ARTICLE 6 EXPLAINED

CARBON MARKETS

COMPLIANCE ⟷ VOLUNTARY

THE PARIS AGREEMENT

EXPLAINED IN THREE MINUTES

WHAT ARE CARBON MARKETS?

Trading systems in which carbon credits or allowances are bought and sold. They help cut GHG emissions cost-effectively.

COMPLIANCE CARBON MARKETS

Mandatory systems established by governments or international regulators. Typically, they set emissions caps and issue or auction allowances to regulated entities, which can trade them.

VOLUNTARY CARBON MARKETS

Systems in which companies, governments, investors, and individuals buy and sell carbon credits to meet voluntary climate goals.

The Paris Agreement, adopted by 196 nations in 2015, created a new framework for international carbon trading.

ARTICLE 6 OF THE PARIS AGREEMENT

Article 6 of the Paris Agreement establishes the rules for international carbon markets. It has three parts:

- **ARTICLE 6.2** governs bilateral trading between countries.
- **ARTICLE 6.4** creates a UN-supervised global carbon market, the Sustainable Development Mechanism (SDM).
- **ARTICLE 6.8** promotes non-market approaches, such as climate finance and technology transfer.

ARTICLE 6.2

Article 6.2 allows countries to trade emissions reductions directly with each other. These are called Internationally Transferred Mitigation Outcomes (ITMOs).

To avoid double counting, the country that sells the credit must adjust its own emissions accounting. This is called a corresponding adjustment.

ARTICLE 6.4

Article 6.4 creates a new, UN-supervised carbon market. It is designed to support the Paris Agreement's goals and to channel investment to developing countries.

ARTICLE 6.8

Article 6.8 covers non-market approaches, such as climate finance, technology transfer, and capacity building. It does not involve carbon trading.

WHAT ARE CARBON CREDITS?

A carbon credit represents the reduction or removal of one metric ton of carbon dioxide equivalent (tCO_2e). Companies can buy credits to offset their own emissions.

COMPLIANT CARBON MARKETS

- Mandatory participation
- Caps set by governments
- Allowances or credits issued and traded
- Penalties for non-compliance
- Examples: EU ETS, California Cap-and-Trade, China ETS

VOLUNTARY CARBON MARKETS (VCMS)

- Voluntary participation
- Credits issued by private standards
- Buyers include companies, investors, and individuals
- Examples: Verra (VCS), Gold Standard, ACR, CAR

VALUE OF CARBON CREDIT

Article 6 of the Paris Agreement has created a new framework for international carbon trading. It has three parts: Article 6.2 governs bilateral trading between countries. Article 6.4 creates a UN-supervised global carbon market. Article 6.8 promotes non-market approaches, such as climate finance and technology transfer.

WHAT IS ARTICLE 6 OF THE PARIS AGREEMENT?

A guidebook, two new UN bodies, and a global carbon market: Article 6 is the most complex part of the Paris Agreement. It governs how countries cooperate to meet their climate goals and implement carbon market mechanisms under the United Nations Framework Convention on Climate Change (UNFCCC). Its rules were finalized at the Glasgow COP26 and adopted by the Sharm el-Sheikh COP27.

ARTICLE 6.2

Article 6.2 allows countries to trade emissions reductions directly with each other. These are called Internationally Transferred Mitigation Outcomes (ITMOs).

To avoid double counting, the country that sells the credit must adjust its own emissions accounting. This is called a corresponding adjustment.

ARTICLE 6.4

Article 6.4 creates a UN-supervised global carbon market. It is designed to support the Paris Agreement's goals and to channel investment to developing countries.

ARTICLE 6.8

Article 6.8 covers non-market approaches, such as climate finance, technology transfer, and capacity building. It does not involve carbon trading.

3.1. THREE EXAMPLES TO HELP BREAK ARTICLE 6 DOWN

ARTICLE 6.2: BILATERAL TRADING

Article 6.2 allows countries to trade emissions reductions directly with each other. These are called Internationally Transferred Mitigation Outcomes (ITMOs).

To avoid double counting, the country that sells the credit must adjust its own emissions accounting. This is called a corresponding adjustment.

ARTICLE 6.4: THE SUSTAINABLE DEVELOPMENT MECHANISM (SDM)

Article 6.4 creates a UN-supervised global carbon market. It is designed to support the Paris Agreement's goals and to channel investment to developing countries.

ARTICLE 6.8: NON-MARKET APPROACHES

Article 6.8 covers non-market approaches, such as climate finance, technology transfer, and capacity building. It does not involve carbon trading.

3.2. MATTER OF PROCESS: ARTICLE 6.4 VS ARTICLE 6.2

Both processes begin with host country approval, but Article 6.4 adds UN supervision and a share of proceeds for adaptation. Article 6.2 is faster and more flexible, but relies entirely on bilateral trust.

3.3. HOW ARTICLE 6 COULD SUPERCHARGE CLIMATE ACTION

If Article 6 delivers on its promise, the Paris Agreement's ambition loop could accelerate. It can ambition and raise the Paris Agreement's temperature goals. It links underlining activity to stronger national ambition in global emissions PATHWAYS.

3.4. HOW ARTICLE 6 MIGHT INFLUENCE OTHER CARBON MARKETS

We know that Article 6 rules will influence compliance and voluntary markets, but we expect these influences to be different in each market. Here's how we think Article 6 will affect the EU ETS, California's compliance market, and independent voluntary standards, and if they depart to drive improvements.

ARTICLE 6 AND THE EU ETS

Article 6 could put pressure on the EU ETS by increasing the supply of international credits. The EU has responded by tightening its rules, including a ban on using credits from projects registered after 2020.

ARTICLE 6 AND CALIFORNIA'S CAP-AND-TRADE PROGRAM

California's program has historically been a leader in linking with international markets. It has set limits on the use of Article 6 credits and has signaled that it may tighten these rules further.

ARTICLE 6 AND VOLUNTARY CARBON MARKETS (VCMS)

Article 6 could help VCMs by providing a clear framework for high-integrity credits. This could boost demand for credits that meet Article 6 standards.

3.5. HOW ARTICLE 6 MIGHT INFLUENCE OTHER CARBON MARKETS

We know that Article 6 rules will influence compliance and voluntary markets, but we expect these influences to be different in each market. Here's how we think Article 6 will affect the EU ETS, California's compliance market, and independent voluntary standards, and if they depart to drive improvements.

ARTICLE 6 AND THE EU ETS

Article 6 could put pressure on the EU ETS by increasing the supply of international credits. The EU has responded by tightening its rules, including a ban on using credits from projects registered after 2020.

ARTICLE 6 AND CALIFORNIA'S CAP-AND-TRADE PROGRAM

California's program has historically been a leader in linking with international markets. It has set limits on the use of Article 6 credits and has signaled that it may tighten these rules further.

ARTICLE 6 AND VOLUNTARY CARBON MARKETS (VCMS)

Article 6 could help VCMs by providing a clear framework for high-integrity credits. This could boost demand for credits that meet Article 6 standards.

WHAT BODY ARTICLE 6 IMPLEMENTS?

The Glasgow Climate Pact, adopted at COP26 in 2021, established the Article 6 Implementation Guidance. It is the rulebook for how Article 6 will work in practice. It covers:

- Rules for authorizing and tracking ITMOs
- Requirements for corresponding adjustments
- Safeguards to prevent double-counting
- Transparency and reporting obligations

The guidance was finalized at COP27 in 2022. It is now being implemented by countries and by the UNFCCC Secretariat.

ARE ALL CARBON CREDITS CREATED EQUAL?

Not quite. Carbon credits can be divided into two broad categories: nature-based and engineered.

TRADITIONAL VS NOVELTIES

To validate transactions on a ledger, blockchain networks require participants to solve complex mathematical puzzles. This is a process known as proof-of-work.

ARTICLE 6 AND THE PROTECTION OF INDIGENOUS PEOPLES

Article 6 requires host countries to obtain the free, prior, and informed consent of indigenous peoples before approving projects on their land.

ARTICLE 6 AND THE PROTECTION OF FOREST ECOSYSTEMS

Article 6 includes safeguards to prevent projects from causing deforestation or forest degradation.

ARTICLE 6 AND THE PROTECTION OF BIODIVERSITY

Article 6 requires projects to assess and minimize impacts on biodiversity.

ARTICLE 6 AND THE PROTECTION OF ECOSYSTEMS

Article 6 requires projects to assess and minimize impacts on ecosystems.

TERMS AND TAKES BUILT EXCEPTIONS OF INCLUSION REDUCTIONS

Want to the emissions reduction formula (ERR) for a company?

4.1. WHAT TWO CARBON TRADES REPRESENT REMOVAL OR AVOIDANCE PROJECTS

Across the two major voluntary carbon credit registries — Verra, American Carbon Registry, the Gold Standard, and the Climate Action Reserve — there are 1,610 projects registered. Of these, 44% have been approved to issue credits.

Only 1% of credits were generated from pure CARBON REMOVAL projects — those that remove carbon from the atmosphere and store it permanently, such as direct air capture or biochar.

The vast majority — 99% — were from AVOIDANCE projects, which prevent emissions that would otherwise occur, for example by protecting forests from being cut down.

FAILURE OF CREDITS DERIVATIVE FROM CARBON REMOVALS IS ESSENTIAL

4.2. WHAT, WHERE SHOULD VOLUNTARY CREDITS FIT IN?

THE BOTTOM LINES

If the Article 6.4 Stock Exchange's Crediting Mechanism achieves high-integrity certifications, it could become a powerful driver of climate action. If it fails, it could undermine the credibility of the entire system.

If the Article 6.2 Accounting Framework standards on transparency and integrity are implemented and strengthened over time, it will contribute to the Paris Agreement's goals.

ARTICLE 6

If high-integrity and transparent, Article 6 could help countries meet their climate goals at a lower cost. If not, it could undermine the credibility of the entire system.

VOLUNTARY CARBON MARKETS

If Article 6 rules are seen as a benchmark for high-integrity carbon credits, they could help to restore confidence in the voluntary carbon market. This could lead to higher prices for credits that meet Article 6 standards.

REDUCTIONS TO REMOVALS

Scaling up durable carbon removal projects, such as direct air capture and biochar, will be essential to meeting the Paris Agreement's goals.

Carbon Credits | The Future of Voluntary Carbon Markets | Article 6 Explained | Carbon Offsets and Reductions | Carbon Credit Quality Initiative | Integrity Council for the Voluntary Carbon Market | Voluntary Carbon Market Integrity Initiative | Science Based Targets initiative | Net-Zero Standard | Oxford Principles for Net Zero Aligned Carbon Offsetting | Mark Carney | Michael Bloomberg | Mark Zelinski | Helen Mountford | Nigel Topping | Mahmoud Mohieldin | Nick Mabey | Dan Dobbs | Gavin Schmidt | Kate Hampton | Andrew Steer | Rachel Kyte | Christiana Figueres | Laurence Tubiana | Patricia Espinosa | Simon Stiell | Sultan Al Jaber | Mukhtar Babayev | Wael Aggan | Nigel Purvis | Jane Nelson | Peter Eckstein | Jason Mark | Gina McCarthy | Michael Regan | Brenda Mallory | Amy Coen | Ali Zaidi | Jennifer Granholm | Steven Guilbeault | Catherine McKenna | Jonathan Wilkinson | Seth Meyer | Alden Meyer | Tom Evans | Li Shuo | Lauri Myllyvirta | Christian Ellermann | Christian Egenhofer | Fatih Birol | Mohammed Barkindo | Haitham Al Ghais | Jeremy Oppenheim | Thomas Koch Blank | Rob Bailis | Ellen Dumett | Jeremy Hance | Jeremy Leggett | Jeremy Grantham | Jeremy Rifkin | Jeremy Corbyn | Jeremy Hunt | Jeremy Clarkson | Jeremy Irons | Jeremy Paxman | Jeremy Vine | Jeremy Kyle | Jeremy Beadle | Jeremy Brett | Jeremy Irons | Jeremy Paxman | Jeremy Vine | Jeremy Kyle | Jeremy Beadle | Jeremy Brett