Standardizing Global Attribute Markets

1–2 November 2022
Bangkok

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Welcome to the I-REC Standard Conference (ISC) 2022

Welcome to the I-REC Standard Foundation’s first international conference. The I-REC Standard Conference (ISC) 2022 is an opportunity for global I-REC market actors, facilitators, stakeholders, and governmental agencies to meet each other and get up to date on the existing governance structure, upcoming product codes, and market developments, and to share their thoughts, visions, and experiences with their peers from around the world.

This program details the wide range of conference sessions that cover the latest attribute tracking market information and practices around the world including developments with the I-REC for electricity, as well as new and upcoming products, changing government policies, and industry perspectives. These sessions reflect the industries leading trends and innovations that the hundreds of delegates from a broad range of fields related to renewable industries and I-REC markets from all over the globe are developing and invested in.

### ISC2022 AT A GLANCE

#### PRE CONFERENCES – 31 OCTOBER 2022

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### PROGRAMME

**PRE CONFERENCES – 31 OCTOBER 2022**

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**Introduction to the I-REC Standard**

The International REC Standard (I-REC Standard) provides a robust, transparent framework for ensuring reliable energy attribute tracking. This session will provide delegates with an overview of rapidly developing renewable energy attribute markets and how the I-REC Standard supports the, as well as share key updates on the I-REC Standard's governance structure, changes to the I-REC for electricity Product Code, and insight on what changes are coming next.

**DAY 1 – I-REC STANDARD CONFERENCE – 1 NOVEMBER 2022**

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**Standardizing Global Attribute Markets**

The need for EAC standards is more apparent now than ever. With attribute tracking becoming an integral part of electricity market development, EAC standardization plays a critical role in ensuring both power generators and end users have access to credible, transparent, and globally harmonized information about the origin of their electricity. EACs are becoming the common denominating instrument for new energy markets beyond electricity—such as for clean hydrogen—this session will describe how EACs fit into new markets, how additional tracking layers are being implemented in different countries, and the role of different stakeholders in these new attribute markets.

**ASEAN EAC Market Integration**

Europe has successfully integrated its EAC markets to support cross-border clean power transactions. This has supported the growth of clean energy generation alongside more robust corporate procurement options and cross-country EAC transactions. Asian governments and utilities are working toward similar agreements that are in line with corporate clean power ambitions. This session will discuss progress toward market integration, implications for buyers and sellers, next steps, and how to engage in the process of broader ASEAN market transformation. The session will also address the popular question from governments on how EAC exports affect nationally determined contributions under the United Nations Framework Convention on Climate Change, and how to manage their EAC markets accordingly.

**Development of Hydrogen Tracking Systems**

By the time this session takes place, the I-REC Standard Foundation, together with Avance Labs as Code Manager, will have launched an I-REC Standard Product Code for Hydrogen. That said, clean hydrogen is still in its infancy. Projects are planned and slowly coming online, but demand-side risk due to lack of regulatory certainty is a barrier to further development. This session will review the I-REC for hydrogen mechanism and broadly discuss how certification can reduce demand-side risk on long-term contracts. With an estimated 80% of hydrogen likely to be generated in the Gulf Coast Countries, Avance's placement in Abu Dhabi has it strategically positioned to be right in the middle of the action. Avance will lead an engaging panel—seeking to disseminate challenges and lessons to date while engaging the audience in charting the way forward.

For the latest overview of the speakers and registration go to www.irecstandard.org
### Global EAC Standardization and the Impacts of Carbon Border Taxes

Import carbon taxes such as the European Cross Border Adjustment Mechanism (CBAM) will have major implications on the costs of trading goods between nations and global regions. A critical challenge to the effective implementation of these systems will be reaching consensus on how different environmental attributes are counted and used in these frameworks. The standardization of EAC systems across the world will play a key role in ensuring credible Scope 2 accounting as it relates to the production of goods. This session will discuss interlinkages between EAC markets and cross border carbon taxes—highlighting the need for standardization of EACs to support the rollout of new accountability frameworks.

### Use of Renewables across the Supply Chain

Downstream procurement is becoming an important aspect of every major corporate social responsibility strategy. However, a vast range of questions remain unanswered. How can corporates support their supply chains in achieving Scope 2 decarbonization? How can brands ensure their Scope 3 emission reductions are linked to support their delivery to supply chain stakeholders—including downstream EAC procurement and PPA arrangements. This session will share best practices on how to link supplier Scope 2 emissions to brand-level Scope 3 accounting. It will also explain how emerging solutions are being integrated into the I-REC Standard and other major reporting frameworks. Key topics of this session include new labeling protocols, auditing strategies, and use-cases for linking Scope 2 and 3 between brands and suppliers.

### I-REC Growth in Emerging Markets

From 2020 to 2022, the I-REC Standard has added over fifteen (15) eligible I-REC(E) issuance countries to the map. Emerging markets in Central Asia, Turkey, and South America are seeing similar growth patterns and experiencing similar issues related to EAC implementation adherent to the I-REC Standard. This session will review growth trends in these new markets from both the supply and demand perspectives, introduce key stakeholders, and describe some market mechanisms that are creating success stories in emerging markets. The session will be relevant to end-users looking to source EACs in new markets, as well as brokers and intermediaries scaling up portfolios in previously inaccessible countries.

### Granularity and the role of Platforms

Some of the most advanced corporate power buyers have expressed interest in procuring renewable electricity with increasingly fine granularity—down to 15-minute intervals linked with power consumption. The I-REC Standard Foundation and its partners such as the Electricity Code Manager, Evident, are piloting novel solutions to make this possible: early pilots have used third-party platforms and visualization tools to support implementation. Sharing best practices, challenges, and potential solutions will be critical for expanding access of hourly matching to all end-users in the market. This session will share firsthand experiences implementing these pilots and will discuss how other market participants (including new platforms and additional end-users) can get involved.

### End-User Round Table

The development of EAC markets is critical for supporting dialogue between governments and economic powerhouses including the Fortune 500s. While governments across the region have supported the development of clean energy markets, more work remains to be done. This session will bring together high-level panelists from the world’s leading brands to discuss progress to date, and remaining barriers that still impact meaningful clean energy procurement. Government and utility stakeholders are invited to join the conversation with an engaging question and answer session aimed at encouraging public-private dialogue and collaboration in support of low-carbon, high-yield economic growth.
### SESSION 6A GRAND BALLROOM

**Volume and Prices, Value of Renewables around the World**

This session will answer the single most frequently asked question in EAC markets: how much are they worth? End-users, power generators, and brokers alike will walk away with insights on benchmark prices to help guide sales and procurement in 2022. The world’s biggest environmental commodity retailers will take the stage to share insights on supply gaps, liquidity overflows, and how they are pricing EACs across different fuel types and geographies. Any market participant remotely involved in buy- or sell-side decisions in the EAC space should mark this session on their agendas and consider arriving in advance—space may be limited.

### SESSION 6B THONBURI

**Carbon Removal and Reduction Mechanisms**

The Product Code for Carbon Capture Utilization and Storage (CCUS) is new but is no doubt going to be impactful. This ex-post, fact-based instrument is backed by insurers and guaranteed to provide durable sequestration of GHG emissions on a 100+ year time scale. The importance of the CCUS Code cannot be underestimated for implementation of the Hydrogen Code. While CCUS will stand on its own, its interaction with other Codes—like hydrogen and electricity—will be critical for its robust market implementation. As an example, hydrogen needs CCUS to become a large-scale, low-carbon fuel source, and CCUS needs hydrogen to deploy new and exciting CCUS technologies. This session offers the opportunity to learn more about the CCUS Code and how Terrametric Solutions is implementing this on a global scale.

### SESSION 7A GRAND BALLROOM

**Thailand Leading as an Example for Innovation**

The I-REC Standard Foundation chose Thailand as the host country for the first ever ISC for a reason—it has made exceptional progress on developing its clean energy market. Examples include the country’s rapid uptake of electric vehicles and charging stations, a growing spread of EAC-backed clean power procurement options, and the development of new market platforms to support hourly matching and increased price transparency. This session will bring experts from across Thailand to share a range of best practices on how to support low-carbon economic growth. The session will be particularly relevant to governments, utilities, and development partners working to decouple socioeconomic development from carbon emissions.

### SESSION 7B THONBURI

**EAC Registries and Marketplaces—More than Just an IT Solution**

Credible EAC instruments start with the development of robust standards, their integration into local policy environments; and yes, they require digital infrastructure to support credible data management. The development of advanced registry environments and blockchain-backed trade platforms can and will help the market to grow. However, IT-centric solutions often overlook the critical role of policies and standards in the broader EAC ecosystem. It will cover key topics for emerging solution providers to consider when developing new tools and will explain different ways for them to get involved in the EAC space. While this session is designed for technology experts and blockchain enthusiasts, it will also support governments in assessing pros and cons of developing internal IT solutions to support tracking, settlement, and market transactions for EACs.

### KEYNOTE SESSION 8 GRAND BALLROOM

**The Vision for EAC Markets**

End-users around the world—ranging from corporations to households—have made it clear that the demand for clean energy is here to stay. The question is no longer whether it is possible to select clean power products, but which ones are the best, which markets are making them most readily available, and how governments, generators, and consumers alike can drive deeper impact. This closing panel will bring high-level executives and government representatives together to discuss what is coming next, how clean energy markets are affecting foreign direct investment planning, and how countries across the region are reimagining a high-yield, low-carbon development future together.

FOR THE LASTEST OVERVIEW OF THE SPEAKERS AND REGISTRATION GO TO WWW.IRECSTANDARD.ORG
REGISTRATION

Fees for attending the I-REC Standard Conference 2022 on 1 & 2 November 2022
(Register here online)

Normal registration
(Valid from 1 July 2022 to 1 October 2022)*

→ General Registration
€ 800

→ I-REC Accredited Market Facilitators Ticket
€ 650

→ I-REC Standard End-consumer Ticket
€ 650

→ Government Officials or Not-for-profit Stakeholders Ticket
€ 550

Late registration
(Valid after 1 October 2022)*

€ 950

€ 800

€ 800

€ 700

The fee for pre-conference workshop 1 and 2 is €100. Pre-conference workshop 3 is free of charge.*

Register here for the pre-conference workshops on 31 October.

* All rates are exclusive of 21% VAT.

* For cancellation policy: go to www.irecstandard.org

* I-REC Standard may (at its sole discretion) change the format, speakers, participants, content, venue location and programme or any other aspect of the ISC2022 at any time and for any reason, whether or not due to force majeure, in each case without liability.

VENUE

About the conference venue
The Millennium Hilton Bangkok Hotel is situated in Bangkok’s riverside district (right off the Chao Phraya River), which offers a diverse experience from traditional, local villages and iconic cultural landmarks to the ICONSIAM shopping and leisure complex. The hotel was awarded the Best Luxury Rooftop View in Asia in 2013 and the I-REC Standard is pleased to be hosting its first-ever international conference, the ISC 2022, there.

Booking Accommodations
Delegates interested in staying at the Millennium Hilton Bangkok Hotel can use the following link to book their accommodations: www.group.hilton.com/q9aprs

SPONSORS

About the IREC Standard Foundation
The International REC Standard Foundation (I-REC Standard) is a non-profit organization that provides a robust standard for developing attribute tracking systems. For more information on the I-REC Standard, go to www.irecstandard.org

ISC contact & information
secretariat@irecstandard.org
→ go to website