

What is needed for the common European renewable gases market ?

Efficient and reliable GO trade and sector coupling

Entsog Prime Movers meeting gas GO – May 7nd 2019

Katrien Verwimp



Why have standards?

... try plugging that in!



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Who is AIB ?

And

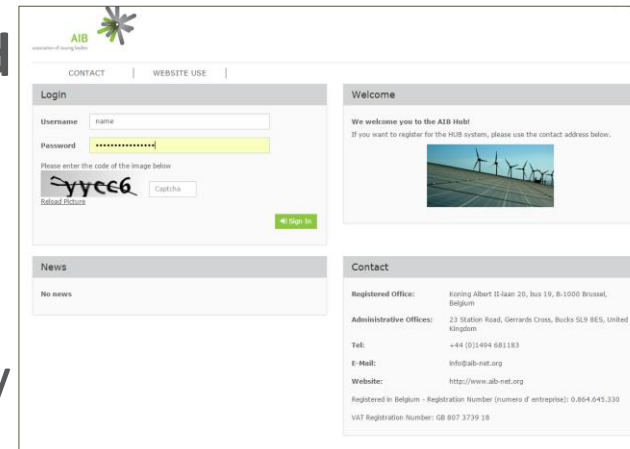
What is AIB doing in line with these recommendations ?

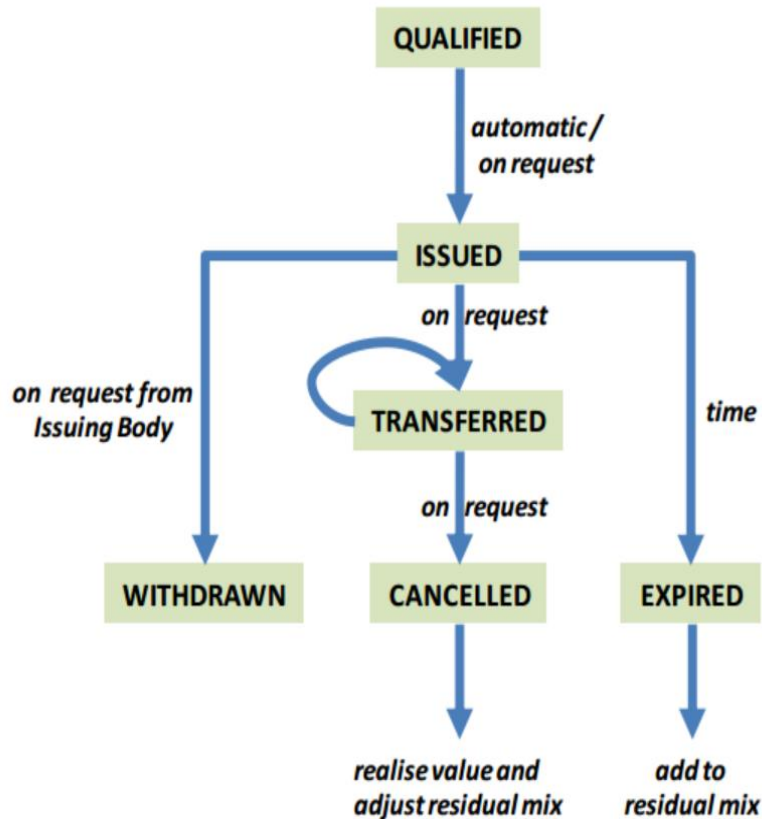
- **Not-for-profit Brussels-based association - AISBL**
- **21 countries connected (24 members)**
- **Stakeholders: consumers, markets, governments, EU Commission**
- **Developer and custodian of the EECS™ standard**
- **All of the AIB's members are governmentally assigned competent bodies for GOs**
- **About half AIB's members are also competent bodies for disclosure**
- **30% annual RES production in EU, EEA, Energy Community + Switzerland**
- **... and the vast majority of GO-guaranteed renewable electricity production**

Association of Issuing Bodies (AIB)



- **Initiator and Governor of EECS**
European Standard for Guarantees of Origin
- **Maintains the AIB HUB (and GO transfer protocol), providing secure and standardised inter-registry GO transfer**
- **Why? So consumers can...**
 - **Choose** the origin of their electricity freely
 - Take **responsibility** for their impact on the environment and are able to influence it
 - **Trust** that electricity tracking works and does not lead to double-counting

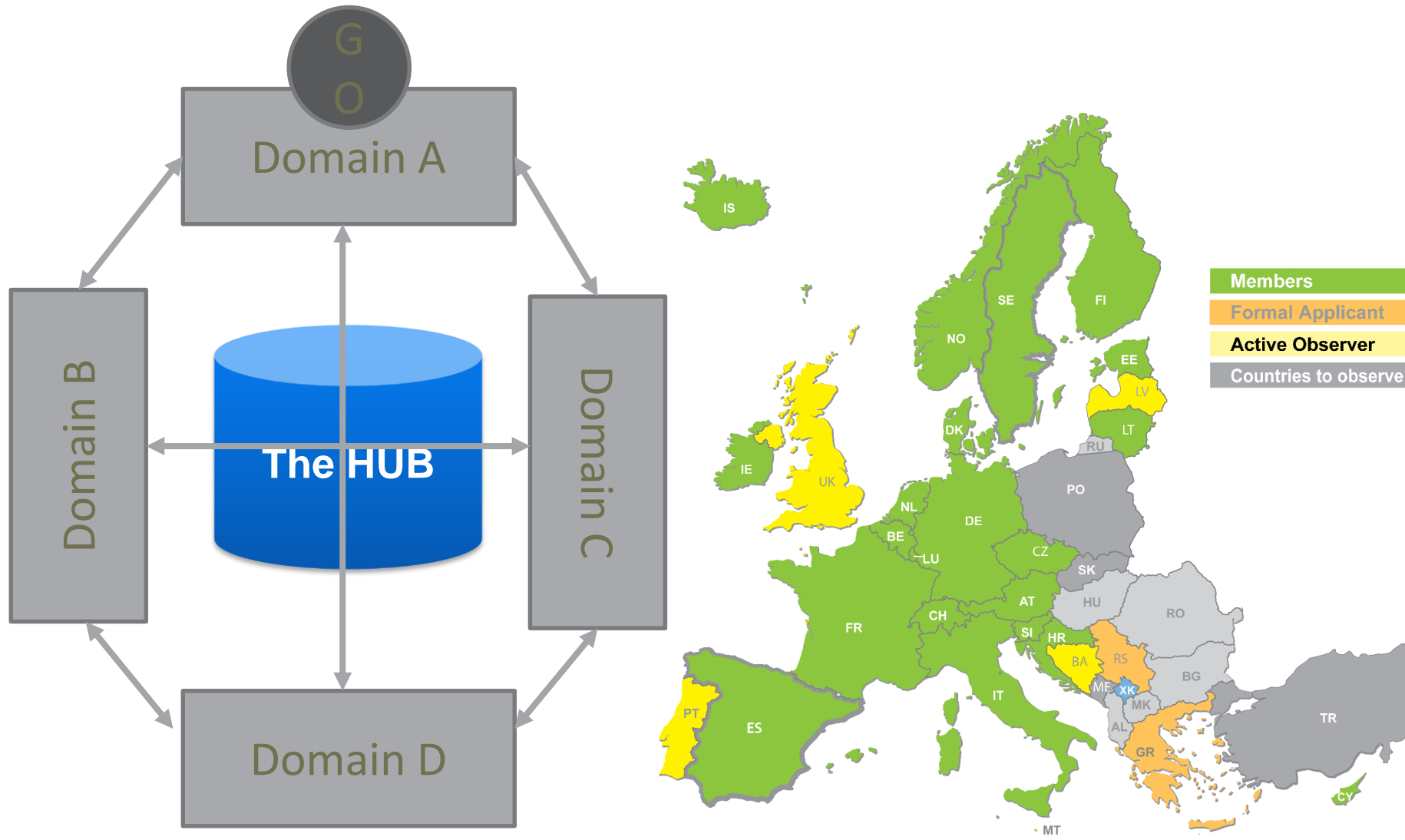




- Uniqueness
- Immutability
- Plant registration
- Information content
- Issue, transfer, cancel
- Error handling
- Measurement criteria
- National subsidiarity
- Legal Framework
- Reviews and audits
- ...

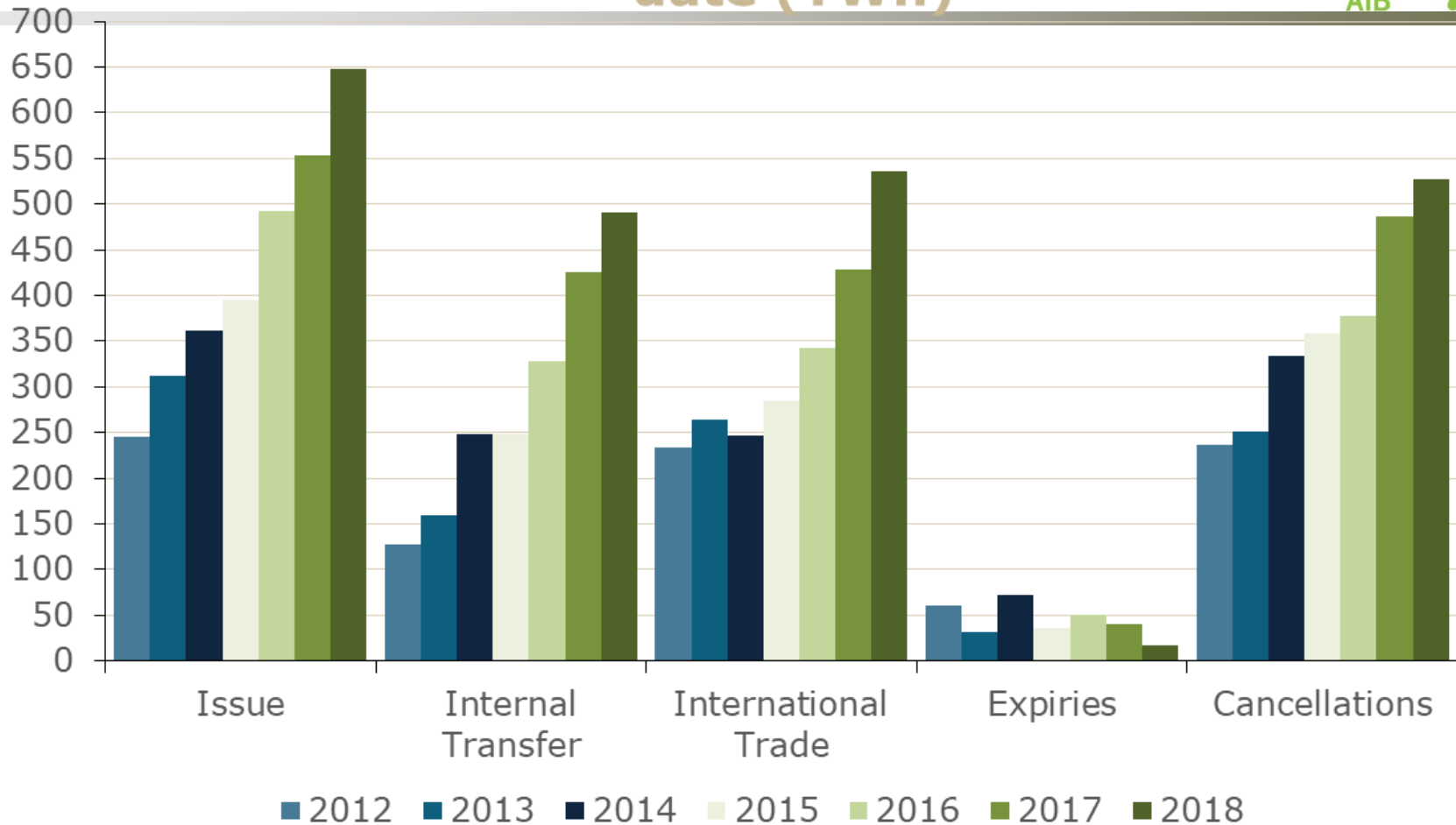


GO tranfer under EECS

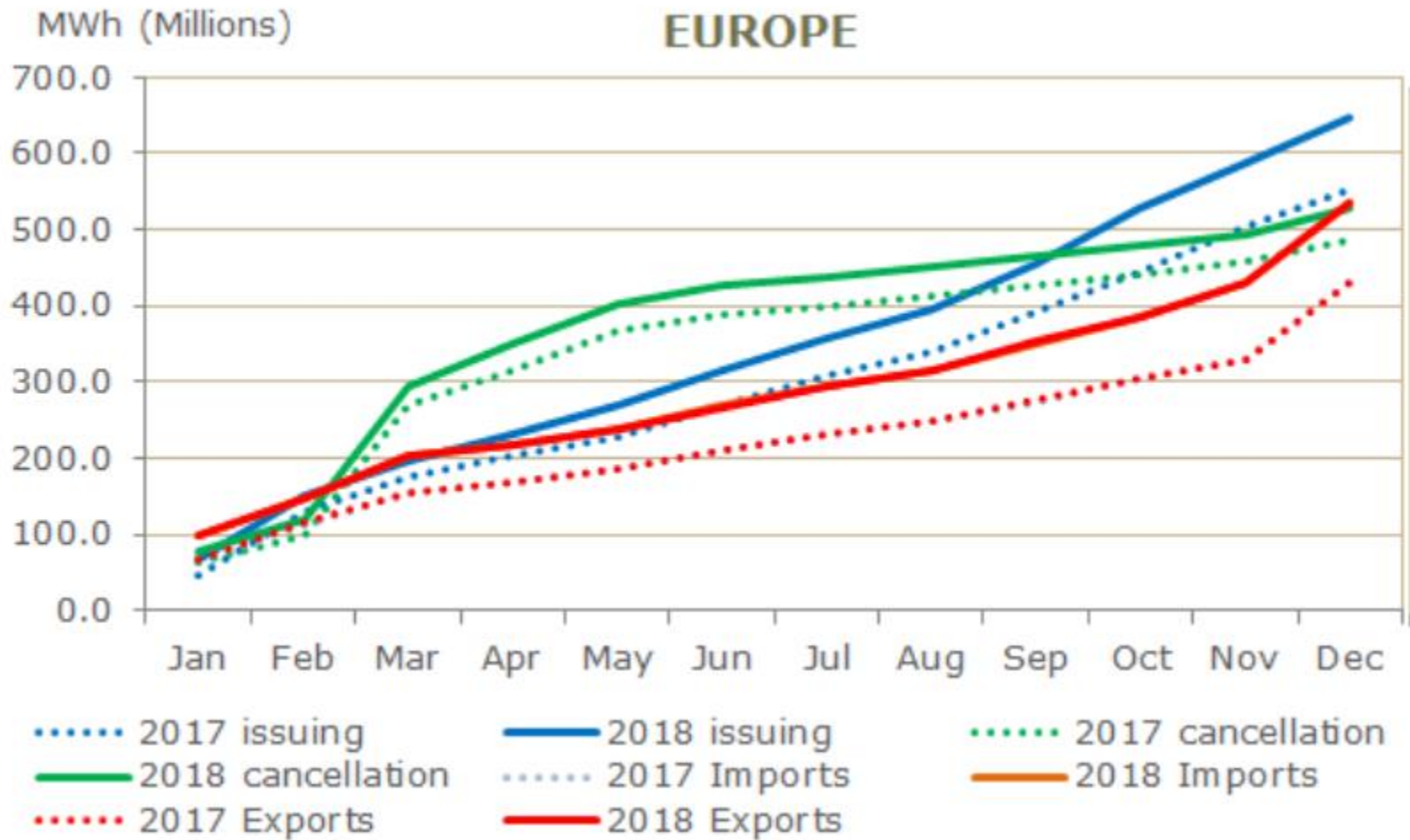


Annual EECS transactions by transaction date (TWh)

AIB



<https://www.aib-net.org/facts/market-information/statistics/activity-statistics>



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Topics for standardisation



Topic	Issue	Standard
Accredit plant	<ul style="list-style-type: none">- Really renewable?- Can you prove it?- Can you measure it?	<ul style="list-style-type: none">- inspection procedure- acceptance criteria
Issue GO	<ul style="list-style-type: none">- What is being burned?- What energy content?- What to record?	<ul style="list-style-type: none">- GO format- data definitions & validation criteria- issuing procedure & calculations
Audit plant	<ul style="list-style-type: none">- Did they prove it?- Has it changed?	<ul style="list-style-type: none">- audit practices & criteria- auditing periods- correction procedures
Transfer GO	<ul style="list-style-type: none">- Who got the certificate?- Did they want it?	<ul style="list-style-type: none">- message definitions- inter-registry GO transfer protocols- correction procedures
Cancel GO	<ul style="list-style-type: none">- Did it get withdrawn from the market?- What happened to it?	<ul style="list-style-type: none">- cancellation procedures- disclosure best practice

Components of the standard



EECS Rules

- *Certificate Administration*
 - Core principles – objectives & aspirations
 - Plant registration
 - Certificate issue, transfer and cancellation
- *EECS participation rules*
 - Membership, admission, compliance, disputes & change
- *Scheme specific rules*
 - e.g. electricity, gas ...

Detail ("subsidiary documents")

- *Decision-making – disputes, voting etc*
- ***Registry system & networking standards***
- *Approval of agents*
- *Change management*
- *Assignment of codes*
- *Audit & periodic reviews*

Dynamic information ("fact sheets")

- *Addresses, membership details, codes, guidelines ...*

Domain protocols

- *Description of regulations in a specific country*

- **Chapters A-M: generic on energy certificates**
- **Chapter N: Electricity Scheme**
- **Draft chapter: Gas GO Scheme**
- **Room for extra chapters**
- **Subsidiary Documents**
- **Fact Sheets**

EECS Rules Chapters A-M:

Generic on energy certificates



- A. Core principles
 - *Uniqueness, Immutability, operational reliability, ...*
- B. Definitions
- C. Harmonisation measures
 - *Production Device registration, Issuing, Transfer, End of Life, Cancellation,...*
- D. EECS Products
- E. EECS Schemes
- F. Admission and Expulsion Procedures
- G. Probity of Members
- H. Members Agents and Measurement Bodies
- I. Compliance
- J. Disputes
- K. Assessment Panels
- L. Change Procedures
- M. General

Data on the GO

Defined in EECS Rules

- EECS = living document
- AIB framework
 - decision moments every 3 months
 - workgroups constantly improving the quality of the documents
- Gas GO chapter of EECS = under construction

Attention point:

Once GO transfer is operational on large scale,
adding extra data fields on a GO is expensive

=> Define the required data fields on gas GOs ASAP!

EnergyMedium
Purpose
ProductStatus
ProductType
StartCertificateNumber
EndCertificateNumber
IssuingBody
CompetentAuthority
CountryOfIssue
IssuedDate
ProductionDeviceID
ProductionDeviceName
Electrical Capacity
Mechanical Capacity
Thermal Capacity
DateOperational
StartDate EndDate (ProductionPeriod)
EarmarkFlag
ProductionSupportDescription
InvestmentSupportDescription
TypeOfInstallation
EnergySource
ProductionDeviceCoordinates ³⁾
ProductionDeviceAddress ³⁾
UseOfHeat
LowerCalorificValue
PercentagePrimaryEnergySaved

- 1) Data on the GO
- 2) Common understanding of concepts
- 3) Reliability & core principles:
 - a) Recognition between separately managed GO schemes
 - *Between Issuing Bodies*
 - *Between scheme facilitators*
 - *Mutual recognition procedures*
 - audit procedure: implementation check on core principles
 - *Data format requirements*
 - Incl. Technical audit
 - *EN16325*

Or

- b) Convergence – common standard

1. Transparent framework of agreed rules

- [EECS Rules](#), Subsidiary Documents, Fact Sheets
- Domain Protocols

2. Contractual framework

- Hub Participant Agreement
- Standard Terms and conditions

3. Becoming an AIB Member

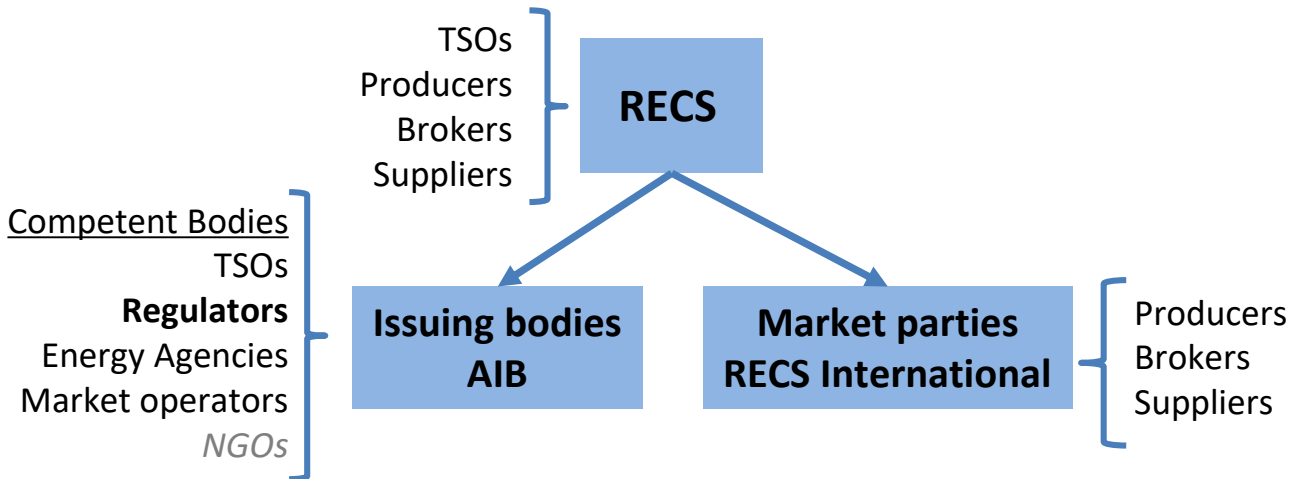
- [Joiners' brochure](#)
- review procedure

4. Member Audits

- Onsite Domain audits (3-yearly)
- Technical Audits (3-yearly)
- Compliance audits (if applicable)

- Based on EECS Rules
- Less flexible in adaptation to changing environment
- CEN decided to revise EN16325
- AIB advice to CEN:
 - Incorporate other energy carriers
 - Facilitate flexibility in relation with constantly updating market requirements


AIB History



Governance of AIB

2001	AIB & RECS = same body
6/2002	AIB formed
12/2002	RECS international formed Memorandum of understanding between AIB & RECS
2005	Bodies formally separate Consultation with market parties and COM
2012	Discussions with CA-RES
2014	Hub Participant Agreements
2016	Professional Reviewers Group
2017	Go-live new Hub
2018	Internal reorganisation kicks off

1999	Concept
2001 - 2002	Test phase
	COM project: voluntary RECS certificates
2003 - 2007	Directives
RES-GO	2001/77/EC
CHP-GO	2004/8/EC 2003/54/EC
2008 - March 2013	
RES-GO	2009/28/EC 2009/7/2EC
2012 – March 2013	
CHP-GO	2012/27/EC
2014 – 2016	
	End of RECS certificates

- 
- 2017 New Hub live. AIB develops position on RED II. Internal reorganisation commences
 - 2016 Completion of Hub redevelopment. Work starts evaluating linking GOs with carbon. Replacement of website. Install Professional Reviewers Group.
 - 2015 Replacement of the Hub. Reflection paper proposes "Full Disclosure".
 - 2014 RECS certificates cease to be issued. From now on all EECS certificates are GOs and EECS Disclosure certificates
 - 2012 Ten years of AIB!
 - 2011 Implement EECS Rules and new Hub
 - 2008-10 Re-design PRO into the EEC Rules incorporating new RES Directive 2009/28/EC, enabling energies other than electricity and simplifying the regulations
 - 2007 Implement inter-registry Hub
 - 2006 Develop new chapters for CHP certificates, and revise all member domain protocols to support the new EECS regulations
 - 2005 Definition of a more robust business model for EECS and develop new chapters for disclosure
 - 2004 Redevelop Basic Commitment to address Guarantees of Origin, certificates for other forms of energy and new, clearer rules
 - 2003 Live running / Guarantees of origin
 - 2002 Registry interfaces agreed, international trade commences, AIB and RECS International founded. End of test phase (18M certificates issued)
 - 2001 Basic Commitment agreed - drafting of domain protocols, first certificates issues (Finland) and national trade commences
 - 2000 Preparation commences - resolution of many detailed issues
 - 1999 Foundation of RECS and test phase conceived to prove the concept

- **Organisational restructuring**
- **Relation with Disclosure Competent Bodies**
- **Implementing REDII**
- **Facilitating energy carrier conversion**

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It's time to talk with each other!



Understanding

Convening

Co-creating



Thank you for your attention



AIB Secretariat
23 Station Road, Gerrards Cross,
Bucks SL9 8ES, United Kingdom
Telephone: +44 1494 681183
Email: secgen@aib-net.org
Website: www.aib-net.org

