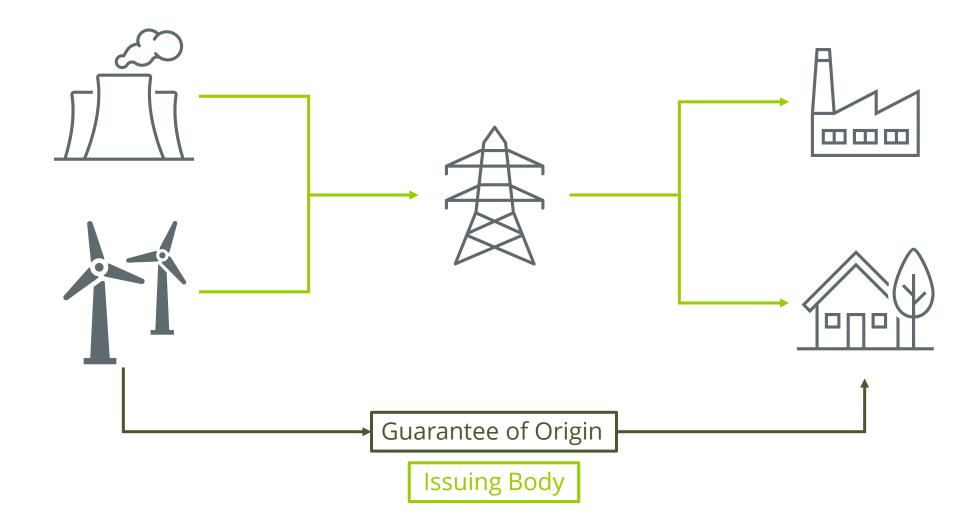


# How to join AB

# **Guarantees of Origin**

# The principle for electricity

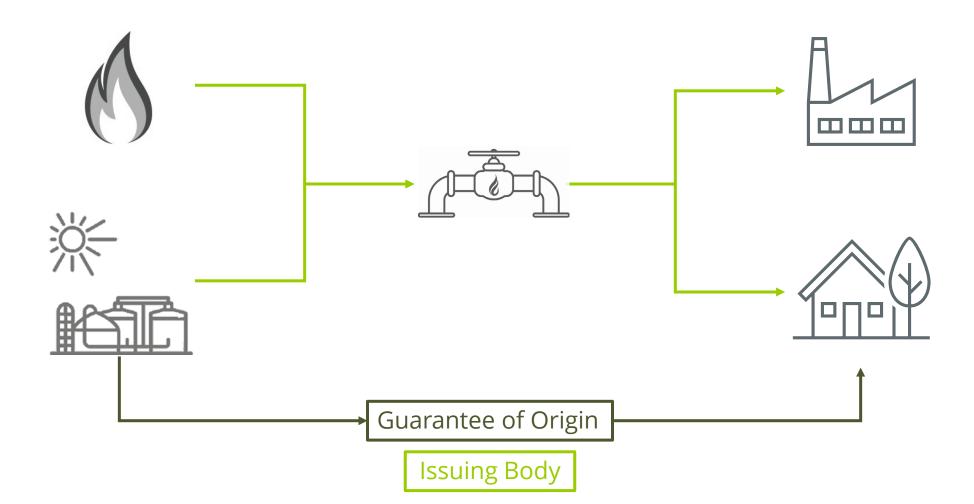
# **Guarantees of Origin**



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# The principle for gas

**Guarantees of Origin** 



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# Components to be managed in a reliable GO system

# Guarantees of Origin

#### Account Holder Registration

Prevent access of fraudulent actorsEnsure 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

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





# **Transparency enhances empowered consumer choices**

**High-Efficiency Cogeneration** 



### Data on generic EECS Certificates

**Energy Carrier** 

# Additional on Electricity certificate

## Additional on Gas certificate

• 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 *

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

Legend: Mand

Mandatory information field

\*Optional information field

Type of Gas						
• See Fact Sheet						
Whether Higher or Lower Calorific Value						
GHG Emissions Saved & Produced *						
•+ Methodology reference						
Sustainability Criteria met?*						
<ul> <li>Y/N; requirements, scheme, name Certification Body, reference to report</li> </ul>						
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? *						

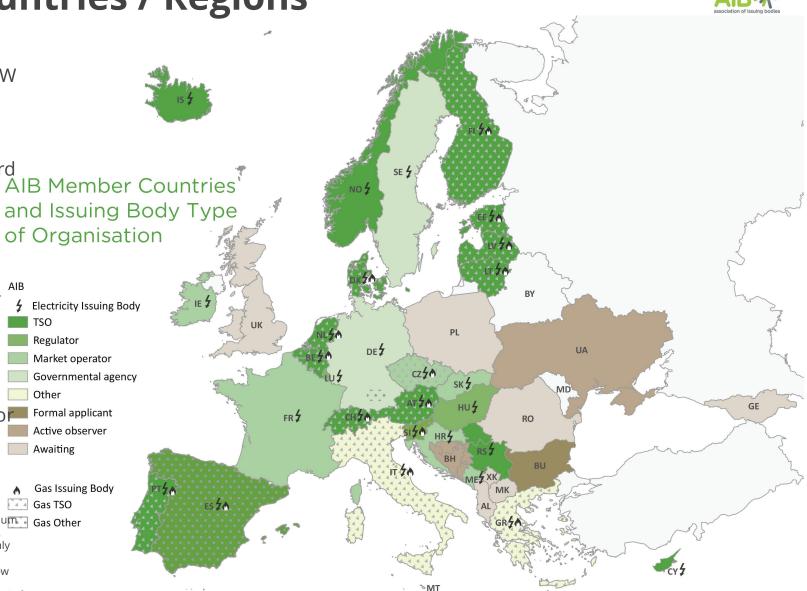
# **AIB: facts & Statistics**

03

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

# Facts & Statistics

- → AIB International non-profit association IVZW (°2002)
- → Headquarters in Brussels
- → Developer and custodian of the EECS<sup>™</sup> standard
- → 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 form 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 Gas Other Wallonia (SPW), Czech Republic (OTE), Croatia (HROTE), Denmark (Energinet), Estonia (Elering), Finland (Gasgrid Finland), France (EEX), Greece (Dapeep), Italy (GSE), Latvia (Conexus Baltic Grid), Lithuania (Amber Grid), Portugal (REN), Slovenia (AGEN-RS), Spain (Enagas GTS), Switzerland (Pronovo), more to follow



# Size of the market for electricity GOs



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

## Annual EECS transactions by transaction date (TWh)

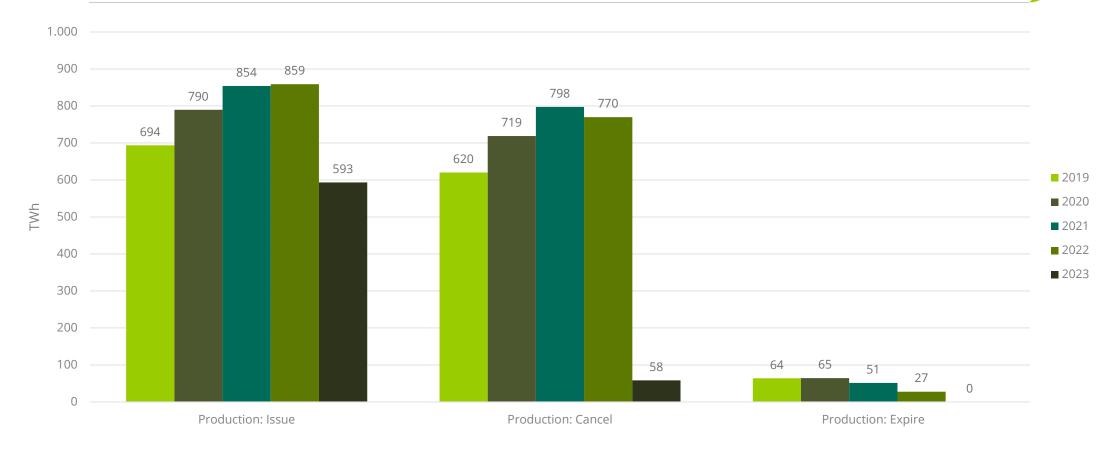


# Size of the market for electricity GOs



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

# Annual EECS transactions by production date (TWh)



# International transfers of electronic documents



# The AIB hub

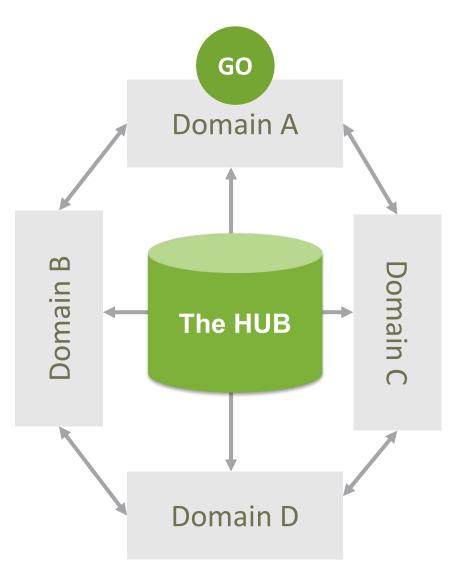
- → International transfers of electronic documents
  - Statistics are available on the <u>AIB website</u>
  - 28 Domains

# $\rightarrow$ How

- Standardised
- Automated
- Jointly operated

# $\rightarrow$ Why

- Efficiency
- Trust
- Fraud prevention



# Why have standards?







Try plugging that in !

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# Setting up AIB infrastructure in your country

# Joining Process

**Issuing Body** 

legislation.

•Appoint an Issuing Body.

Issuing Body, start finding

•If you are already appointed as

insurance and check disclosure

#### Agents

•If required, appoint **agents** to support the activities of the Issuing Body

#### Software

Select, implement and configure registry **software**Develop software or use commercially available software

### Application

•Fill in the **Application Form** and the **Use of HUB Questionnaire** and send it to the Secretary General

#### **Domain Protocol**

•Draft a **Domain Protocol**, describing how the market will operate in your country

#### Test

•**Test** the interconnection of your registry with the AIB Hub

#### Approval

Gain the approval of the AIB
Board
Gain the approval of the relevant
<u>AIB Scheme Group</u>

#### Start

•**Start** registering plants, and issuing and transferring certificates

# **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												
Approval of AIB board												
Approval of AIB Scheme Group												
AIB Support						O	0					

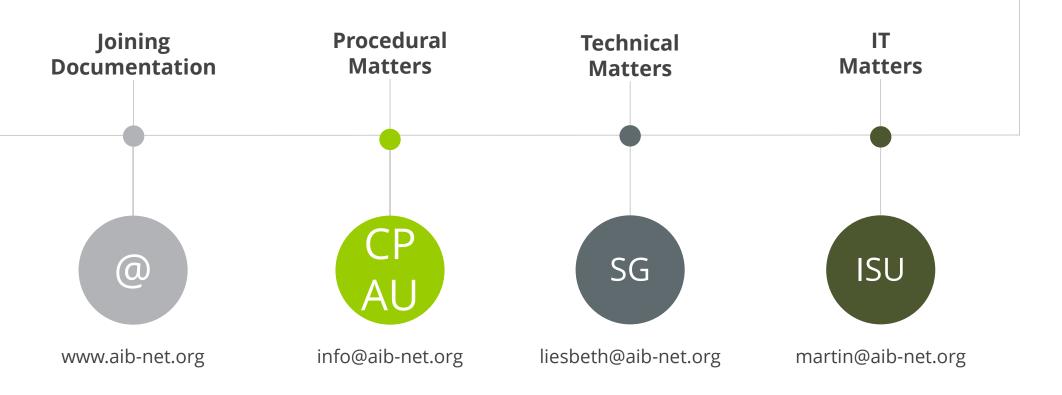
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# **Your Contacts**



## Joining Process



# 04 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







# **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	€7000
Small	< 4 TWh	€7000
Medium	≥ 4 TWh and < 10 TWh	€ 45 000
Large	≥ 10 TWh and < 100 TWh	€ 80 000
Extra Large	≥ 100 TWh	€ 95 000

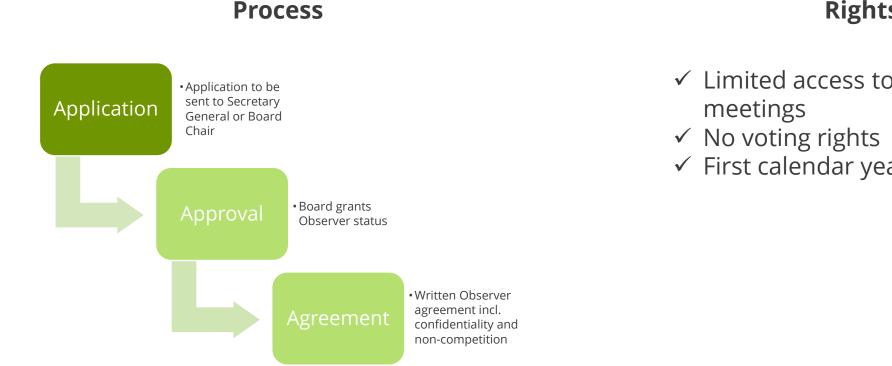


# 05 Observer

# **Observer Status**

## Observer

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



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# **Rights**

- ✓ Limited access to website and
- ✓ First calendar year for free









# 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 move forward together!

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