

Overview of the commodity certificate landscape

June 2026



Scope of the report

Purpose: Map and analyse the current landscape of commodity certificates from definitions to available guidance and standards.

Intended outcome: A mapping of current terms and their definitions, landscaping of available guidance on commodity certificates and analysis of existing gaps. The results may be used in future work on investments in climate solutions.

Problem

- Climate solutions are critical to global climate ambition and targets
- The scale of current markets is lacking
- There is a need to stimulate the investment

→ Market instruments

- MIs are not included in global standards
- No consensus on their efficiency and purpose
- Businesses are unsure about appropriate action

→ Risk of delay for climate action

Theory of change

1. More money needs to flow towards some system transformations
2. Corporates could provide that money
3. Being allowed to use market instruments to meet GHG reduction targets would provide the necessary incentive for corporates to spend money on system transformation

→ MIs are a temporary measure to ensure the climate solutions reach the desired scale

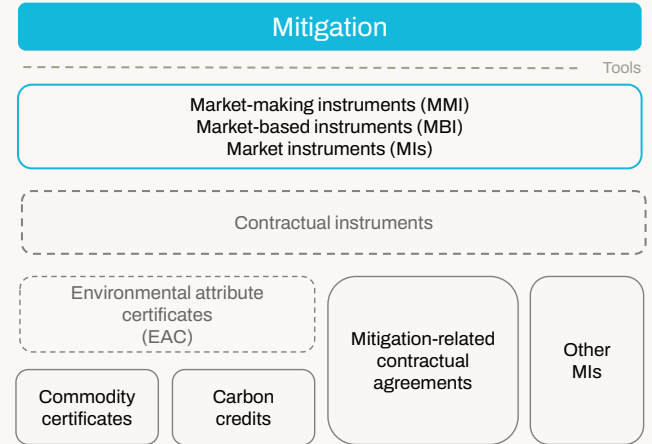
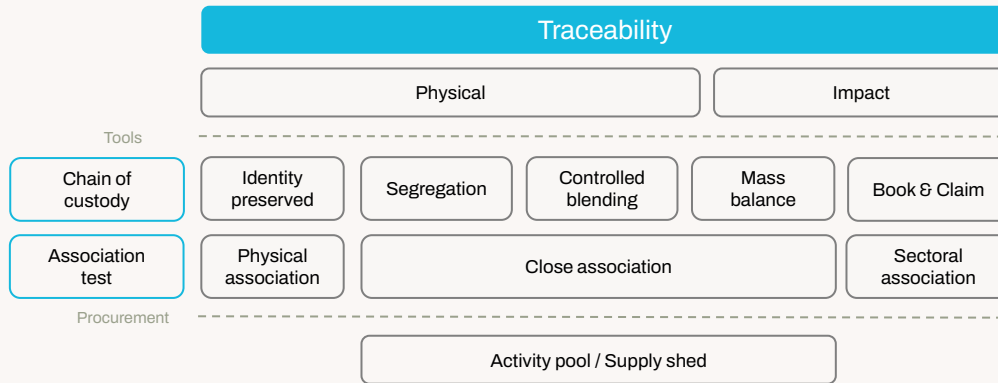
→ Once the scale is achieved, they become embedded in the value chain

Key terminology



Terminology overview

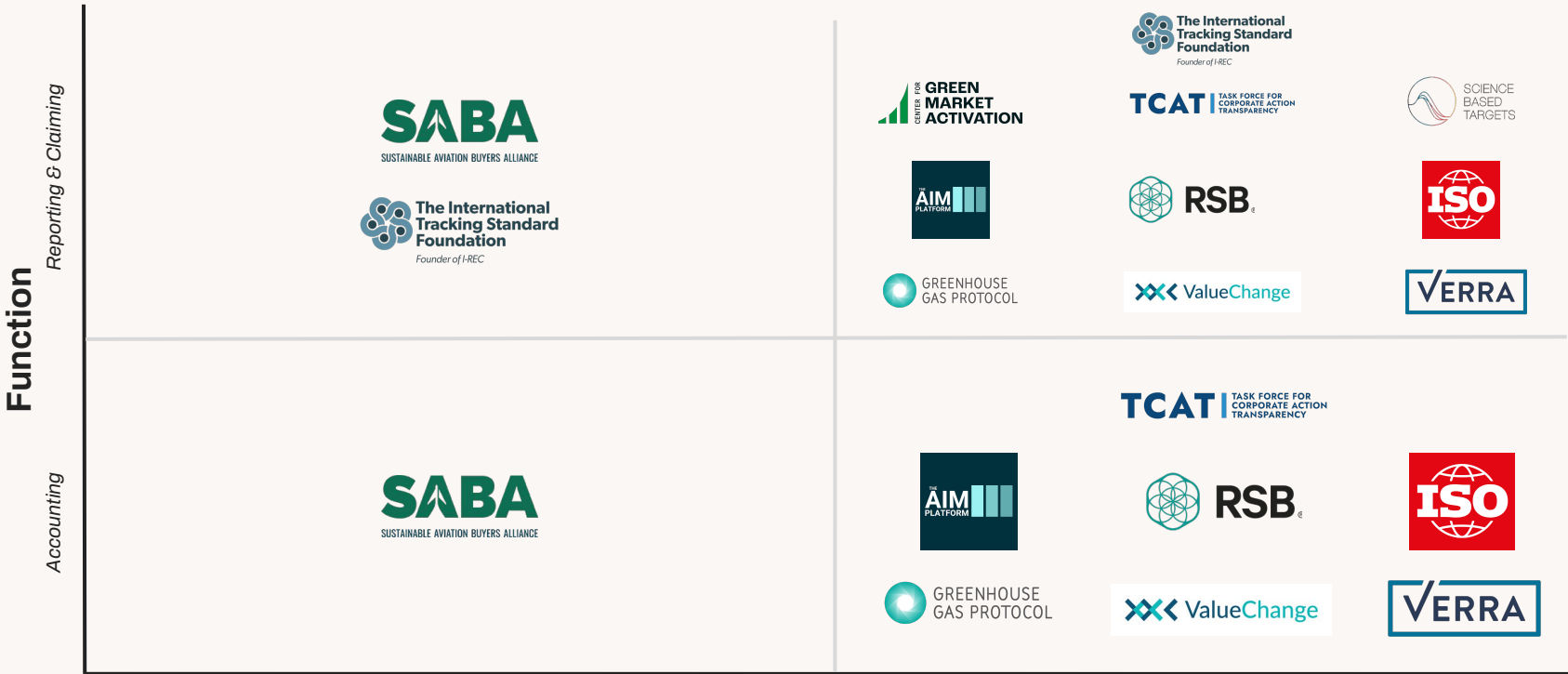
Different organisations use different terms and concepts to describe core concepts related to market instruments and commodity certificates. There are two main families of terms as shown below: “Traceability” and “Mitigation”. In “Mitigation”, the market-making instruments are tools to achieve it, while chain of custody models and association test are tools for ensuring “Traceability” of contractual instruments.



Standards, certifications and initiatives



Regulatory landscape



Single commodity / sector

Scope of the initiative

Multi commodity / sector

Current landscape summary



Current standard:

- No allowance for MIs
- Direct actions only

Updated standard (November 2025):

- MIs can be used to demonstrate progress towards targets and support scaling of low-carbon solutions
- MIs are a temporary measure; organisations to prioritise direct action
- Scope 2: follow current and future GHG P requirements
- Scope 3: specific integrity and reporting requirements



- Separate AMI workstream
- Updated quality criteria for contractual instruments to include:
 - Hourly matching
 - Deliverability
- Multi-statement reporting structure:
 - Separation of inventory into four components: physical, market-based, impact, and non-ghg indicator inventory
- AMI white paper published:
 - Terms & definitions
 - Accounting & reporting principles

Complementary initiatives

General guidance:



Sector-specific guidance:



Traceability:



To look out for:



Emission intensity as a certificate attribute

There are different requirements for the inclusion of emission intensity across different commodities. They vary based on sector and the regulatory maturity. Below is a summary for the three biggest groups.

1. Energy certificates

Within the EU system and globally, renewable energy certificates contents are regulated by local legislations and *do not include emission intensity values*. Within EU it is mandated by the EU RED II/III frameworks.

2. SAF certificates

Within global legislation and voluntary standards, SAF certificates are *required to contain the emission intensity* of the particular SAF batch as well as % comparison to the industry benchmark. This is done for compliance purposes in order to demonstrate alignment with regulations and established minimum thresholds for eligibility.

3. Others

For the remaining commodities, the regulation is underdeveloped. The general approach that the issuing organisations adopt is to follow the SAF framework – include the emission intensity values as well as current market comparison. For each commodity, the industry average is defined on case-by-case basis or, if applicable, within EU CBAM and ETS systems.

Other attributes commonly included in certificates

In addition to emission intensity, MIs contain other attributes. Below is a list of commonly included attributes, irrespective of the commodity type:

- Issuing organisation
- Production location of a commodity
- Production timeframe of the commodity (start date - end date)
- Feedstock (if material commodity or fuel)
- Energy type (if energy)
- Chain-of-custody model
- Registry
- Retirement and expiry date

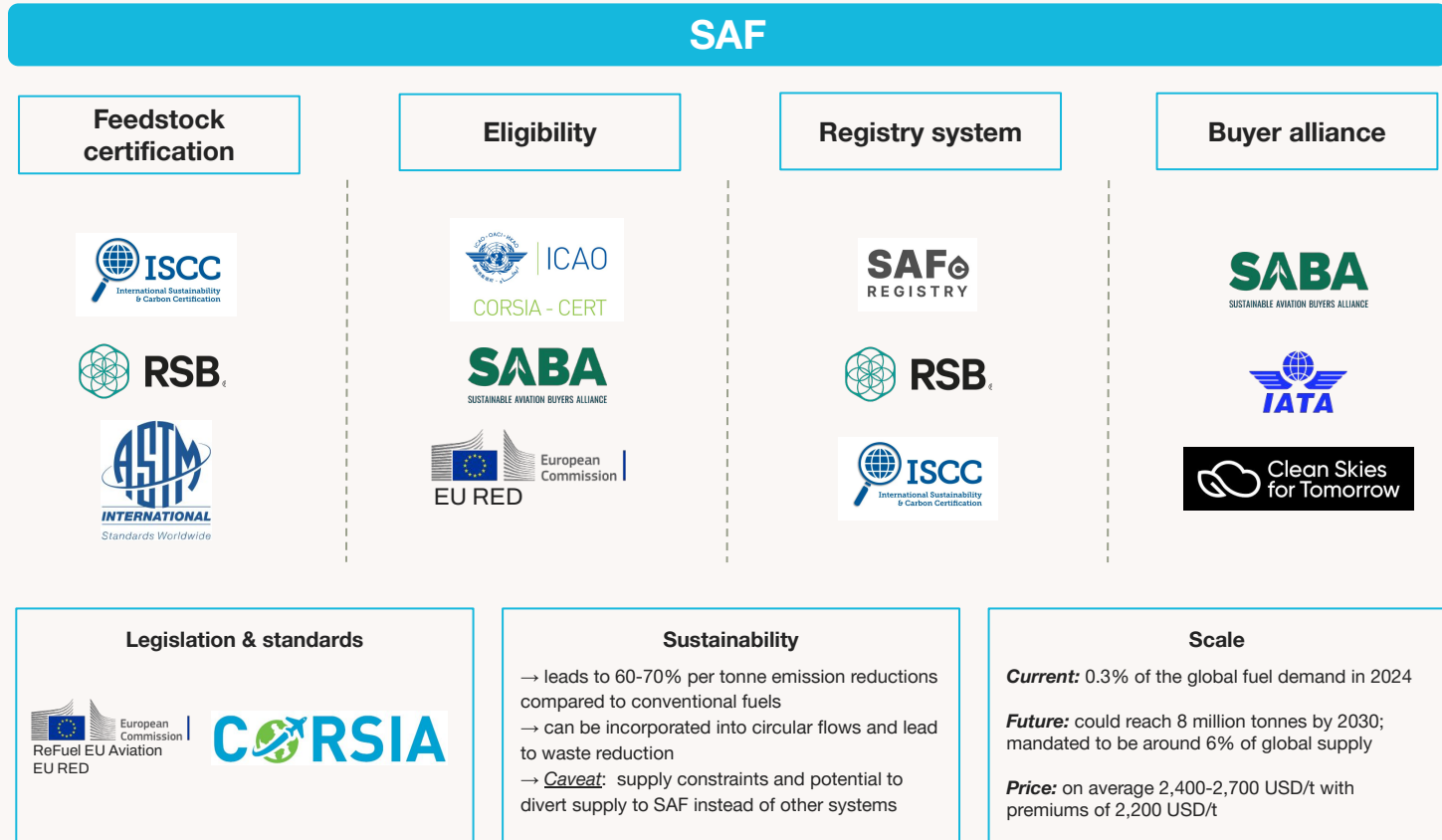
The exact combination of attributes depends on the certificate type as well as regulation that the specific commodity is subject to.

Commodity-specific guidance

SAF, sustainable shipping services, green concrete and cement, green steel



SAF landscape



Sustainable shipping landscape

Sustainable shipping



Legislation & standards

European Commission
FuelEU Maritime
EU MRV Maritime
EU ETS

IMO (INTERNATIONAL MARITIME ORGANIZATION)

Sustainability

- Many decarbonisation pathways available:
 - Alternative fuels
 - Circularity
 - Efficiency improvements
- Caveat: nascent industry, need standardisation support to take off

Scale

Current: 5.6% of all ships operating on sustainable fuel; 62 green corridors

Future: market is expected to grow 6 times by 2032

Price: on average 350-400 USD/TEU with premiums of 250 USD/TEU

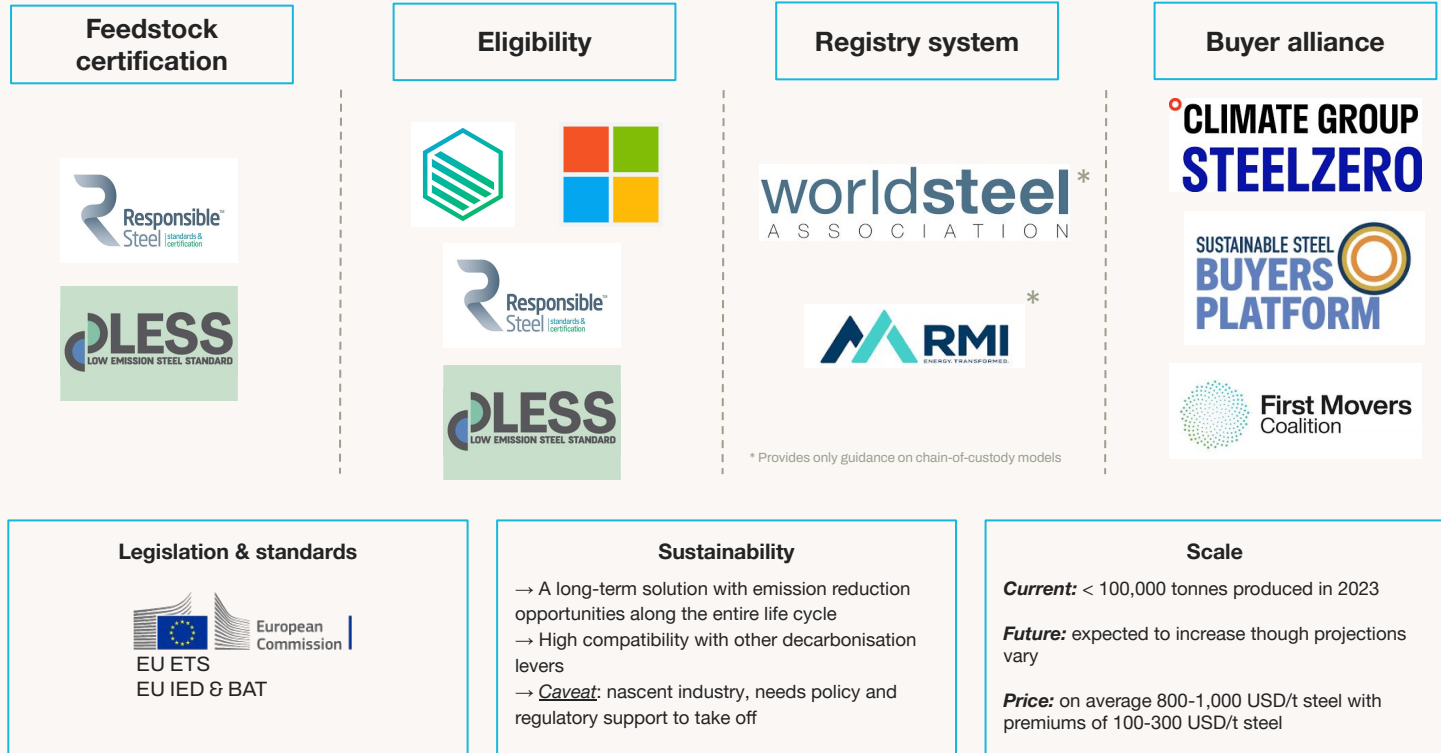
Green concrete & cement landscape

Green concrete & cement



Green steel landscape

Green steel



Commodity summary

Commodity	Sustainability	Infrastructure maturity	Integration in standards	Market-readiness	Cost*
SAF	Medium	High	High	High	136-3,680 USD/tCO ₂ e Price premium: 2-6 times
Sustainable shipping	Medium	Medium	Medium	Medium	150-200 USD/t CO ₂ e Price premium: 150-200 USD/TEU
Green cement & concrete	Medium-High	Medium-Low	Medium-Low	Low	30-60 USD/t CO ₂ e Price premium: 30-50 USD/t
Green Steel	Medium-High	Low	Low	Low	100-300 USD/t CO ₂ e Price premium: 100-300 USD/t

* Estimated based on cost of the physical commodity, not the certificate