



# Beyond RECS: Charting New Paths for the Energy Transition



# About REDEX

# REDEX – Enabling End-to-end RECs Transactions



## Since 2018

REDEX.ECO offers a full suite of services to manage Renewable Energy Certificates (RECs) through a blockchain-enabled platform REHash™.

Clients can register, buy, sell and retire RECs in a digital, hassle-free manner to achieve energy sustainability goals.

### Lead Investor



4,601 MW  
Total Capacity



7.86M RECs  
Annually

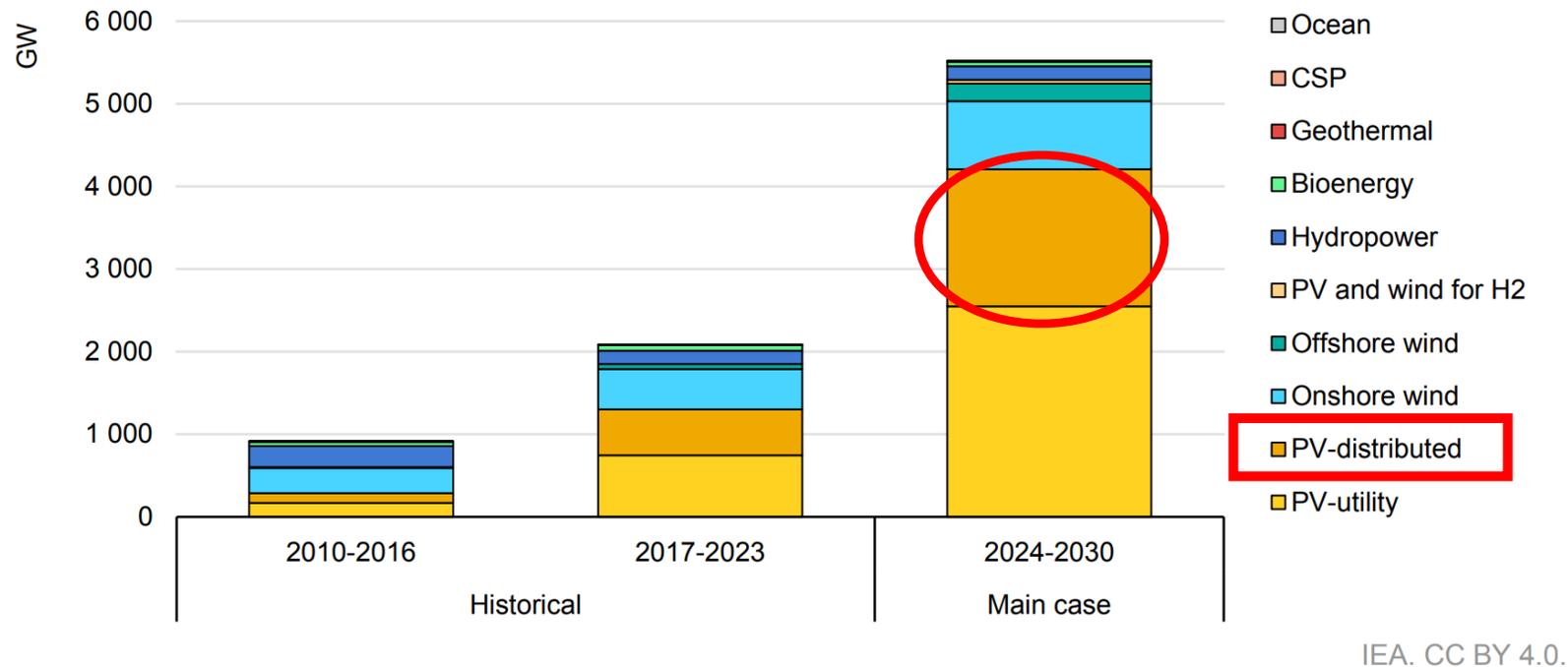


432  
Global Accounts

# Small Distributed Devices – Major Growth Driver in Renewables Capacity For PV



Renewable electricity capacity growth by technology segment, main case, 2010-2030



Source: International Energy Agency Renewables 2022 – Analysis and forecast to 2027

## MARKET CHALLENGES

- 1) Most rooftop devices lack proper docs (SLD Diagram, Photos, PPA, Interconnection Diagram)
- 2) High device registration fees makes it uneconomical
- 3) Generation data hard to collect and consolidate

## REDEX SOLUTIONS

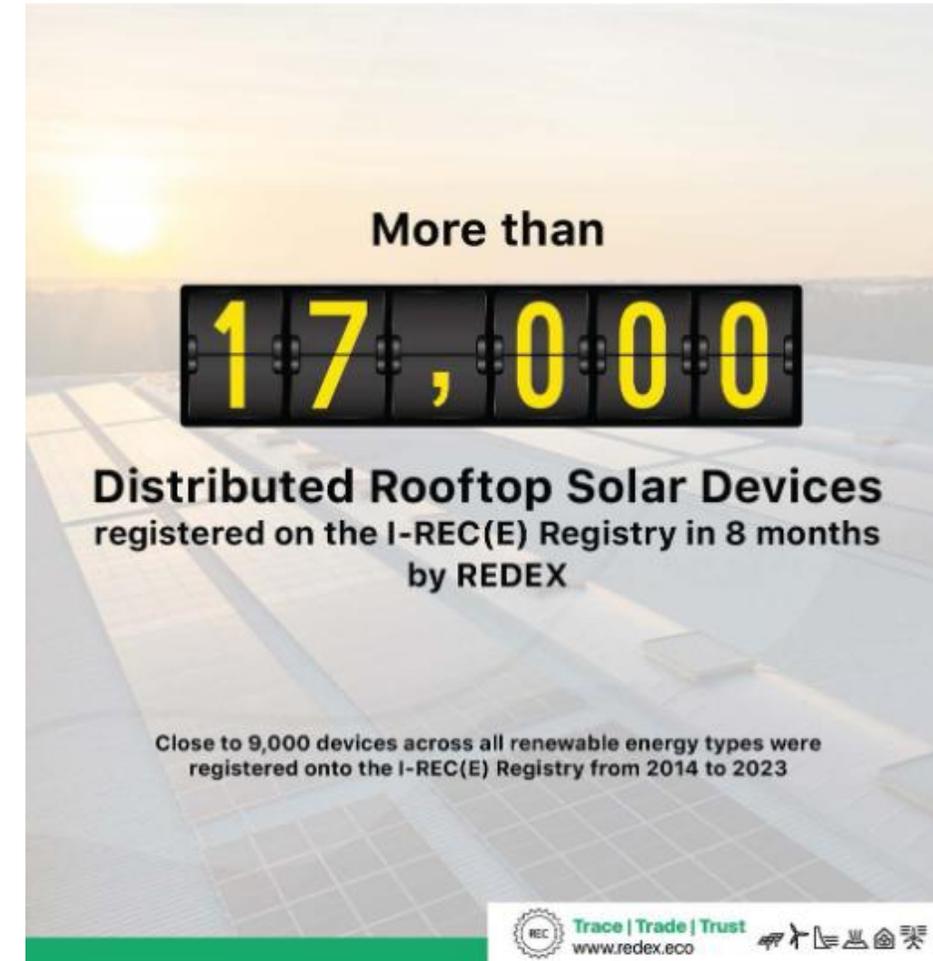
- 1) Reduced I-REC doc requirements
- 2) Batch aggregation of small rooftop devices, reducing registration fees and onboarding time by 90%
- 3) Digital generation data where possible (eg via IOT)

Rooftop Solar accounts for 50% of all new PV Solar installations

# REDEX Registers 17,000+ Distributed Rooftop Solar Devices in 8 Months



- **17,564** inverters onboarded across China, Indonesia, Malaysia, and Singapore. Total capacity: **500+ MW**
- 2x industry growth vs. 9 years (2014–2023: <9,000 devices)
- Automated bulk registration via REHash (API-integrated with I-REC)
- Scalable capacity: Up to 50,000 devices registered daily



# Green Electricity Certificate (GEC) LIVE in REHash



The **Green Electricity Certificate (GEC)** - A new trading feature into our REHash platform, responding to the evolving regulatory landscape in China.

Our platform bridges this by enabling businesses to trade GEC RECs, offering a seamless and reliable way to access China's GEC market.



Guangzhou Power Exchange Center  
<https://gp.powermarket.com/rept/sz/mp/portaladmin/login.html/#/>



GEC Exchange Center  
<https://www.greenenergy.org.cn/>



Beijing Power Exchange Center  
<https://pms.sgcc.com.cn/#/outNet>



REC Redemption > REC Redemption Details

**Beneficiary Information**

Beneficiary Name (Name to appear on Certificate(s))	哥伦比亞公司
Unified Social Credit Code	1212134234254354
Redeemed for	Own
Buyer Type	N/A
Industry Type (National Standard)	N/A
Province	N/A
City	N/A
Business Registration Location	N/A

**REC Item**

COUNTRY	VINTAGE	FUEL TYPE
China	2024	Hydro

**Associated Orders**

Order ID	Quantity
0002188	8

**GEC Certificate**

Please upload the relevant GEC Certificates (PDF, JPEG, PNG up to 25MB)

GEC Certificate \*

GEC ID \*

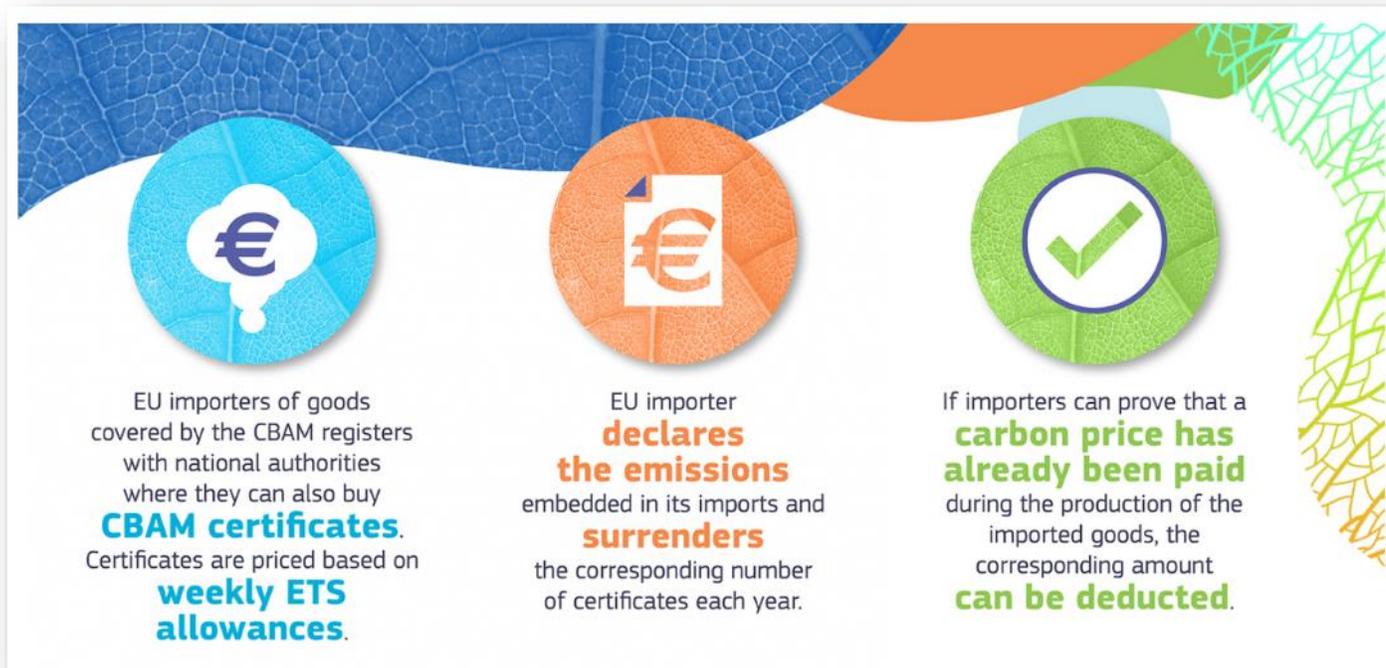
PWC1712451322001020240600K N0212403000160538C 广州电力交易中心

**Streamlined Process:** Our REHash platform offers a streamlined, end-to-end redemption process where buyers can effortlessly purchase, track, and receive their verified GEC certificates directly through their REHash account.

# **Green Products Certification – Charting New Paths for the Energy Transition**

# Carbon Border Adjustment Mechanism (CBAM) – EU Carbon Tax on Imports

The EU's Carbon Border Adjustment Mechanism (CBAM) is Europe's landmark tool to **put a fair price on the carbon emitted** during the production of carbon intensive goods that are entering the EU, and **to encourage cleaner industrial production in non-EU countries.**



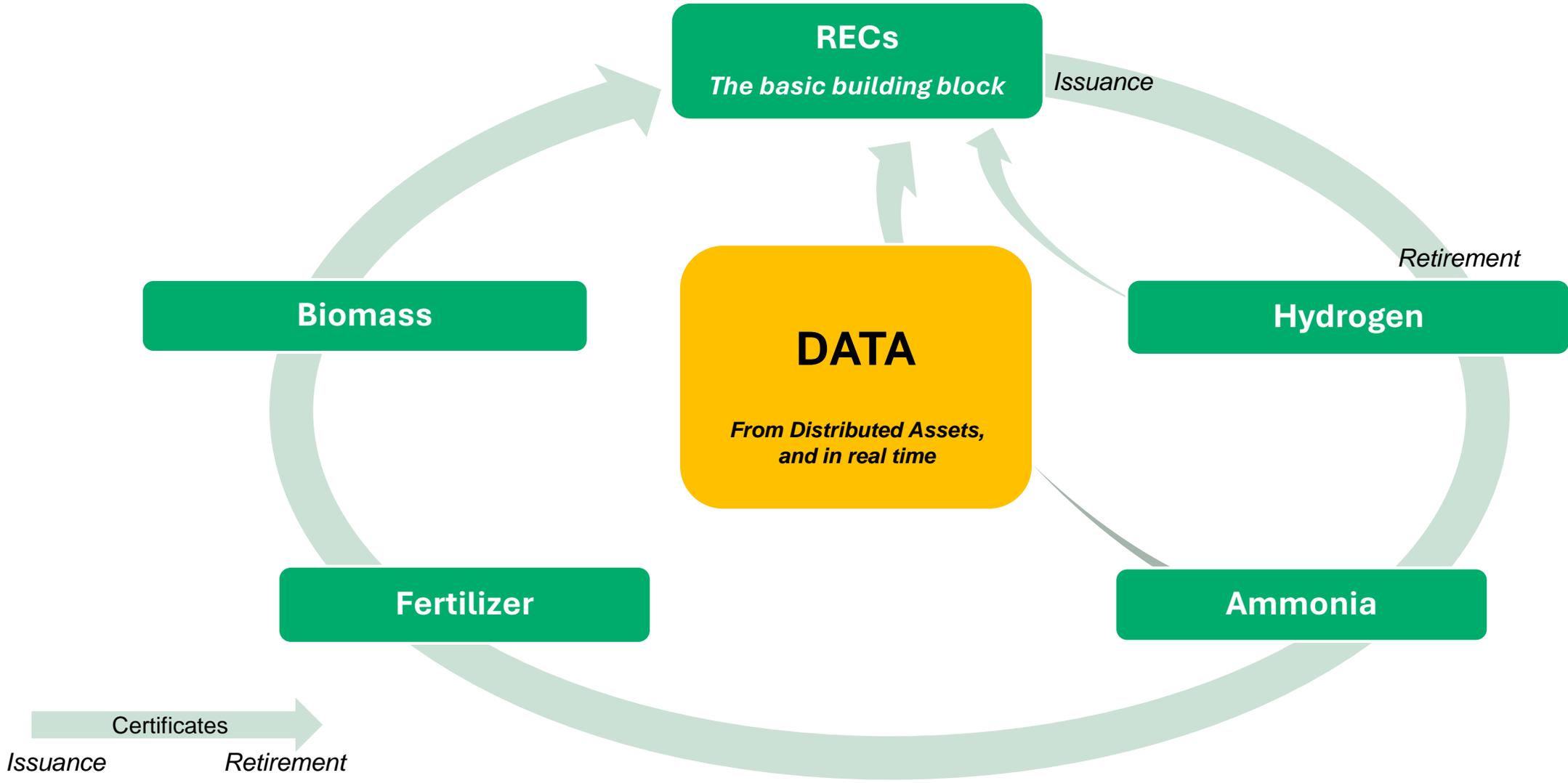
The CBAM will initially apply to imports of certain goods and selected precursors whose production is carbon intensive and at most significant risk of carbon leakage: **aluminum, iron and steel, cement, fertilisers, electricity and hydrogen.**

With this enlarged scope, CBAM will eventually – when fully phased in – capture more than 50% of the emissions in ETS covered sectors. Under the political agreement, the **CBAM has entered into force in its transitional phase as of 1 October 2023.**

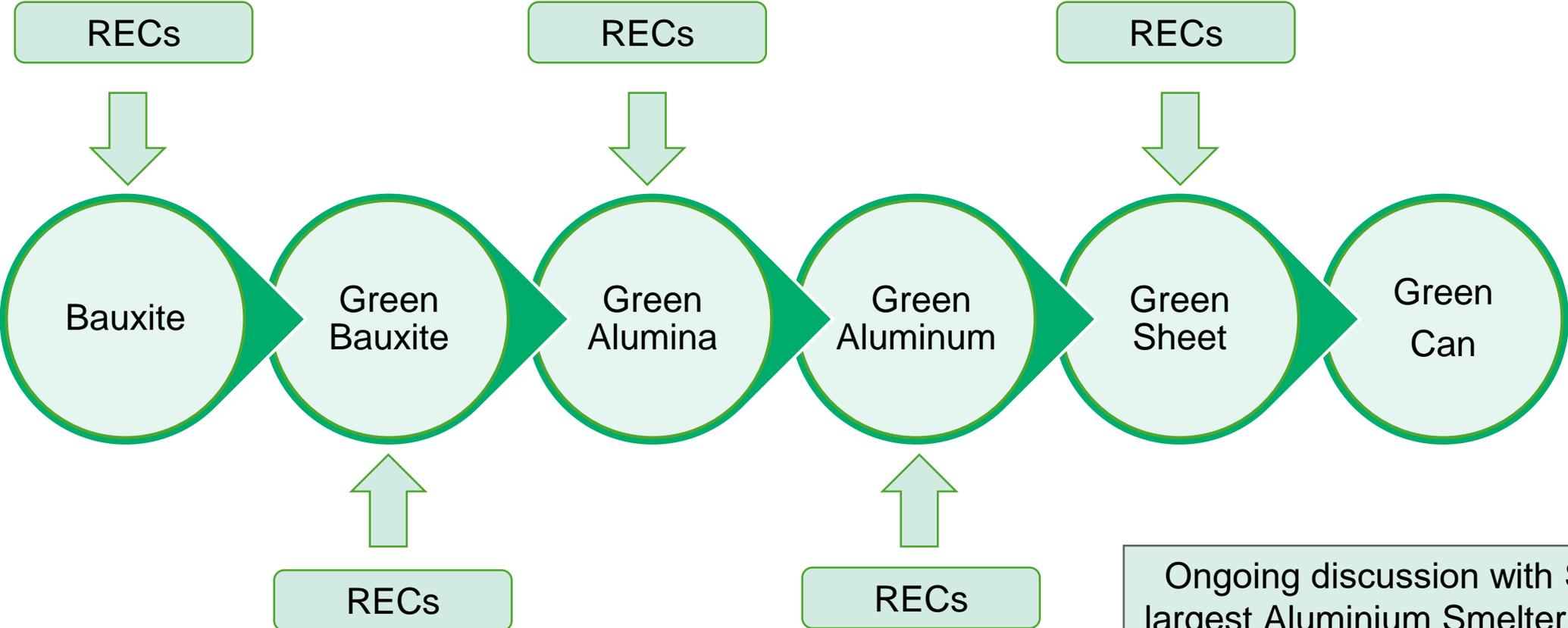
Source: The European Commission Taxation and Customs Union

[https://taxation-customs.ec.europa.eu/green-taxation-0/carbon-border-adjustment-mechanism\\_en#:~:text=The%20EU's%20Carbon%20Border%20Adjustment,production%20in%20non%2DEU%20countries.](https://taxation-customs.ec.europa.eu/green-taxation-0/carbon-border-adjustment-mechanism_en#:~:text=The%20EU's%20Carbon%20Border%20Adjustment,production%20in%20non%2DEU%20countries.)

# Certifying Green Products - EAC "Stacking"



# End-to-end Green Product Certification for an Aluminium Can



Ongoing discussion with SEA's largest Aluminium Smelter to pilot product level green certification for CBAM obligations

# Green Hydrogen - Certificates Issued and Retired Across Supply Chain for Transparency & Traceability



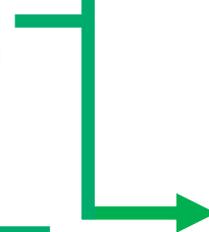
## 1. Solar Assets

- Register on I-REC
- Issue **Hourly RECs**



## 2. Battery

- Store excess energy with **Hourly RECs**
- Discharge on demand with **Time-shifted RECs**



## 3. EV Charging

- Real-time retirement of **Fractionalized Hourly RECs**



## 4. Electrolyzer

- Retire RECs to issue **Green Hydrogen Certificates**



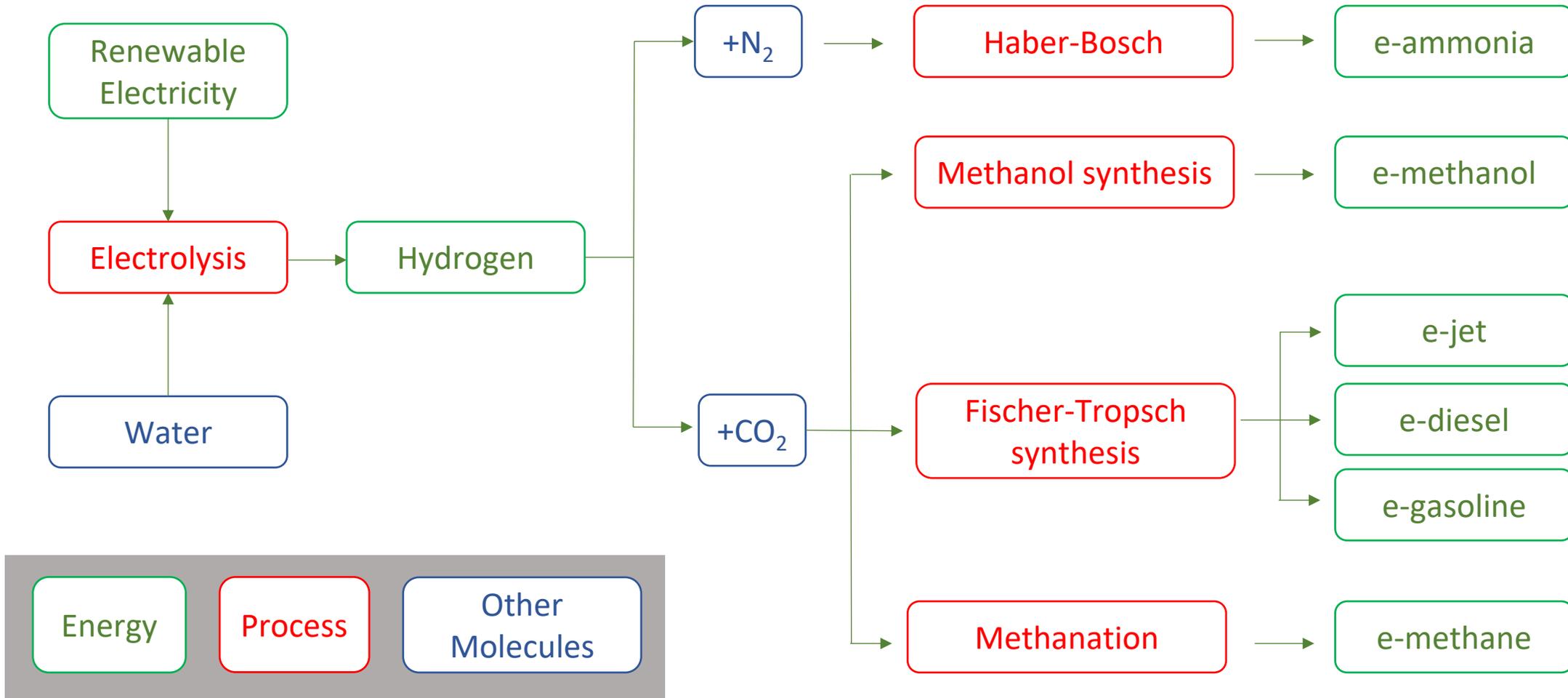
## 5. Hydrogen Bus Fleet

- Real-time retirement of **Fractionalized Green Hydrogen Certificates**

**MOU signed with Neom, Saudi Arabia to pilot Green Hydrogen Certification for exports globally**

# Certifying E-Fuels for Decarbonising Hard-to-abate Sectors

RECs is applicable for all process units in E-fuels production, EAC stacking allows transparency & traceability in production





## **MISSION**

**To accelerate the world's transition  
towards renewable energy**

## **VISION**

**To be the world's leading REC solution  
provider through innovation and insights**