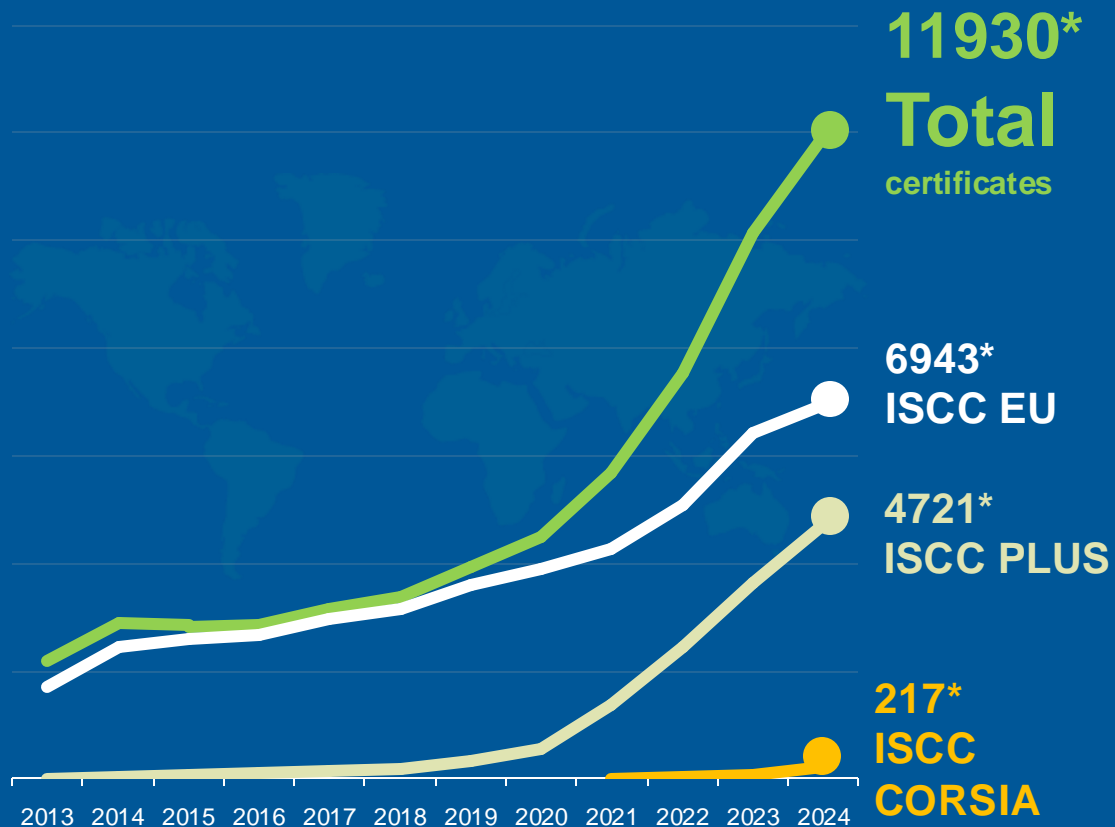




**Explore new market
opportunities with ISCC –
Unlock untapped
potentials**

ISCC is growing disproportionately worldwide. SEA seems not to participate at all - an attempt to explain



* Valid Certificates Data as of October 2024

Possible reasons for SEA markets not participating in overall ISCC growth:



Focus on **traditional commodity markets**

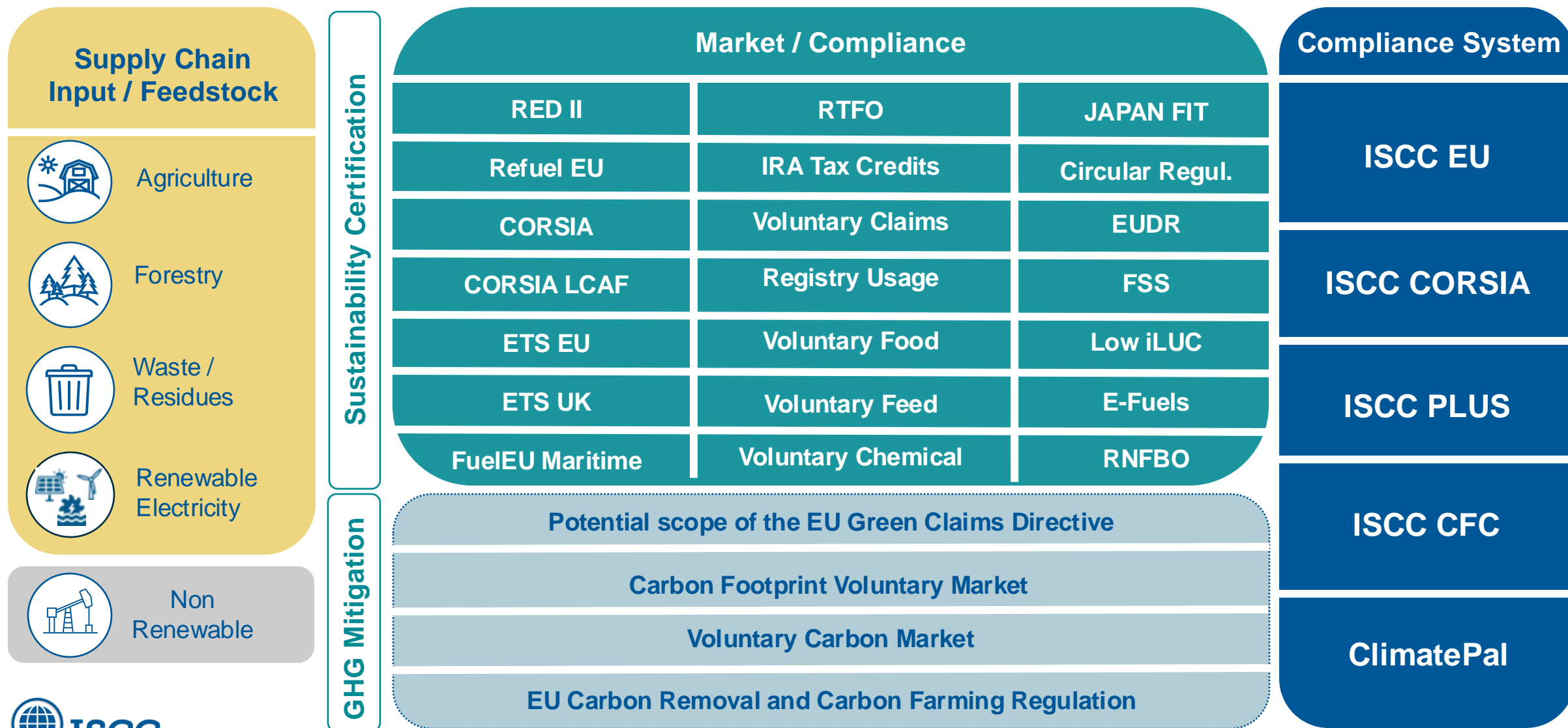


Shifting to customer target groups that have **lower regulatory requirements**

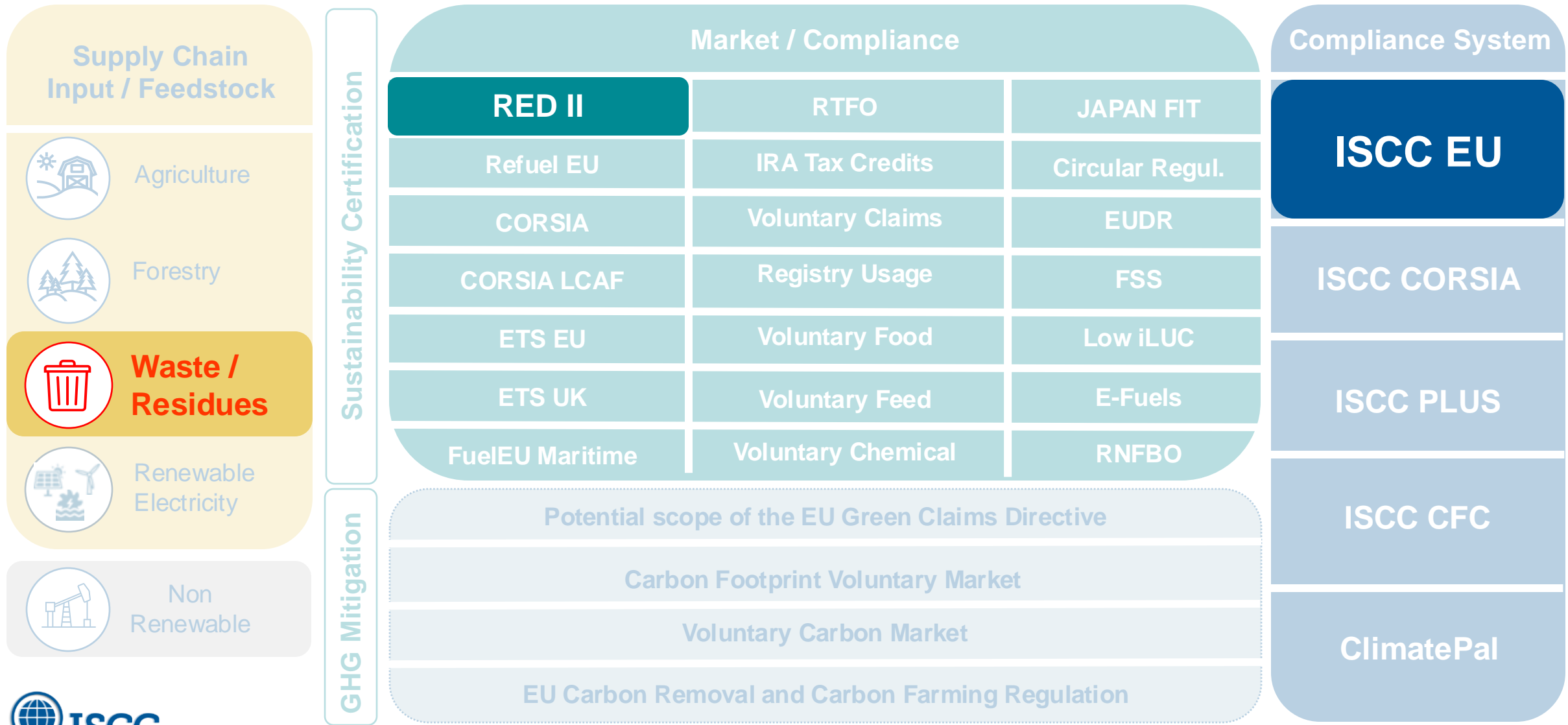


The **expanding complexity** of potential market segments, along with the rising number of **additional requirements** (EUDR, CSDR, CSDDD, CBAM, etc.), is restricting insight.

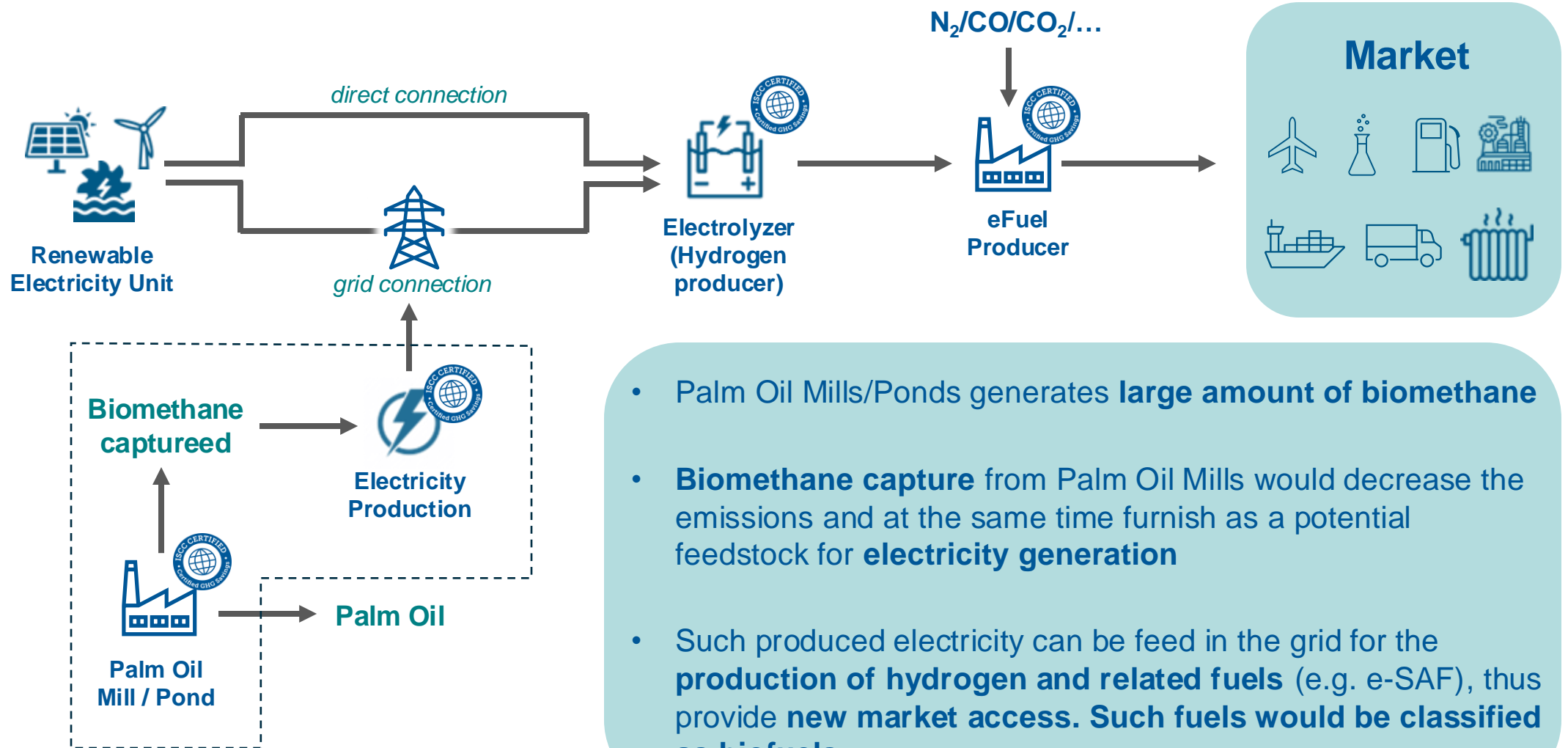
Unlocking Untapped Market Potentials with ISCC – Potential Overview



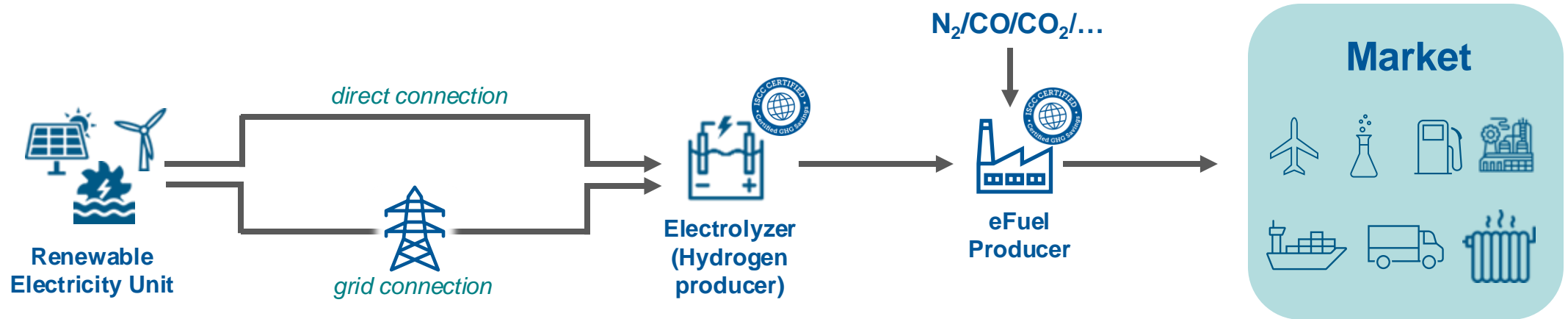
Currently most Market Participants focus on the RED W / R market



Palm Oil Mills can be a valuable source of biomethane for electricity production and further e-fuels

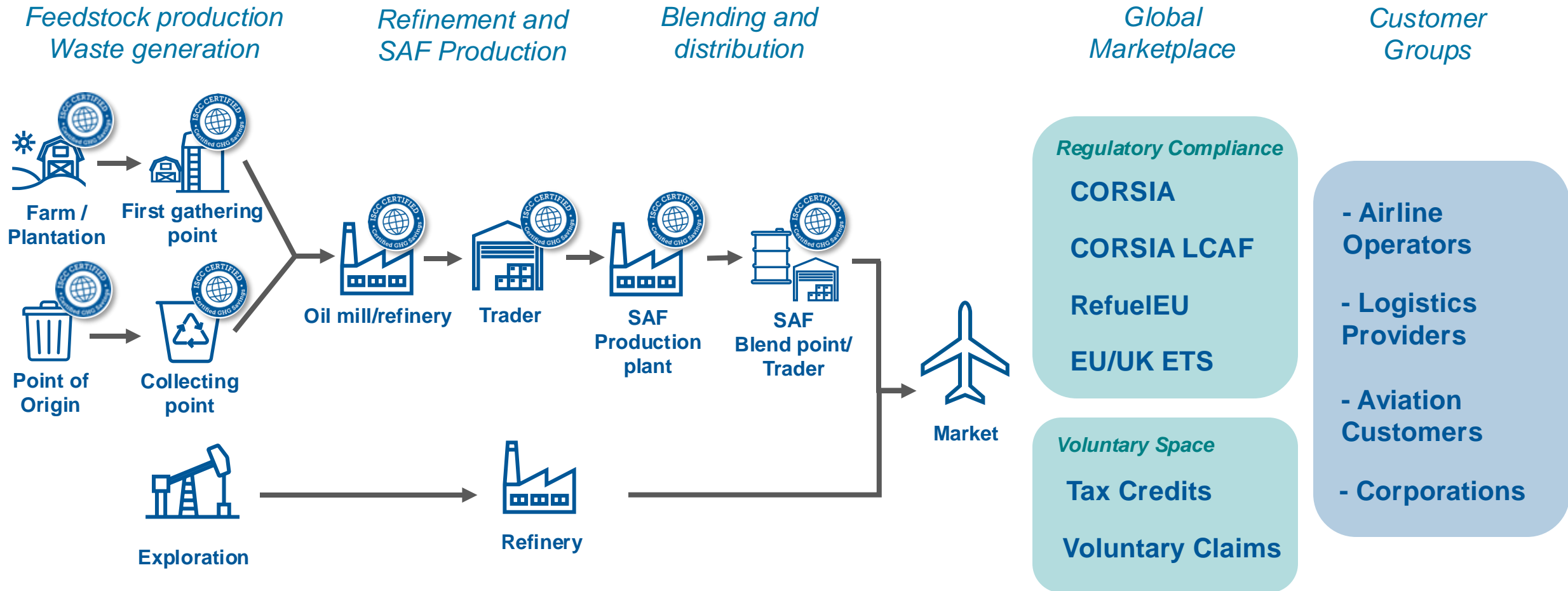


For RFNBOs certification, a non-biological source of electricity shall be applied for hydrogen production



- Under the EU, renewable electricity of **non-biological origin** can be used for the production of **RFNBOs**.
- ISCC has already received the **positive technical assessment for the ISCC EU RFNBOs certification** and awaits for the European Commission recognition of the voluntary schemes.

Unlocking untapped market potentials with ISCC – the case of aviation fuels



Expanding global opportunities: The ISCC Credit Transfer System for voluntary SAF markets



Globally, **airlines, logistics providers, and aviation end-customers** are looking to purchase and **claim GHG emissions reductions** from SAF



Provides **transparency and credibility for SAF** by connecting physical supply chains to resulting claims



Easily integrated into existing certification processes, allowing **global market access** through ISCC CORSIA, ISCC EU, & ISCC PLUS

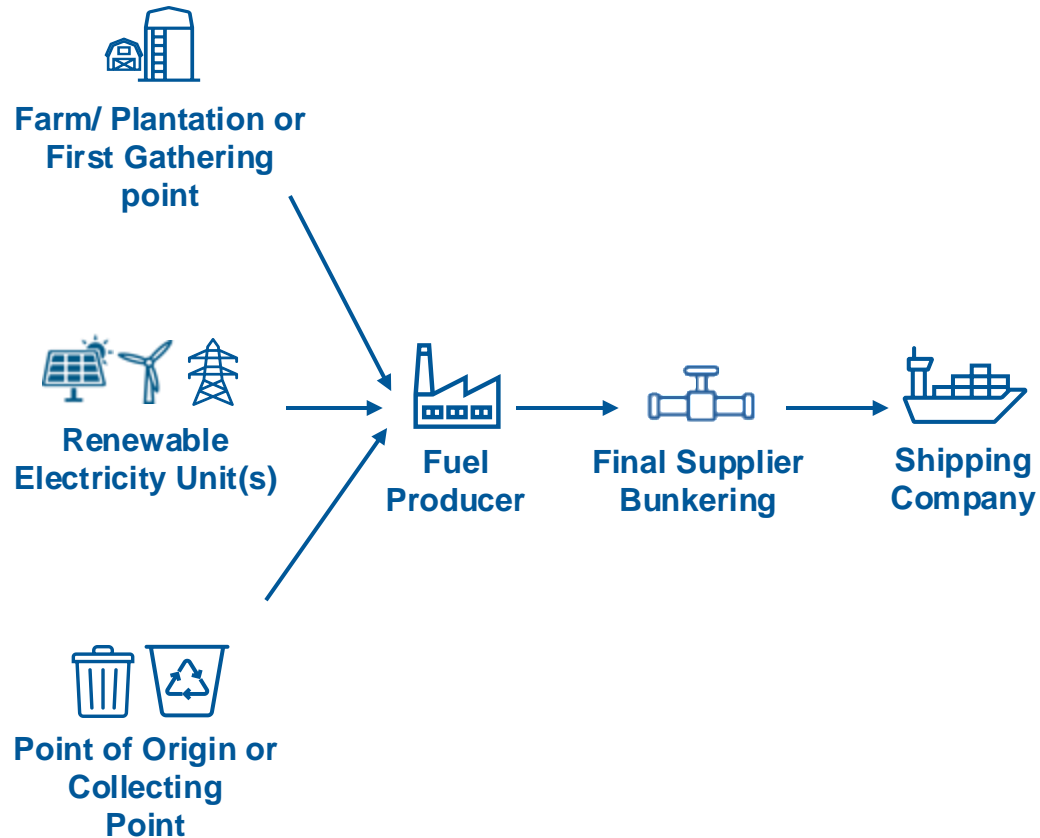


Users and transactions growing, with many fuel suppliers, airlines, and end customers onboarding



ISCC one of the **first movers** exploring **expansion to other global markets**, such as Marine fuels

Unlocking untapped market potentials with ISCC – the case of marine fuels



Market Compliance	ISCC Scheme	ISCC Credit Transfer System
FuelEU Maritime EU ETS	ISCC EU	ISCC has planned to extend the ISCC Credit Transfer System to the maritime sector
Voluntary Market	ISCC PLUS	
IMO LCA Guidance	ISCC is involved in IMO working groups	

As the SMF market develops, more and more companies choose ISCC for SMF certification including in the SEA region

Examples of recent press releases

12/08/2024 - NEWS

TotalEnergies Marine Fuels Supplies its First B100 Biofuel Bunker in Singapore

The UCOME biodiesel supplied is a second-generation, waste-based fuel sourced in Southeast Asia. This circular economy approach minimizes competition with arable land and is **certified under the International Sustainability & Carbon Certification (ISCC) system**.

Source: *TE Website, retrieved on Oct 7th 2024*

Straits Energy gains ISCC EU Certification for marine biofuel entry



Source: *The Malaysian Reserve, retrieved on Oct 7th 2024*

Malaysian supplier bunkers containership with ISCC-certified biofuel

May 1, 2024, by Naida Hakirevic Prevljak

Tumpuan Megah Development, a subsidiary of Malaysia's investment holding company Straits Energy Resources Berhad, has completed what is believed to be 'the first delivery' of International Sustainability and Carbon Certification (ISCC EU) certified marine biofuel by a Malaysian supplier.

Source: *OffShore Energy, retrieved on Oct 7th 2024*

Biofuel

Malaysia: Tumpuan Megah Development achieves ISCC EU certification for bio bunker fuels

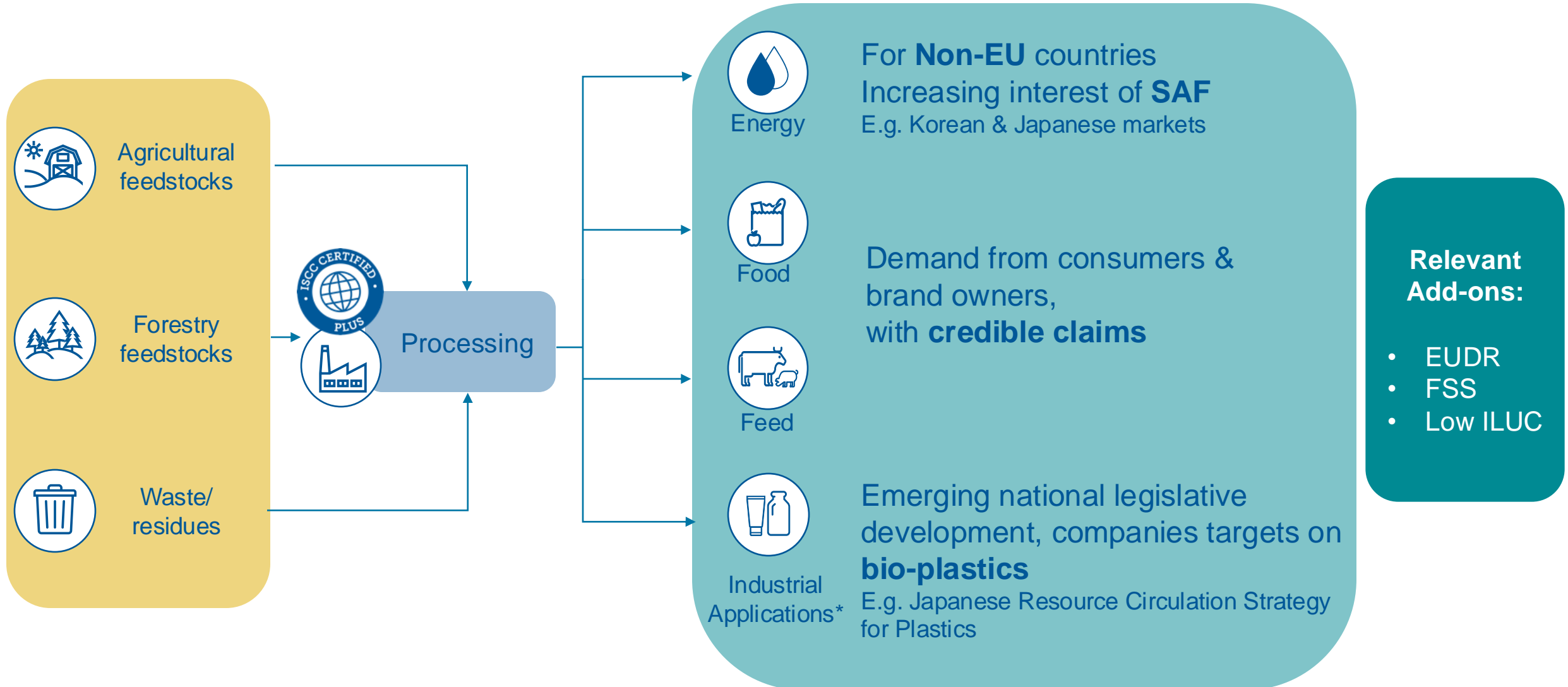
Bunkering firm Tumpuan Megah is the first Malaysian industry player to achieve ISCC EU certification as a supplier and trader of biofuels, spearheading industry's efforts to lower shipping's carbon footprint.



Published 9 months ago on January 2, 2024
By Admin

Source: *Manifoldtimes, retrieved on Oct 7th 2024*

Unlock new markets with ISCC PLUS





Opportunities for palm certification under ISCC PLUS



Aims at supporting the efforts at the **production level of global agricultural value chains** in fostering zero hunger worldwide.

EUDR

Aims at supporting system users with the **due diligence process** to fulfil their EUDR obligations.

Pilot certification project

- Gremca and Daabon in Colombia
- ISCC EU and PLUS certification with EUDR Add-on
- FSS Add-on certification already successfully applied
- Materials: Palm FFB, palm crude oil

Global reach of ISCC PLUS with regard to tire manufacturers

BRIDGESTONE

Firestone

Continental

DELTA-ENERGY

GOODYEAR

PIRELLI

HANKOOK

TRAFIGURA

and more...

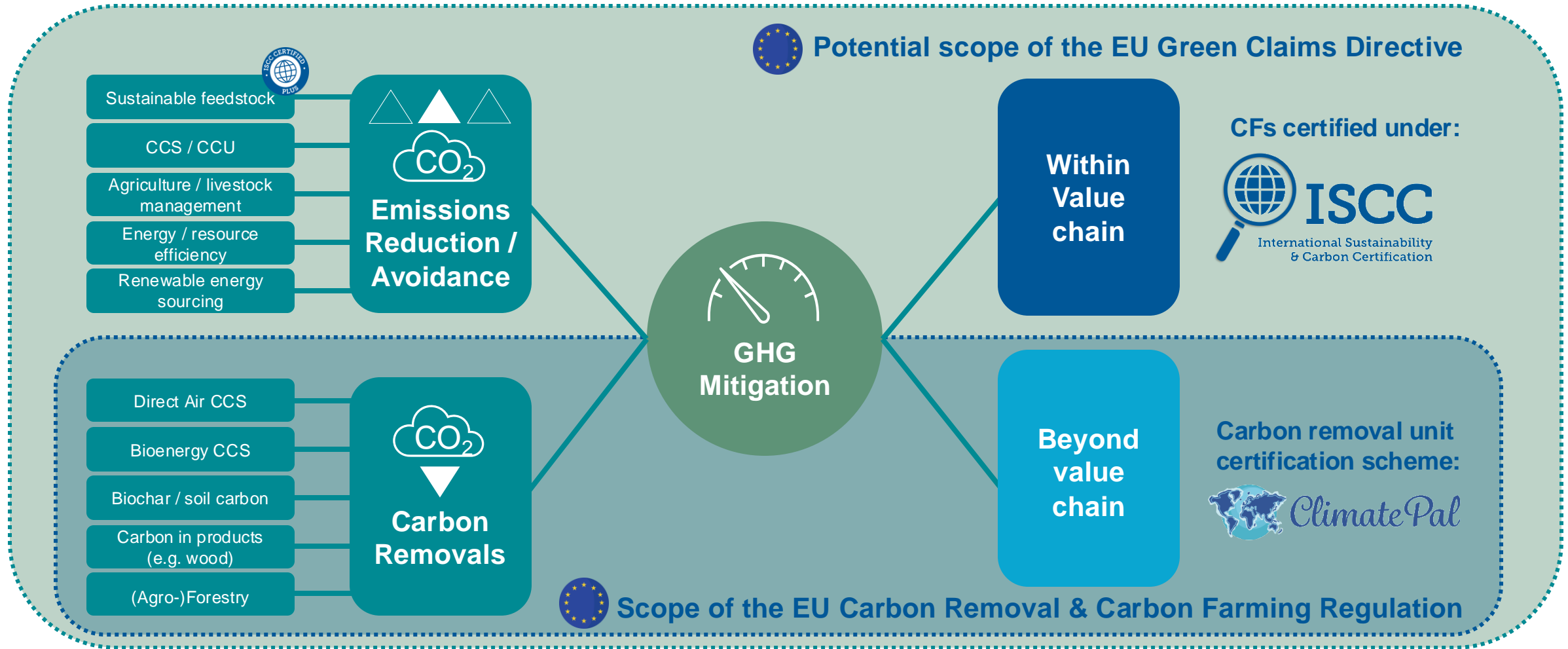
Firestone

Pilot Certification project:

- ISCC PLUS certification for natural rubber
- Pilot certification for EUDR Add-on
- Country: Liberia, Africa

- More than **25 tyre suppliers** (end-product) are certified under **ISCC PLUS** as of October 2024
- There are over **5 ISCC PLUS** certified System users handling **natural rubber**

GHG Mitigation: certification routes



Carbon Credits + ISCC certification? Depends...



Eligibility for carbon credit certification



Additionality

Does the market provide an insufficient incentive to produce the sustainable feedstock?

Verifiability

Is a carbon crediting methodology available and applicable to the GHG mitigation activity (e.g., “CDM booklet”)? Or can a methodology be developed to quantify and verify the GHG mitigation?



Eligibility for certification under ISCC PLUS



ISCC PLUS basics

Do production and supply chain meet all certification criteria regarding sustainability, traceability and chain of custody?

GHG calculations

Are any GHG savings calculations (e.g., versus fossil fuels¹) only used to demonstrate *sustainability* and compliance with certain thresholds?

GHG mitigations are not claimed through ISCC PLUS claims



Bio / Circular / Renewable origin

The certification may enable the consumer of the feedstock to claim it as bio, circular or renewable (not carbon neutral).

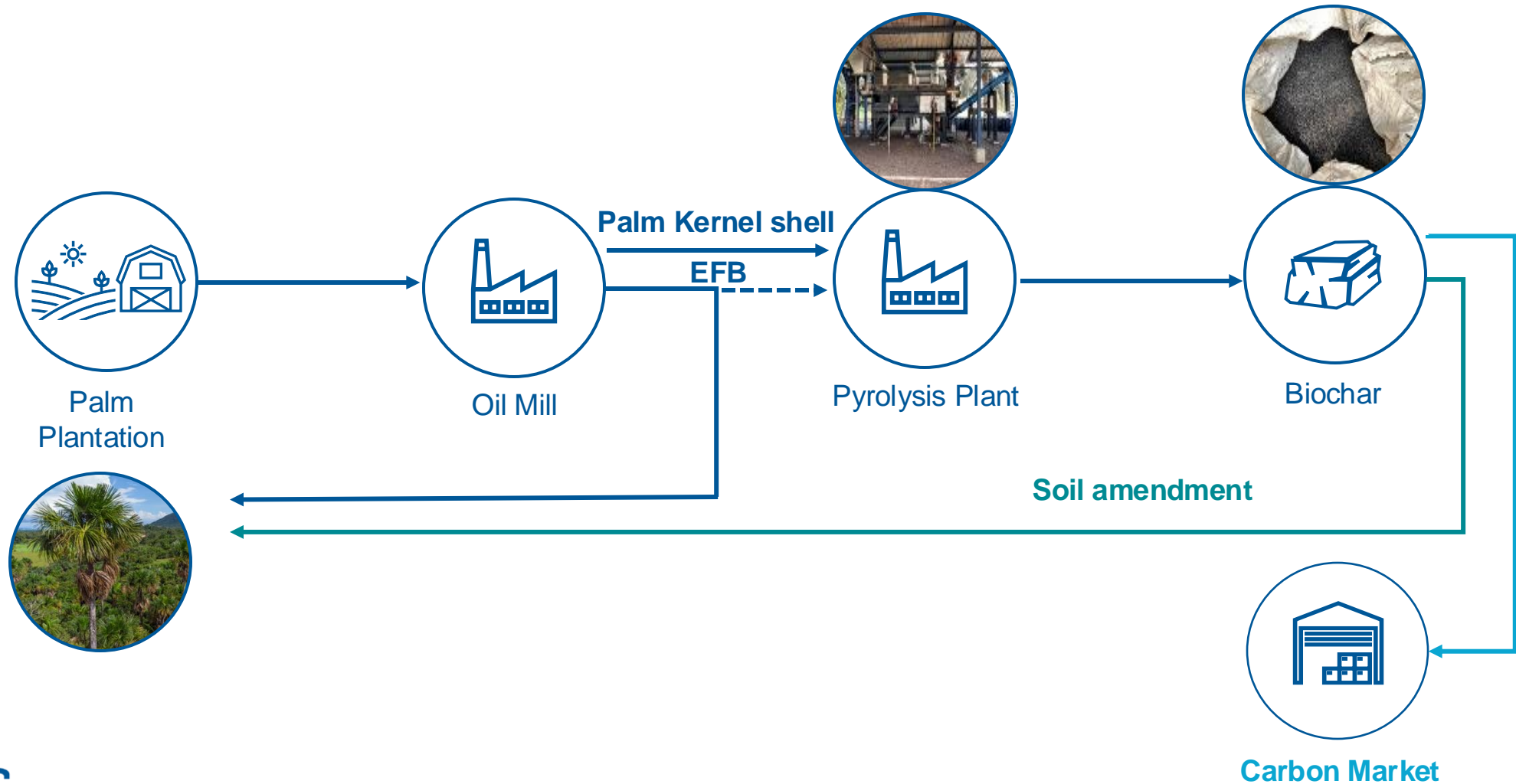
Carbon footprint

If a carbon footprint² is determined and certified (GHG add-on), the consumer of the feedstock may report the corresponding emissions in their voluntary disclosure. The GHG mitigation – e.g., CCS – itself must not be included in the footprint calculation.

Simultaneous certification of carbon credits + feedstock may be feasible



Example: Biochar production from palm oil production residues (palm kernel shell) + use of EFB as soil amendment



An important pillar to unlock these untapped potentials is the ISCC sustainability platform

