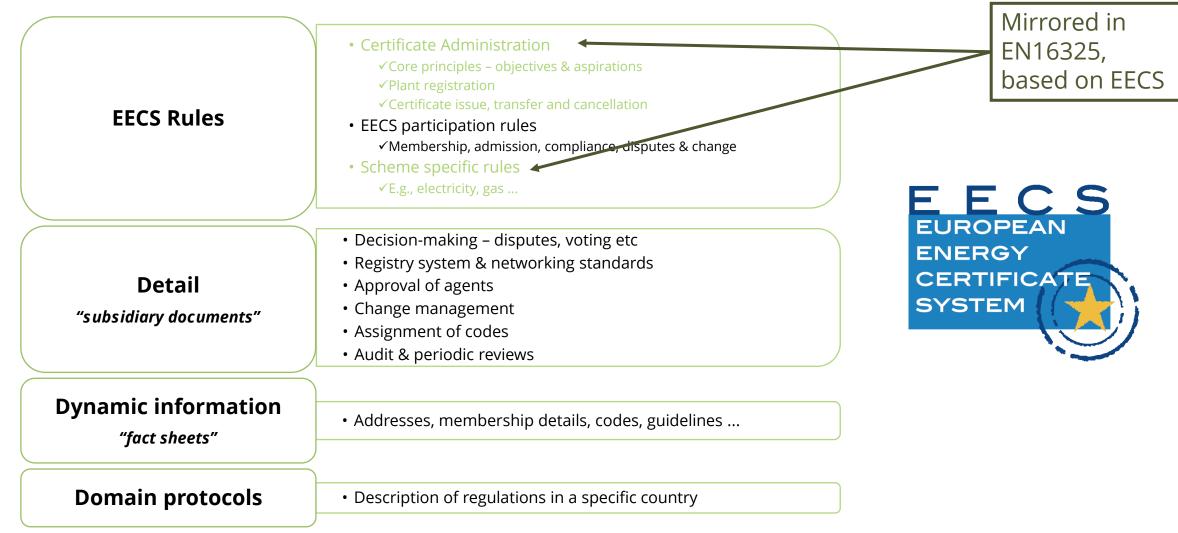
- → Since September 2019
- 2. Separate decision making for Electricity and Gas specifics
  - → Since February 2020
    - i. Electricity Scheme Group
      - Electricity Scheme = section N of the EECS Rules
      - Voting members
    - ii. Gas Scheme Group
      - Existing members
      - Observer Scheme 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.

## The European Energy Certificate System (EECS)



#### Framework



## The AIB HUB

## Framework

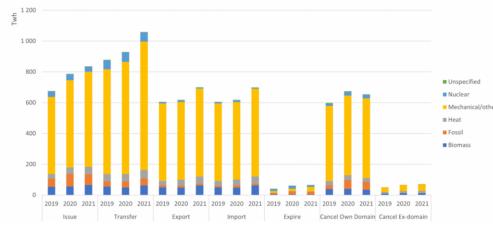
#### ightarrow International transfers of electronic documents

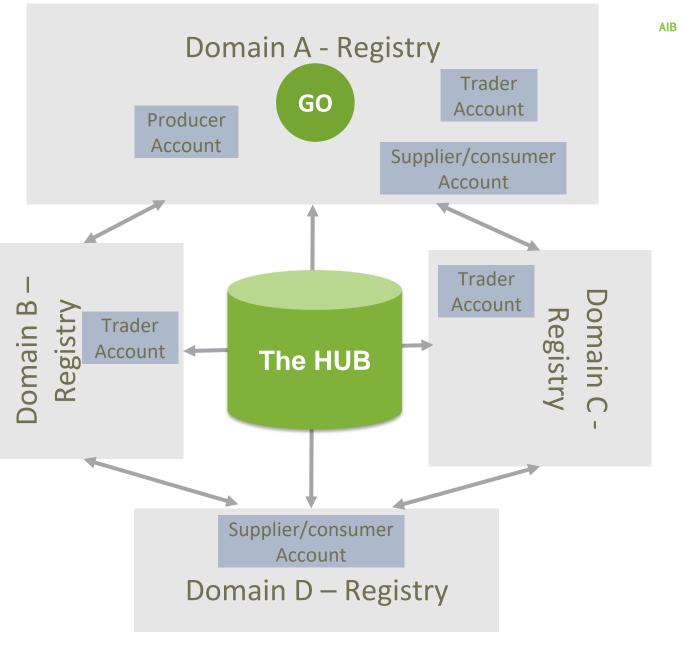
- 2021: 700 million GOs cross border transfer
- 27 Domains

 $\rightarrow$  How

- Standardised
- Automated
- Jointly operated

GO transactions on annual basis, per energy source, structured by GO transaction period





# Thank you



www.aib-net.org



+32 (0)486 55 83 01



info@aib-net.org