API QUALIFIER

*This questionnaire is designed to assess the suitability of all potential API connections to the **I-REC(E)** registry. Section **I** is mandatory for basic information and general requirements for all API requests. Whilst sections **II** and **III** expand into mandatory section for an accredited platform operator role with the **I-TRACK Foundation**. Sections **III** and **IV** will, following accreditation, become publicly available on I-TRACK Foundation's website following your final approval of a public version of the report.*

Section I: Basic Information

1. Legal Name or Corporate Name (for the purpose of verification, information sharing and any future contractual arrangements).
   Electricity Generating Authority of Thailand

2. Trading as (If required)
   N/A

3. Legally affiliated companies (If required).
   N/A

4. Secondary Consultants (Inc. Any outsourced technology resource).
   N/A

5. Main Contact Details
   pakawee.s@egat.co.th

6. What role(s) does your organisation **already have** within the I-REC(E) Registry or Code?

   - ☐ **Registrant**
   - ☐ **Participant**
   - ☑ **Issuer**
   - ☐ **Platform Operator**
   - ☐ **Labelling Authority**
   - ☐ **None**

7. What role(s) does your organisation **wish to have** within the I-REC(E) Registry or Code?

   - ☑ **Registrant**
   - ☐ **Participant**
   - ☐ **Issuer**
   - ☑ **Platform Operator (Please complete all sections of this form)**
   - ☐ **Labelling Authority**
   - ☐ **Data Verifier** (The process of becoming a Data Verifier requires a different questionnaire, please return to your Evident contact for further information)
   - ☐ **Other (Please explain):** Click or tap here to enter text.

8. API connection to do?

As a Platform Operator: The API is used to programmatically request and retrieve certificates issued against validated production data. This is essential for allocating and transferring certificates to utility partners who act as subscriber managers within the UGT Program.

As a Registrant: There is a need for a Registrant role, appointed by the ERC under the Notification of the ERC on Certification Standards for Green Electricity Provision, specifically to operate under the UGT scheme. The Registrant uses the API to submit device registration and certificate issuance requests, and to receive real time status updates on their progress. The UGT Platform, as the accredited Platform Operator, provides the technical interface that enables these Registrant functions but does not itself act as the Registrant.

As a Local Issuer: The API is used to carry out functions within the Local Issuer's defined scope. These actions are managed independently and remain separate from the operational activities of the UGT Platform.

9. Are your prospective clients existing Evident registry users or are you going to act as an intermediary on their behalf?

The platform is designed to operate in a dual capacity to meet the needs of the UGT Program:
- Direct Engagement with Existing Registry Users: The platform's principal users are Thailand's utilities. As established users of the Evident registry, they will leverage our platform to directly manage and allocate certificates to electricity consumers.
- Intermediary Services for Consumers: The platform offers intermediary services to support electricity consumers who choose this option. In this role, the Platform facilitates certificate redemption and provides the redemption statement to consumers. The consumer remains the account holder, while the Platform Operator manages the process in line with ERC requirements.

10. How will your API integration benefit your prospective clients?

The API integration is a core element of the UGT Platform's value proposition, delivering clear benefits to clients and strengthening the wider regulatory ecosystem.

Primary Benefits for Prospective Clients:
- Operational Efficiency: The API transforms the platform into a comprehensive, one-stop service for all I-REC(E) logistics under the National Scheme. By automating complex workflows, it reduces manual intervention and accelerates the entire certificate lifecycle.
- Enhanced Transparency and Governance: Clients receive real-time access to the status of requests along with a complete, immutable audit trail for all transactions. This visibility supports accurate tracking and robust internal governance.

System-Wide Benefits:
- Improved Regulatory Oversight: The API provides regulators with direct visibility into operations, ensuring transparency, simplifying audits, and reinforcing accountability across program participants. This, in turn, enhances confidence in the system and strengthens the value of client assets.

11. Is your organisation formally accredited by a recognised standards body (e.g., ISO 27001, ISO 14065, CDP)?
ISO 14064, GRI

12. Have you previously worked with other REC Registries, Guarantee of Origin (GO) systems, or other Renewable Energy Certificate (REC) markets?

No

13. What security measures are implemented within the API to ensure data integrity and protect against unauthorised access or manipulation?

We apply a multi-layered security model to ensure data integrity and protect the API from unauthorized access or manipulation. Key measures include:
- **Authentication:** API access is controlled through unique API Keys/Tokens. This ensures that all requests originate from verified and legitimate clients before any processing occurs.
- **Authorization:** Once authenticated, Role-Based Access Control (RBAC) is used to enforce the principle of least privilege. Users are permitted to perform only those actions and access only the data explicitly allowed by their assigned role within the UGT Platform.
- **Encryption and Integrity:** All data in transit is encrypted using HTTPS (TLS) to safeguard against eavesdropping and Man-in-the-Middle attacks. Message signing is also employed to cryptographically verify that data has not been altered or tampered with, thereby ensuring the integrity of every request.

14. Can you provide a system workflow or other diagramming to help us understand your requirements?
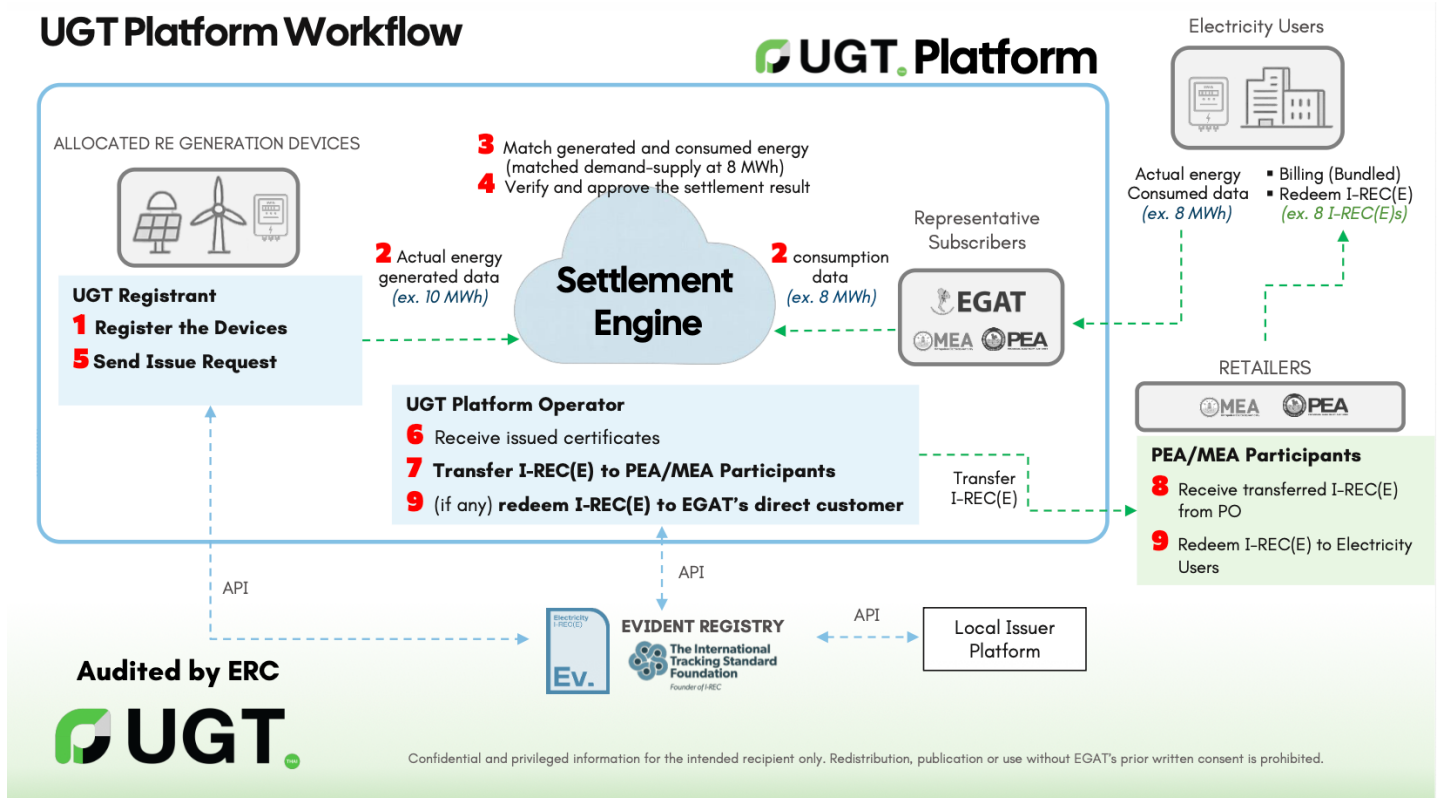
If your platform allows entities to request issuance, please answer questions 15 and 16 also:

15. Can you confirm the number of facilities (inc. the average capacity of each) under contract with energy producers or buyers?

    182 facilities: Hydro (avg. 300 MW), Solar and Wind (avg. 30 MW)

16. What countries do your contracted facilities operate in or what countries do you wish to operate in?

    Thailand

The International Tracking Standard Foundation

Founders of I-REC

PRELIMINARY REPORT FOR INTEGRATION WITH EVIDENT REGISTRY
UGT PLATFORM OWNED BY **Electricity Generating Authority of Thailand**

2025

Notice from the I-TRACK Foundation

This report has been completed by a Platform Operator and is a disclosure form, required by the /-TRACK Foundation, to inform potential users about the functioning of the operator's Platform and its interaction with an Accredited Registry (Evident's Registry).

Potential and existing Platform users are to be informed that there are different ways to access 1-REC(E) and participate in the market. Every 1-REC(E) is validated by accredited Issuers and ownership records are maintained on the Evident 1-REC(E) Registry. Throughout the /ifecycle of an 1-REC(E) certificate, from issuance to eventual redemption, the certificate ownership is determined and recorded in the 1-REC(E) Registry. The Registry also provides basic functionalities including device registration, 1-REC(E) transfers and 1-REC(E) redemptions. These services are accessible to anyone who is registered in the Registry and can also be accessed through existing market players (e.g., Registrants and Participants) who are familiar with the rules and requirements of the International Attribute Tracking Standard and associated 1-REC(E) Product Code. However, the Registry can also be indirectly accessed via Accredited Platforms. These Platforms may provide different services, visualizations or tools which supplement the functionality provided by the Registry. However, use of a Platform is never mandatory for the issuance, trade, or redemption of 1-REC(E). Users should, as a result, be informed of the Platforms they intend to make use of and determine if a Platform provides added value for them.

The /-TRACK Foundation and Evident periodically check that the Platform is adherent to the rules of Accreditation and well-integrated with the Registry. However, the Foundation, Evident Services or any Accredited Market Facilitator cannot be held responsible for the quality of services provided by Platform Operators.

If you have any further questions about the interaction between Platforms and the Evident Registry, please contact the /-TRACK Foundation secretariat at secretariat@trackingstandard.org.

SECTION II: Basic Information (Mandatory for prospective Platform Operators)

A. Provide a short description of the purpose of the **Platform.**
The platform is a comprehensive digital solution designed to facilitate and support the administration and oversight of the government's Utility Green Tariff program. It manages the full lifecycle of program assets by enabling key functions for different user roles, including device registration and issuance requests for registrants, as well as certificate transfers and redemptions for the Platform Operator.

B. Please define the primary markets or jurisdictions in which the platform will operate.
Thailand

C. What languages does the Platform support?
English and Thai

SECTION III: Registration and client contact

D. Please define the intended steps for various users of the Platform to be registered with the Platform Operator prior to use. Are legal agreements required? If so, are these prepared? If so, please include a link to the template agreement.

User Registration Protocol: The intended steps for a user to be registered with the Platform Operator are as follows:
- Account Creation: The user submits a registration request with required identifying information (e.g., name, email, designated role). The Platform Operator then creates the user account and provisions access based on the specified role.
- Policy Acceptance: The user is required to review and accept the platform's governing policies. Registration is considered complete only upon the user's explicit consent to these terms (e.g., via checkbox confirmation).

Legal Agreement Status:
- Requirement: Yes, a legal agreement is required.
- Preparation Status: Currently in the process.

E. How can users access the Platform and who can they contact for questions?
Users can access in the Platform by logging in with their username and password. For any questions or support, they may contact the Platform Operator via email at ugtplatform@egat.co.th.

F. Please provide a description of the fees associated with the use of the Platform (e.g., link to fee structure).
The fees associated with the use of the platform follow the Platform Operator fee schedule and the EGAT local issuer fee structure, both of which are incorporated into the Utility Green Tariff cost structure.

SECTION IV: Detailed content

G. Who can use your platform? (more than one is possible)

☑ **Registrants**[1] registered in the Evident Registry
Ticking this box means that active Registrants in the Evident Registry can request facility registration and issuance requests with the responsible Issuer directly from the Platform.

☑ **Participants**[2] registered in the Evident Registry
Ticking this box means that active Participants can have an encumbrance account in the Platform

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[1] A registrant is the only entity that is able to request device registration or certificate issuance. They can do this on behalf of a device owner or on their own behalf (if they themselves are device owners).

[2] A participant is a market player, trader or potentially a consumer with an account in Evident Registry and can hold, sell, buy, and redeem I-REC(E)s on their on behalf or on behalf of their clients.

☑ **Any Entity**, regardless of its relationship with the Evident Registry
Ticking this box means that any entity passing the requirements of the Platform can create an account and benefit from the provided services of the Platform that will be linked with the Platform's custodian account in the Evident Registry.

H. Please describe in detail the functionality of your Platform.
The UGT Platform provides 6 main functions:
1. Device Management – Register devices in the system and monitor their related information.
2. Subscriber Management – Register subscribers (representatives of electricity consumers) and monitor their related information.
3. Portfolio Management – Create and manage the portfolios within the UGT Program.
4. Settlement Management – Display results of demand–supply matching (load demand and generation supply).
5. EAC Tracking – Perform actions such as Issue Request, Transfer, and Redemption (if applicable), and monitor their status.
6. Inventory Management – Display the inventory status of the UGT Program.

I. How does the above functionality relate to the Accredited Registry (Evident's Registry)? Include at least an answer to the two questions below.
1) Please explain whether you work with a custodian account, encumbrance, or both.
2) Please explain which of the following actions on the Evident Registry can be initiated from your Platform; request device registration, request issuance, withdraw I-RECs (from your platform to other platform or Participant account), Redeem I-RECs
1) The UGT Platform primarily operates with a custodian account.
2) The UGT Platform can initiate all listed actions, including device registration requests, issuance requests, withdrawal, transfer, and redemption of IREC(E)s.

J. Who is the owner of the I-REC(E) at any point in the life cycle?
It is assumed to be the user who holds the I-REC(E) in your platform until the point of redemption where the ownership will be the entity listed as the beneficiary, without further opportunity to pass on that ownership anymore.

In the certificate issuance process, the owner of the I-REC(E) is the UGT Registrant. Once transferred to Participants, the ownership rights are also transferred to those Participants.

K. Which of the following best describe your platform (more than one are possible):
☐ Market, trade, or exchange functionality
☑ Facilitation of Redemptions and/or creation of Platform Redemption statements
☑ Visualization tool or creation of reports on usage
☐ Mechanism to support increased granularity
☑ Mechanism to support registration of small or distributed devices
☑ Platform to simplify the issuance process
☑ Platform only for internal use (back-office/mid-office use)
☐ Other, namely: Click or tap here to enter text.

L. In the situation that the platform has a market, trade, or exchange functionality, has an agreement with an associated financial institution been discussed? Are there expectations as to the needs for associated collateral?
The platform does not include any market, trading, or exchange functionality.

M. Will you market your product as I-REC(E) on the Platform?
☑ Yes
☐ No

If 'No', this should be discussed in detail with the I-TRACK Foundation. The creation of another tradable instrument (by tokenization, for example) is, by default, forbidden.

N. Does your platform work on a blockchain? If so, do you intend to communicate benefits related of this externally? If so, how?
The I-TRACK Foundation is agnostic towards the use of a centralized or decentralized database. However, we remain critical towards unproven benefits such as the prevention of double counting in the wider I-REC(E) market. We encourage Platform Operators to discuss this with the I-TRACK Foundation.
No.

O. Are there other Products on your Platform (e.g., other EACs, carbon credits)? If so, how are the different Products marketed? Will it be clear for users of your Platform which Product they purchase with each transaction?
No.

P. In case certificates can be redeemed directly on the Platform, please provide a screenshot of the template Redemption Statement users can expect when using this redemption service on the Platform.
Platform Operators shall use the redemption statement created on the Evident Registry, or at minimum, copy the QR code, verification key, I-TRACK Foundation's logo, and Evident's logo from the original statement.
The Redemption Statement is undergoing the design process.

Q. What design elements have been considered to ensure that live, tradable certificates cannot be perceived as being owned or redeemed by an End-User prior to the act of redemption?
The UGT Platform includes an EAC Tracking Module that provides users with live updates and monitoring of activities on the platform such as issuance, transfer, and redemption. The UGT Platform does not support a marketplace; transferable certificates can only be transferred to designated recipients as specified in the UGT agreement. Redemption may only be initiated by the account holder of the source account. All redemptions are recorded with the I-REC registry via API call, and in line with the UGT Agreement, the process is subject to audit by the Energy Regulatory Commission (ERC), Thailand's energy regulator.

R. Where can users find more information about the Platform? (e.g., links to documentation)
www.ugt-thai.com