

## Agenda:

### 1. Opening and welcome

*Liesbeth Switten, AIB & Adam White, RECS International*

### 2. Update on the revision of European standard CEN 16325 on GOs

*Katrien Verwimp, AIB & Adam White, RECS International*

### 3. Time Stamping and hourly matching

*Tom Lindberg, RECS International & Ilona Bruens, CertiQ*

### 4. Certification of non-electricity energy carriers

*Pelle Derewecki, Swedish Energy Agency, & Wouter Vanhoudt, Hinicio, CertifHY3*

### 5. General market improvements and requests

*Jared Braslawsky, RECS International*

### 6. Open question and answer session

*All speakers*

## 1. Opening and welcome

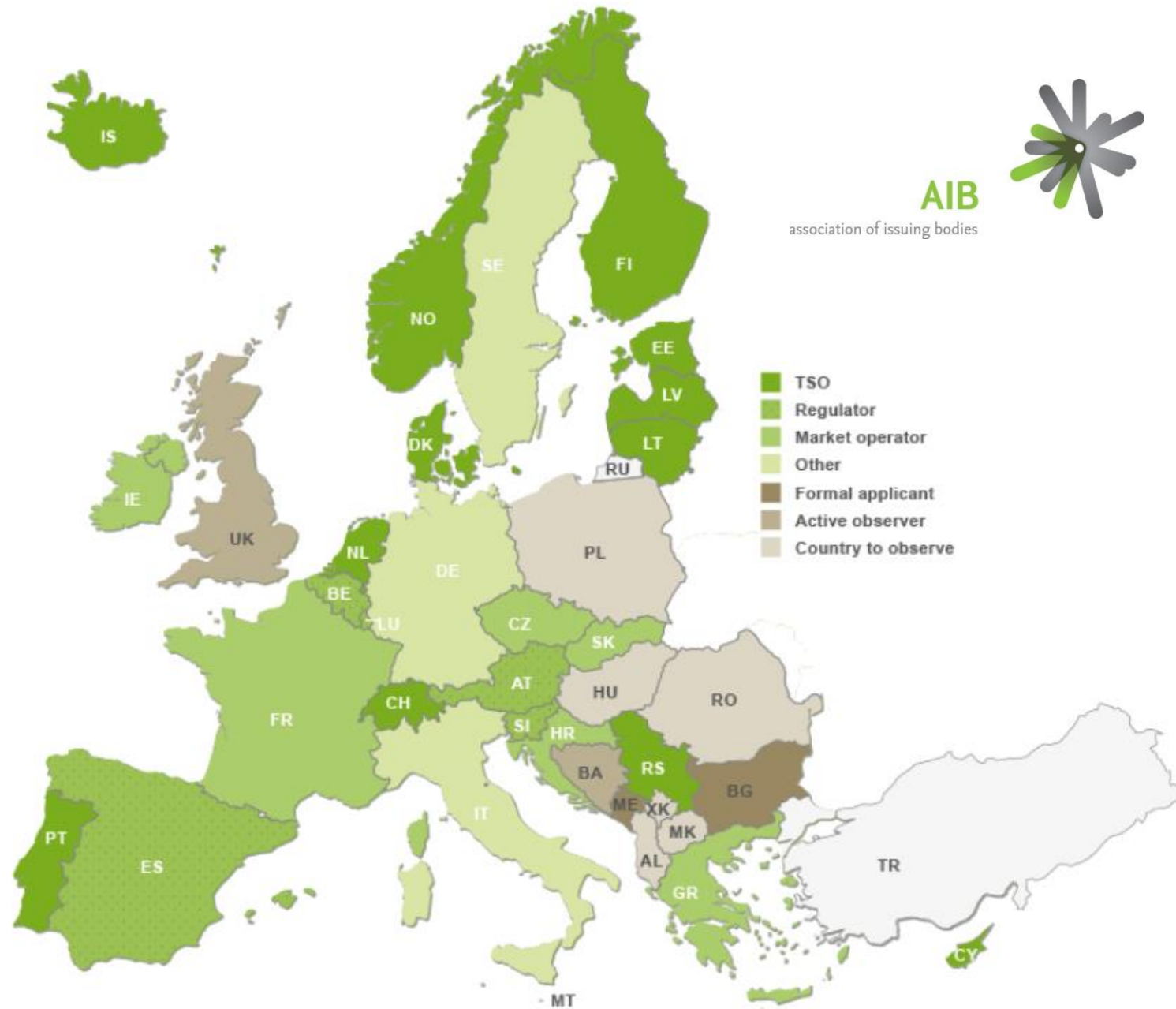
*Liesbeth Switten*  
*Secretary General, AIB*



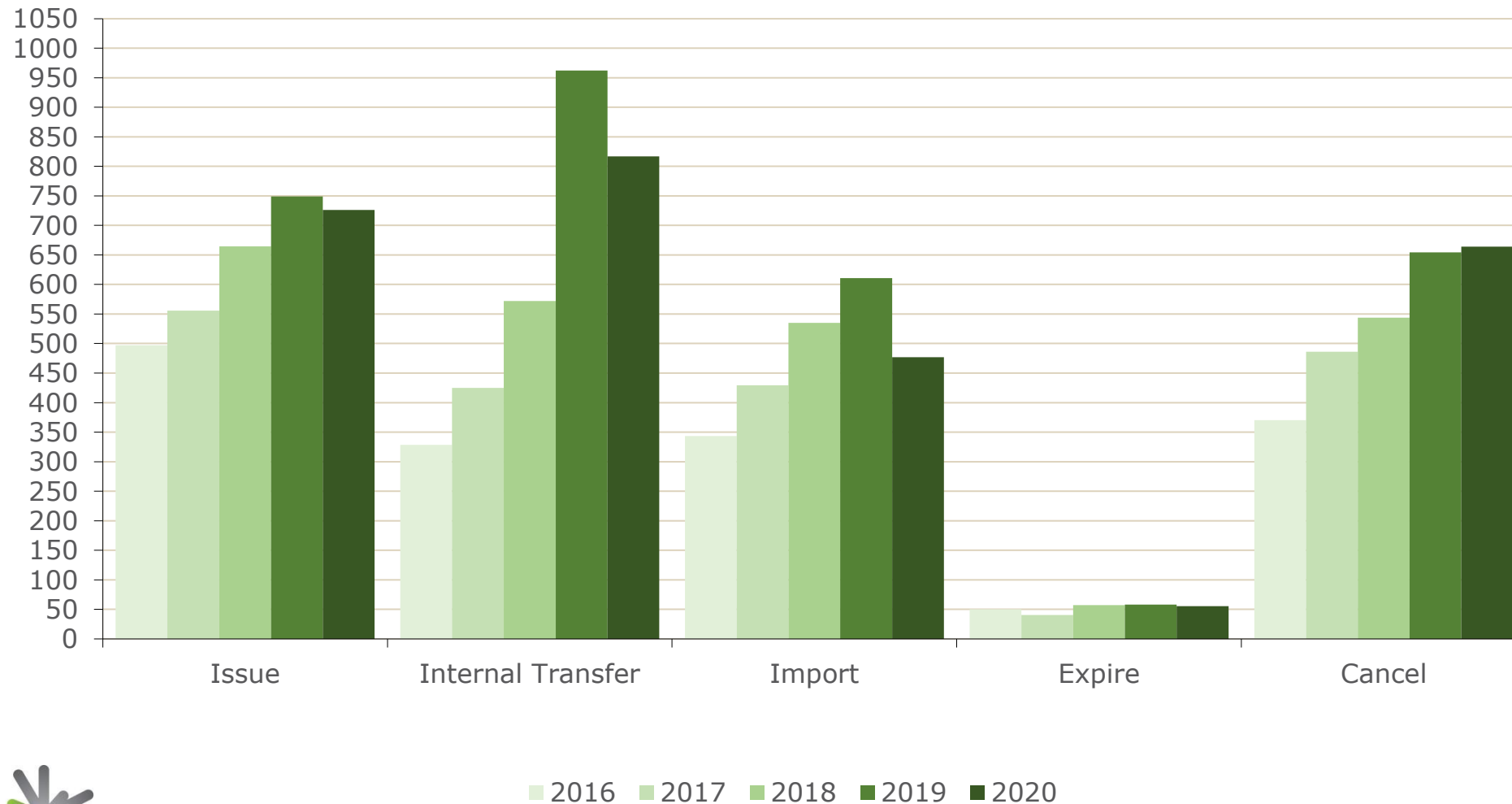
*Adam White*  
*Director, RECS International*



# The Open Markets Committee – 2020



## Annual EECS transactions by transaction date (TWh)



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# Thank you Phil!

*Phil Moody  
Former Secretary General, AIB*



*40 years in the energy industry...*

*Of which 20 at the AIB...*

*And more to come!*

2. Update on the revision of European standard CEN 16325 on GOs

*Katrien Verwimp*  
*Project leader FaStGO*  
*Coordinator sector integration, AIB*



*Adam White*  
*Director, RECS International*



## Renewable Energy Directive 2018/2001/EU art. 19.6:

- *“Member States and designated competent bodies shall ensure that the requirements they impose comply with the standard CEN- EN16325”*
- *Transposition by 30/6/2021*

## EN16325: standard on guarantees of origin related to energy

- Drafted in 2013, updated in 2015
- Revision opened 7/2/2020 in CEN Joint Technical Committee 14 Working Group 5
- Aim:
  - Facilitate multi-energy carrier,
  - Update towards REDII,
  - Integrate improvements from practice

## CEN-CENELEC

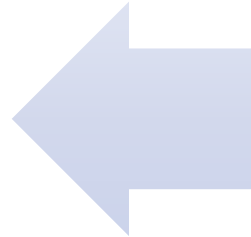
### Revision process EN16325

- JTC14 WG5
  - Subgroups for electricity, gas, hydrogen, heating&cooling
  - Steering group
  - Plenary meeting WG5 phrases “Recommendations”
- National standardisation committees decide by vote

## FaStGO

### Text proposal EN16325, arguments and consultation takeaways

- <https://www.aib-net.org/news-events/aib-projects-and-consultations/fastgo/project-deliverables> - task 2
- Headlines:
  - Based on EECS, though keep operational details flexibly adaptable between issuing bodies
  - Generic GO system for multiple energy carriers
  - Energy Carrier Conversion
  - Extending the definition of disclosure beyond suppliers
  - GO scheme assessment may be required by IB at new import
  - Disclosure statements and supervision
  - Consumer trust: Same scope for GO issuing and disclosure
  - Financial fraud prevention



## CEN:

Principles for reliable  
GOs

- Being discussed in CEN, in addition to EECS today:
  - Data field on the GO “Type of Dissemination of the physical energy”
  - GOs for heating and cooling – new attributes e.g. temperature range
  - Hydrogen blending into the gas grid
  - Export & Import – maintain same perimeter as in residual mix

## EECS :

Reliable and  
EFFICIENT operation

- EECS going beyond CEN
  - Operational details, needing flexible adaptation
  - IT facilitation of international transfers and joint needs
  - Platform for sharing experiences
  - Co-creation by issuing bodies
    - Standard procedures for robust decision making



## Key challenges for market participants:

- *Still scope for national regulations and differences*
- *Certification of Hydrogen*
- *Labelling the dissemination level for electricity*
- *Supporting cancellation by non-suppliers*
- *Consumer trust*



# Poll question

What do you consider a priority regarding the revision of EN16325?

- a) Timely delivery of EN16325
- b) Accomodate efficient market operation
- c) Accomodate trust for consumers
- d) Harmonisation of the principles

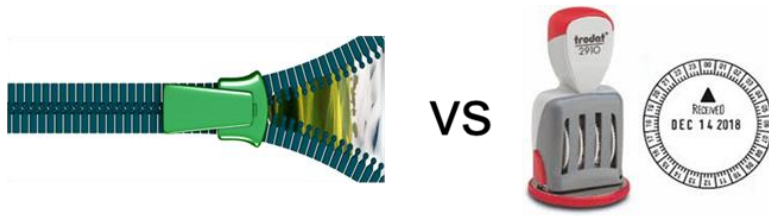
#### 4. Time Stamping and hourly matching

*Tom Lindberg  
Managing Director, ECOHZ*



*Ilona Bruens  
Head of CertiQ*





## Matching vs time-stamping

- Matching of renewable purchases is done annually
- Matching at monthly, daily, or hourly is voluntary – consumer choice
- Monthly matching – standard today – need no changes
- For hourly or beyond – need time-stamp on EAC
- Time-stamping of EACs is key enabler for «hourly matching»



## System & technology

- Time-stamping does not have to mean a new certificate
- Time-stamp needed as standard element on/with all EAC standards – GOs, I-RECs & RECs
- Time-stamping can be done by most technologies today – in reality technology agnostic
- Matching solutions – to be delivered by market players – not necessarily policy or standard driven

## Google Pledges 24/7 Carbon-Free Energy by 2030

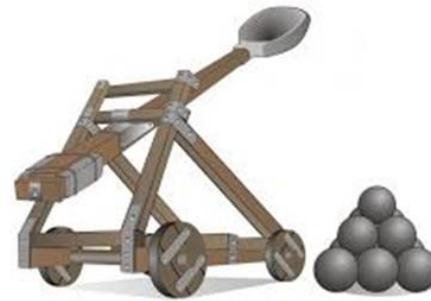
"We are the first major company that's set out to do this, and we aim to be the first to achieve it," says Google CEO Sundar Pichai.

JEFF ST. JOHN | SEPTEMBER 14, 2020



## Market «needs»

- Looking for impact
- Leadership criteria to go beyond standard
- Alignment with power perceived as more credible
- Possibly more accurate carbon footprint
- Few or no one wants/needs «real-time matching»

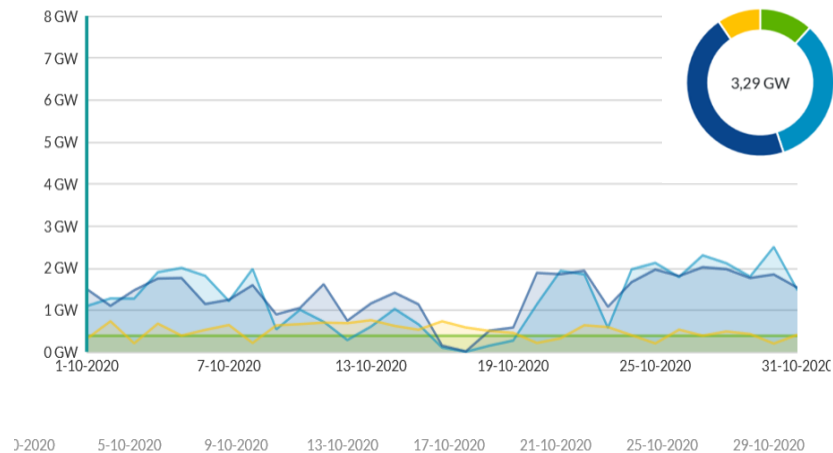


## Market effects

- Shrinking market windows
- Increased complexity to balance
- Increased volatility & risk
- Higher and more variable prices
- More complex admin and reporting



## Renewables October 2020 NL



## Expectations timestamping

- Voluntary scheme next to the GO system
- GO will stay only prove of renewable production and consumption
- GO-system becomes an integrated part of the energy market
- Stimulates use of renewables, incl. storage
- Stimulates DSR of renewables

## Impact CertiQ operations

- Prevent double counting
- Adaptation of IT application needed
- GO issue process needs to be modified

## But...

- Success of timestamping depends on the consumer demand for near real time energy.
- Tighten/closing the gap between production and consumption of renewables is needed in future

# Poll question

In order to achieve temporal granularity, should a timestamp come in the form of:

- a) An optional data field on the GO
- b) A mandatory data field on the GO
- c) A separate certificate
- d) No opinion

### 3. Certification of non-electricity energy carriers

*Pelle Derewecki  
Swedish Energy Agency*



*Wouter Vanhoudt  
Director Europe, HINICIO  
Coordinator CertifHY3  
Chair AIB Gas Scheme Group*



## AIB reorganisation to facilitate multi-energy

1. EECS Energy Carrier Conversion Rules

September 2019

2. EECS Gas Scheme: Chapter O of the EECS Rules

November 2019

<https://www.aib-net.org/eecs/eecsr-rules>

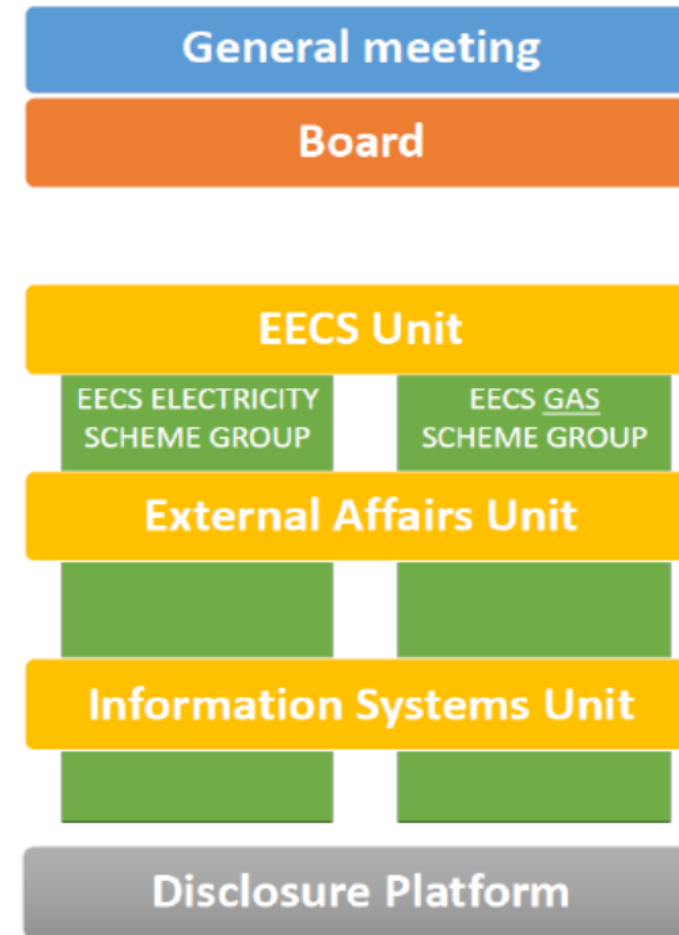
3. Changes in the Articles of Association and internal rules

February 2020

4. Gas Scheme Group

Existing members

Observer - Scheme co-developer status



## What does an EECS certificate look like

### Generic EECS Certificate

Energy Medium
Product
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
Support received by type
Independent Criteria Schemes (Labels) *

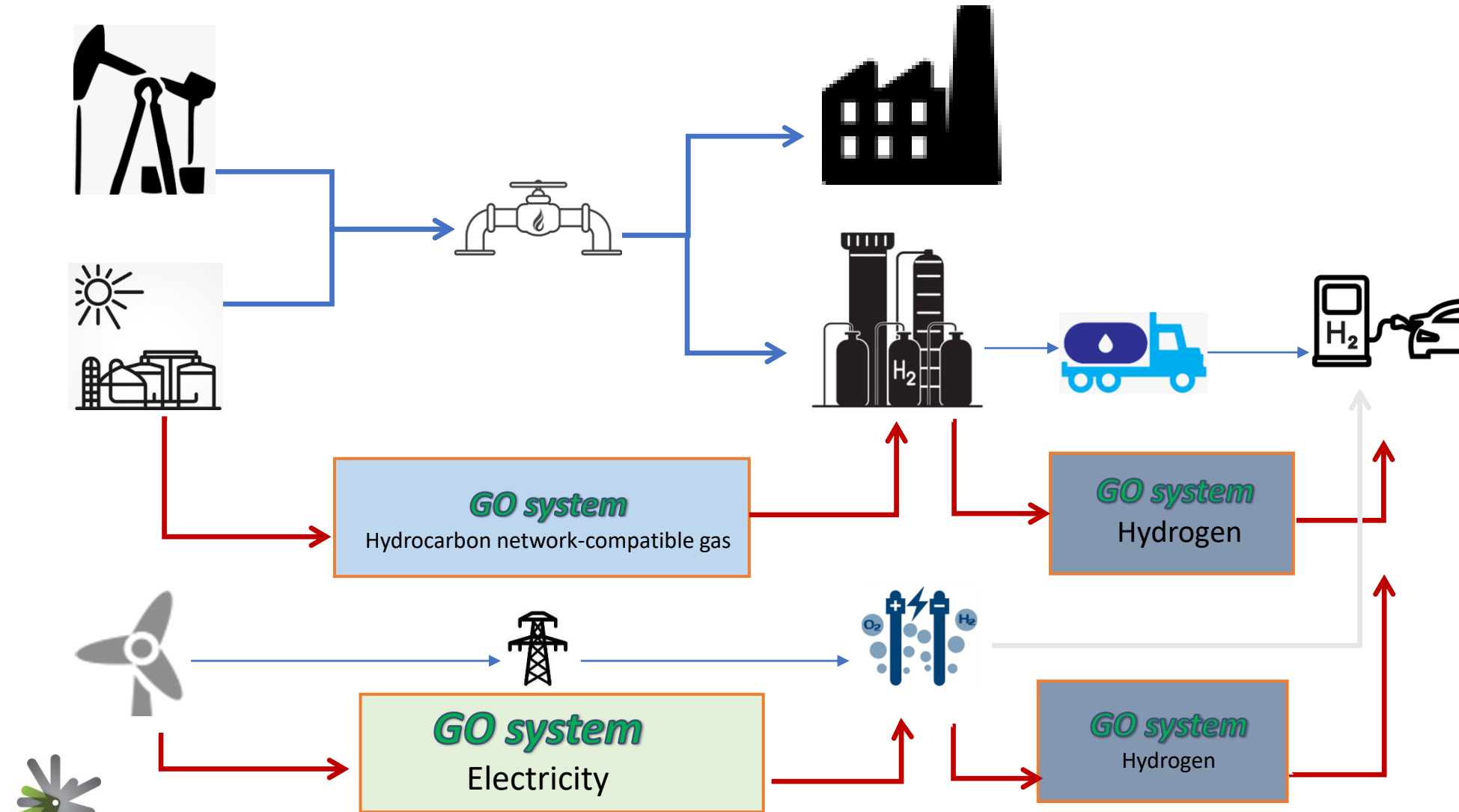
### Additional on EECS Gas Certificate

Type of Gas <ul style="list-style-type: none"><li>• Network compatible gas, Hydrogen, Other gas</li></ul>
Calorific Value
Means of Supply - category
CO2 Emissions saved & produced *
Sustainability Criteria Met? * <ul style="list-style-type: none"><li>• Y/N, Name Certification Body, reference to report</li></ul>
GHG saving criteria met? *
End-use of gas category *

\*Blue text: optional data field

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

## GO Conversion Issuance

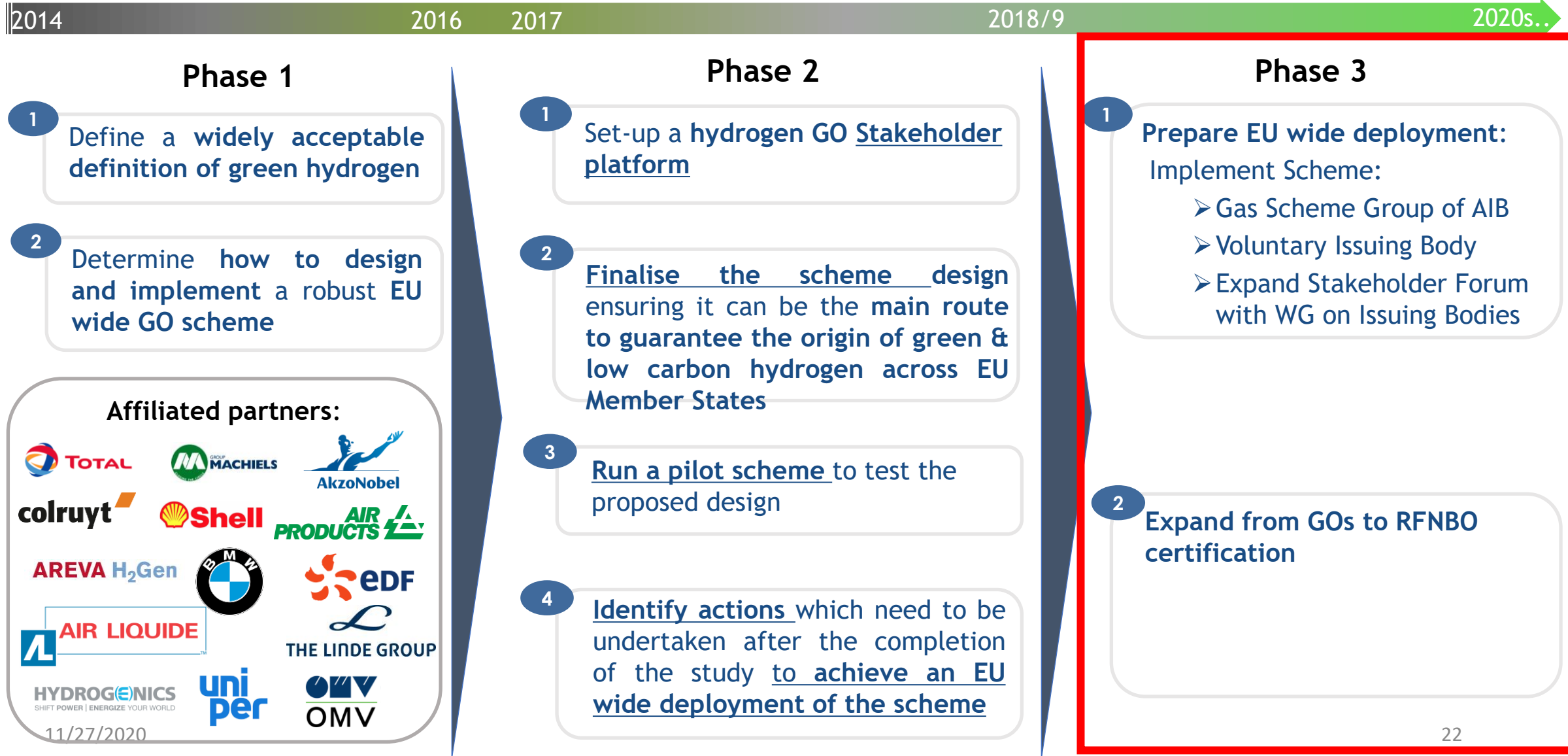




### **Workplan EECS Gas Scheme Group (GSG)**

- GSG further development
- EECS Development
  - Finetuning and implementing EECS Gas Scheme
- CertifHy
- REGATRACE
- External representation

# CertifHy developed a Renewable and non-renewable hydrogen GO scheme since 2014, and puts this experience at the disposal of the AIB GSG



Whereas CertifHy phase I (2014-2016) focused on the regulatory environment and phase II (2017-2019), phase III will focus on market making: There is a specific WG for GO Users that will take market input

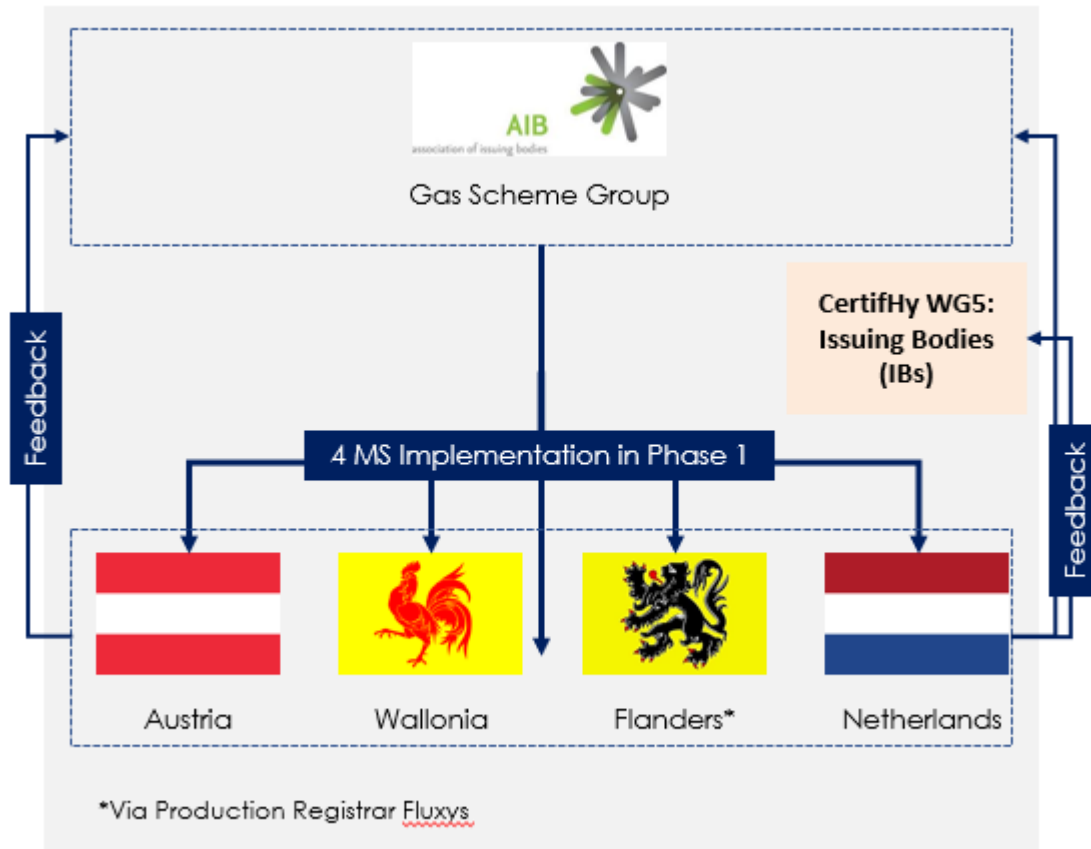
## Steering Group

- Takes decisions regarding platform governance and organization
- Endorses the important scheme decisions
- Convenes plenary sessions
- Working group chairs and co-chair
- Various DG's of the EC will be re-invited as in CertifHy 2 to become Observer

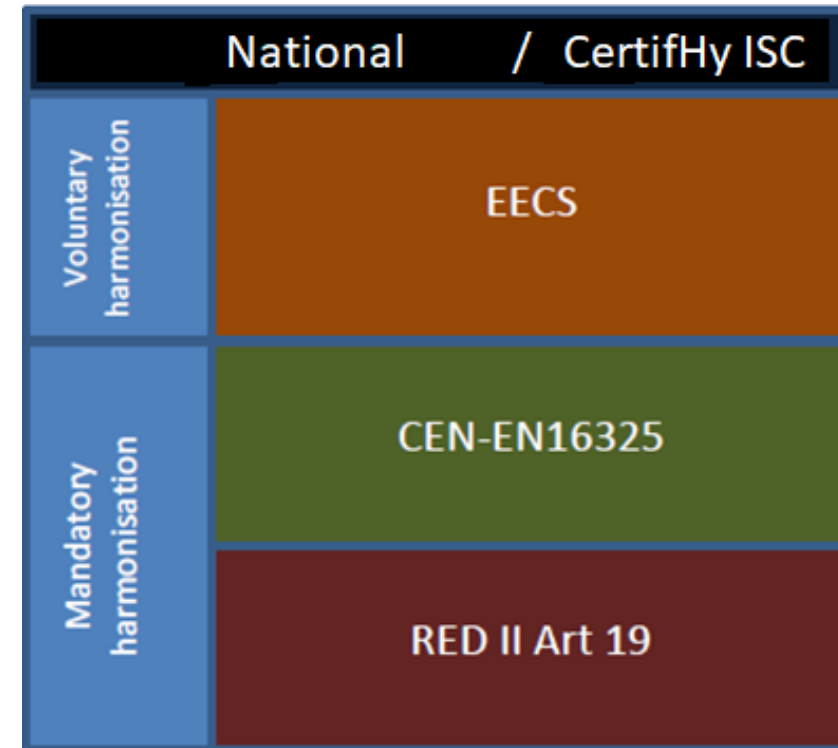
	Stakeholder Platform	WG1: GO scheme and procedures	WG2: GO issuing (Producers)	WG3: GO commercialization and use (Users)	WG4: Regulatory Framework	WG5: Issuing Bodies (IBs)
Role	<ul style="list-style-type: none"> <li>• Act as a discussion forum for stakeholders</li> <li>• Endorse the overall scheme</li> </ul>	<ul style="list-style-type: none"> <li>• Define the scheme</li> <li>• Provide input to and interface with standardization with regards to structure and content</li> </ul>	<ul style="list-style-type: none"> <li>• Define the requirements that will apply to the H2 production sites</li> </ul>	<ul style="list-style-type: none"> <li>• Specify the features that are needed to address market needs in terms of GO product and commercialization</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure alignment between GO scheme and the pertinent regulation, especially at EU level</li> </ul>	<ul style="list-style-type: none"> <li>• WG in process of being created</li> </ul>
Composition	<ul style="list-style-type: none"> <li>• All pertinent stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• GO Scheme experts (including industry)</li> <li>• Standardization experts</li> </ul>	<ul style="list-style-type: none"> <li>• Operators of H2 production sites</li> </ul>	<ul style="list-style-type: none"> <li>• All actors involved with the distribution and the use of GOs (fleet operators, industrials from the automotive, steel, glass, etc. sectors, industrial gas companies,...)</li> </ul>	<ul style="list-style-type: none"> <li>• Public affairs experts of the stakeholder group</li> <li>• Representatives of the Commission</li> </ul>	<ul style="list-style-type: none"> <li>• Competent Issuing Bodies from Member States</li> </ul>

please register via [Join the CertifHy Stakeholder Platform](https://www.certifhy.com) or [certifhy@hinicio.com](mailto:certifhy@hinicio.com)

CertifHy will assist 4 MS to implement the Gas Scheme which will act as pilots. Also, CertifHy will establish a EECS compliant voluntary IB issuing Non-Governmental Certificates



Beyond Europe, CertifHy will also provide input to international Clean Energy Ministerial's / IPHE's Task Force on hydrogen certification



Beyond implementation with 4 EU MS, 1st level capacity building with Morocco for import/export of GOs with the European Union is foreseen

# Poll question

What actions should be prioritised to support the further development of a market for GOs for gaseous energy carriers?

- a) More market information/transparency?
- b) A clearer legislative framework?
- c) Joint system coordination by issuing bodies?
- d) Other?

5. General market improvements and requests

*Jared Braslawsky*  
*Secretary General, RECS International*



## ***What makes a good tracking system?***

- *Clear separation of roles (✓)*
- *Clarity on rules and regulations (?)*
- *Fair treatment of all parties (?)*
- *Responsive and knowledgeable market support (?)*
- *Quality IT systems (?)*

## **Clarity on rules and regulations**

- Work towards clarity on disclosure deadline, differences in trade deadlines

## **Fair treatment of all parties**

- Requirements remain that forbid non-residents from holding accounts or trading
- In some markets only certain entities can trade GOs

## **Responsive and knowledgeable market support**

- Centralizing registry and market support or providing AIB requirements on market support
- Statistic improvements as mentioned in FastGO

## **Quality IT systems**

- Registry quality has significant variations (large batches)
- Reports from market players suggest temporary lose of certificates with inter-registry trades
- Look to centralized interfaces (but not necessarily back-ends) for ease of use
- APIs are critical for future developments
- Looks towards allowing more detailed, granular (temporal) information

# Poll question

Which change would most improve the GO market:

- a) Lifting restrictions on account ownership and cancellation on behalf of clients?
- b) More transparency on price information?
- c) A central registry for cancellation?
- d) More use of APIs for data sharing?
- e) Universal time stamping on GOs?
- f) Carbon footprint information on GOs?

## 6. Open question and answer session

*Liesbeth Switten*  
AIB



*Adam White*  
RECS International



*Katrien Verwimp*  
AIB



*Ilona Bruens*  
CertiQ



*Jared Braslawsky*  
RECS International



*Pelle Derewecki*  
SE Energy Agency



*Tom Lindberg*  
ECOHZ



*Wouter Vanhoudt*  
HINICIO, CertifHY3



# Thank you for your attention!

[www.aib-net.org](http://www.aib-net.org)

[www.recs.org](http://www.recs.org)

REC Market Meeting 2021 7<sup>th</sup> – 8<sup>th</sup> September