Join the AIB

November 2023
Guarantees of Origin
The principle for electricity

Guarantees of Origin
The principle for gas

Guarantees of Origin
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 data
- Ensure data maintenance and re-verification

GO Issuing
- Base issuing on verified meter readings
- Verify shares of energy origin in multi-fuel plants

GO Transfer
- Secure and electronic transfer independently from the physical 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

Competent Body
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
AIB: facts & Statistics
AIB and its Member Countries / Regions

Facts & Statistics

- Headquarters in Brussels
- Developer and custodian of the EECS™ 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 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), Czech Republic (OTIE), 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 AIB website
  • 28 Domains

➔ How
  • Standardised
  • Automated
  • Jointly operated

➔ Why
  • Efficiency
  • Trust
  • Fraud prevention
Why have standards?

Try plugging that in!
Joining Process
Setting up AIB infrastructure in your country

Joining Process

**Issuing Body**
- Appoint an Issuing Body.
- If you are already appointed as Issuing Body, start finding insurance and check disclosure legislation.

**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 AIB Scheme Group

**Start**
- Start registering plants, and issuing and transferring certificates
## Orientated time schedule

### Joining Process

<table>
<thead>
<tr>
<th>Activity</th>
<th>Month 1</th>
<th>Month 2</th>
<th>Month 3</th>
<th>Month 4</th>
<th>Month 5</th>
<th>Month 6</th>
<th>Month 7</th>
<th>Month 8</th>
<th>Month 9</th>
<th>Month 10</th>
<th>Month 11</th>
<th>Month 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get in contact with AIB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appoint agents</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select, implement and configure registry software</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apply for AIB membership</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Draft domain protocol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Review domain protocol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test interconnection</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Your Registry ↔ AIB Hub</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approval of AIB board</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approval of AIB Scheme Group</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIB Support</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

AIB copyright © 2023. 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.
Your Contacts

Joining Process

Joining Documentation

Procedural Matters

Technical Matters

IT Matters

@ www.aib-net.org

CP AU info@aib-net.org

SG liesbeth@aib-net.org

ISU martin@aib-net.org
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

- Being part of the process
- Tailor made advice and expertise
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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observer</td>
<td>N/A</td>
</tr>
<tr>
<td>Small</td>
<td>&lt; 4 TWh</td>
</tr>
<tr>
<td>Medium</td>
<td>≥ 4 TWh and &lt; 8 TWh</td>
</tr>
<tr>
<td>Large</td>
<td>≥ 8 TWh</td>
</tr>
</tbody>
</table>
Observer
Observer Status

Observer

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

Process

Application
- Application to be sent to Secretary General or Board Chair

Approval
- Board grants Observer status

Agreement
- Written Observer agreement incl. confidentiality and non-competition

Rights

- Limited access to website and meetings
- No voting rights
- 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!

www.aib-net.org

+32 (0)486 55 83 01

info@aib-net.org