

CONSOLIDATION

ANNUAL REPORT
2021



AIB

association of issuing bodies



CONSOLIDATION

After rolling out the new organisation model in 2020, AIB further consolidated both its structures and strategy in 2021. A new vision was approved, as well as three strategic roadmaps. The gemstone is a metaphor for the transparency, solidity, rarity and beauty of AIB. Indeed, AIB is a rare and beautiful example of how bottom-up harmonisation is possible in Europe, driven by national organisations, despite their national differences. Since our reorganisation, transparency is even more important for our members, but also for the outside world - all EECS documents are public, because we truly believe in setting up a solid and unified European certification system. The colours represent our diversity, both in terms of our member base and the energy carriers that we certify, whereby the touch of blue refers to hydrogen certification that is also standardised under EECS®.

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FOREWORD



Ivar M. Clausen (Statnett, Norway), Chair of the AIB Board

2021 – A virtual year

2021 really tested the AIB as an Association. The backbone of AIB has been the participation of members. A virtual world without any dinners, drinks or city walks has made it more difficult to engage members. The virtual world has made it more challenging to welcome new people and member organizations into the Association. Now, most of the Covid restrictions have been lifted and in May 2022, we were able to hold our first physical meetings post Covid. The meetings in Oslo clearly showed that the AIB spirit had survived. From my side, I really hope that those who are new to the Association felt welcome and that the meetings were both valuable and enjoyable.

2021 has been an important year for AIB, the development of the Gas EECS GO Scheme has made huge progress. With the definition of the V80 of the EECS GO message format, we now have the technical standard to allow for the issuing and transfer of Gas EECS GOs. Alongside the development of the Gas standard, more and more countries around Europe have appointed Issuing Bodies for Gas GOs. AIB is happy to welcome these Issuing Bodies as observers and, in time, as members of the Association.

In parallel with the development of the gas standard, the Association has made important strategic decisions to develop a new Hub. The current Hub is getting very close to end-of-life from a technology perspective. The current

Hub was developed for another time, when the transaction volumes in the GO market were much lower. The General Meeting gave its approval for a Hub development roadmap that will ensure that we keep the current Hub well-functioning while we develop a new Hub. The new Hub will have a scalable design. It will be designed to handle transaction levels many times higher than the levels we see today. The design of the new Hub will also allow for the development of new services to be integrated into the Hub solution.

In 2021, the Board worked hard on improving the transparency of AIB. When creating the budget of 2022, we established a new budget routine. The goal was to provide clear timelines and deadlines for input from units and scheme groups. This process will be refined for the 2023 budget. The budget for the Association itself has been restructured to make it more accessible to member representatives. The Board and the General Meeting also receive regular updates on the financial situation of the Association. These reports are structured with transparency and accessibility in mind. Another important step towards more transparency is the publication of all decisions made by the Board, units, and groups in the member section of the AIB website.

AIB's vision – Guaranteeing the Origin of European energy – is becoming more and more relevant. The European Union continues to trust and develop documentation and traceability as important tools for reaching the Union's

ambitious climate goals. As AIB we provide the platform of accountability and trust that is fundamental to reaching these goals. For me, this is the key motivation for working to improve the GO system.

At the time of writing this, I am stepping down as Board Chair. I am leaving Statnett and thereby the AIB sphere. I would like to thank everyone for the cooperation and the opportunity of being an AIB representative. I wish all the best for AIB in the future, providing a solid framework for origin tracking of energy has never been more important!

GO ACTIVITY FOR 2021

This year AIB have produced a scaled back version of the statistical information. The Association is focused on providing current, accurate and up-to-date information for its members and will focus on delivering that with the systems upgrade that is currently ongoing. In the meantime more detailed statistics are available on the [AIB website](#). **Here is a summary of activity in 2021.**

Market Activity

GO Statistics are available for: GO activity by month; and GOs produced in a month. Therefore it is possible to analyse the quantity of GOs which are actually issued, transferred, and cancelled or expired in a month; as well as those which were issued, cancelled, or expired for the electricity produced in a month. These statistics can show how many of each 'vintage' of GO are still available on the market and can provide a review of seasonal GO activity.

Overview of activity

2021 was another year of continued increase in the market. Activity continues to increase with sustainable, strong growth in the quantity of GOs used by suppliers to prove the source of electricity. From 2019 to 2021 there has been an increase of 153 TWh of issued GOs. The number of issued GOs for electricity produced during 2021 is close to the final figure now, although inevitably there will be

some late additions due to final settlements and resolution of errors and disputes.

Cancellation continues to increase, reflecting strongly growing consumption in several countries during 2020. In reviewing these graphs, please note that – in line with the provisions of the RES Directive 2009/28/EC and its successor 2018/2001/EC - GOs expire one year after the date of production.

GOs are often cancelled close to expiration, which explains why some of the GOs for 2020 production have yet to be cancelled – these will be cancelled later in 2021.

The following graphs show:

- (1) the annual quantity of GOs issued, cancelled, and expired for production for the last three years; and
- (2) those that have been issued, transferred within a country, transferred internationally, and expired and/or cancelled during the same time period.

Figure 1 a) Annual EECS Transactions in TWh (based on production date)

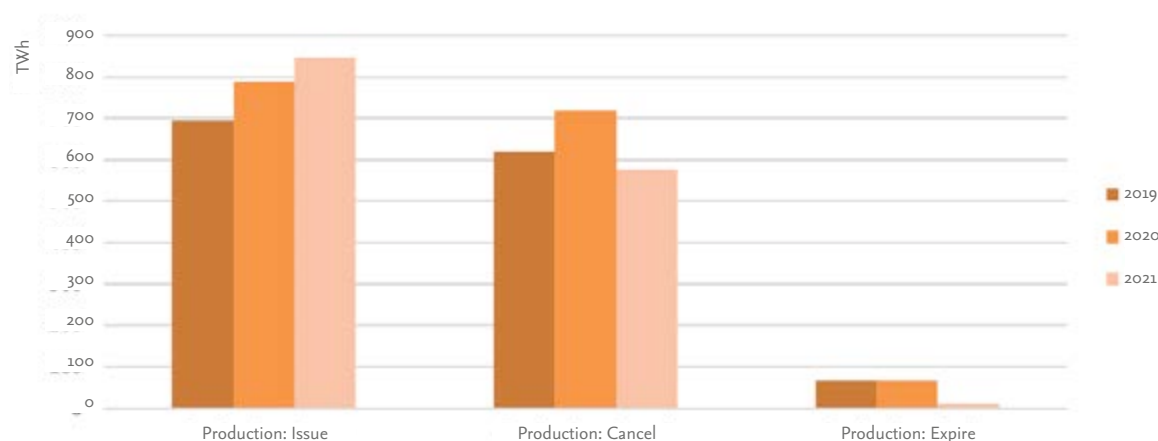
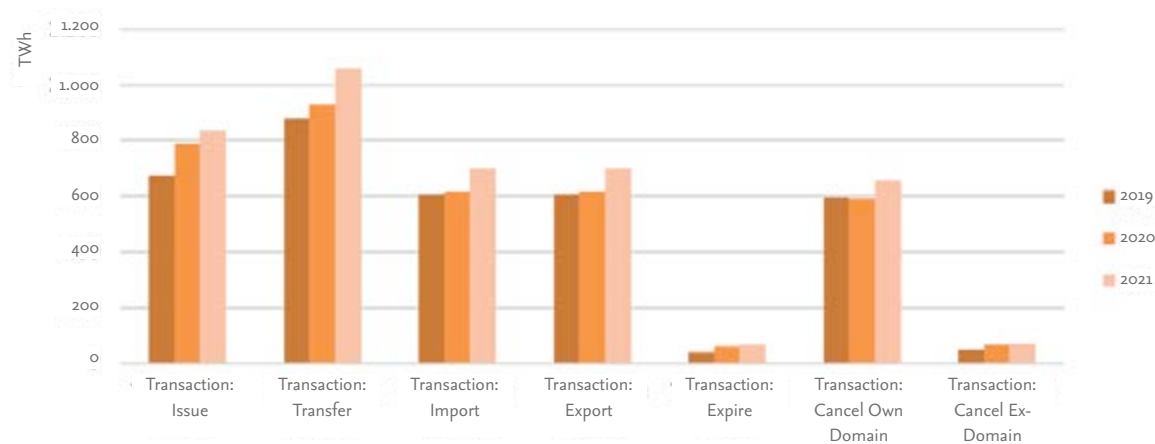


Figure 1 b) Annual EECS Transactions in TWh (based on transaction date)



Source of GOs – country

Regarding national activity, the major issuers of GOs are Norway followed by Italy, Sweden and the Netherlands; who provide 48% of all GOs issued. Next up are France, Switzerland, Austria and Finland, which issued a further 28% of GOs issued. Norway and Sweden increased their issuing from 2020 to 2021 by 2% respectively; most other countries stayed steady from the previous year.

A correction of the statistics from Spain, removing National GOs from the 2020 figure showed it dropping from 13% in 2020 to 3% in 2021.

Germany, the Netherlands, Norway and Italy are the top four consumers of GOs, cancelling 52% of the total. They are followed by Austria, France, Sweden and Switzerland who cancelled a further 33%. All of the top eight countries have increased their cancelling volumes from 2020 to 2021.

The following graphs show the annual quantity of GOs issued and cancelled for the years 2020 and 2021.

Figure 2 a) EECS certificates issued per country (2020)

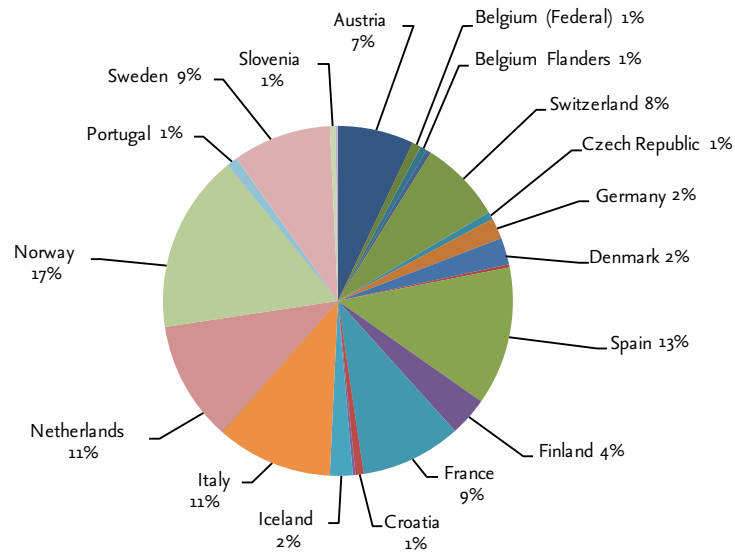


Figure 2 a) EECS certificates issued per country (2021)

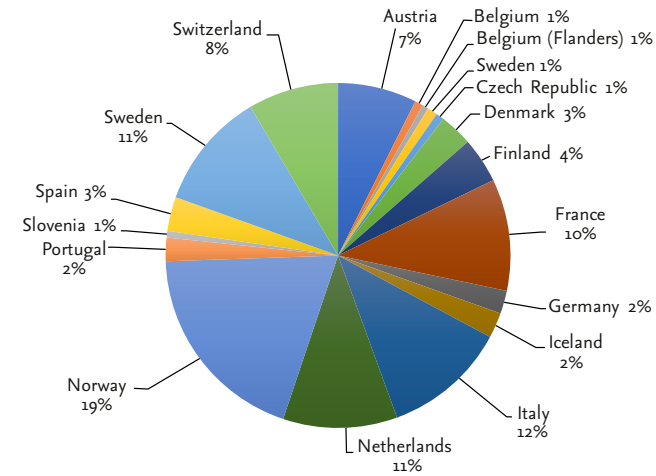


Figure 2 b) EECS certificates cancelled per country (2020)

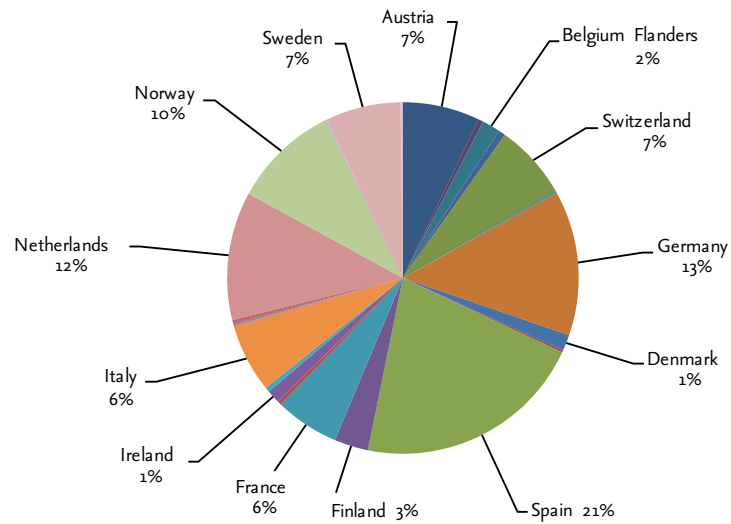
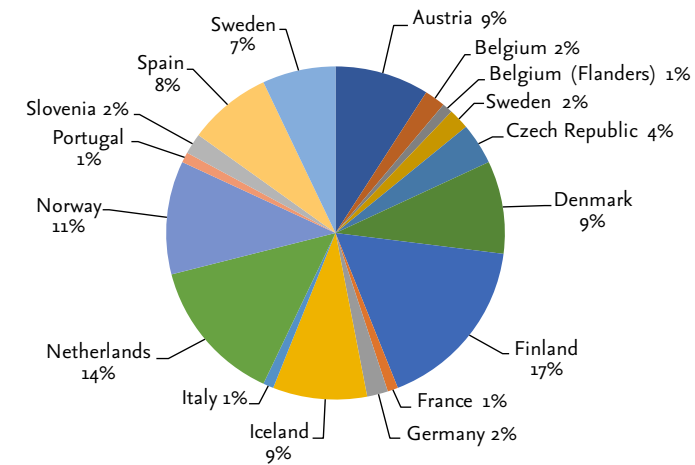


Figure 2 b) EECS certificates cancelled per country (2021)



Export and Import activity

Once again, Norway was the leading exporter in 2021, with Sweden, Italy and France next. Norway exports nearly four and a half times more than the second highest member, Sweden.

Figure 3 Monthly Exports by Domain 2021

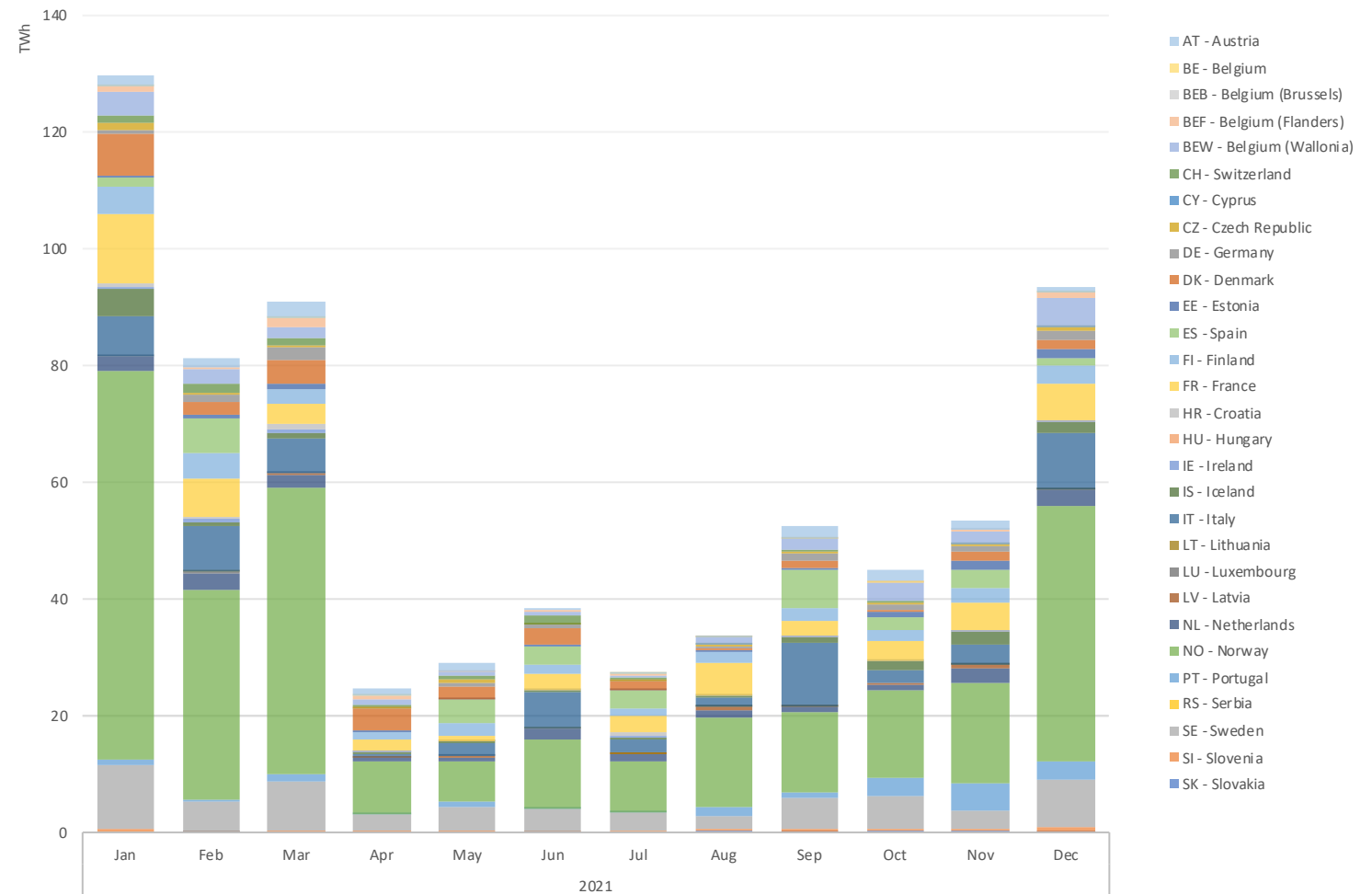
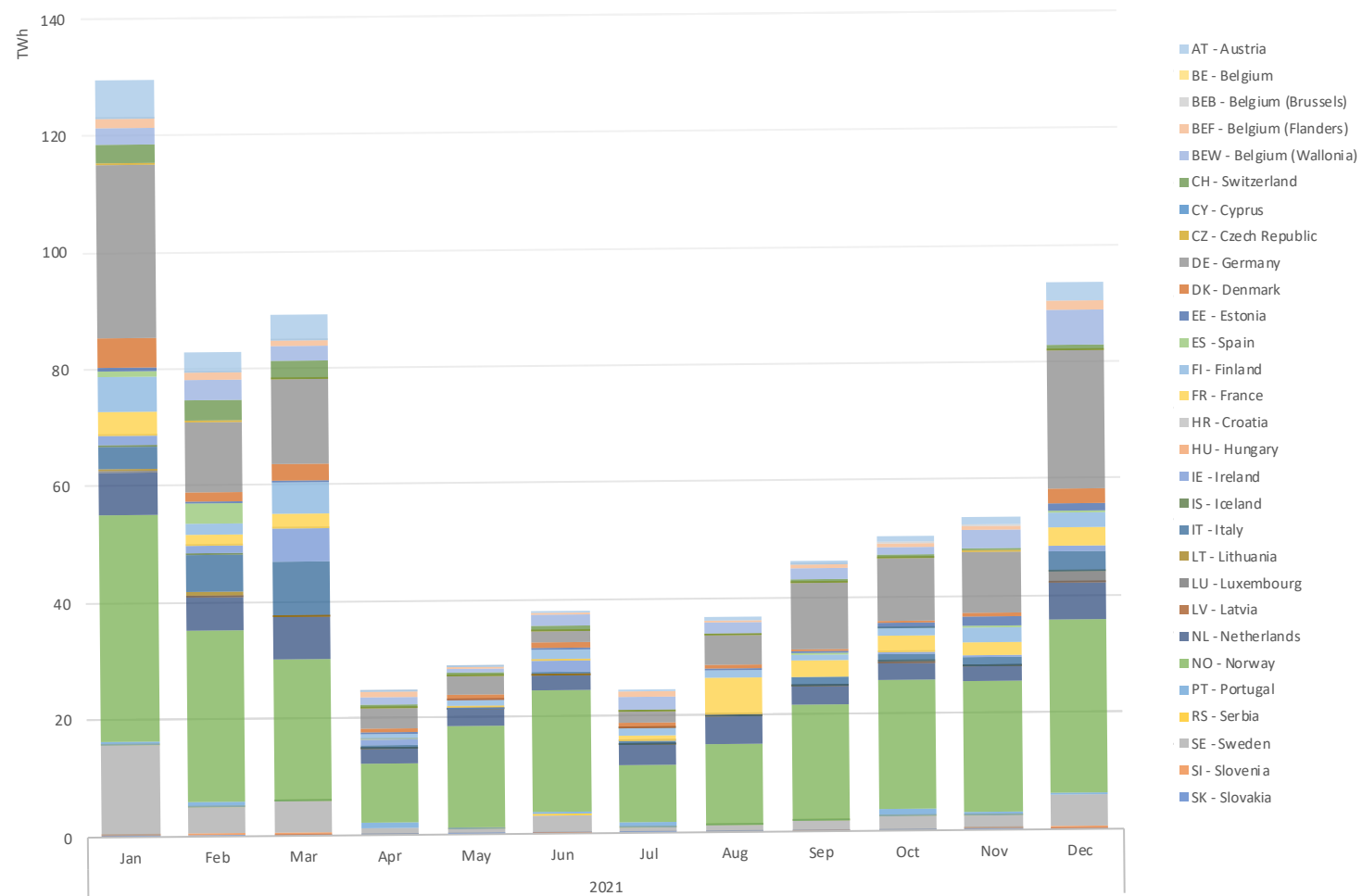


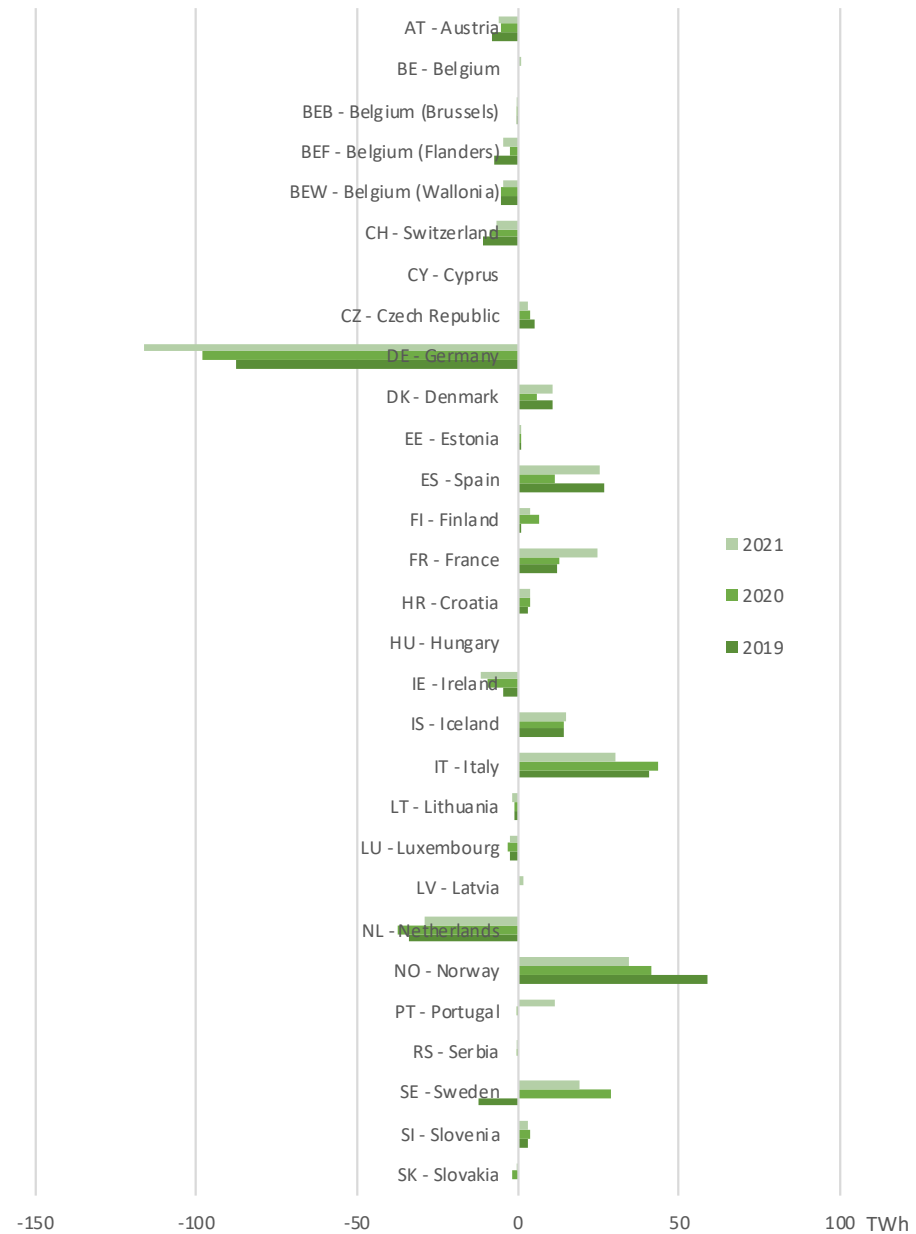
Figure 4 Monthly Imports by Domain 2021



The main importers in 2021 were the Nordics and also Germany and the Netherlands. In terms of nett importers versus net exporters, Germany are still the largest nett importer with Norway being the biggest nett exporter. See figure 5 for further detail.

Figure 5

Nett importers and exporters



ACHIEVEMENTS

Members

By the end of 2021, AIB had **31 members from 27 European countries**. All are Issuing Bodies appointed by their governments to administer a system for Guarantees of Origin (GOs) for electricity and by end 2021, eight of them were also appointed to do so for Gas.

During 2021, AIB welcomed both the **Hungarian** Energy and Public Utility Regulatory Authority (HEA) and the **Montenegrin** Electricity Market Operator, COTEE as members of the Association. The next step for both countries is to complete their application to the EECS Electricity Scheme, allowing them to issue EECS GOs and transfer certificates over the AIB Hub.

Issuing Bodies interested in joining can apply for “Scheme Observer Status” ([see more info](#)): in 2021 we welcomed Operator za OIEiEK **Bosnia and Herzegovina** and the **Bulgarian** Sustainable Energy Development Agency SEDA as Observers. This means that within the EU only Poland, Romania and Malta are not participating in the EECS system of GOs for electricity.

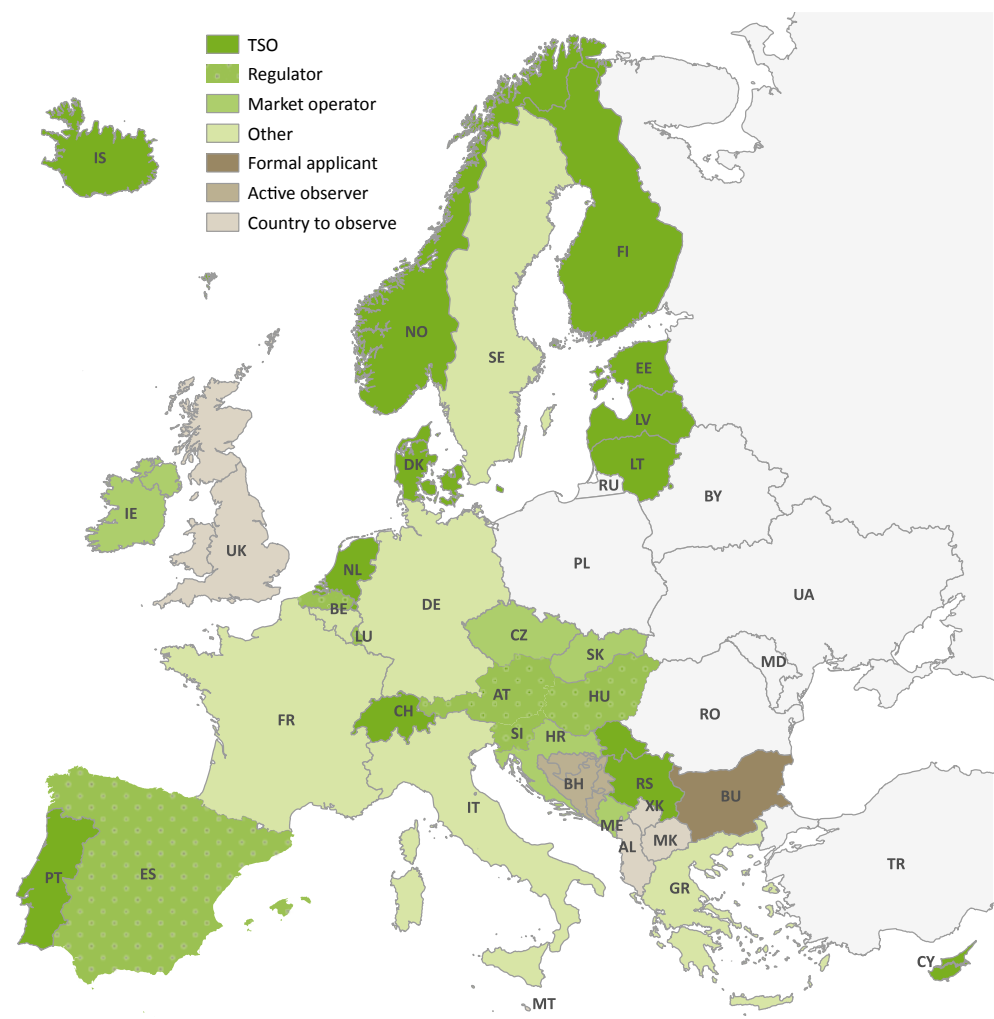
The geographic scope of AIB is limited to the EU, EFTA and Energy Community. **Serbia** is the first contracting party of the **Energy Community** who joined the AIB as a full Electricity Scheme member and more countries will follow, including Montenegro and Bosnia and

Herzegovina. AIB has signed a Memorandum of Understanding with the Secretariat of the Energy Community to assist with the setting up of national GO systems in this region.

AIB also facilitates **certificates for gases**, including biomethane and hydrogen. In 2022, the Gas Scheme will be consolidated with trades going through the Hub. No less than seven existing AIB members have been appointed as Issuing Bodies for gas GOs and the process of joining the AIB Gas Scheme is ongoing or under preparation. At the end of 2021, there is one formal observer, Hincio, who intends to become an Issuing Body for hydrogen GOs. Furthermore, the system of so called “non-governmental certificates” is being revived in order to accommodate Issuing Bodies for energy certificates that are not (yet) qualifying as Guarantees of Origin. This enables to pioneer with certificate products that may later be adopted in legislative frameworks.

AIB guides newcomers through the membership application and assigns them a SPOC (Single Point of Contact).

This map identifies the countries of organisations that were members of the AIB, and countries interested in or actively pursuing membership, as at the end of 2021.



Strategy

New AIB vision

As part of AIB's strategy, the General Meeting approved a **new vision for 2021-2025**. This will serve as a solid roadmap in guiding AIB's decision making and evolutions for the years to come. The new vision is the following:

The production, trade, distribution and consumption of energy can be electronically documented and tracked with Energy Attribute Tracking Certificates (EATs). The EECS® (European Energy Certificate System®) facilitates harmonised handling of EAT Systems, including Guarantees of Origin (GOs) issued under various EU Directives and other compatible national legislations. Such GOs have the function of proving to a final customer the source of the energy they consume. The EECS® framework enables transfers of EECS certificates between account holders within and between countries and regions.

With a main focus on supporting the energy transition for all stakeholders, AIB aims to unite the European Issuing Bodies of energy attribute tracking systems for all energy carriers and technologies, thereby using a decision making structure that respects their varying identities while allowing for continuous evolution. For efficiency in system management, trustworthiness and innovation of such energy attribute tracking systems and reliable energy disclosure, the AIB performs the following activities:

- AIB facilitates European transfers, demonstrating operational excellence in facilitating the IT infrastructure of the GO system,
- AIB strives for harmonisation of rules and practices,
- AIB operates a quality assurance framework,
- AIB establishes cooperation and exchange of expertise with and between Issuing Bodies and Disclosure Bodies, market parties and other stakeholders,
- AIB transparently provides market activity information and expert information.

The new vision will allow the Association in its new organisation structure to move further towards achieving its mission - “guaranteeing the origin of European energy”.

Three strategic roadmaps

Building on the vision, during its last General Meeting of the year, the AIB members have approved **three important strategic roadmaps**, thereby laying the foundation for further work on a robust and reliable European system of energy certification.

First of all, the **AIB Hub** will be rebuilt gradually. Annually, more than 600 million EECS Certificates (corresponding to over 600 TWh of certified electricity) is transferred over the AIB Hub between AIB member registries and this number is constantly growing, as are the peak volumes. As the current Hub will near its end-of-life in a few years, a strategic

roadmap was drafted with input from members and experts. The goal is to keep AIB Hub operations robust and smooth while allowing for new features, if and when members decide to such as improved fraud checks and granular certificates.

Further, a roadmap was approved for AIB's work on **updating the content of the transfer messages** going through the AIB hub. This does not yet define the updated schema but includes a clear mandate for AIB to work on it in the coming year. By doing so, the GO system responds to the ongoing evolutions and AIB members will be ready to implement the EN16325 whenever this comes into force (foreseen at the earliest in 2023). As this impacts information exchanged between all the registries that are connected to the AIB Hub, this requires careful planning and coordination of the implementation by all members.

Finally, the AIB General Meeting has approved the **conversion roadmap**, the continuation to facilitate the import of all EECS Certificates to all Members of an EECS Scheme, upon confirmation of the technical adequacy of the importing EECS registry.

These three strategic priorities form the core of AIB's 2022 Action Plan, which was approved, together with the budget for 2022 by an overwhelming majority of the members, confirming their trust in AIB and our work.

Cooperation

AIB started a cooperation with **ERGaR** with a view to bringing together the certification of renewable gases. AIB strongly advocates bringing the two gas certification schemes as closely together as possible. There are little benefits to the existence of separate schemes in the fight against climate change and on the path towards an integrated energy sector. “If you want to move fast, go alone, if you want to move far, go together!”

On one hand, a series of joint board meetings was held. On the other hand, AIB and ERGaR work closely together towards harmonisation in the REGATRACE project.

Furthermore, AIB's long standing cooperation with **RECS International** continued, although unfortunately the 2021 Open Markets Committee had to be postponed due to the pandemic.

Disclosure platform

On 10 June 2021, AIB kicked off its Disclosure Platform, an informal exchange forum for Issuing Bodies of Guarantees of Origin and Competent Authorities for energy Disclosure in Europe.

Energy Disclosure is the flipside of the coin when talking about Guarantees of Origin. Consumers want to know the origin of their energy. Renewable energy is proven with

Guarantees of Origin and national Competent Authorities supervise such green energy claims for electricity (and hopefully soon, for gases too). However, due to limited harmonisation in European legislation, not all national Competent Authorities for disclosure are also the Issuing Bodies for Guarantees of Origin, this was hindering earlier discussions on the topic within AIB and was the motivation for setting up this platform as part of AIB's new organisation structure (in which certification of other energy carriers is also accommodated).

Experience with electricity disclosure has brought to the surface some challenges and unresolved issues and disclosure of gas and hydrogen or heating/cooling remains uncharted territory so far. There is also a need for sharing experiences and knowledge between mature markets and markets where trust and interest towards disclosure are still under development.

Two meetings of the Disclosure Platform took place in 2021, with an average of 40 participants. Despite the limitations of an online meeting format, there was great interest in the exchange and an obvious need to share best-practice experiences. Topics were discussed in depth such as the harmonisation of the supplier mix calculation, how to improve the transparency of the European residual mixes actual calculation and Guarantees of Origin as a tracking instrument for gas.

Bringing members together in times of pandemic

Another year of the pandemic meant that the AIB was forced to continue its online meetings. Traditionally, the physical meetings of AIB, hosted by one of the members, are not only informative, effective and constructive, but are also known to foster the relationships between our member representatives while connecting with their peers. Obviously, disappointment hit when our Amsterdam General Meeting, which was scheduled for December 3rd, was also cancelled.

However, in order to prevent virtual meeting fatigue hitting us, we stepped up our game throughout the year in order to keep our members connected and involved, for instance by introducing icebreakers or by having members present their team in our General Meeting. Over the past year we also organised four internal, members-only webinars, called “Tea-Time Thursdays”. These webinars focus on a complex or newly evolving issue, such as hourly tracking, auctions of GOs, cogeneration and the potential of the biomethane market. An expert introduces the topic and members can openly voice any questions. The meeting starts and ends with an informal chat amongst attendees. On average 34 participants joined from the 31 AIB members and the webinars had positive reactions. The initiative will continue in 2022 because tea is always a good idea!

REGATRACE

In 2021, AIB continued its contributions in the REGATRACE project, which aims to contribute to a system for issuing and trading biomethane/renewable gases Guarantees of Origin and to the uptake of the biomethane market. It runs from June 2019 to November 2022.

As a consortium partner, AIB leads the work package on the integration of Guarantees of Origin between different energy carriers. Energy tracking throughout an integrated energy sector needs a harmonised approach in all involved countries, to facilitate a trusted and efficient origin tracking system. Particular attention is needed for handling Guarantees of Origin in relation to energy carrier conversion. AIB led the drafting of a REGATRACE Report with recommendations for harmonised rules on handling GOs in relation with energy carrier conversion. Such will strengthen the European market for renewable gas certificates and support Issuing Bodies and Registry Operators for Guarantees of Origin. They establish a common understanding of the practical challenges and recommend pragmatic solutions. These can be taken up further in the ongoing development of rulesets.

Harmonisation is essential for a functional international GO market that facilitates cross-border transfers from nationally governed GO systems.

In March 2021, a report was published on the comparison between the certification systems of AIB, ERGaR and CertifHy.

Regarding handling of GOs for energy carrier conversion, a workshop on the challenges for Issuing Bodies was held in March. The report on harmonised rules for energy carrier conversion was published at [this link](#) end of October 2021.

The REGATRACE Network was launched, which is a network for dialogue between various parties involved in the documentation and cross-border tracking of renewable gases to leverage and synchronise the different developments in Europe. [See here](#) for more background on this network.

The project also published a report on “Guidelines for the verification of cross-sectoral concepts”. This maps verification areas in relation to tracking of energy carrier conversion between electricity, hydrogen, biomethane, bio-LNG and biomethanol along the value chain.

All these reports on integration of GOs for various energy carriers are available [here](#). AIB also intensely contributed in the work package on the development of the European GO for renewable gas.

This project receives funding from the European Union's Horizon 2020 Framework Programme for Research and Innovation under Grant Agreement no. 857796

CertifHY

As announced in December 2020, the CertifHy consortium (of which AIB is a member) was appointed by the Fuel Cell and Hydrogen Joint Undertaking (FCH 2 JU) to lead the CertifHy Phase 3. The main objective of CertifHy Phase 3 is the setup of harmonized Guarantees of Origin schemes for hydrogen across Europe.

CertifHy joined the AIB Gas Scheme Group as an observer. Wouter Vanhoudt, CertifHy Project Leader, was appointed as Chair of the AIB Gas Scheme Group and as a member of the AIB Board. CertifHy and the AIB will use the preliminary research of CertifHy to facilitate the update of the EECS Rules for renewable gases, including hydrogen. The CertifHy scheme will also be updated so that it becomes compliant with the RED II, the CEN EN16325 standard and the EECS rules, to facilitate cross border transfers.

The CertifHY scheme will be piloted in four domains: Flanders, Wallonia, Austria and the Netherlands and the lessons learned will be shared in a specific Working Group established by CertifHy dedicated to Issuing Bodies. Within AIB, the Gas Scheme Group has developed a roadmap for including CertifHy as a Non- Governmental

Certificate Scheme and discussed a multi-purpose architecture for Energy Attribute Certificates. We have also contributed to CertifHY consortium meetings.

EMPACT

The Norwegian Tax Administration lead the Europol project on Missing Trader Intra Community Fraud with GOs. Further participants were tax and law enforcement authorities from Austria, Belgium, Czech Republic, Germany, Spain, the Netherlands, Portugal, and Sweden. The EMPACT project was finalised in June 2021. From AIB's side, both the Secretariat and the members of the Task Force Fraud Prevention contributed. The Eurofisc WFI coordinator is an observer to the project.

The EMPACT project aimed at assessing the current efforts for prevention and detection of MTIC fraud with GOs and developing guidelines to improve it. The final report was delivered on 30 June 2021. The results will be implemented gradually within AIB. The results were presented at the European Commission and Europol. An internal webinar was also held on the topic. A bonus is the steep learning curve resulting from the cooperation and the opportunity it offers to build relationships with law enforcement agencies and tax inspection offices from all over Europe.

AIB's work on revising EN16325

The framework for Guarantees of Origin (GO) is set by the Renewable Energy Directive 2018/2001(EU). The Directive establishes the main design aspects of the GO system: its purpose, the mandate on member states to arrange the issuance of GOs for electricity, gas (including hydrogen) and heating and cooling, and their cross-border transferability. To ensure a reliable set-up, which is essential for trusting imports, the CEN EN16325 standard harmonises principles and essential aspects of the building blocks of this GO system.

In order to make the cross-border transfers efficient when volumes become big, and also to ensure reliable transfers, further details need to be harmonised. The European Energy Certificate System (EECS®) operated by AIB facilitates harmonisation of the details while being adaptable to changing circumstances, in agreement between issuing bodies.

The EN16325 standard for GOs, developed in 2013, has been based on the EECS Rules. Its ongoing revision builds upon the updated EECS Rules, for the principles of certificate administration and scheme-specific rules for different energy carriers. While the EECS Rules will require an update after finalising the EN16215 revision, embedding the full

size of EECS in a CEN standard is not advisable. Indeed, time has proven that continuous developments are needed and that details are subject to dynamic change. AIB has a democratic decision making structure for continuous quality management of services and for the various levels of documentation of EECS, as shown in the graph below. This way, AIB facilitates both efficient and reliable handling of GOs in line with their purpose as set out by legislation.

In addition, EECS facilitates a broader scale of energy certification than just Guarantees of Origin. This enables the development of solutions for upcoming needs in a harmonised way, while in constant dialogue with Issuing Bodies from all over Europe.

AIB – NEW ORGANISATION MODEL

AIB - Officials

The AIB Board is responsible for the day-to-day management of the Association, and meets monthly, usually alternating physical meetings with teleconferences.

In 2021, the AIB Board was composed of three representatives of Units and Scheme Groups. Elke Mohrbach (UBA, Germany) represents the Electricity Scheme Group, Wouter Vanhoudt (Hinicio) joined the Board as representative of the Gas Scheme Group and Annie Desaulniers (SPW Wallonie, Belgium) is the representative of the Information Systems Unit. For now, there is no representative for the External Affairs Unit.

The strategic Board members are:

- Ivar Munch Clausen (Statnett, Norway), Chair;
- Ilona Bruens (CertiQ, Netherlands), Treasurer ;
- Lukas Groebke (Pronovo, Switzerland), Vice Treasurer and Vice Chair.

The Information Systems Unit was chaired by Annie Desaulniers (SPW Wallonie, Belgium). The External Affairs Unit was chaired by Milada Mehinovic (Pronovo, Switzerland). The EECS Unit and Electricity Scheme Group are chaired by Maria Koulouvari (DAPEEP, Greece). Wouter Vanhoudt (Hinicio) chairs the Gas Scheme Group.

A Task Force Statistics was briefly in place in 2021, chaired by Martin Standera (OTE, Czech Republic). Task Force Fraud Prevention was chaired by Morten Hilger (Energinet, Denmark).

AIB is extremely grateful for the contributions of its member representatives, as they form the engine of the Association. We wholeheartedly thank all officials for their involvement.

AIB - Secretariat

The General Meeting, Board, Units and Scheme Groups are supported by the Secretariat; The Secretary General of AIB is Liesbeth Switten. Other staff members include:

- Katrien Verwimp as Chair of the Professional Reviewers' Group and Coordinator Sector Integration. She supports the EECS Unit and both Scheme Groups in strategic and regulatory matters and she represents AIB within CEN. She represents AIB in the REGATRACE and Certify projects.
- Marika Timlin-de Vicente (Grexel, Finland) in Information Systems Unit, and she is also the SuperUser for the AIB Hub.
- Andrea Effinger supports the Secretariat in administrative matters, mostly within the External Affairs Unit, the Chairs' Unit meetings and the Open Market Committee.

- Svenja Vloeberghs supports the Secretariat in financial and administrative matters.

Audits and reviews to check member compliance with the EECS framework are conducted by member representatives, assisted by the professional reviewers:

- Katrien Verwimp (Belgium) (Chair)
- Conall Gallagher (Ireland)
- Christos Toufexis (Cyprus)
- Diane Lescot (Observ'ER, France)
- Emma Kelly (Ireland)
- Pierre-Yves Cornelis (Belgium).

Each of the professional reviewers has, during their career, worked with a member and has in-depth knowledge of EECS. Given the growth of the Association, the AIB is constantly looking for new professional reviewers to join the pool.

INFORMATION SYSTEMS UNIT



Information Systems Unit

Chaired by Annie
Desaulniers of Service
Public de Wallonie,
Belgium-Wallonia.

The Information Systems Unit (ISU), formerly Working Group Systems (WGS), advises the AIB Scheme and Units on the AIB certificate transfer system, recommends change requests, and follows up on decisions made in this framework. In 2021 Annie Desaulniers (SPW) held the role of Chair and Board representative for the ISU.

The ISU's main task is to supervise and further develop the AIB Hub which facilitates transfers of certificates between AIB member registries and ensures the quality of the registries with regular technical auditing. In 2021 technical audits were approved for six AIB registries. The technical audit template was also updated.

Further, the ISU actively contributed in drafting the AIB Hub strategy roadmap, which was approved at the last General Meeting of 2021 (see "achievements"). In this respect a survey to all members was drafted to capture members' needs and expectations regarding international certificate transfers.

The Unit did not organize in-person meetings given the pandemic, but there were 13 teleconferences during 2021. The concept of a monthly meeting was kept in order to follow up smoothly on topics.

In the daily operations the work of the Technical Support Users, Drahoslav Stejskal and Ondřej Foral, is much appreciated. The AIB Hub SuperUser role remains as a business specialist, auditor and second line. The SuperUser role is still held by the experienced Marika Timlin-de Vicente from Grexel Systems Ltd. Her work on the statistics improvement is invaluable to AIB.

The challenges on the horizon are to renew the AIB Hub and further develop the Scheme to accommodate new energy carriers (which stems from the RED II directive coming into force), improving statistics and to improve fraud detection.

The ISU acknowledges and thanks all members who contributed to the work of the group in 2021 and welcomes new members to join to the group!

EXTERNAL AFFAIRS UNIT



External Affairs Unit
(Provision of information
and recruitment of new
EECS members)
Chaired by Milada
Mehinovic of Pronovo,
Switzerland

The External Affairs Unit (EAU) has a significant role in the organisation, as a promotor of AIB's activities, member onboarding and internal communication.

With regard to communication with the outside world, the EAU is responsible for all types of publications such as the AIB website, press information, newsletters and annual reports as well as an up-to-date presence on social media such as LinkedIn and Twitter.

The support of new EECS members (for all scheme groups) is an integrated part of the activity of the AIB, this valuable work is carried out within the EAU. The Single Point of Contact (SPOC) service allows new members, especially in their first year of membership, to speak to a single, dedicated person within the AIB. Further, the continuous updating of the AIB website allows new members to make use of reliable information finding it in an efficient way.

Communication with stakeholders is essential for the promotion of the organisation. AIB newsletters are published every second month and sent directly via email to over 1000 subscribers. In addition, we published documents and reports for our target audience in order to update them on AIB developments, latest news on AIB members and GO-related news.

In relation to social media being an essential instrument in the world of communication with the external world, at the end of 2021 AIB had 1562 followers on LinkedIn, compared to 1300 at the end of 2020. LinkedIn updates, done every few weeks, generally receive 1200 impressions with an average of around 20 likes.

As part of an active and dedicated field of organisations, companies, and energy market analysts, we are grateful for increased collaboration through events in the energy sector like the Open Markets Committee and we have actively participated in conferences, workshops, webinars and round tables organised by and together with: the Florence School of Regulation, CEER, EU Citizens' Energy Forum, the Energy Community Secretariat, GreenPowerGlobal, CEN, ENTSOG, World Business Council, RECS Market Meeting, the European Sustainable Energy Week, Greenfact etc.

With the expansion of the AIB with new members, the number of active members in the unit is constantly growing. Last year our unit was expanded by four new colleagues: Anca Visser (CertiQ, Issuing Body of the Netherlands), Miguel Jéronimo (REN, Issuing Body of Portugal), Pedro Rodrigues (REN, Issuing Body of Portugal) and Branislav Banovic (COTEE - Montenegrin electricity Market Operator).

Due to a new orientation within their own companies, we said goodbye to Mieke Langie (VREG, Issuing Body of Belgium, Flanders) and Anca Visser (CertiQ, Issuing Body of the Netherlands). We would like to thank them for their commitment in fulfilling the tasks within the EAU.

We thank the active members of the Unit:

Dubravka Brkic (HROTE, Issuing Body of Croatia),
Friederike Domke (UBA, Issuing Body of Germany),
Branislav Banovic (COTEE - Montenegrin electricity Market Operator), **Miguel Jéronimo and Pedro Rodrigues** (REN, Issuing Body of Portugal), **Milada Mehinovic** (Pronovo, Issuing Body of Switzerland) and AIB's Assistant to the Secretariat, **Andrea Effinger**.

EECS UNIT AND ELECTRICITY SCHEME GROUP



EECS Unit
(Internal regulation of the Association, and administration and development of the EECS standard), chaired by Maria Koulouvari of DAPEEP, Greece

Despite the pandemic restrictions which prevented us from meeting in person, or because of these unprecedented conditions, which left us deprived of social interaction, our joint efforts during 2021 provided us with valuable time to spend on our duties and led to amazing results.

In 2021 the EECS Unit members worked effectively together on upgrading and extending the Energy Attribute Certificate System, to encompass gas in addition to electricity, storage along with production units, and independently operated certification schemes in addition to labels, all under the unique umbrella of the EECS Rules.

Mandated by the AIB board and receiving valuable support from the recently reorganized AIB Secretariat, the EECS Unit adapted the EECS rules to the developments, as they are being outlined by the ongoing standardization process conducted by CEN CENELEC. Market developments that were brought to light for information and discussion purposes were also taken into consideration during the decision making process of the Unit.

During this evolutionary procedure, our main concern was to provide all members with adequate time and space to allow their effective contribution in the form of proposals, opinions and amendments to the envisaged modifications. This collective endeavor was mostly followed by unanimous decisions, in cases where this was not possible, a consensus was reached.

The outcome of this constructive year 2021 is the joint agreement to develop in 2022 a new enhanced version of the EECS Rules, with an update of the data contained on EECS Certificates, as well as the upgrade of the AIB HubCom, with the latter to be subsequently implemented under the supervision of the Information Systems Unit.

The template for Domain Protocols was updated to facilitate the inclusion of gas certificates and have a better overview of different certificate types issued by the relevant issuing body.

Electricity Scheme Group

Chaired by Maria Koulouvari of DAPEEP, Greece

In 2021, the Electricity Scheme Group approved Litgrid as a full member. Litgrid is the appointed Issuing Body of the Lithuanian Domain.

During this year, the Group closely followed the development of the EN16325 standard by CEN CENELEC and contributed by submitting opinions.

In addition, a considerable effort was put in place for the update of the auditing and reviewing procedure of Members, as this constitutes a cornerstone of the quality assurance provided by the Association.

The Electricity Scheme Group is represented on the AIB Board by Elke Mohrbach of UBA, Germany.

GAS SCHEME GROUP



Gas Scheme Group
(Development and implementation of the regulations surrounding the gas-specific part of the EECS Rules), chaired by Wouter Vanhoudt of Hinicio Europe

The AIB Gas Scheme Group held eight meetings in 2021, attended by existing AIB members and some observers, all of whom are appointed or being appointed as Issuing Bodies for Gas GOs. By the end of 2021, at least nine AIB members had been nationally appointed as Issuing Bodies for Gas GOs and several more were expecting a mandate soon.

AIB is preparing to onboard the first Gas Scheme members in 2022 and therefore a lot of development work is ongoing.

First of all, the EECS Rules were further adapted, as well as the Joiners' Brochure and the Domain Protocol template.

The Scheme Group also monitored the needs of Issuing Bodies by a regular tour de table with a status update on specific national situations regarding gas certificates. It also held surveys on the Hub strategy survey, future functionalities and on how far members were with their local implementations of gas GOs.

Naturally, the work in CEN was followed-up with an active contribution to progress towards a revised EN16325,

whereby we collected member views, discussed the impact and integrated intermediate CEN expert group conclusions in the EECS Gas Scheme.

The work within CertifHY and REGATRACE is described under "Achievements" and obviously the Gas Scheme Group played a vital role in these contributions.

Furthermore, the Gas Scheme Group put in quite some effort to further position the EECS Gas Scheme outside of AIB. The development of the Union Database for biofuels and possible interference with AIB hub or IB registries was carefully followed up with DG Energy. We participated in the Entsog Prime Movers' group for Gas GOs. The Gas Scheme Group fed the joint Board Meetings between AIB and ERGaR with relevant content. In October 2021, AIB led an event in the EUSEW extended programme on Gas Consumers fuelling the energy transition and presentations were delivered at relevant Events (including ACER-CEER-Verbund-Workshop on H2 GO, presentations at EFET, Greenfact webinars on how EECS certifies the origin of Gases, FCH-JU Hydrogen Certification etc.).

FINANCIAL YEAR 2021

1 Summary

The entire bookkeeping process has been done according to the financial reporting framework applicable in Belgium.

The annual accounts, the report of the auditor and the budget versus expenditure consolidates the book of accounts for the period of 1 January to 31 December 2021.

The position at KBC Bank relates to the amount of cash held in the bank at the end of the financial year.

2 Annual Accounts

The annual accounts contain the balance sheet after appropriation, the income statement, the appropriation account and the explanatory disclosure. The annual accounts provide a comparison between the current period (2021) and the preceding period (2020).

The total gain of 2021 available for appropriation is 373 399,18 €.

3 Financial Audit

The conclusion of the auditor is that based on their review, nothing has come to their attention that causes them to believe that the financial statements do not present fairly, in all material respects, the financial position on 31 December 2021, and its financial performance for the year then ended, in accordance with the financial reporting framework applicable in Belgium.

4 KBC Bank

On 31 December 2021, the bank balance was 803 340,09 €.

Part of this balance is reserved for projects, specifically 80 868,11 € for the REGATRACE project and 83 100,08 € for the CertifHy project and therefore should not be considered available cash.

Please also note that the outstanding invoices at the end of the financial year (345 204,82 €) and the outstanding purchases (82 413,83 €) are not taken into account in this bank balance.

At the end of 2021, the bank balance was 363 396,87 €.

As a rule of thumb, AIB strives to hold 500 000,- € as a bank reserve.

5 Budget versus Expenditure 2021

Important note: because the depreciations and other corrections are not calculated in this detailed overview of all costs, specified per Unit, the 'budget versus expenditure' deviates from the amounts that are stated in the annual account. The 'budget versus expenditure' shows (i) the forecasted budget, (ii) the actual income and (iii) the actual costs.

5.1 General overview

5.1.1 General overview including Projects

	Budget 2021	Costs/Income 2021	Balance 2021
Costs	-€ 1.353.820,00	-€ 1.020.711,75	€ 333.108,25
EAU	-€ 44.900,00	-€ 28.787,30	€ 16.112,70
EECSU	-€ 246.000,00	-€ 199.216,84	€ 46.783,16
General	-€ 450.200,00	-€ 441.265,42	€ 8.934,58
ISU	-€ 454.140,00	-€ 311.498,48	€ 142.641,52
Projects	-€ 158.580,00	-€ 39.943,72	€ 118.636,28
Income	€ 1.384.580,00	€ 1.559.619,75	€ 175.039,75
Total	€ 30.760,00	€ 538.908,00	€ 508.148,00

5.1.2 General overview excluding Projects

	Budget 2021	Costs/Income 2021	Balance 2021
Costs	-€ 1.195.240,00	-€ 980.768,03	€ 214.471,97
EAU	-€ 44.900,00	-€ 28.787,30	€ 16.112,70
EECSU	-€ 246.000,00	-€ 199.216,84	€ 46.783,16
General	-€ 450.200,00	-€ 441.265,42	€ 8.934,58
ISU	-€ 454.140,00	-€ 311.498,48	€ 142.641,52
Income	€ 1.226.000,00	€ 1.353.645,35	€ 127.645,35
Total	€ 30.760,00	€ 372.877,32	€ 342.117,32

5.2 Detailed overview Projects

	Budget 2021	Costs/Income 2021	Balance 2021
Costs	-€ 158.580,00	-€ 39.943,72	€ 118.636,28
CertifHy	-€ 76.580,00	-€ 22.047,42	€ 54.532,58
Regatrace	-€ 82.000,00	-€ 17.896,30	€ 64.103,70
Income	€ 158.580,00	€ 205.974,40	€ 47.394,40
CertifHy	€ 76.580,00	€ 107.210,00	€ 30.630,00
Regatrace	€ 82.000,00	€ 98.764,40	€ 16.764,40
Total	€ 0,00	€ 166.030,68	€ 166.030,68

5.3 Detailed Income

	Budget 2021	Income 2021	Balance 2021
Income	€ 1.384.580,00	€ 1.559.619,75	€ 175.039,75
Projects	€ 158.580,00	€ 205.974,40	€ 47.394,40
CertifHy	€ 76.580,00	€ 107.210,00	€ 30.630,00
Regatrace	€ 82.000,00	€ 98.764,40	€ 16.764,40
Membership Fees	€ 1.203.000,00	€ 1.317.500,00	€ 114.500,00
Small/Observer	€ 44.000,00	€ 55.000,00	€ 11.000,00
Medium	€ 165.000,00	€ 159.500,00	-€ 5.500,00
Large	€ 994.000,00	€ 1.103.000,00	€ 109.000,00
Recoverable Costs	€ 23.000,00	€ 36.145,35	€ 13.145,35
Insurance Members	€ 23.000,00	€ 34.564,48	€ 11.564,48
Other (postage, ...)	€ 0,00	€ 1.580,87	€ 1.580,87
Total	€ 1.384.580,00	€ 1.559.619,75	€ 175.039,75

5.4 Detailed costs per Unit

5.4.1 EAU

	Budget 2021	Costs 2021	Balance 2021
Costs EAU	-€ 44.900,00	-€ 28.787,30	€ 16.112,70
Annual Report	-€ 7.900,00	-€ 9.033,75	-€ 1.133,75
AR printing	-€ 2.200,00	-€ 3.046,72	-€ 846,72
Design of cover for Annual Report	-€ 1.200,00	-€ 1.567,50	-€ 367,50
Layout of Annual Report	-€ 3.500,00	-€ 3.240,00	€ 260,00
Proof-reader	-€ 1.000,00	-€ 1.179,53	-€ 179,53
Newsletter	-€ 1.000,00	-€ 1.429,75	-€ 429,75
Layout of newsletter	-€ 500,00	-€ 1.306,90	-€ 806,90
Proofreading	-€ 500,00	-€ 122,85	€ 377,15
Website	-€ 23.000,00	-€ 17.658,46	€ 5.341,54
Hosting and maintenance	-€ 13.000,00	-€ 13.850,46	-€ 850,46
Preferred software enhancements	-€ 2.000,00	€ 0,00	€ 2.000,00
Required software enhancements	-€ 3.000,00	-€ 3.600,00	-€ 600,00
Website: training (new staff)	-€ 5.000,00	-€ 208,00	€ 4.792,00
Trademark	-€ 13.000,00	-€ 665,34	€ 12.334,66
Total	-€ 44.900,00	-€ 28.787,30	€ 16.112,70

5.4.2 EECSU

	Budget 2021	Costs 2021	Balance 2021
Costs EECSU	-€ 246.000,00	-€ 199.216,84	€ 46.783,16
CEN (EN16325)	-€ 35.000,00	-€ 30.433,13	€ 4.566,87
Legal and regulatory support	-€ 33.000,00	-€ 26.712,32	€ 6.287,68
Professional Reviewers Group	-€ 5.000,00	-€ 9.252,48	-€ 4.252,48
Technical support	-€ 100.000,00	-€ 89.707,74	€ 10.292,26
Travel and accommodation	-€ 21.000,00	€ 0,00	€ 21.000,00
DP Reviews and Audits	-€ 52.000,00	-€ 43.111,18	€ 8.888,82
Total	-€ 246.000,00	-€ 199.216,84	€ 46.783,16

5.4.3 General

	Budget 2021	Costs 2021	Balance 2021
Costs General	-€ 450.200,00	-€ 441.265,42	€ 8.934,58
Bank Charges	-€ 2.500,00	-€ 3.874,79	-€ 1.374,79
Corporate & Legal Advice	-€ 65.000,00	-€ 60.318,95	€ 4.681,05
Events	-€ 10.000,00	-€ 1.154,43	€ 8.845,57
General Secretariat	-€ 277.000,00	-€ 270.021,54	€ 6.978,46
Other Expenses	-€ 95.700,00	-€ 79.395,70	€ 16.304,30
Accounting	-€ 6.000,00	-€ 5.121,15	€ 878,85
Insurance (allowance)	-€ 27.000,00	-€ 37.306,26	-€ 10.306,26
Meeting accommodation	-€ 12.000,00	-€ 4.461,75	€ 7.538,25
Offices	-€ 20.000,00	-€ 17.007,51	€ 2.992,49
Sundries	-€ 3.000,00	-€ 1.156,51	€ 1.843,49
Travel and accommodation	-€ 14.000,00	-€ 1.026,40	€ 12.973,60
IT	-€ 8.700,00	-€ 8.916,12	-€ 216,12
Financial audit	-€ 5.000,00	-€ 4.400,00	€ 600,00
Residual Mix Calculation	€ 0,00	-€ 26.500,00	-€ 26.500,00
Total	-€ 450.200,00	-€ 441.265,42	€ 8.934,58

5.4.4 ISU

	Budget 2021	Costs 2021	Balance 2021
Costs ISU	-€ 454.140,00	-€ 311.498,48	€ 142.641,52
Contract management	-€ 11.040,00	-€ 12.600,00	-€ 1.560,00
Hosting and support	-€ 73.000,00	-€ 62.090,29	€ 10.909,71
I - Hub re-tender	€ 0,00	€ 0,00	€ 0,00
ISC - Implementation of EN16325	-€ 90.000,00	€ 0,00	€ 90.000,00
ISC - Java upgrade to higher version (not included in technical update)	-€ 55.000,00	€ 0,00	€ 55.000,00
ISC - Technical audit automation	-€ 40.000,00	-€ 40.000,00	€ 0,00
SC - Contractual Budget Change Request (monthly sprints)	-€ 50.000,00	-€ 44.409,00	€ 5.591,00
SC - Contractual Major libraries/ technical update	-€ 18.000,00	-€ 18.000,00	€ 0,00
Secretary	-€ 18.000,00	-€ 27.174,00	-€ 9.174,00
Super User operational	-€ 18.000,00	-€ 39.240,00	-€ 21.240,00
Super User Technical audit	-€ 24.000,00	-€ 15.210,00	€ 8.790,00
Technical support user	-€ 48.000,00	-€ 38.303,00	€ 9.697,00
ISC - Statistics module (webservice)	-€ 9.100,00	-€ 14.472,19	-€ 5.372,19
Total	-€ 454.140,00	-€ 311.498,48	€ 142.641,52

REPORTS FROM MEMBERS/ FROM OBSERVERS



Hereafter you will find the annual update on each AIB member, summarising any major events of 2021 and their expectations for 2022.

AIB's member base is growing. In early 2021, the Hungarian Energy Agency (MEKH) and the Montenegrin Electricity Market Operator were approved as AIB members. In the meantime, MEKH have acquired full Electricity Scheme membership. Furthermore, SEDA in Bulgaria has been admitted as observer. A Memorandum of Understanding has been concluded with the secretariat of the Energy Community.

This Annual Report does not include all European countries AIB is in contact with, but reflects on their different rates of progress along the route to membership.

The scope of national participation in EECS shows the degree to which EECS is implemented in that country, according to the best available statistics.



Name of the company
E-Control

Area of operation
Austria

Address
Rudolfplatz 13A
1010 Vienna
Austria

www.e-control.at

REPORT FROM MEMBER

Profile of the organisation

E-Control is the Austrian Energy Regulator.

Role

Competent Authority for electricity Guarantees of Origin for all types of resources, Competent Authority for gas and hydrogen Guarantees of Origin. Competent Authority for electricity and gas source disclosure in Austria.

Member of the AIB

E-Control joined the AIB in the summer of 2001. From 2008, Angela Tschernutter was an active member of the AIB, she was vice chair of the Board and from December 2016 to December 2020 chaired the Board of AIB. In 2021 Viola Neubauer focused on the implementation of the gas scheme.

Activities within the AIB

Member of EECSU, ESG and GSG.

“Energy consumers need trust in GOs. Through the EECS standard and member audits as well as reliability checks, the AIB supports this trust.”

News and perspectives regarding the national IB

E-Control's day-to-day business includes dealing with around 140,000 plants that generate electricity from renewable and fossil sources. All production leads to the issuance of GOs via the Austrian disclosure database through highly automated processes. The processes and database are being continuously improved. In 2020, the database was extended to gas GOs and E-Control became the official Issuing Body for gas GOs in Austria.

News and perspectives regarding the national framework for energy tracking certificates

The display of electricity source disclosure statements will change as of 2023 and will include a primary and a secondary display. On electricity bills, suppliers are obliged to display a primary disclosure statement which includes the technology, the country of origin of the GOs and the percentage of bundled electricity and GOs.

The secondary disclosure statement includes the full information of technologies of GOs and environmental aspects and is published on suppliers' websites and can, in addition, be made available per order in a print version per postal mail.

The gas disclosure ordinance from 2020 allows suppliers display a voluntary gas disclosure statement on their bills. With the implementation of the Renewable Energy Expansion act in 2021, disclosure for gas becomes mandatory in 2023.

Benefits to the company of AIB membership

The coordinated work on a European level enables a lot of efficiency for us and all members. The implementation of a gas scheme in AIB, the Sector Integration Programme and the strong involvement of AIB in CEN-EN 16325 is especially of high value.

AIB unites decision makers, Issuing Bodies and organisations responsible for energy source disclosure within the Association. The mutual learning factor and the enjoyment of working with highly qualified people from different nationalities greatly contributes to positive outcomes.

Energy consumers need trust in GOs. Through the EECS standard and member audits as well as reliability checks, the AIB supports this trust. Specifically, the implementation of a standardised gas GO system and sector coupling is seen as core work for AIB. We are happy being part of AIB which allows a lot of efficiency and exchange between experts.

Dr. Harald Proidl, Head of Renewables and Energy Efficiency Department

Scope of national participation in EECS

Number of registered scheme participants	58
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
132 189	23 214

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
PV	127 982	1 843
Hydro	3 497	17 713
Wind	710	3 658

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
33 853	38 397



LE REGULATEUR BRUXELLOIS POUR L'ÉNERGIE
DE BRUSSELS REGULATOR VOOR ENERGIE

Name of the company
BRUGEL

Area of operation
Belgium (Brussels)

Address
Avenue des Arts 46
1000 Brussels
Belgium

www.brugel.brussels

REPORT FROM MEMBER

Profile of the organisation

BRUGEL is the Brussels regulatory authority for electricity, gas and water price control.

Role

BRUGEL provides, collaboratively and independently, regulatory, analytical and forward-looking expertise to make strategic proposals, issue recommendations on market dynamics and propose and apply tariff models for an efficient and socially-just energy transition.

Concerning renewable energy, BRUGEL's mission revolves around three main areas: production incentives, integration of renewable energy into the grid and the market and information on the origin of green electricity.

For this last information mission, BRUGEL has developed an online tool, Greencheck (<https://greencheck.brugel.be>), to help Brussels consumers to check the green percentage declared by their electricity supplier. The application also shows if the electricity supplier has cancelled the required number of Guarantees of Origin to cover the client's consumption and allows this client to identify the source of green energy provided and its geographical origin.

“Being part of the AIB allows us to actively follow the work on extending Guarantees of Origin to other energy carriers, such as biogas, hydrogen and heat and cooling. A must for the future and the promotion of renewable electricity consumption.”

Member of the AIB

BRUGEL has been a member of the AIB since 2008.

Activities within the AIB

- Representatives at the General Meeting, EECSU, ESG, GSG:
Laura Rebreanu, Régis Lambert
- Representative at the ISU: Attila Acs

News and perspectives regarding the national IB

BRUGEL will likely be appointed as the Issuing Body for gas, heating and cooling Guarantees of Origin in 2022. Given this perspective, BRUGEL has joined the Gas Scheme Group as an observer.

News and perspectives regarding the national framework for energy tracking certificates

There is an increasing interest in Guarantees of Origin both from consumers and producers. While Brussels has long had only one installation receiving GOs – the regional waste incinerator – BRUGEL has received several demands from producers, including from smaller facilities. We are currently working with the regional grid operator on adapting our IT systems to start issuing GOs for new installations.

BRUGEL continues to be closely involved in the REDII implementation process in the regional legal framework and will continue this work in 2022. Furthermore, as the Brussels government has been preparing the necessary legislation to implement gas GOs and heating and cooling GOs, BRUGEL has fulfilled its role as an advisory body and issued several notes regarding the ongoing legal modifications. This work and involvement will continue in 2022.

Benefits to the company of AIB membership

The AIB facilitates the exchange of GOs among market players while ensuring high-quality common standards through its checks and audits of all members and Domains. Thanks to its membership, BRUGEL can respect the European legislation regarding electricity source disclosure efficiently and inform Brussels consumers on the origin of the electricity they consume. They can, therefore, make informed decisions on their choice of a supplier and the type of electricity they want to use, which, we hope, will increase the demand for green energy.

The AIB also unites various organisations from numerous European countries, and it is a great platform to exchange information, ideas and good practices.

Régis Lambert, Deputy Director :

“Being part of the AIB allows us to actively follow the work on extending Guarantees of Origin to other energy carriers, such as biogas, hydrogen and heat and cooling. A must for the future and the promotion of renewable electricity consumption.”

Scope of national participation in EECS

Number of registered scheme participants	27
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
1	51

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Incineration of municipal waste	1	51

Certified EECS production as compared to national RES production (GWh)

EECS RES production*	Regional RES production*
99,157	258,437

* The numbers are only for the Brussels Region.



Name of the company
VREG

Area of operation
Belgium (Flanders)

Address
Seven, 9de verdieping,
Koning Albert II-laan 7,
1210 Sint-Joost-ten-Node
Belgium

www.vreg.be

REPORT FROM MEMBER

Profile of the organisation

Electricity, Gas and District Heating Regulator

Role

Competent Authority and Issuing Body for Guarantees of Origin,
Competent Body for disclosure scheme and providing disclosure
information.

Member of the AIB

Member of the AIB since 2006.

Activities within the AIB

- GM: Pieterjan Renier
- GSG: Bram van der Heijde
- ESG, EAU en EECS Unit: Jana Vynckier
- ISU: Karolien Verhaegen

“For VREG, AIB membership is first and foremost a question of trust in the system of GOs and efficiency. Energy consumers need to be able to trust GOs and Issuing Bodies need to avoid double counting at all costs.”

News and perspectives regarding the national IB

No substantial changes in 2021.

News and perspectives regarding the national framework for energy tracking certificates

No substantial changes in 2021.

Benefits to the company of AIB membership

For VREG, AIB membership is first and foremost a question of trust in the system of GOs and efficiency. Energy consumers need to be able to trust GOs and Issuing Bodies need to avoid double counting at all costs. The assurance brought by the reliability checks and audits that AIB does on all connected Domains, provides for an important saving of resources at the level of the national Issuing Bodies. Being able to transfer GOs over a single connection to the AIB Hub is also much more efficient than having to set up bilateral agreements.

Additional information

We are looking forward to seeing even more efficiency improvements in the AIB hub with the update of HUBCOM to v80 and beyond. We believe there are some important steps to take in dealing with cancellation challenges, technical upgrades, and detecting VAT fraud.

Scope of national participation in EECS

Number of registered scheme participants	141
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
624 560	7 626,068

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Biogas	203	248,956
Biomass	54	696,421
Hydropower	16	4,182
Wind	530	2 427,599
Solar PV devices > 10kW	9 446	1 614,14
Solar PV devices < 10 kW (non-EECS)	614 311	2 634,77

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
6 053,787	*

* Data not yet available for 2021



Name of the company
Service Public de Wallonie

Area of operation
Belgium (Wallonia)

Address
Rue des Brigades d'Irlande 1
5100 Namur
Wallonia, Belgium

energie.wallonie.be

REPORT FROM MEMBER

Profile of the organisation

Walloon Administration, Department of Energy

Role

Competent Authority for issuing of renewables (EECS GO), CHP Electricity and Gas Guarantees of Origin, operator of the Green Certificate database in Wallonia.

Member of the AIB

The Region of Wallonia is member of the AIB since 2007 (CWaPE), followed by SPW who is a member since 2019.

“To work on promoting green energy production by improving the trade of Guarantees of Origin at an international level and exchanging good practices at European level.”

Activities within the AIB

- Representatives at the General Meeting:
Muriel Hoogstoel and Annie Desaulniers
- Representative and chair of the Information Systems Unit:
Annie Desaulniers

News and perspectives regarding the national IB

The first biomethane injection into the Gas network in Wallonia started in October 2020, leading to the first issuance of biomethane GOs in 2021. The biomethane GOs may be purchased only by electricity producers eligible for the Walloon Green Certificate scheme. The lower carbon dioxide emission values of the cancelled biomethane GOs increase the number of Green Certificates being issued for a cogeneration plant.

An upgrade to the registry system and the website was done in November 2021, making the website user friendly and providing a better performance.

Benefits to the company of AIB membership

To work on promoting green energy production by improving the trade of Guarantees of Origin at an international level and exchanging good practices at European level.

Scope of national participation in EECS

Number of registered scheme participants	1 688
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
2 887	1 872

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Biomass (Total)	14	17
among which bio-HEC	58	186
Wind	141	1 113
Hydro	45	61
Solar	2 480	366
HEC Natural Gas	149	129

Certified EECS production as compared to regional RES production (GWh)

EECS RES production	Regional RES production
3 256	4 420

— CREG —

Name of the company
CREG

Area of operation
Belgium (Federal)

Address
Nijverheidsstraat 26
Brussels
Belgium

www.creg.be

REPORT FROM MEMBER

Profile of the organisation

CREG has been the Regulator of the Belgian electricity and gas markets since 1999. It is an independent body answerable to the Federal parliament.

Role

CREG is entrusted with the task of issuing Guarantees of Origin for renewable electricity produced in the Belgian sea area and managing the corresponding registry. The CREG registry has been fully operational since 2015 and is comprised of all offshore wind producers in Belgium. Disclosure and residual mix calculation are not within CREG's legal remit.

“The Association is also an ideal platform for continuously sharing experience and exchanging best practices.”

Member of the AIB

Member of the AIB since 2015.

Activities within the AIB

During 2021, CREG was represented at the AIB General Meetings by Philip Godderis. The Gas Scheme Group and the EECS Unit are followed by Yves Poncelet.

News and perspectives regarding the national IB

2021 was the first full year in which the 2,266 MW of Belgian offshore wind capacity was operational. A new area, the Princess Elizabeth Zone, is being prepared for tendering and the concomittant extension of the Modular Offshore Grid is being planned.

News and perspectives regarding the national framework for energy tracking certificates

The regulatory framework regarding Guarantees of Origin is stable. Regarding hydrogen; the Federal H₂ Strategy was published for consultation on 29 October 2021. In its study (F)2291, CREG recommended the adoption of a regulatory framework for H₂ transmission in an early phase.

Benefits to the company of AIB membership

For CREG, the primary benefit of AIB membership is to facilitate the export of Belgian offshore wind GOs across Europe. AIB's harmonized standard ensures a high level of reliability. The Association is also an ideal platform for continuously sharing experience and exchanging best practices.

Scope of national participation in EECS

Number of registered scheme participants	10
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
9	2 266

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Offshore Wind	9	2 266

Certified EECS production as compared to regional RES production (GWh)

EECS RES production	Regional RES production
6 770 950	6 770 950



Name of the company
CROATIAN ENERGY MARKET
OPERATOR (HROTE)

Area of operation
Croatia

Address
Ulica grada Vukovara 284
10 000 Zagreb
Croatia

www.hrote.hr

“On 28 August 1895 electricity generated at this location was transmitted to the city of Šibenik, where six power transformers supplied a large number of street lamps. This early system of power generation, transmission and distribution was one of the first complete multiphase alternating current systems in the world and it remained in operation until World War I.”

REPORT FROM MEMBER

Profile of the organisation

HROTE was established in 2005 as the state-owned company which performs the activities necessary to organise the electricity and gas markets as a public service under the supervision of the Croatian Energy Regulatory Agency.

HROTE controls the system of financial incentives for renewable energy sources and high efficient cogeneration under the supervision of the Ministry.

Role

The Regulation establishing the system of Guarantees of Origin of electricity was passed in July 2013.

The Regulation determines the rules of electricity Guarantees of Origin for the purpose of certification of electricity produced by plants in the Republic of Croatia, in accordance with the Energy Act.

In accordance with the Regulation, HROTE performs the role of the Competent Body (in accordance with the RED) and is the Issuing Body for the Domain.

“Even though we have not had physical meetings for two years which mean a lot for cooperation and catching up with colleagues from other domains, ...”

Member of the AIB

HROTE became an AIB member with conditional status in May 2014. All terms on disclosure rules were fulfilled and the unconditional status in the membership was approved in November 2014.

Activities within the AIB

- Dubravka Brkić contributes to the EAU as a member.
- Ida Žužić contributes to the ESG as a member.

News and perspectives regarding the national IB

During 2021, HROTE issued Guarantees of Origin for electricity for some eligible producers in the incentive system, sold through the

EKO balance group to the electricity market, which were then sold on the market through auctions through the CROPEX IT auction platform. Following the conclusion of the auction and successful sale of the Guarantees of Origin, the collected funds were transferred to the incentive system fund, while the Guarantees of Origin that were sold at the auctions were transferred to the accounts of the auction participants who successfully bought them.

For 2021 the percentage or portion of electricity from eligible producers in the incentive scheme that was sold was 60%, or 2 110 133 Guarantees of Origin.

News and perspectives regarding the national framework for electricity

According to the Law on Renewable Energy Sources and High Efficiency Cogeneration and a Regulation on the Promotion of Electricity Production from Renewable Energy Sources and High Efficiency Cogeneration the new models of incentivizing: (i) the model to grant market premium and (ii) the model to pay the guaranteed purchase price (likewise the former feed-in model), have been established. Both models include the obligatory tender procedures with opting for the price of the investor's bid at the tender.

Pursuant to Article 22 of the Regulation, the Electricity Market Operator (HROTE) should set and publish annually on its website, maximum prices for the market premium and maximum guaranteed purchase prices for groups of generating plants as defined in Article 4 of the Regulation.

The Regulation on Quotas for all technologies are set up for groups of plants whose production will be stimulated and the conditions for tendering will be announced by 2023. The first call was announced in Q4 2020.

Benefits to the company of AIB membership

Even though we have not had physical meetings for two years which mean a lot for cooperation and catching up with colleagues from other domains, HROTE still benefited from teleconferences. Some projects will be of great help to HROTE in order to implement some provisions from RED II, likewise the CEN standard for GOs.

Additional information

At the end of 2021 there were seven producers with 27 power plants, six electricity suppliers and three traders registered in the Croatian domain. In 2021 6 700 127 MWh of Guarantees of Origin were issued.

Scope of national participation in EECS

Number of registered scheme participants	16
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
27	2 222,74

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Renewable / Mechanical source or other / Hydro & marine	21	2 133,79
Renewable / Mechanical source or other / Wind	4	84,75
Renewable / Gaseous / Landfill gas	2	4,2

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
6 700	11 799



Name of the company
Transmission System
Operator – Cyprus (TSOC)

Area of operation
Cyprus

Address
Evangelistrias 68
2057 Strovolos
Cyprus

www.tsoc.org.cy

REPORT FROM MEMBER

Profile of the organisation

TSOC was established in 2004 as an independent legal entity for public benefit. It operates, maintains and develops Cyprus' electricity transmission system, maintaining security of supply, integrating renewable energy sources and issues connection conditions for new independent power producers. It has also been appointed as the Market Operator of the Electricity Market of Cyprus.

Role

TSOC is responsible for issuing, transferring, cancelling and revoking Guarantees of Origin both for RES and High Efficiency CHP installations in Cyprus.

Member of the AIB

TSOC has been a member of AIB since September 2014.

Activities within the AIB

TSOC was represented in the AIB General Meetings, EECS Unit and ESG Meetings by Michalis Syrimis and Demetra Cleanthous.

“TSOC envisions that more Parties will apply in the future as many companies have become more environmentally conscious and want to reduce emissions and improve their sustainability rating.”

News and perspectives regarding the national IB

The new Cyprus EECS GO registry went live in September 2016 and the first Cyprus EECS RES GOs were issued for the production period July 2016, as decided by the AIB General Meeting in Oslo in June. National GOs stopped being issued with the start of the operation of the EECS GO Registry.

Connection of the Cyprus EECS GO Registry to the AIB Hub was established on the 12th of June 2019.

News and perspectives regarding the national framework for energy tracking certificates

Fuel Mix Disclosure has been implemented in Cyprus since 2016 with the publication of the Residual Mix for the year 2015. TSOC performs the Residual Mix and Suppliers Mix calculations applying Regulatory Decision 1279/2015 which follows the issuance-based method. Contribution of energy sources to the overall fuel mix and greenhouse gases emission data has been published on consumers' bills since July 1, 2016..

Benefits to the company of AIB membership

TSOC's membership facilitates the sharing of knowledge and experience with other AIB members, and hence the communication and implementation of more efficient and widely accepted ways to harmonise with EU law regarding efficient and transparent market systems. It particularly assists TSOC in learning from the experiences of other Issuing Bodies and implementing best practices, also aiming at standardising local practices and rules. The use of the AIB Hub

will mark the beginning of GO trading between Cyprus and other approved users. GOs trading through the Hub will facilitate our efforts to increase public awareness on the benefits of declaring the origin of electricity production.

Additional information

An increased interest for participation in the Cyprus GO Registry and for transfers through the AIB Hub has been observed in the past year, mainly due to the reduction of the cost of registration, issuing, transferring and cancelling Guarantees of Origin for RES and High Efficiency CHP installations, to zero. This was based on a Decision published in March by the Cyprus Energy Regulatory Authority. Specifically, 13 new Parties (12 Producers with PV installations and one Supplier) applied for participation in the AIB Hub, all of which were successfully enrolled before the end of the year. TSOC envisions that more Parties will apply in the future as many companies have become more environmentally conscious and want to reduce emissions and improve their sustainability rating. The first cancellations of GOs have already taken place, while the first imports of GOs through the AIB Hub are expected by March 2022, to be accounted for in the 2021 Disclosure.

Scope of national participation in EECS

Number of registered scheme participants	19
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
18	189

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Wind	6	157
PV	12	32

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
257,7	758,8



Name of the company
OTE, a.s.

Area of operation
Czech Republic

Address
Sokolovská 192/79
Prague 8
Czech Republic

www.ote-cr.cz

REPORT FROM MEMBER

Profile of the organisation

OTE, a.s., is a joint stock company established in 2001, and is the holder of the license for the Market Operator's activities, which includes activities in the electricity and gas markets in the Czech Republic. OTE commenced organising trading in the day-ahead electricity market in 2002 and the intraday electricity market later on. OTE has been the Market Operator of the intraday gas market since 2010. Continuous data processing and exchange required for the accounting and settlement of the imbalance between the contractual and actual volumes of electricity and gas supplied and received are also among the services offered by OTE.

OTE is responsible for payments of a green bonus and feed-in tariff to producers. OTE is also the Czech national administrator of the Union Registry which serves to guarantee accurate accounting for all allowances issued under the EU Emissions Trading System (EU ETS).

“OTE will become an Issuing Body of GOs of all electricity, biomethane, heat and hydrogen (injected into the Czech distribution systems) as of 1 January 2023. This is a big step forward in terms of energy tracking possibilities and OTE is rebuilding its information systems for this purpose.”

Role

OTE is a RES and high efficiency CHP GOs Issuing Body for the Czech Republic.

Member of the AIB

Member of the AIB since 2013.

Activities within the AIB

OTE was represented at the AIB General Meetings by Martin Štandera who is also the ISU vice-chair.

News and perspectives regarding the national IB

In the area of supported energy sources and Guarantees of Origin, we focused on further development of processes increasing the quality of services provided to producers.

For the latest news we recommend following our [website](#), where you can find other useful information and freely available data for download.

News and perspectives regarding the national framework for energy tracking certificates

Due to the amendment to Czech energy legislation, OTE will become an Issuing Body of GOs of all electricity, biomethane, heat and hydrogen (injected into the Czech distribution systems) as of 1 January 2023. This is a big step forward in terms of energy tracking possibilities and OTE is rebuilding its information systems for this purpose.

Benefits to the company of AIB membership

“As a member of the AIB since November 2013, we have highly appreciated the lively cooperation between members of the AIB with the aim to secure the credibility of the GOs system and transparency of the whole Association. The possibility to exchange experiences with other members of the AIB helps us to prepare for our new role as an Issuing Body of GOs of new energy carriers”, states Martin Štandera, Head of Guarantees of Origin and Clean Mobility at OTE.

Scope of national participation in EECS

Number of registered scheme participants	1 048
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
2 357	4 270

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Wind	174	319
Solar	580	1 042
Thermal	751	1 408
Hydro-electric head installations	852	1 501

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
6 218	8 431



ENERGINET

Name of the company
Energinet

Area of operation
Denmark

Address
Tonne Kjærsvej 65
7000 Fredericia
Denmark

www.energinet.dk

REPORT FROM MEMBER

Profile of the organisation

TSO

Role

Energinet is the Danish Issuing Body, issuing under EECS: Guarantees of Origin for renewable source electricity (since 2004), and Guarantees of Origin for cogeneration (since 2010).

Member of the AIB

Energinet has been member of the AIB since 2002.

“Transparency in the certificate markets needs improvement for a trusted information supply-chain, enlightening the final customer’s free choice of energy.”

Activities within the AIB

Until early 2022 Energinet was represented at the AIB GMs by Carl Morten Baggesen Hilger, who was also taking part in the EECS Unit. Since then, Jeppe Bjerg has been Energinet's representative at AIB.

News and perspectives regarding the national IB

Electricity settlement in Denmark is now 100% hourly on all meters since January 1st. 2021, mobilising flexible consumption based on the hourly market price signals, empowering the final customer to react on price.

Yet, electricity suppliers can still market their electricity products towards final customers as green using GOs even though the GOs are disclosed one year later, and on a MWh aggregated level, without correlation to the customer facing hourly energy product, and hourly market price settlement.

Benefits to the company of AIB membership

Being an AIB-member, sharing best practices, and taking part in developing the European AIB-Hub for a controlled, now monitored exchange of certificates ensures that Energinet meets the requirements of the EU directives in a secure and efficient way. "Transparency in the certificate markets needs improvement for a trusted information supply-chain, enlightening the final customer's free choice of energy", says Carl Morten Baggesen Hilger, Energinet.

Scope of national participation in EECS

Number of registered scheme participants	30
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
123 055	13 086

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Biomass	108	4 372
Biogas	192	137
Wind	6 987	6 976
Hydro	40	7
Solar	115 728	1 594

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
21 842	23 457



Name of the company
Elering AS

Area of operation
Estonia

Address
Kadaka tee 42
12915 Tallinn
Estonia

www.elering.ee

REPORT FROM MEMBER

Profile of the organisation

Electricity and Gas Transmission System Operator

Role

Elering is the Issuing and Disclosure Body of renewable electricity and gas GOs, national agency for subsidies, operator of metering data hubs and operator of the transport sector certificates offsetting platform. The mission of Elering is to keep the lights on and homes heated in Estonia.

Member of the AIB

Elering first became an observer in AIB in 2011 and was accepted as a full member in September 2014.

Activities within the AIB

River Tomera is the representative in the General Meeting with Kadri-Liis Rehtla being the alternate. Anne Mändmets is the representative in the Electricity Scheme Group and in the EECS Unit, River Tomera in the Information Systems Unit and Kadri-Liis Rehtla in the Gas Scheme Group.

“We see that GOs allow to consume renewable energy of zero emissions and provides an opportunity to track progress towards climate neutrality. GOs help to involve end users to contribute to climate change mitigation.”

News and perspectives regarding the national IB

Elering is continuously improving the Renewable Energy Information System, that includes the registries of renewable electricity and biomethane, integrating new developments into the existing system.

Elering aims to submit the AIB gas domain protocol to allow cross-border transfers of gas GOs through the AIB hub.

News and perspectives regarding the national framework for energy tracking certificates

A consumer portal to allow consumers to see their consumption data is currently being developed by Elering and is expected to go live in summer 2022. This would provide the bridge between the physical energy flows and digital solutions to Estonian consumers.

Since 2021, Elering has been operating a Transport Sector Certificates Offsetting Platform that is connected to the Environmental Board for exchanging data on transport sector energy consumption to aid sector decarbonisation.

There is currently production support for the produced biomethane and to meet the national target of renewable electricity generation, there will be public reverse auctions arranged in June 2022 and January 2023.

An electronic solution for hydrogen as well as heating and cooling will be developed for GO issuance and disclosure.

Benefits to the company of AIB membership

“We see that GOs allow to consume renewable energy of zero emissions and provide an opportunity to track progress towards climate neutrality. GOs help to involve end users to contribute to climate change mitigation.” *River Tomera (Head of Renewable Energy Unit)*

Scope of national participation in EECS

Number of registered scheme participants	253
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
1 886	2 240

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Wind	27	315
Hydro	19	8
Biogas	4	3
Biomass	24	1 534
Solar	1 804	123
Fossil fuels	8	257

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
1 851	2 578

FINGRID

Finextra

Name of the company
Finextra Oy

Area of operation
Finland

Address
Läkkisepäntie 21
Helsinki

www.fingrid.fi

REPORT FROM MEMBER

Profile of the organisation

Finextra Oy is a totally owned subsidiary of Fingrid Oyj, which is the Finnish Transmission System Operator (TSO).

Role

Fingrid Oyj, which is the appointed Competent Issuing Body for electricity GOs according to Finnish legislation, has assigned this duty to its wholly owned subsidiary Finextra Oy.

Member of the AIB

Finextra Oy has been a member of the AIB since 2015.

Activities within the AIB

- Kaija Niskala is a member of the EECS Unit and Electricity Scheme Group.
- Kirsi Salmivaara is a member of the Information Systems Unit.

“National implementation of RED II was finalized in December 2021 and new legislation on GOs for energy is valid from 01 December 2022 onwards”

News and perspectives regarding the national IB

We develop our registry cost-effectively in order to meet customers' and our own expectations and requirements. Currently, we are about to launch an API from our registry to customers. Naturally we also implemented all required changes arising from the new legislation

on GOs for energy. From the beginning of 2022, we will also issue nuclear GOs.

News and perspectives regarding the national framework for energy tracking certificates

National implementation of RED II was finalized in December 2021 and new legislation on GOs for energy is valid from 01 December 2022 onwards. Fingrid / Finextra will continue to be the Issuing Body for GOs of electricity.

Fingrid's totally owned subsidiary Fingrid Datahub Oy launched the Datahub which is the centralised information exchange system for the electricity retail market, it went live on 21 February 2022. Datahub centralises the data from about 3.8 million electricity accounting points in a single system, and it significantly accelerates the exchange of information in the electricity retail market.

Benefits to the company of AIB membership

The main benefit of being the member of AIB is that it enables reliable transfers of GOs across Europe and thus enables business possibilities for our customers. Together with AIB we are promoting the transition to a clean energy system.

Scope of national participation in EECS

Number of registered scheme participants	53
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
826	12 478

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Hydro	167	3 236
Wind	564	3 677
Solar	8	4
Thermal	87	5 561

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
34 227	37 400



Name of the company
European Energy Exchange
(EEX)

Area of operation
France

Address
5 boulevard Montmartre
75002 Paris
France

www.powernext.com

REPORT FROM MEMBER

Profile of the organisation

Market Operator

Role

EEX has been operating as the Issuing Body for electricity Guarantees of Origin (GOs) since May 2013 under appointment by the French Ministry for an Ecological and Solidary Transition. Since September 2019, the mandate of EEX has been extended to the organization of auctions for French subsidized GOs on behalf of the French State.

Member of the AIB

Member of the AIB since 2013.

Activities within the AIB

The followup of AIB activities and representation of EEX at the General Meeting is ensured by Aude Filippi, Director for Business Development for Gas and Sustainability Markets at EEX and Blaise Farrokhi, Business Developer. Moreover, Aude and Blaise are members of the EECS Unit, ISU Unit, EAU unit, ESG, and GSG. Saul Pedraza, Head of Data Analytics at EEX, is a member of the Task Force VAT Fraud.

“Today as a member of the AIB, EEX is pleased to contribute to constantly improving the GO system, and therefore reinforcing consumers’ confidence in renewable energy.”

News and perspectives regarding the national IB

EEX should see its scope extended to Issuing Body for GOs for non-renewable power sources in 2022, as France is preparing to enlarge the issuance of GOs to all power sources. EEX will also have increased responsibilities when it comes to controlling some disclosure rules for suppliers.

EEX will also be the main registry for the delivery of the first European power GO cleared multilateral spot market that will be launched by EPEX Spot in 2022.

News and perspectives regarding the national framework for energy tracking certificates

In 2022, France is implementing a first step towards full disclosure by allowing power GOs from non-renewable sources.

In 2022, new mechanisms will be implemented to amend the current French auction process. On one hand, operators of subsidised renewable production devices will have preferential access to the GOs coming from their own installations. This should help the development of Power Purchase Agreement (PPA) projects on a larger scale in France. On the other hand, municipalities will also benefit from preferential access to GOs from installations located within their territory. This should increase the share of renewable energy tracked to end consumers and raise the acceptability for renewable energy generation facility projects.

The auction process will also be amended to sell part of the subsidised GOs on a longer term basis rather than on the spot market.

Benefits to the company of AIB membership

EEX has faith in the GO mechanism to provide reliable information to electricity consumers. As a registry for power GOs in France, we promote transparency of the energy markets and participate in the energy transition towards more renewable power consumption. By promoting market based mechanisms for green electricity, the auction system is heading in the same direction. We decided to join the AIB when EEX was designated as the operator for the national registry for GOs in 2013. Within four months and thanks to the AIB, EEX was able to allow all of its market participants to easily import and export GOs throughout Europe. EEX also wanted French GOs to become compliant with the EECS standard, developed and promoted by the AIB. We are confident in the reliability of such a standard as it relies on clear and secured processes, regularly audited by the AIB members themselves. Today as a member of the AIB, EEX is pleased to contribute to constantly improving the GO system, and therefore reinforcing consumers' confidence in renewable energy.

Scope of national participation in EECS

Number of registered scheme participants	118
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
13 719	58 533

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Hydro	2 185	27 808
Wind	1 800	17 955
Solar	8 900	10 648
Thermal	834	2 122

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
96 503	120 077



Name of the company
German Environment Agency
(UBA)

Area of operation
Germany

Address
P.O. Box 1406
06813 Dessau-Roßlau

www.hknr.de

www.umweltbundesamt.de

REPORT FROM MEMBER

Profile of the organisation

UBA is the German scientific environment authority which deals with a wide and varied range of environmental subjects. Among its numerous tasks, UBA is the competent authority, operating the German registry and issuing GOs. In addition, UBA has regulatory competence regarding the in-depth provisions of GOs, the registry and the fees which are detailed in the GO Implementing Ordinance and Fee Ordinance. The Register of Guarantees of Origin is legally and technically supervised by the Federal Ministry of Economic Affairs and Climate Action.

Role

UBA is the competent authority and Issuing Body for Guarantees of Origin for Electricity in accordance with the Directive (EU) 2018/2001. The responsible work unit is called “Register of Guarantees of Origin for Electricity from Renewable Energy sources” (German abbreviation: “HKNR”).

The Bundesnetzagentur (BNetzA) is the German competent authority for disclosure. UBA has very limited inspection tasks: UBA matches the supply data for renewable electricity based on GOs with the cancelled GOs of the supplier. UBA receives the supply data from BNetzA and hands over the results for further use.

“As a representative of a government agency, one is often confronted with extensive multidimensional issues at AIB. Acting constructively but also appropriately is a constantly growing challenge to master. The very exciting discussions can be held much better face to face, therefore I’m looking forward to physical meetings.”

Member of the AIB

UBA has been a member of the AIB since 2016. From 2013 to 2016 UBA was a Hub user without full membership.

Activities within the AIB

- Friederike Domke – active in the EAU
- Christian Herforth – active in the EECSU, ESG and GSG, also in CEN/CLC/JTC14/WG5/PT Electricity
- Katja Merkel – active in the ISU
- Elke Mohrbach – active on the AIB Board since November 2020, active in the ESG and Disclosure Platform
- Victoria Nitzschke-Wilke – active in the Disclosure Platform

News and perspectives regarding the national IB

The UBA maintains two registries, the “Register of Guarantees of Origin” (HKNR) and the “Register of Guarantees of Regional Origin” (RNR). In 2021, the constant increase of participants and renewable production devices in the HKNR continued further.

UBA is active in all AIB Units and Scheme Groups and also with the Board. UBA strongly engages in topic-specific subgroups and took a shaping role in the Disclosure Platform, launched in 2021. Further, UBA is still actively involved in the revision of the CEN-Standard 16325.

The new German federal government presented the coalition agreement in November 2021. For the first time, GOs were mentioned as an important instrument for energy transition and climate protection.

News and perspectives regarding the national framework for energy tracking certificates

233 620 GWh of electricity was produced from renewables in Germany in 2021, which represents 41% of the total German electricity consumption.

UBA implemented Art. 19 of Directive (EU) 2018/2001 into the new Renewable Energy Sources Act that came into force on 01.01.2021. In addition, UBA reduced fees by amending the Fee Ordinance on 01.10.2021.

Benefits to the company of AIB membership

The proactive consideration of topics and issues helps UBA to further develop the GO system and make it future-proof. Apart from that, UBA appreciates the establishment of new AIB formats for knowledge transfer, such as Tea Time Thursday.

Additional information

As a representative of a government agency, one is often confronted with “extensive multidimensional issues at AIB. Acting constructively but also appropriately is a constantly growing challenge to master. The very exciting discussions can be held much better face to face, therefore I’m looking forward to physical meetings.” **Christian Herforth** (UBA HKNR-team)

Scope of national participation in EECS

Number of registered scheme participants	3 167
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
1 951	18 538,741

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Wind - onshore	1 349	3 480,809
Solar	252	1 554,370
Hydro	244	4 746,191
Biogas - other	2	0,780
Biogas - landfill	21	33,654
Biogas - sewage	2	0,462
Solid renewable fuels	40	1 171,719
unspecified renewable energy	41	7 550,756

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
18 340,249	233 620



Name of the company
DAPEEP S.A.

Area of operation
Greece

Address
72, Kastoros street
Pireus 18545
Greece

www.dapeep.gr

REPORT FROM MEMBER

Profile of the organisation

With a main focus on satisfying modern challenges in the field of Renewable Energy Sources, DAPEEP's business scope encompasses:

- The management of RES and HE-CHP of the National Interconnected System, conclusion of contracts with producers, clearing and settlement of the energy produced.
- The representation of RES and CHP Producers in the Electricity Markets (DAM/IDM/Balancing) as an Aggregator.
- The financial and accounting management, acting as the exclusive Administrator of the Special RES and CHP Account that facilitates the monthly compensation of RES and CHP Producers in the Greek territory.
- Competent Body appointed by the EU for the management of State Aid support schemes related to electricity.
- Issuing Body for the Guarantees of Origin (GOs) of electricity and Competent Body for Disclosure.
- Auctioneer of the CO2 Emissions Allowances, representing the Greek State in the auctions carried out by EEX and managing the revenues from the respective auctions.
- Registered Reporting Mechanism (RRM) approved by ACER, providing REMIT Reporting services.

“DAPEEP expects that the value of the EECS GOs issued for renewable electricity in Greece will be enhanced, contributing to a higher integration of RES in the Greek electricity market, assisting the country's efforts for the transition towards a low-carbon economy.”

Role

DAPEEP is the Issuing Body for electricity GOs by virtue of Law 3468/2006. The company also acts as the Administrator of the GO Integrated Information System where the Registries of all three Issuing Bodies, each appointed to a clearly separated Domain in the Greek territory, are implemented.

By virtue of Law 4512/2018, DAPEEP is the Competent Body for disclosure at a national level and is responsible for auditing the suppliers for the proper use of GOs in disclosing the origin of electricity supplied.

Member of the AIB

DAPEEP S.A. is a member of AIB since 2019.

Activities within the AIB

DAPEEP is represented in AIB by Maria Koulouvari and George Antonopoulos, the former being assigned the role of Chair of the EECS Unit and the Electricity Scheme Group since 2020.

News and perspectives regarding the national IB

A new GO Information System is being developed under the responsibility of DAPEEP. It will be EN16325 compliant enabling the issuance of EECS GOs, offering high end services by using more automated procedures, thus minimizing operational errors. The new system will allow connection to the AIB hub enabling the cross border trade of the Greek EECS GOs.

News and perspectives regarding the national framework for energy tracking certificates

We are currently working with the Ministry of Environment and Energy to update the legislation governing the GO system in Greece in line with the Directive (EU) 2018/2001. In our propositions to the ministry, we are planning to address market issues by enhancing the market rules governing the GO system and by developing clear guidelines for the proper use of GOs by the stakeholders.

Benefits to the company of AIB membership

DAPEEP enjoys working together with highly skilled experts, exchanging expertise for implementing best practices on a national level but also working towards a reliable European GO market.

The benefits arising from being an AIB member will be unfolded to their fullest once the connection to the AIB hub is established. DAPEEP expects that the value of the EECS GOs issued for renewable electricity in Greece will be enhanced, contributing to a higher integration of RES in the Greek electricity market, assisting the country's efforts for the transition towards a low-carbon economy.

Scope of national participation in EECS

EECS GOs are planned to start being issued in the new GO Information System in the second half of 2023.

National RES production (GWh)

22 187,5



Name of the company

MEKH Hungarian Energy
and Public Utility Regulatory
Authority

Area of operation

Hungary

Address

Bajcsy-Zsilinszky út 52.

1054 Budapest

Hungary

www.mekh.hu

REPORT FROM MEMBER

Profile of the organisation

MEKH – established in 2013 as the successor of the Hungarian Energy Office – is the Regulatory Body of the energy and public utility market, supervising sectors of strategic importance. MEKH's responsibility covers licensing, supervision, price regulation and tariff preparatory tasks, in the fields of electricity, natural gas, district heating as well as water utility supply, and pricing of public waste management services. As an official statistical body, MEKH also performs standard national energy statistics related tasks and complies with the data reporting obligations of various national and international bodies and organisations.

Role

Among other tasks, MEKH is the Competent Authority and Issuing Body for electricity Guarantees of Origin in Hungary.

Member of the AIB

MEKH has been a member of the AIB since 2021.

“After joining the EECS Scheme, Hungarian GOs will be able to access the European market. This may be a good opportunity for Hungarian market participants to utilize the benefits of a common GO market.”

Activities within the AIB

MEKH has been participating in the Concerted Action on the Renewable Energy Directive projects (CA-RES 1-3). The collaboration in the CA-RES projects provided important experiences for MEKH that helped to organize and operate a domestic GO scheme.

In the past few years, several personal meetings were held between MEKH and AIB representatives. MEKH also contributes to the residual mix calculations and sends data to AIB every year.

In 2021, MEKH became a member of the AIB, and then started the process to become a member of the EECS Scheme.

News and perspectives regarding the national IB

From 1 January 2022, the relevant legislation was amended, in accordance with the EECS Rules and the recommendations of RE-DISS project. Among many changes, MEKH was appointed as Competent Body for electricity disclosure from 1 January 2022.

After the amendments in the national legislation, MEKH became a member of the EECS Scheme from 1 February 2022.

News and perspectives regarding the national framework for energy tracking certificates

2022 will be the first year when the disclosure obligation of suppliers is related to the usage of GOs and to the residual mix. MEKH will be responsible for publishing the recommended structure, form

and depth of the data content of the information to be provided in the disclosure statements and also for supervision.

Hub connection will start for MEKH from 1 March 2022.

From June 2022, auctioning of GOs that relate to 'KÁT' feed-in-tariff support scheme will start.

Benefits to the company of AIB membership

After joining the EECS Scheme, Hungarian GOs will be able to access the European market. This may be a good opportunity for Hungarian market participants to utilize the benefits of a common GO market.

As a member of the AIB, MEKH will have the opportunity to get information on other members' experiences and to contribute in shaping the European level framework of energy tracking certificates. It is a great inspiration and motivation to contribute to developing GOs to be an effective tool for the transformation of a more sustainable energy system in Europe.

The application to the EECS Electricity Scheme, allowing MEKH to issue EECS GOs and transfer certificates over the AIB Hub was not completed in 2021.



LANDSNET

Name of the company
Landsnet hf

Area of operation
Iceland

Address
Gylfaflöt
Reykjavík 112
Iceland

www.landsnet.is

REPORT FROM MEMBER

Profile of the organisation

Landsnet hf is the Icelandic Transmission System Operator (TSO) which was established on the basis of the 2003 Electricity Act. Landsnet's role is to operate Iceland's electricity transmission system and administer its system operations. Landsnet operates under a concession arrangement. Landsnet's activities are subject to regulation by the National Energy Authority (Orkustofnun).

Landsnet owns, operates and maintains all transmission lines in Iceland. The Icelandic electricity system's highest operating voltage is 220 kV and will gradually replace most of the aging 132 kV lines. In preparation for the future, a portion of the grid is made up of 400 kV capable lines that are currently operated at 220 kV.

“To ensure a free and open market in Iceland, the access to the AIB Hub is vital, where energy producers can have a credible and robust platform to transfer GOs to other member states.”

Role

Landsnet is the Competent Authority for the issuance of GOs, renewable energy Guarantees of Origin, in Iceland as stipulated in the Act on Guarantees of Origin, No. 30/2008.

Member of the AIB

Landsnet started as an Observer of the AIB in 2009 and has been a full member since September 2011.

Activities within the AIB

Svandís Hlín Karlsdóttir and Ragnar Sigurbjörnsson have contributed to the AIB on behalf of Landsnet since 2016.

Benefits to the company of AIB membership

AIB membership gives us the opportunity to easily interact with other member states of the AIB, both at the General Meetings and through discussions via other avenues organised by the AIB. The sharing of knowledge, experiences and best practices is of great value to us.

To ensure a free and open market in Iceland, the access to the AIB Hub is vital, where energy producers can have a credible and robust platform to transfer GOs to other member states.

Scope of national participation in EECS

Number of registered scheme participants	8
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
56	2 860

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Geothermal	10	765
Hydropower	45	2 093
Wind	1	1,8

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
19 032,2	19 148,3



Name of the company
SEMO (Single Electricity
Market Operator)

Area of operation
Ireland and
Northern Ireland

Address
EirGrid plc, The Oval
160 Shelbourne Road
Ballsbridge, Dublin 4
Ireland

www.sem-o.com

REPORT FROM MEMBER

Profile of the organisation

The Single Electricity Market (SEM) is the all-island wholesale electricity market operating in Ireland and Northern Ireland. The Single Electricity Market Operator (SEMO) facilitates the operation and administration of the SEM.

SEMO is a contractual joint venture between EirGrid plc. (the Transmission System Operator for Ireland) and SONI Limited (the System Operator for Northern Ireland).

SEMO is licensed and regulated cooperatively by the Commission for the Regulation of Utilities (CRU) in Ireland and the Utility Regulator (UR) in Northern Ireland.

Role

SEMO is the Issuing Body for Guarantees of Origin (GOs) in Ireland to generators of electricity from renewable sources, in accordance with the Supervisory Framework established by the CRU. In this role, SEMO is responsible for the operation of the registry for issuance, transfer and cancellation of GOs.

SEMO is also the nominated Competent Body for Fuel Mix Disclosure (FMD) for the island of Ireland (Ireland and Northern Ireland), on behalf of the CRU in Ireland and the UR in Northern Ireland.

“AIB membership assures SEMO that the high standard of GO transactions taking place among members is met. It enables SEMO to adopt a reliable and efficient approach to GO transactions in Ireland and Europe through adherence to the EECS Rules.”

SEMO also conducts the verification mechanism for the regulation of green source products in the electricity retail market on behalf of the CRU.

Member of the AIB

Member of the AIB since 2015.

Activities within the AIB

SEMO is represented in the AIB by Tommy O’Gorman and Anna Groves in the General Meetings, Electricity Scheme Group and the EECS Unit.

News and perspectives regarding the national IB

SEMO continues to see interest grow in GOs in Ireland as further renewable generation comes out of renewable support schemes. In 2021 there was a further 4% increase in the registered GO scheme participants.

GOs issued for renewable sources in other EU countries and imported into the Irish registry continue to be accepted for FMD in Ireland, provided they have not already been cancelled or used. The volume of GOs being imported to the SEM continues to grow, with a 30% increase in volumes in 2021.

SEMO have continued strong interest in corporate renewable sourced energy and green source products.

News and perspectives regarding the national framework for energy tracking certificates

The CRU Supervisory Framework for the Administration of Guarantees of Origin remained unchanged in 2021.

The GO scheme in Ireland continues to be open to licenced suppliers and generators only. Applications from market parties interested in trader accounts are currently not accepted.

The annual All-Island (Ireland and Northern Ireland) Fuel Mix methodology, used in 2021 for calendar year 2020, remained unchanged from previous years.

In 2021, the Green Source Product Verification mechanism was carried out for the 2020 period to ensure that suppliers selling green source products had sufficient green attributes (GOs or contract based tracked supported renewable energy) to cover their sale.

Benefits to the company of AIB membership

The AIB continues to play an invaluable role in the development and secure operation of Guarantees of Origin trading in Europe. The Association continues to support Issuing Bodies to collaborate in identifying best practice, knowledge sharing and experience for the common goal of continuous development of the European GO scheme.

AIB membership assures SEMO that the high standard of GO transactions taking place among members is met. It enables SEMO to adopt a reliable and efficient approach to GO transactions in Ireland and Europe through adherence to the EECS Rules. As an Issuing Body that promotes transparency, our AIB membership highlights this ethos further through the harmonised and transparent approach adopted by the AIB. Anna Groves, SEMO Market Operations

Scope of national participation in EECS

Number of registered scheme participants	57
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
104	882,41

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Wind	65	650,17
Hydro	39	232,24

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
1 838,9	10 937



Name of the company
Gestore dei Servizi Energetici
GSE S.p.A.

Area of operation
Italy

Address
Viale Maresciallo Pilsudki 92
Rome
Italy

www.gse.it

REPORT FROM MEMBER

Profile of the organisation

GSE is a public company which promotes and supports renewable energy sources in Italy.

GSE is also in charge of promoting energy efficiency, RES for heating and cooling and biofuels for transport. The sole shareholder of GSE is the Ministry of Economy and Finance, which exercises its rights according to the strategic guidelines indicated by the Ministry of Economic Development and according to the regulatory provisions of the Authority.

Role

GSE is the Issuing Body for Guarantees of Origin, Competent Authority for the disclosure scheme and is responsible for granting supports for renewable electricity production, energy efficiency and thermal energy in Italy.

In addition, the mandate of GSE was extended to include the organization of auctions for GOs.

“... being an AIB member gives access to the AIB platform which allows transfers of certificates between EU countries which are members of AIB.”

Member of the AIB

GSE was one of the founding members of the AIB from its beginning in 2001, and the CEO of GSE, Pier Luigi Parcu, became the first President of the Association.

Activities within the AIB

The engagement of GSE in AIB activities encompasses all the working groups:

- General Meeting: Emanuele Del Buono
- EECS, ESG: Floriana Furno; Gianmarco Piamonti
- GSG: Floriana Furno

News and perspectives regarding the national framework for energy tracking certificates

On the 30th of November 2021 the Legislative Decree 199/2021 for the transposition of the Directive (EU) 2018/2001 was published, which contains incentives, simplifications and tools to push renewable sources in line with the EU objectives to 2030 as well as the general principles for the National Recovery and Resilience Plan (NRRP).

Specifically, article 46 of the Legislative Decree 199/2021 transposes article 19 of the Directive (EU) 2018/2001 on GOs and appoints GSE

as the Competent Authority for for issuance, transfer and cancellation of Guarantees of Origin in Italy in the following sectors: electricity, gas, hydrogen, heating and cooling.
In addition, GSE is involved in the revision of the CEN-Standard 16325.

Benefits to the company of AIB membership

“Participating actively in the meetings and Units organised by AIB is a valuable opportunity to share knowledge, best practices, point of views and experiences with members from other countries especially with regard to the new sectors foreseen by the Directive (EU) 2018/2001. Moreover, being an AIB member gives access to the AIB platform which allows transfers of certificates between EU countries which are members of AIB” according to Floriana Furno, member of EECS, ESG, GSG.

Scope of national participation in EECS

Number of registered scheme participants	3 086
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
4 813	36 114

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Wind	512	9 769
Geothermal	34	922
Hydro	976	18 044
Solar	3 186	5 185
Thermoelectric	105	2 194

Certified EECS production as compared to national RES production (GWh)

EECS RES production*	National RES production
93 524	113 576

* Data updated on 16th March 2022 for Production 2021



Name of the company
LITGRID AB

Area of operation
Lithuania

Address
Viršuliškių skg. 99B
LT-05131 Vilnius
Lithuania

www.litgrid.eu

REPORT FROM MEMBER

Profile of the organisation

Litgrid is the electricity Transmission System Operator.

Role

Litgrid, the Lithuanian electricity Transmission System Operator, maintains the stable operation of the national power system, controls electricity flows and enables competition in an open domestic electricity market. Litgrid is responsible for integrating the national power system into the European power infrastructure and electricity market. Litgrid has also been appointed as the Lithuanian Issuing Body for electricity Guarantees of Origin (GOs).

“Participation within the AIB hub ensures secure and efficient transactions between producers and suppliers.”

Member of the AIB

Member of the AIB since 2018 (import only).

Full electricity scheme membership starting from January 1, 2021.

Activities within the AIB

Litgrid is represented in the ESG, EECS unit and General Meetings by Ricardas Ternovojus.

News and perspectives regarding the national IB

From January 1st 2021, full AIB membership was granted to Litgrid. Due to the changes in national legislation members are now able to export EECS outside of the Lithuanian domain.

News and perspectives regarding the national framework for energy tracking certificates

No new amendments to legislation related to the Issuing Body are foreseen.

Benefits to the company of AIB membership

Litgrid AB as Issuing body is responsible for providing a platform and the administration of Guarantees of Origin. Participation within the AIB hub ensures secure and efficient transactions between producers and suppliers.

Scope of national participation in EECS

Number of registered scheme participants	55
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
94	289,35

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Solar	2	2,496
Hydro	55	123,181
Wind	34	130,671
Biomass	3	33

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
467,849	2 272,16



Name of the company
AS Augstsprieguma tīkls (AST)

Area of operation
Latvia

Address
86 Darzciema str
Rīga, LV-1073
Latvia

www.ast.lv

REPORT FROM MEMBER

Profile of the organisation

AS Augstsprieguma tīkls (AST) is an independent Transmission System Operator in the Republic of Latvia, engaged in providing electrical power transmission network services and ensuring balancing and stability within the transmission network.

AST was appointed by law as the official Issuing Body for Guarantees of Origin for electricity commencing 1st December 2020.

Role

The Authorised Issuing Body and the Competent Authority for EECS GOs in Latvia is AST. Its role, defined in national legislation, is to be responsible for the operation of EECS GOs in Latvia. An additional role is to administer the EECS Registration Database and its interface with the EECS Transfer System.

Member of the AIB

AST has been a member of AIB since December 2020.

“We see that more and more end-users ask their electricity supplier to provide a proven Guarantee of Origin for the supplied energy. As of the 9th of March 2022 Account Holders have cancelled 747,336 GWh during the consumption period January 2021 to December 2021, which reflects 10% of the total consumption in Latvia. Explicitly tracked consumption has increased compared to 2020.”

Activities within the AIB

AST is represented in AIB GMs by Aigars Silis as formal member representative and Kalvis Ertmanis as alternate representative, also taking part in the Electricity Scheme Group, EECS Unit and Information System Unit.

Benefits to the company of AIB membership

The number of registered participants and production devices as of 2021 confirms that it was the right decision for Latvia to become a member of AIB.

Already, more than 75% of the generated electricity from RES in Latvia has a proven Guarantee of Origin, but the potential EECS Guarantee of Origin issuance is 85% because not all eligible RES production for the production period 2021 has been issued.

383 GWh of the total generated electricity from RES production devices registered in the Latvian Register (3053 GWh) could still be requested by Account Holders.

We see that more and more end-users ask their electricity supplier to provide a proven Guarantee of Origin for the supplied energy. As of the 9th of March 2022 Account Holders have cancelled 747,336 GWh during the consumption period January 2021 to December 2021, which reflects 10% of the total consumption in Latvia. Explicitly tracked consumption has increased compared to 2020. - Aigars Silis, Head of Data Analysis Group

Scope of national participation in EECS

Number of registered scheme participants	172
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
220	2 638,393

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Hydro-electric	59	1 573,094
Thermal	101	1 004,904
Wind / Onshore	60	60,395

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
2 670	3 575

NOTE: Not all RES production that is eligible to issue for production period 2021 has been issued (09.03.2022). 383 GWh can still be requested by Account Holders - potential EECS production is 3053 (85%)



Name of the company
Institut Luxembourgeois
de Régulation (ILR)

Area of operation
Luxembourg

Address
17, rue du Fossé
1536 Luxembourg
Luxembourg

www.ilr.lu

REPORT FROM MEMBER

Profile of the organisation

The Institut Luxembourgeois de Régulation (ILR) is an independent authority in charge of regulation of electricity and natural gas markets, as well as of telecommunications, railways, airport taxes, postal services, radio spectrum and networks information system security. In addition to this, ILR is also designated as the national Competent Authority for issuing Guarantees of Origin for electricity generated from renewable energy sources.

Role

ILR is the national Issuing Body for renewable electricity Guarantees of Origin (RES GOs) and for CHP GOs and it is also responsible for disclosure.

Member of the AIB

The Luxembourg registry has been operational since 1 January 2010.

Activities within the AIB

Pamela Boeri and Claude Hornick participate in the EECS-U, ESG, and GSG.

“In order to facilitate monitoring and to improve the reliability of the electricity disclosure system, and especially of its green attributes, the ILR decided to join the AIB in 2009 ...”

News and perspectives regarding the national IB

In accordance with Article 3, paragraph 4 of the Luxembourg grand-ducal regulation of 1st August 2014 relating to the production of electricity from renewable energy sources, ILR issues Guarantees of Origin to certify the share of electricity produced from renewable energy sources in accordance with Article 19 of Directive (EU) 2018/2001.

More information for account holders is available on the following websites:

<http://cmo.grexel.com>, which allows access to public details of the registry; and on the [website of ILR](#), which describes GOs and their use within Luxembourg.

According to Article 3 of the grand-ducal regulation of 22nd June 2016 relating to the production of electricity from high efficient cogeneration, implementing Directive 2012/27/UE, ILR shall issue CHP GOs upon request of an electricity producer using CHP technology.

News and perspectives regarding the national framework for energy tracking certificates

In July 2010, disclosure regulations entered into force and define a unique form of electricity labels to be used by all suppliers in their disclosure information on the final bill for the end consumer.

Cancellations of EECS certificates represent an easy and straightforward tool for electricity suppliers to prove the renewable origin of their electricity supply.

In 2021, almost 4 million GOs (3.8 TWh) were cancelled in the registry, representing 60% of total electricity consumed in Luxembourg.

Benefits to the company of AIB membership

In order to facilitate monitoring and to improve the reliability of the electricity disclosure system, and especially of its green attributes, ILR decided to join the AIB in 2009 and made a platform available for registration of production devices and handling of certificates.

“Generators can value their renewable generation attributes; and suppliers can improve the reliability and credibility of their electricity products” says Claude Hornick.

Following the approval of the new Domain Protocol of Luxembourg at the Edinburgh GM on the 6th June 2018, ILR started, in the second half of 2018, issuing GOs for electricity produced from renewable energy sources (RES) from production devices currently receiving production support in Luxembourg. Those GOs are being periodically auctioned on the ILR auctioning platform: <https://goauction.ilr.lu/>.

Auction revenues are used to decrease the cost of the RES public support scheme.

The auctions are open to any account holder within an EECS registry. More information on ILR website: <https://goauction.ilr.lu/>.

Scope of national participation in EECS

Number of registered scheme participants	8
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
44	241

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Photovoltaic	23	31
Wind	13	130
Hydro	3	28
Biomass	5	52

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
727	993



Name of the company
Montenegrin electricity
market operator (COTEE)

Area of operation
Montenegro

Address
Bulevar Svetog Petra Cetinjskog 130
81000 Montenegro
Montenegro

www.cotee.me

REPORT FROM MEMBER

Profile of the organisation

Electricity Market Operator. The Market Operator is a legal energy entity, responsible for organizing and managing the electricity market and renewable energy sources for the feed in tariff in Montenegro..

Role

COTEE is the competent authority for; the purchasing of electricity from RES via a feed in tariff, selling it to suppliers and self-suppliers or on the power exchange, imbalance settlement, Guarantees of Origin, calculation of residual mix etc.

Member of the AIB

COTEE has been a member of AIB since 2021.

“Membership in AIB is of great importance for COTEE because it will open the possibility, after the harmonization with the AIB Rules, of finally obtaining status as a Scheme member of AIB. It will also allow for existing and future users of the Register of RES Guarantees of Origin in Montenegro to have valid Guarantees of Origin that can be recognized in any AIB member state.”

Activities within the AIB

- 1 Formal member representative in the General Meeting:
Nikola Vujovic; Alternate: Dusan Vucic
- 2 Representative in the Electricity Scheme Group and in the EECS Unit: Dusan Vucic; Alternate: Branislav Banovic
- 3 Representative in the Information Systems Unit:
Ana Zarkovic; Alternate: Danilo Simovic
- 4 Representative in the External Affairs Unit:
Branislav Banovic; Alternate: Nikola Vujovic

News and perspectives regarding the national IB

From December 2021, COTEE became a member of a regional system of GOs supported by Energy Community.

News and perspectives regarding the national framework for energy tracking certificates

Disclosure rules were applied for the first time in 2021 for calendar year 2020. The Energy and Water Regulatory Agency is in charge of Disclosure rules and the calculation of the Residual Mix is the responsibility of the Market Operator.

Benefits to the company of AIB membership

Membership in AIB is of great importance for COTEE because it will open the possibility, after the harmonization with the AIB Rules, of finally obtaining status as a Scheme member of AIB. It will also allow for existing and future users of the Register of RES Guarantees of Origin in Montenegro to have valid Guarantees of Origin that can be recognized in any AIB member state.

National RES production and devices

Montenegro is not yet connected to the Hub.

Number of registered scheme participants	27
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
39	170,759

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Hydro	32	48,428
Wind	2	120,1
Solar	5	2,232

National RES production (GWh)

National RES production
2 326,01



Name of the company
CertiQ B.V.

Area of operation
The Netherlands

Address
Utrechtseweg 310
6800 AS Arnhem
Netherlands

www.certiql.nl

REPORT FROM MEMBER

Profile of the organisation

CertiQ, a full subsidiary of TenneT TSO, is the Dutch Issuing Body for Guarantees of Origin (GOs) for electricity and thermal energy. TenneT holds a mandate given by the Minister of Economic Affairs and Climate Policy to perform the tasks associated with GOs on their behalf.

Role

The mandate encompasses GOs:

- for renewable and non-renewable electricity;
- for electricity from high-efficient cogeneration; and
- for renewable thermal energy.

Member of the AIB

Member of the AIB since 2001.

The Association of Issuing Bodies work on electricity paved the way for the certification of thermal energy and gas under the European Directive and for granular certificates. The collective experience of 30 plus Issuing Bodies joined by the Association is and will remain truly indispensable.

Activities within the AIB

- Ilona Bruens, Head of CertiQ, is the Treasurer of the AIB Board.
- Remco van Stein Callenfels, Policy Advisor, is a member of the ESG, the EECSU, and the GM.
- Jeroen Hanskamp, Product Owner of CertiQ, is a member of the ISU.
- Jerney Lubbers, Functional Application Manager of CertiQ, is an alternate member of the ISU.

News and perspectives regarding the national IB

Further, we explored together with Eneco, Microsoft and FlexiDAO the issuance and cancellation of so-called ‘granular certificates’; i.e. GOs marked not just with beginning and end dates, but also the time of production of energy. Over the course of two subsequent pilots, we demonstrated that the production and consumption of electricity can be matched on an hourly basis. This innovation holds many potential advantages, and we shall be contributing to its further development in the coming years.

News and perspectives regarding the national framework for energy tracking certificates

2021 saw the preparation by the Dutch government of an Act that is intended to facilitate the issuance of GOs for hydrogen produced from electrolysis. A ministerial decree describing the use of such GOs to demonstrate the supply of energy to the transport sector in accordance with the provisions of Directive (EU) 2018/2001 was published on the 23rd December.

Benefits to the company of AIB membership

Reliable issuance, transfer and cancellation of GOs builds on decades of work by the Association of Issuing Bodies. Its work on electricity paved the way for the certification of thermal energy and gas under the European Directive and for granular certificates. “The collective experience of 30 plus Issuing Bodies joined by the Association is and will remain truly indispensable.”

Remco van Stein Callenfels, Policy Advisor

Scope of national participation in EECS

Number of registered scheme participants	253
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
33 176	40 480

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Biomass	259	5309
Hydro	18	37
Solar	30 549	7417
Wind	1571	7627
Non-renewable	779	20 090

Certified EECS production as compared to national RES production (GWh)

EECS RES production*	National RES production
35 000	38 000

* preliminary estimate

The background of the page features a photograph of a high-voltage power line tower under construction on a grassy hillside. A large concrete base is visible in the foreground, and workers in safety gear are working on the structure. The sky is clear and blue.

Statnett

Name of the company
Statnett SF

Area of operation
Norway

Address
Nydalén Allé 33 /
PB 4904 Nydalén
0423 Oslo
Norway

www.statnett.no

REPORT FROM MEMBER

Profile of the organisation

TSO (Transmission System Operator)

Role

Issuing Body of EECS GOs for electricity.

Member of the AIB

Statnett has been a member of the AIB since 2001.

Statnett has issued RECS certificates since 2001 and became a member of the AIB on the 1st of January 2002. Statnett-issued certificates have been compliant with the EECS standard since 2011.

Activities within the AIB

- Ivar Munch Clausen, Chair of the Board
- Kristian Røst Hagen, Member of the Information Systems Unit

“Being part of the AIB provides the benefit of building a European network with colleagues working within the same field ...”

News and perspectives regarding the national IB

2021 was a full year of operation for the new NECS registry, provided by Unicorn Systems. During the peak activity periods the NECS solution has proven its worth and user experience has not been influenced by very high transaction volumes.

In 2021 the total EECS GO transaction volumes in NECS (imports, transfers, cancellation and exports) were more than 840 TWh, from nearly 40 000 transactions. Peak periods were January (18% of annual volume), March (13%) and December (14%).

Benefits to the company of AIB membership

Being part of the AIB provides the benefit of building a European network with colleagues working within the same field, aiming towards the future by setting common rules and guidelines. By having a common, functional and secure hub for transferring Guarantees of Origins, certificates can change owners in a safe and efficient manner. In addition, the collaboration with other members provides synergies and input on how to run and develop our registry.

Scope of national participation in EECS

Number of registered scheme participants	124
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
1 476	45 242

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
155 504 GWh	n/a

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Solar / Unspecified / Unspecified	2	0
Solar / Photovoltaic / Unspecified	3	1
Solar / Photovoltaic / Classic silicon	1	1
Wind / Unspecified / Unspecified	4	232
Wind / Unspecified / Onshore	66	5 023
Hydro-electric head installations / Unspecified / Unspecified	1 147	36 723
Hydro-electric head installations / Run-of-river head installation / Unspecified	213	2 342
Hydro-electric head installations / Storage head installation / Unspecified	33	838
Thermal / Unspecified / Unspecified	6	78
Thermal / Gas turbine with heat recovery / Unspecified	1	4



Name of the company

REN -
Rede Eléctrica Nacional S.A.

Area of operation
Portugal

Address
Avenida Estados Unidos da América, 55
1749-061 Lisboa
Portugal

www.ren.pt

REPORT FROM MEMBER

Profile of the organisation

Electricity Transmission System Operator

Role

REN is the authorised Issuing Body and Registry Operator for Guarantees of Origin for cogeneration, heating and cooling energy, electricity from renewable sources, as well as renewable and low-carbon gases. The work unit entrusted with the issuing is called EEGO – “Entidade Emissora de Garantias de Origem”, the Issuing Body for Guarantees of Origin. REN also operates as a Production Auditor.

Member of the AIB

Member of the AIB since 1st July 2020.

Activities within the AIB

In the AIB, REN is represented by:

- Isabel Fernandes – General Meetings;
- Miguel Jerónimo – ISU, EAU and GSG;
- Pedro Rodrigues – ESG and EECS Unit.
- João Silva – Alternate GSG member

“We strongly believe in the key role that AIB plays in supporting and developing the GO mechanism, as well as the GO market at a European level.”

News and perspectives regarding the national IB

2021 was the first full year of activity for EEGO. At the beginning of the year, there was an abnormal number of registrations of production facilities, due to the completion of the transition period that ended the previous year, and more than half of the almost 700 facilities currently registered had their registration completed during January.

The year was also marked by the start of the certification of the electricity generated through cogeneration and a considerable number of audits of these facilities.

In 2021, there was also a very significant increase in the volume of international operations when compared to 2020, with imports increasing from 0.7 TWh to 6 TWh and exports from 0.2 TWh to 17 TWh, resulting in EEGO's classification changing from a small to a large member. The expectation for 2022 is that EEGO's activity will continue to grow, despite the current drought conditions in Portugal, which have a significant impact on the volume of issued GOs.

News and perspectives regarding the national framework for energy tracking certificates

2021 was the year of the publication of a legal document that allowed the start of GO auctions for the generation of electricity in production facilities that benefit from a price or investment support regime. The first auction took place at the end of July, and by the end of the year, a total of five auctions had been held, resulting in a contribution of around 9.2 million euros for Portuguese consumers.

At the end of the year, specific legislation was also published regarding CHP generation, establishing a temporary exceptional regime that enables producers to change their remuneration regime, thus making it no longer mandatory to issue GOs, which will have an impact on the volume of HEC-GOs issued. This measure seeks to

mitigate the significant rise in prices of fossil fuels, namely natural gas, in the post-pandemic recovery period.

Benefits to the company of AIB membership

"We strongly believe in the key role that AIB plays in supporting and developing the GO mechanism, as well as the GO market at a European level, by facilitating the sharing of knowledge amongst members and conveying the much required transparency and trust to issuing bodies, agents, and, above all, to end consumers."

Miguel Jerónimo – ISU, EAU and GSG member

Scope of national participation in EECS

Number of registered scheme participants	343
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
690	15 440

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Solar	115	1 064
Wind	252	5 545
Hydro	149	7 282
Thermal	174	1 549

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production*
29 393	29 516

* TSO data



Name of the company
Joint stock company
Elektromreža Srbije,
Belgrade

Area of operation
Serbia

Address
Kneza Miloša 11
11 000 Belgrade
Serbia

www.ems.rs

REPORT FROM MEMBER

Profile of the organisation

EMS JSC Belgrade is the Transmission System Operator (TSO) established in 2005. The company is owned by the state and it operates and maintains the transmission system network in Serbia. The Serbian transmission system network operates on 110, 220 and 400 kV voltage levels.

The key business goal is safe and reliable electricity transmission, efficient control of the transmission system interconnected with power systems of other countries, optimal and sustainable development of the transmission system to meet the needs of users and society as a whole, ensuring the functioning and development of the electricity market in the Republic of Serbia and its integration into the regional and pan-European electricity market.

Role

According to primary and secondary legislation for the certificate scheme in Serbia, EMS JSC Belgrade is recognized as the Issuing Body for Guaranties of Origin from renewable sources, registry operator, measurement body for the production devices connected to the transmission grid, and responsible party for calculating the Serbian national residual mix.

“After successful connection to the AIB HUB, account holders from Serbia have already made transactions through the AIB HUB showing that being a part of AIB is important for allowing development of the GO market in Serbia.”

Member of the AIB

Member of the AIB since 2019.

Activities within the AIB

Representatives of EMS JSC Belgrade regularly attend the General Meetings of the AIB as well as EECS and Electricity Scheme Group meetings.

- GM: Jovana Drašković
- ESG and EECS Unit: Jovana Drašković

News and perspectives regarding the national IB

Beside RES-GOs, EMS was appointed as the Issuing Body for HEC-GOs according to primary legislation in 2021. It is foreseen that in 2022 EMS will issue the first HEC-GO.

The first audit following the successful AIB-Hub connection will be done in March/April 2022. Depending on the conclusions of the audit it is expected that a new version of the Domain Protocol shall be adopted.

News and perspectives regarding the national framework for energy tracking certificates

In 2021 new RES and Energy efficiency laws were adopted. This legal framework for the certification scheme in Serbia kept the provisions drafted previously in the Energy Law and by-law legislation for Guarantees of Origin which were in force from 2017. All of the technical requirements and legal frameworks have been implemented following the EECS rules and best practice recommendations from

the AIB. New HEC-GOs will be introduced, and secondary legislation is being written.

Benefits to the company of AIB membership

The main benefits for EMS JSC Belgrade being part of the AIB are that it enables us to actively gather knowledge of the EECS certificate schemes with the main goal to maintain the certificate scheme in Serbia fully under the EECS rules, in compliance with the quality standards set up by the AIB and to develop competent market opportunities for all EECS Scheme participants.

Being part of the AIB allows EMS JSC Belgrade to develop and exchange new ideas and gather experience from other AIB members and observers.

Additional information

After successful connection to the AIB HUB, Serbian account holders have already made transactions through the AIB HUB showing that being part of AIB is important for allowing development of the GO market in Serbia. Therefore EMS JSC is happy to continue good cooperation with AIB and its members.

Scope of national participation in EECS

Number of registered scheme participants	12
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
17	2 197,331

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Hydro	12	2 196,33
Solar	5	1,001

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
8 134,41	12 280



Name of the company

OKTE, a.s.

Area of operation
Slovakia

Address
Mlynské nivy 48
821 09 Bratislava

www.okte.sk

REPORT FROM MEMBER

Profile of the organisation

OKTE, a.s. is authorised by law to perform activities as the Short-term Electricity Market Operator in the Slovak Republic.

From its establishment in 2011, the portfolio of services offered by the company has been gradually extended. Currently, OKTE, a.s. is an important player in the Slovak electricity market responsible for:

- Organisation and settlement of the short-term cross-border electricity market
- Collection and administration of metering data
- Imbalance and balancing energy settlement
- Central invoicing
- Administration and settlement of the support scheme for electricity from RES and CHP including Feed-in-Tariff and Feed-in-Premium
- Administration, transfers and market organisation for GOs for electricity from RES and CHP

“The membership gives us the possibility to interact with other professionals from other member states of the AIB.”

Role

OKTE, a.s. is the Issuing Body for Guarantees of Origin in Slovakia. It is also appointed as the Competent Authority for administration of the Feed-in Tariff (FIT) and Feed-in Premium (FIP) scheme for Renewable and High-Efficiency co-generation.

Member of the AIB

OKTE became member of the AIB in September 2019.

Activities within the AIB

OKTE is represented in the AIB General Meetings, ESG and EECS unit by Ondrej Kulich.

News and perspectives regarding the national IB

OKTE has started a project on an electronic database called Datahub, that will create a centralized point for all of the market participants including end consumers who will have the option to change suppliers within 24 hours or to see what GOs were cancelled towards them.

News and perspectives regarding the national framework for energy tracking certificates

As mentioned previously, the national registry is constantly improving from the inputs from users. The Slovakian RES Law is in the process of being amended and there will be a possibility to issue GOs for all electricity, to issue gas GOs and GOs for heating and cooling.

Benefits to the company of AIB membership

The main benefit of being a member of AIB is that it enables reliable transfers of GOs across Europe. Also, the membership gives us the possibility to interact with other professionals from other member states of the AIB.

Additional information

The auctions organized by OKTE, a.s. are welcomed by the suppliers that appreciate the option to buy GOs from Slovak production devices and the amount of the liquidity of the Slovak GOs. The revenue is fed back to the RES system. In 2022 OKTE will work to broaden the offered products and offer new types of technologies in the auction.

Scope of national participation in EECS

Number of registered scheme participants	51
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
2 429	3 245

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Hydropower	274	2 544
Solar PV devices > 10kW	1 416	533
Solar PV devices < 10 kW	738	5
Biomass	1	163

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
4 812	0



Name of the company
Agencija za energijo

Area of operation
Slovenia

Address
Strossmayerjeva ulica 30
Maribor
Slovenia

www.agen-rs.si

REPORT FROM MEMBER

Profile of the organisation

National Regulatory Authority

Role

The Energy Agency is the National Regulatory Authority for electricity and gas in Slovenia and the Slovenian Issuing Body of GOs for renewable electricity and electricity from high efficiency CHP. It is also the Competent Authority for issuing renewable and CHP production declarations that are needed by production devices to be eligible for the issuing of GOs for their electricity production and to enter the Slovenian support scheme. In addition to this, the Energy Agency is the Slovenian Competent Authority for disclosure.

Member of the AIB

Member of the AIB since 2004.

Activities within the AIB

– Blaž Bratina – Representative at GM, EECS Unit and ESG

“Customers can select between various electricity products, the origin of which is guaranteed by reliable instruments – EECS Guarantees of Origin.”

News and perspectives regarding the national IB

The Energy Agency will follow the developments in the field of European energy legislation and will take over all responsibilities given to it by the national implementation of this legislation. This may include the introduction of new certificate schemes. The Agency intends to remain an AIB member to offer the producers and traders the possibility to internationally trade with all of the certificates

used in Slovenia. It will also closely cooperate with the Slovenian stakeholders, including the ministry responsible for energy, which is responsible for national GO legislation.

News and perspectives regarding the national framework for energy tracking certificates

In accordance with the new Decree on support for electricity generated from renewable energy sources and high-efficiency cogeneration of heat and electricity, the Energy Agency in 2020 performed two tendering procedures for selection of new entrants to the national support system. The procedures started by publishing an invitation for submission of applications for new entrants. After the deadline for submission, the Agency selected the new entrants from the candidates based on the approved increase in funds for support and the price offered to produce electricity.

Benefits to the company of AIB membership

The Energy Agency, as the National Regulatory Authority, is responsible for promoting a competitive, secure and environmentally sustainable electricity market for all market participants, including all customers, traders and suppliers. Being an AIB member puts us in the position to ensure that all the necessary conditions are met for market participants to benefit from the market. Suppliers can offer electricity produced in an environmentally friendly way to their customers, while traders can internationally exchange attributes of such electricity. The most important outcome of these facts is that the customers can select between various electricity products, the origin of which is guaranteed by reliable instruments – EECS Guarantees of Origin.

Membership of the AIB also gives us the opportunity to meet colleagues from other countries and to actively participate in the creation of new standards for certifying electricity, and other energies, regarding their source and production method.

Scope of national participation in EECS

Number of registered scheme participants	5
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
1 407	2 868

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Hydro	197	1 076
Solar	1 122	127
Wind	2	3
Biogas	11	10
Biomass	4	1
CHP	66	27
Fossil	4	928
Nuclear	1	696

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
4 478	5 067



Name of the company
CNMC

Area of operation
Spain

Address
Alcalá, N° 47
Madrid, 28014
Spain

www.cnmc.es

REPORT FROM MEMBER

Profile of the organisation

CNMC is the Spanish regulator for the energy sector, as well as telecoms, audio-visual media, transport and postal sectors, and the Spanish competition authority.

Role

(By law): Competent Authority for electricity Guarantees of Origin, disclosure of electricity, production device inspection and also Competent Authority for support schemes clearance and payment. Since January 2019, CNMC has had new responsibilities for electricity and gas tariffs, as well as issues related to grid access of new generation.

“In 2021 a yearly peak of GO exports from Spain was reached, of more than 33 million GOs.”

Member of the AIB

CNMC has been a member of the AIB since March 2016.

Activities within the AIB

- CNMC participates in AIB meetings and is usually represented by Jose Miguel Unsion.
- CNMC is also part of regulator’s Associations such as CEER, MEDREG and ARIAE.

News and perspectives regarding the national framework for energy tracking certificates

There was a new update to the disclosure legislation in February 2021 that entered into force in 2022.

Benefits to the company of AIB membership

“Another benefit is to enhance the management system for exports and imports of Guarantees of Origin, using the AIB platform or hub.”
Former CNMC Director General for Energy

Scope of national participation in EECS

Number of registered scheme participants	66 576
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* There are no “Scheme participants”. All production devices eligible (66 157) and all Spanish supplier companies (419) can participate in the system

Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
66 157	69 944

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
33 334	117 148



Name of the company
Energimyndigheten

Area of operation
Sweden

Address
Gredbyvägen 10
632 21 Eskilstuna
Sweden

www.energimyndigheten.se

REPORT FROM MEMBER

Profile of the organisation

Government agency

Role

Competent Body and Issuing Body for Guarantees of Origin (GOs) for electricity.

Member of the AIB

Member of the AIB since June 2017.

Activities within the AIB

- Martina Berg, representative in the GM
- Eva Nordlander, member of the EECS unit, ESG and GSG
- Elin Mendenhall, representative in the GM, member of the EECS unit and ESG
- Ulrika Bergström, member of the ISU
- Nina Emanuelsson, member of the ISU
- Johan Forsman, member of the GSG

“The establishment of contacts within other EU member states facing the same challenges as we do is also an important part of our membership.”

News and perspectives regarding the national IB

The work for Energimyndigheten during 2021, similar to 2020, has been characterised by the work connected to the implementation of RED II. Guarantees of Origin schemes for additional energy carriers such as gas and heating are under development. The scheme for electricity Guarantees of Origin will be undergoing a revision and modernisation throughout the course of 2021/2022.

During 2021 Energimyndigheten recruited new colleagues, which has resulted in an increased number of representatives in the groups within AIB.

News and perspectives regarding the national framework for energy tracking certificates

As an appointed advisory body, Energimyndigheten have been involved in the ongoing legal modifications derived from the REDII implementation. The Swedish government have proposed changes to the Act (2010: 601) on Guarantees of Origin for electricity to also cover GOs for other energy carriers such as heating, cooling and gas. The proposed changes are still being processed by the Swedish government.

Benefits to the company of AIB membership

AIB, and the AIB hub, provide for an efficient and reliable transfer of Guarantees of Origin between members. The establishment of contacts within other EU member states facing the same challenges as we do is also an important part of our membership. This helps us to develop good practices and gain experience from lessons learned by others.

Additional information

The electricity prices in late 2021 has led to an increased interest of solar panel installations in Sweden, Energimyndigheten are awaiting to see how this affects the market for GOs in Sweden.

Scope of national participation in EECS

Number of registered scheme participants	532
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
2 697	31 552,2

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Hydropower	396	18 733,4
Thermal (excl. Nuclear)	15	1 425,0
Wind onshore	2 278	9 777,8
Wind offshore	4	162,6
Solar power	3	3,4
Nuclear	1	1 450,0

Certified EECS production as compared to national RES production (GWh)

EECS RES production	National RES production
88 231,4	112 880,0



Name of the company
Pronovo AG

Area of operation
Switzerland

Address
Dammstrasse 3
CH-5070 Frick
Switzerland

www.pronovo.ch

REPORT FROM MEMBER

Profile of the organisation

Pronovo is responsible for the financial support of renewable energy production and the issuing of Guarantees of Origin in Switzerland. Pronovo is a 100% subsidiary company of Swissgrid, which is the Transmission System Operator (TSO) of Switzerland.

Role

Pronovo is the sole competent Issuing Body for Guarantees of Origin in Switzerland. Pronovo has been mandated with this task by law and is accredited by the Swiss Accreditation Service (SAS). The Swiss Federal Office of Energy is the official authority for the supervision of issuing Guarantees of Origin for electricity as well as for the supervision of electricity disclosure in Switzerland. The legal basis is given in article 63 of the Federal Energy Act as well as in the Energy Ordinance, the Energy Support Ordinance and the Ordinance on Guarantees of Origin and Electricity Disclosure.

Member of the AIB

Switzerland has been an AIB member since 2002.

“With the implementation of an integrated GO System in Switzerland, Pronovo will benefit from the AIB’s EECS Scheme extension and will be able to issue and provide GOs which are compatible for trading in the European market.”

Activities within the AIB

- Lukas Groebke: Board (Vice Chair, Vice Treasurer), GSG
- Andrea Miksch: ESG, EECSU
- Milada Mehinovic: EAU (Chair)
- Katja Hassouna: ISU
- Fabian Möller: TF Fraud Protection

News and perspectives regarding the national IB

In 2020 Pronovo started a project to replace its GO registry with a completely new one. In 2021 the project was focused on the tender process and the selection of the solution provider. The implementation starts in 2022. The new system is due to be operational by the middle of 2023.

In the future Switzerland will not only issue Guarantees of Origin for electricity but also for all types of liquid and gaseous energy carriers. Therefore, Pronovo has been mandated to be the Issuing Body for all energy carriers as of 2024. The new system will be ready to support all types of GOs. The goal is to have one fully integrated GO registry for Switzerland.

News and perspectives regarding the national framework for energy tracking certificates

Since 2018 any electricity supply in Switzerland must be disclosed based on GOs only, whether it refers to domestic or foreign production. As a result of this in 2020, Switzerland has reduced its share of electricity from unknown sources to 2%. With the end of the

transitory period, the Swiss end consumers will have 100% transparency due to the full disclosure scheme starting from 2021.

Support for electricity production plants from renewable energies through the existing feed-in tariff system is limited. With the current revision of the Energy Act, measures such as operating cost support for biomass plants, investment support auctions for large scale photovoltaic plants and higher contributions for photovoltaic plants without own consumption, will be implemented.

Benefits to the company of AIB membership

The AIB's extension of the EECS Scheme to other energy sources and their cooperation with ErGaR is the success factor for a Pan-European harmonisation of standards and infrastructure for Guarantees of Origin for all energy sources.

With the implementation of an integrated GO System in Switzerland, Pronovo will benefit from the AIB's EECS Scheme extension and will be able to issue and provide GOs which are compatible for trading in the European market.

Scope of national participation in EECS

Number of registered scheme participants	2 623
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Registered production devices and total capacity installed

Number of production devices	Total capacity installed (MW)
131 468	23 758

Registered production devices and total capacity installed per technology

Technology	Number of production devices	Total capacity installed per technology (MW)
Biomass	410	505
Hydro	1 482	16 455
Solar	129 267	3 047
Wind onshore	68	89
Nuclear	4	3 014
Crude oil	19	14
Natural gas	186	281
Waste	32	353

Certified EECS production as compared to national production (GWh)

EECS RES production	EECS non-RES production	National production
39 631	19 852	59 483

Name of the company

Operator za OIEiEK

Area of operation

Federation of
Bosnia and Herzegovina

Address

Adema Buća 34

88 000 Mostar

Bosnia and Herzegovina

www.operatoroieiek.ba

REPORT FROM OBSERVER

Profile of the organisation

Operator za OIEiEK was established by the Government of the Federation of Bosnia and Herzegovina as the institution responsible for the implementation of the system for incentivised production of renewable electricity energy. Operator za OIEiEK aggregates surcharges from electricity consumers and uses it for payment to eligible producers.

Role

Operator za OIEiEK is an authorised Issuing Body for issuing, transferring and cancelling renewable electricity Guarantees of Origin, as well as an administrator of the GO Registry.

Member of the AIB

Observer since 2021, after the AIB Board granted observer status in April.

Activities within the AIB

Almir Muhamedbegović, as a representative of the Operator za OIEiEK, regularly participates in AIB meetings as well as contributing to the Electricity Scheme Group within the organization.

News and perspectives regarding the national IB

Since current Renewable Energy law in the Federation of Bosnia and Herzegovina does not define the disclosure body and disclosure obligations, these issues are to be resolved by the new Renewable Energy Law

News and perspectives regarding the national framework for energy tracking certificates

The draft of the new Renewable Energy Law is to be voted on by the Parliament of the Federation of Bosnia and Herzegovina by the end of July 2022. Public debates are to be held as well, prior to the final adoption of the new Renewable Energy Law.

Benefits to the company of AIB membership

Being an Observer within the AIB is a great chance to exchange practical knowledge from the best sources on the implementation of EECS across Europe as a standardised solution.



Name of the company

Sustainable Energy
Development Agency

Area of operation
Bulgaria

Address
11 Serdika str
Sofia, 1000
Bulgaria

www.seea.government.bg

REPORT FROM OBSERVER

Profile of the organisation

The Sustainable Energy Development Agency is an executive agency to the Minister of Energy.

Role

Among other activities, SEDA is the Issuing Body of internationally transferable Guarantees of Origin (GOs) for electricity in Bulgaria. SEDA is also the administrator of the GO Registry in the country. SEDA's functions are set out in The Law on Energy from Renewable Sources and The Energy Efficiency Act.

SEDA is responsible for the implementation of the state policy on increasing energy efficiency, as well as for promoting the production and consumption of electricity, heat and cooling energy from renewable sources.

Member of the AIB

An observer status application was submitted early 2020. On the 10th of September 2020 the AIB board formally approved SEDA as an Observer to the AIB Electricity Scheme.

SEDA's membership of the AIB should become part of a larger reform under the National Recovery and Resilience Plan. Thus we hope to build an even more transparent and reliable national GOs system in Bulgaria which supports national and international legislation and harmonizes with the systems of other partner countries.

Activities within the AIB

We are really looking forward to joining the AIB activities. We hope when SEDA officially becomes a member we will have the chance to participate more and more often.

News and perspectives regarding the national IB

SEDA is an active participant in the discussions and plan to begin drafting in regards to introducing a new scheme – GOs for hydrogen.

SEDA aims to connect to the AIB Hub and facilitate GOs trade with the other AIB member states. Support for energy from RES producers is one of the main policy goals of SEDA. In this regard we see the possibility of transferring Guarantees of Origin through the hub as an opportunity to support such business not only locally but Europe-wide.

News and perspectives regarding the national framework for energy tracking certificates

Bulgaria is making consistent efforts to liberalize the electricity market.

Benefits to the company of AIB membership

The partnership with AIB will increase the international prestige of SEDA and gives us the opportunity to study and apply the best practices related to the issuance and transfer of GOs. The AIB Hub is a reliable tool for the secure exchange of GOs, which will provide national producers with access to new partners.

Additional information

At SEDA we will concentrate efforts to develop an accurate, reliable, fraud-resistant GO system, which harmonises with the systems of other European countries.



Name of the company
Hinicio

Area of operation
Europe

Address
WeWork Botanic
Boulevard Saint-Lazare 4-10
B-1210 Brussels
Belgium

www.hinicio.com

REPORT FROM OBSERVER

Profile of the organisation

Hinicio is the leader and coordinator of the CertifHy 3 project, funded by the Fuel Cell and Hydrogen Joint Undertaking (FCH 2 JU). One of the main objectives of CertifHy Phase 3 will be to establish harmonized Guarantees of Origin schemes for hydrogen across Europe.

Hinicio have joined the AIB Gas Scheme Group as an observer. Mr. Wouter Vanhoudt, CertifHy project leader, was appointed as chair of the AIB Gas Scheme Group and as a member of the AIB Board. CertifHy and AIB will use the preliminary research of CertifHy to facilitate the update of the EECS Rules for renewable gases, including hydrogen. The CertifHy scheme will also be updated so that it becomes compliant with the RED II, the CEN EN16325 standard and the EECS rules, to facilitate cross border transfers.

Role

The CertifHy project operates a NGC scheme (<https://www.certifhy.eu>) and an Issuing Body for hydrogen which will apply for recognition as an ICS in 2021.

Member of the AIB

Observer since 2020

Activities within the AIB

Wouter Vanhoudt – Chair Gas Scheme Group, AIB Board Member
Matthieu Boisson – Member, Gas Scheme Group

News and perspectives regarding the national IB

Hydrogen GO schemes are yet to be implemented by Member States.

Hinicio is closely following the development of schemes in Europe within the scope of the CertifHy project and can be contacted by appointed and not yet appointed Issuing Bodies for questions related to H2 GOs.

Benefits to the company of AIB membership

H2 GOs are still at their infancy and must take advantage of the lessons learned by the electricity GO market over the years. Being part of the AIB and contributing to the development of the EECS Gas Rules will foster the implementation of an efficient and harmonized GO market for hydrogen in Europe.

AUDIT REPORT


MOORE
Moore Audit

 Esplanade 1 box 96
1020 Brussel

T +32 2 743 40 20

www.moore.be

 ASSOCIATION
OF ISSUING BODIES IVZW
For the attention of the board of directors
Visverkopersstraat 13
1000 BRUSSELS

INDEPENDENT PRACTITIONER'S REVIEW REPORT ISRE 2400 TO THE BOARD OF DIRECTORS OF ASSOCIATION OF ISSUING BODIES IVZW FOR THE YEAR ENDED ON 31 DECEMBER 2021

We have reviewed the accompanying financial statements of the Association of Issuing Bodies IVZW for the year ended 31 December 2021. This balance sheet and income statement shows a balance sheet total of € 1.355.536,17 and a profit of the financial year of € 373.399,18.

Management's Responsibility for the Financial Statements

The management is responsible for the preparation and fair presentation of these financial statements in accordance with the financial reporting framework applicable in Belgium, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

Practitioner's Responsibility for the Financial Statements

Our responsibility is to express a conclusion on the accompanying financial statements. We conducted our review in accordance with the International Standard on Review Engagements ("ISRE") 2400, Engagements to Review Historical Financial Statements. ISRE 2400 requires us to conclude whether anything has come to our attention that causes us to believe that the financial statements, taken as a whole, are not prepared in all material respects in accordance with the applicable financial reporting framework. This Standard also requires us to comply with relevant ethical requirements.

A review of financial statements in accordance with ISRE 2400 is a limited assurance engagement. The practitioner performs procedures, primarily consisting of making

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inquiries of management and others within the entity, as appropriate, and applying analytical procedures, and evaluates the evidence obtained.

The procedures performed in a review are substantially less than those performed in an audit conducted in accordance with International Standards on Auditing. Accordingly, we do not express an audit opinion on these financial statements.

Conclusion

Based on our review, nothing has come to our attention that causes us to believe that these financial statements do not present fairly, in all material respects, the financial position of the Association of Issuing Bodies IVZW as at 31 December 2021, and its financial performance for the year then ended, in accordance with the financial reporting framework applicable in Belgium.

Brussels (Belgium), 4 May 2022

Moore Audit BV,
represented by:

Jimmy
Depré
(Signature)
re)

Jimmy Depré,
Certified auditor


MOORE

ASSOCIATION OF ISSUING BODIES IVZW 2/2

201				1	EUR	
NAT.	Filing date	Nr.	P.	U.	D.	A-npo 1

**ANNUAL ACCOUNTS AND OTHER DOCUMENTS
TO BE FILED UNDER BELGIAN COMPANIES
AND ASSOCIATIONS CODE**

IDENTIFICATION DETAILS (on date of deposit)

NAME: *Association of Issuing Bodies*

Legal form: *International non-profit organization*

Address: *Koning Albert II-Laan* Nr.: *20* Box: *19*

Postal code: *1000* Municipality: *Brussels*

Country: *Belgium*

Register of legal persons - Commercial court of : *Brussels, Dutch-speaking*

Website address¹:

Company identification number *0864.645.330*

DATE *16 / 12 / 2020* of filing the memorandum of association OR of the most recent document mentioning the date of publication of the memorandum of association and of the act amending the articles of association.

ANNUAL ACCOUNTS ANNUAL ACCOUNTS IN EUROS (2 decimals)

approved by the general meeting of² *20 / 05 / 2022*

Regarding the financial year from *01 / 01 / 2021* to *31 / 12 / 2021*

Preceding financial year from *01 / 01 / 2020* tot *31 / 12 / 2020*

The amounts for the preceding period are ~~not~~³ identical to the ones previously published

Total numbers of pages filed: *10* Numbers of sections of the standard form not filed because they serve no useful purpose: *6.1, 2, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 7, 8*

Ivar Clausen
President

Liesbeth Switten
Executive director

¹ Optional information.

² By the board of directors in the case of a foundation / by the general management in case of an international non-profit association

³ Strike out what is not applicable.

OCR9002

Nr.	<i>0864.645.330</i>	A-npo 2.1
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**LIST OF THE DIRECTORS, BUSINESS MANAGERS AND AUDITORS
AND STATEMENT REGARDING AN ADDITIONAL
ORDER FOR REVIEW OR CORRECTION**

LIST OF THE DIRECTORS, BUSINESS MANAGERS AND AUDITORS

COMPLETE LIST with surname, first names, profession, place of residence (address, number, postal code and municipality) and position within the company

<p><i>Ilona Bruins</i> <i>Hoestraat 6, 6905 CC Zevenaar, Netherlands</i></p> <p><i>Annie Desaulniers</i> <i>Rue Basse 6, 4711 Walhorn, Belgium</i></p> <p><i>Elke Mohrbach</i> <i>Wintgensstrasse 8, 12101 Berlin, Germany</i></p> <p><i>Wouter Vanhoudt</i> <i>Belpairestraat 66, 2600 Berchem (Antwerp), Belgium</i></p> <p><i>Ivar Clausen</i> <i>Jorgen Lovlands gate 23 box c, N-0569 Oslo, Norway</i></p> <p><i>Lukas Groebke</i> <i>Hauptstrasse 125, 4102 Binningen, Switzerland</i></p>	<p style="text-align: right;"><i>Director</i> <i>27/11/2020 - 26/11/2022</i></p> <p style="text-align: right;"><i>Director</i> <i>27/11/2020 - 26/11/2022</i></p> <p style="text-align: right;"><i>Director</i> <i>27/11/2020 - 26/11/2022</i></p> <p style="text-align: right;"><i>Director</i> <i>27/11/2020 - 26/11/2022</i></p> <p style="text-align: right;"><i>Chairman of the board of directors</i> <i>27/11/2020 - 26/11/2022</i></p> <p style="text-align: right;"><i>Vice-chairman of the board of directors</i> <i>27/11/2020 - 26/11/2022</i></p>
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AUDITING OR ADJUSTMENT MISSION

Optional information:

- if the annual accounts were audited or corrected by an external accountant or by a company auditor who is not the statutory auditor, mention name, surnames, profession and address of each external accountant or company auditor and his membership number with his institute, as well as the nature of his assignment:

- A. Bookkeeping of the association or foundation,
- B. Preparing the annual accounts,
- C. Auditing the annual accounts and/or
- D. Correcting the annual accounts.

- if the tasks mentioned under A or B are executed by certified accountants or certified bookkeepers – tax specialists, you can mention hereafter: name, surnames, profession, address of each certified accountant or certified bookkeeper – tax specialist and the nature of his hereafter: name, surnames, profession, address of each certified accountant or certified bookkeeper – tax specialist and the nature of his assignment.

Name, surnames, profession and address	Membership number	Nature of the assignment (A, B, C and/or D)
De Kleine Prins BV Nr.: 0466.721.042 Zwartzusterstraat 14, 3000 Leuven, Belgium	50296924	AB
Represented by: Bruno Deprins Pastoor Legrandstraat 57, 3012 Wilsele, Belgium	10413150	

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ANNUAL ACCOUNTS

BALANCE SHEET AFTER APPROPRIATION

	Discl.	Codes	Period	Preceding period
ASSETS				
FORMATION EXPENSES		20	.....	.....
FIXED ASSETS		21/28	155.793,93	138.283,89
Intangible fixed assets	6.1.1	21	153.130,03	135.619,99
Tangible fixed assets	6.1.2	22/27	.....	.....
Land and buildings		22	.....	.....
Plant, machinery and equipment		23	.....	.....
Furniture and vehicles		24	.....	.....
Leasing and similar rights		25	.....	.....
Other tangible fixed assets		26	.....	.....
Assets under construction and advance payments		27	.....	.....
Financial fixed assets	6.1.3	28	2.663,90	2.663,90
CURRENT ASSETS		29/58	1.199.742,24	839.739,72
Amounts receivable after more than one year		29	.....	.....
Trade debtors		290	.....	.....
Other amounts receivable		291	.....	.....
Stocks and contracts in progress		3	.....	.....
Stocks		30/36	.....	.....
Contracts in progress		37	.....	.....
Amounts receivable within one year		40/41	345.204,82	467.761,97
Trade debtors		40	219.825,40	380.003,80
Other amounts receivable		41	125.379,42	87.758,17
Current investments		50/53	.....	.....
Cash at bank and in hand		54/58	803.340,09	363.396,87
Deferred charges and accrued income		490/1	51.197,33	8.580,88
TOTAL ASSETS		20/58	1.355.536,17	978.023,61

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Disc.	Codes	Period	Preceding period
EQUITY AND LIABILITIES			
	10/15	1.037.973,80	664.574,62
EQUITY	10/15	1.037.973,80	664.574,62
Association or foundation Funds	6.2	10	
Revaluation surpluses	12		
Allocated funds	6.3	13	
Accumulated profits (losses)	(+)/(-)	14	1.037.973,80
Investment grants	15		
PROVISIONS AND DEFERRED TAXES	6.2	16	
Provisions for liabilities and charges	160/5		
Pensions and similar obligations	160		
Taxation	161		
Major repairs and maintenance	162		
Environmental obligations	163		
Other liabilities and charges	164/5		
Provisions for grants and legacies to reimburse and gifts with a recovery right	167		
Deferred taxes	168		
AMOUNTS PAYABLE	17/49	317.562,37	313.448,99
Amounts payable after more than one year	6.3	17	
Financial debts	170/4		
Credit institutions, leasing and other similar obligations	172/3		
Other loans	174/0		
Trade debts	175		
Advances received on contracts in progress	176		
Other amounts payable	178/9		
Amounts payable within one year	6.3	42/48	82.413,83
Current portion of amounts payable after more than one year falling due within one year	42		
Financial debts	43		
Credit institutions	430/8		
Other loans	439		
Trade debts	44	82.413,83	259.067,62
Suppliers	440/4	82.413,83	259.067,62
Bills of exchange payable	441		
Advances received on contracts in progress	46		
Taxes, remuneration and social security	45		
Taxes	450/3		
Remuneration and social security	454/9		
Miscellaneous amounts payable	48		
Accruals and deferred income	492/3	235.148,54	54.381,37
TOTAL LIABILITIES	10/49	1.355.536,17	978.023,61

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INCOME STATEMENT

Disc.	Codes	Period	Preceding period
Operating income and charges			
Gross operating margin	(+)/(-)	9900	461.776,19
Non-recurring operating income	76A		
Turnover*	70		
Contributions, gifts, legacies and grants*	73	1.317.500,00	1.246.416,67
Raw materials, consumables, services and other goods*	60/61	911.526,99	1.402.053,21
Remuneration, social security costs and pensions	(+)/(-)	62	
Depreciation of and other amounts written off formation expenses, intangible and tangible fixed assets	630	84.898,96	33.677,37
Amounts written off stocks, contracts in progress and trade debtors: Appropriations (write-backs)	(+)/(-)	631/4	
Provisions for liabilities and charges: Appropriations (uses and write-backs)	(+)/(-)	635/9	
Other operating charges	640/8		
Operating charges carried to assets as restructuring costs (-)	649		
Non-recurring operating charges	66A		
Operating profit (loss)	(+)/(-)	9901	376.877,23
Financial income	6.4	75/76B	2,08
Recurring financial income	75		2,08
Non-recurring financial income	76B		
Financial charges	6.4	65/66B	3.480,13
Recurring financial charges	65		3.480,13
Non-recurring financial charges	66B		
Gain (loss) for the period before taxes	(+)/(-)	9903	373.399,18
Transfer from deferred taxes	780		
Transfer to deferred taxes	680		
Income taxes	(+)/(-)	67/77	
Gain (loss) of the period	(+)/(-)	9904	373.399,18
Transfer from untaxed reserves	789		
Transfer to untaxed reserves	689		
Gain (loss) of the period available for appropriation	(+)/(-)	9905	373.399,18

* Optional information.

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APPROPRIATION ACCOUNT

	Codes	Period	Preceding period
Profit (loss) to be appropriated(+) / (-)	9906	1.037.973,80	664.574,62
Gain (loss) of the period available for appropriation(+) / (-)	(9905)	373.399,18	265.596,50
Profit (loss) brought forward(+) / (-)	14P	664.574,62	398.978,12
Withdrawals from capital and reserves	791	.....	.....
Appropriations to allocated funds	891
Profit (loss) to be carried forward(+) / (-)	(14)	1.037.973,80	664.574,62

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EXPLANATORY DISCLOSURES

STATEMENT OF FIXED ASSETS

	Codes	Period	Preceding period
INTANGIBLE FIXED ASSETS			
Acquisition value at the end of the period	8059P	xxxxxxxxxxxxxx	181.729,90
Movements during the period			
Acquisitions, including produced fixed assets	8029	102.409,00	
Sales and disposals	8039	.....
Transfers from one heading to another(+) / (-)	8049	.....
Acquisition value at the end of the period	8059	284.138,90	
Depreciations and amounts written down at the end of the period	8129P	xxxxxxxxxxxxxx	46.109,91
Movements during the period			
Recorded	8079	84.898,96	
Written back	8089	.....
Acquisitions from third parties	8099	.....
Cancelled owing to sales and disposals	8109	.....
Transferred from one heading to another(+) / (-)	8119	.....
Depreciations and amounts written down at the end of the period	8129	131.008,87	
NET BOOK VALUE AT THE END OF THE PERIOD	(21)	153.130,03	

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	Codes	Period	Preceding period
FINANCIAL FIXED ASSETS			
Acquisition value at the end of the period	8395P	xxxxxxxxxxxxxx	2.663,90
Movements during the period			
Acquisitions	8365	.....
Sales and disposals	8375	.....
Transfers from one heading to another	8385	(+)(-)	
Other movements	8386	(+)(-)	
Acquisition value at the end of the period	8395	2.663,90	
Revaluation surpluses at the end of the period	8455P	xxxxxxxxxxxxxx	
Movements during the period			
Recorded	8415	.....
Acquisitions from third parties	8425	.....
Cancelled	8435	.....
Transferred from one heading to another	8445	(+)(-)	
Revaluation surpluses at the end of the period	8455	.....
Amounts written down at the end of the period	8525P	xxxxxxxxxxxxxx	
Movements during the period			
Recorded	8475	.....
Written back	8485	.....
Acquisitions from third parties	8495	.....
Cancelled owing to sales and disposals	8505	.....
Transferred from one heading to another	8515	(+)(-)	
Amounts written down at the end of the period	8525	.....
Uncalled amounts at the end of the period	8555P	xxxxxxxxxxxxxx	
Movements during the period	8545	(+)(-)	
Uncalled amounts at the end of the period	8555	
NET BOOK VALUE AT THE END OF THE PERIOD	(28)	2.663,90	

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VALUATION RULES

VALUATION RULES

Intangible fixed assets:

These are valued at the purchase price and depreciated at the following percentage: 33.33% linear.

Claims

Operating receivables and other receivables are valued at nominal value. If the realisation value of the claims at the balance sheet date is lower than the book value, amounts written off are applied.

Debts

The debts are valued at nominal value.

Provisions

Provisions for risks and costs are booked for foreseeable risks and clearly defined losses or costs incurred during the financial year to which the financial statements relates or during previous financial years and which are certain or probable at the balance sheet date, but the amount of which is not fixed.

Grants

In the annual accounts, under the code 492/3 Accrued charges and deferred income at 31 December 2021, an estimated amount of EUR 80,868.11 has been included as a debt related to the Horizon2020 project "REGATRACE" to subsidise personnel costs for the REGATRACE project running since 2020.

Although this amount was calculated on the basis of the grant agreement in force, it may differ from the final settlement because of the scope for interpretation of the grant agreement.

The board of directors has tried to make a conservative estimate of the grant income that it considers to have been acquired with certainty and has incorporated this in its financial statements.

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SUSTAINABILITY STATEMENT

As an international Association working towards the energy transition, AIB wants to live by example.

The AIB takes responsibility for its own organisation and seeks to make its own structures and organisation both environmentally and socially friendly. Specifically via communications (e.g. website and emails) and the meetings it holds across Europe. AIB wants to go the extra mile.

Since 2012, the AIB wanted to have a sustainable impact, and take further responsibility of its operations through the following steps:

- Powering its computers using renewable energy; and have the website certified by [Wattimpact](#).
- Many years of physical meetings gave an overview of CO2 emissions due to travels from all over Europe. Even without physical meetings, we decided to support communities, protect

biodiversity and improve prosperity via certified climate action projects. For 2021, a total of 100 tCO2 was compensated by [SouthPole](#). 100t is twice the amount of a rough estimate of the CO2 emitted due to travelling in the year 2019 and before.

- From 2021, AIB no longer prints the Annual Report and only publishes it online. The EECS Rules® brochures are printed on the most environmentally friendly paper (FSC paper, 100% post-consumer recycled) in cooperation with the printing company [Lokay](#), which has committed itself to be a sustainable printer.
- When physical meetings are taking place we seek venues (e.g. hotels) with environmental management certification, and preferably those which engage in other activities relating to improving energy efficiency, reducing environmental impact and supporting social responsibility. One aspect of this, is to give preference to regional food with a good choice of vegetarian and vegan options.

Association of Issuing Bodies ivzw

The AIB is a non-profit-making
international association

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Website: www.aib-net.org
Email: info@aib-net.org

Registered offices

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AIB

association of issuing bodies

