

DEHSt Deutsche Emissionshandelsstelle

Taiwan-Germany Climate Policy and Carbon Pricing Forum

"Fit for 55": Advances in European Climate Policy



"Fit for 55": Advances in European Climate Policy

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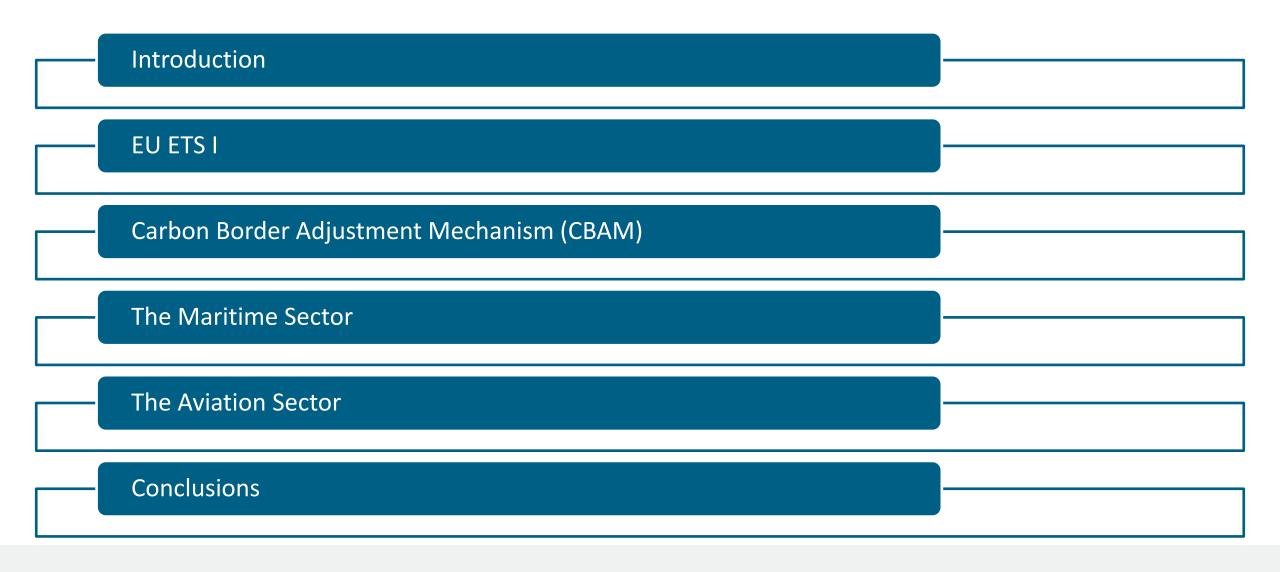
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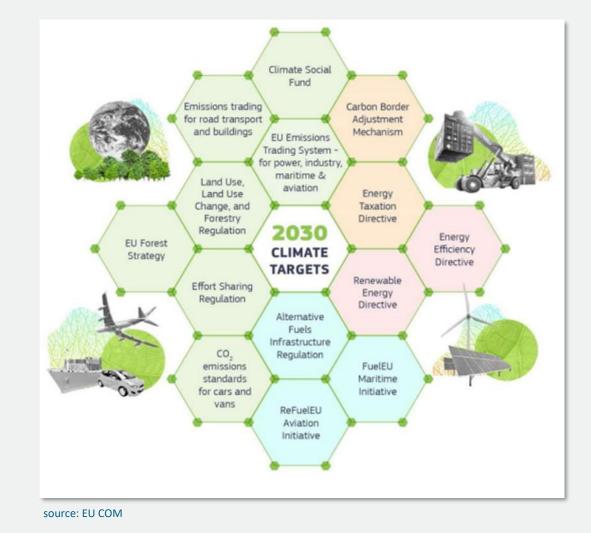


Overview



The "Fit for 55" legislative package

- Set of legislative proposals and strategies: broad range of policies for energy supply, industry, transport, households, and LULUCF
- Aligning energy and climate policy with the new EU climate policy goal for 2030 (at least minus 55 % in GHG emissions compared to 1990).
- Also includes very extensive changes and adjustments to the EU ETS
- A political agreement on the ETS dossiers was reached in the Trialogue on 17/18 December 2022
- Formal adoption by Council / EP and entering into force: May 2023
- Implementation in the various fields of action is now taking place gradually



Overview on the ETS Dossiers under the Fit for 55 Package

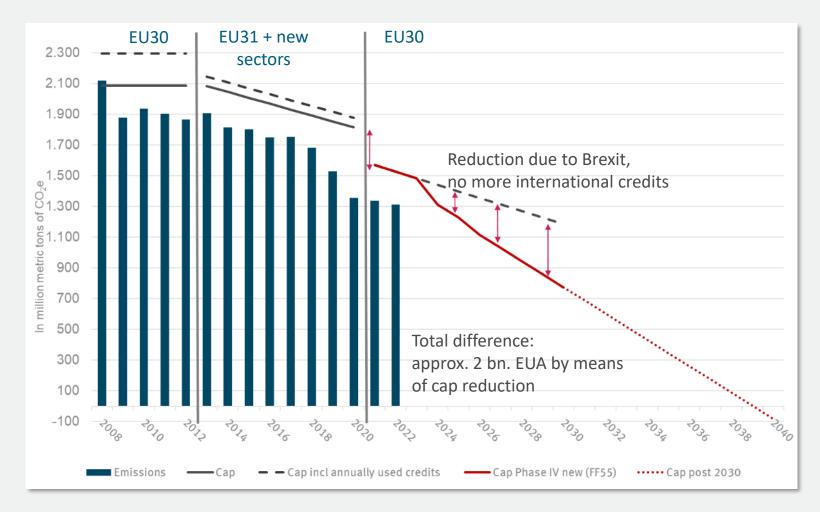
Substantial reform of the existing EU ETS and significant extension of the scope







Strong need for action: Structural mismatch of cap and emissions



 In 2022 Emissions from energy and industrial installations remain well below the cap (>200 Mio. EUA)

Significant increase in ambition through FF55:

- 62% (vs 2005), previously: - 43%
- LRF: 4.3% from 2024, 4.4% from 2028 (previously: 2.2%)
- Extraordinary reduction of the cap in 2024 and 2026 (- 90 and - 27 million certificates, respectively)

Source: DEHSt Calculations based on data from the European Environment Agency (EEA) and the European Commission.

Reform of ETS 1 – free Allocation

- Basically, the system of free allocation remains unchanged
- But: **Tightening** of allocation rules **and** creation of **new reduction incentives**.
 - **Gradual** reduction of the free **allocation** for products subject to the **CBAM** (CBAM factor)
 - Increase in the reduction rates for the benchmarks
 - Introduction of conditionalities:
 - > Implementation of recommendations for an **energy management system**
 - > Obligation of operators of installations whose greenhouse gas emission levels are higher than the 80th percentile of emission levels for the relevant product **to submit and implement climate neutrality plans**.
 - \rightarrow In the event of non-compliance, reduction of the free allocation by 20%.
 - The top 10% of all installations in terms of the respective product benchmarks do not receive any reduction by the cross-sector correction factor (SCF)

Reform of ETS 1 - an important and major step towards greenhouse gas neutrality, but much remains to be done

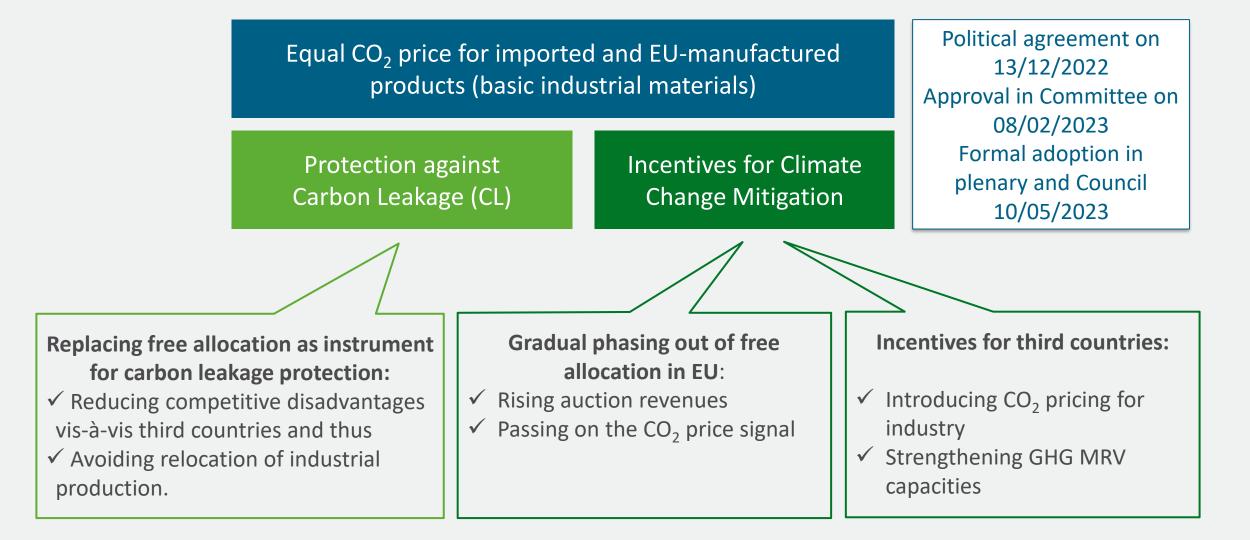
- Making sure that the climate target is reached through binding caps, disproportionate reduction contribution from ETS 1
- **Cancellation of surpluses** from the past (2.5 billion EUA)
- Use of revenues more targeted and more European:
 - Topping-up of innovation and modernisation funds
 - Financing of RepowerEU: faster expansion of renewables and moving away from fossil gas
 - National revenues 100% for climate protection or relief measures
- High time pressure for next steps: negotiation of secondary legislative acts, amendment of the TEHG (National legislation on EU ETS 1) and preparation for enforcement
- **Preparation for 2040 climate target** (EU Commission communication by end 2023):
 - Extension to other GHG gases + sectors
 - Integration/Non-Integration of ETS 1 + 2, Interplay of ESR and ETS 2
 - Integration or exclusion of negative emissions: Perspective for ETS post-2040



Carbon Border Adjustment Mechanism (CBAM)



The idea: Combining carbon leakage protection and effective CO₂ pricing



CBAM: General functioning

	Electricity	Cement and clinker	Importers ("Declarants"): Annual submission of a declaration on embedded emissions of imported goods
	Products of iron and steel	Aluminium products	In the beginning only direct emissions and emissions from heat/cooling, indirect emissions from electricity consumption only for cement / fertilisers
			Purchase + Submission of CBAM certificates
	Fertiliser	Hydrogen	CBAM obligation is reduced by free allocation in EU ETS
			CBAM obligation is reduced by carbon price paid in third countries
1.10.2023: Reporting ObligationObligationSubmissionSubmission		1.1.2026 Obligation Reporting Submission of Certificat	for and CBAM Phase-out of free allocation in EU ETS (until 2034) CEXpansion of coverage (indirect emissions/other products)

CBAM: What does it mean for importers of CBAM goods into EU?

2023

Transitional Period

- Regulated entity is the importer located in EU
- Quarterly reporting of embedded direct + indirect emissions to EU Commission (common platform), no verification
- Customs authorities report amounts and types of imported CBAM goods, importers and country of origin to EU Commission
- nCAs implement correction procedure in case of non-compliance (after notification by the EU Commission)

2026

Full Operation of CBAM

- Importers of CBAM goods have to be authorized as CBAM Declarants
- Annual submission of CBAM declaration and CBAM certificates (31/05)
 - Verified embedded emissions of imported goods
 - Minus free allocation in EU ETS
 - Minus carbon price paid in third country => no double pricing!
 - Copy of verification report

Free allocation is phased out → Full carbon price is charged.

2034

Chances and challenges of CBAM

Chances for climate protection:

- End of free allocation within Europe
- Pass on the carbon price along the value chain
- Incentive to lower CO₂ and other relevant emissions during the production process worldwide
- Enhance transparency on embedded emissions of goods, basis for international agreements on MRV of embedded emissions

Building of robust governance structures and processes: to ensure a fair and equal treatment

Overcoming international critique and resistance: with cooperation and communication, Capacity Building → climate club

Challenges:

- Time pressure (transitional phase starts already in October 2023, full system running by January 2026)
- Building of robust MRV systems and structures difficult within such a short time period
- Trade-offs between effective carbon leakage protection, administrative burden and strain of international trade relations

The Maritime Transport Sector

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Maritime transport emissions and GHG reduction measures

- Emissions:
 - Global: approx. 1 billion metric tons of annual maritime transport CO₂ emissions, equivalent to 2-3 % of global emissions.
 - EU: over 140 million metric tons of annual maritime transport CO₂ emissions, equivalent to 3-4 % of EU-wide emissions.
 - **significant increase** of maritime transport CO₂ emissions **expected** for the future
 - international maritime transport would be the 6th largest CO₂ emitter if it were a country
- Measures for GHG reduction:
 - So far, **no sufficient action** on a global or EU level

EU:

- since 2018 Monitoring, Reporting and Verification system (MRV system), neither reduction targets nor surrender obligations
- as of 2024 maritime transport will be included in EU-ETS 1

Global:

- since 2018, IMO's first GHG strategy: contains mitigation targets, but mitigation measures not yet elaborated nor agreed upon
- In July 2023, IMO Member States adopted a revised IMO GHG Strategy with enhanced targets

Inclusion of maritime sector in EU-ETS 1 as of 2024

- Geographical Scope:
 - Voyages between ports of Member States:
 - Voyages between ports of one Member State:
 - Voyages between EU und international ports:
- Gases:
 - as of 2024:
 - as of 2026: CH₄, N₂O
- Types of ships:
 - as of 2024: Ships with gross tonnage over 5,000

 CO_2

- as of 2027: Offshore-ships with gross tonnage over 5,000
- Obligations:

- Monitoring, reporting and submission obligations of the shipping companies
- No free allocation, but gradual phase-in of the obligation to surrender, i.e.

2024:	40% of verified emissions
2025:	70% of verified emissions
as of 2026:	100% of verified emissions

100% of emissions (incl.at berth)100% of emissions (incl. at berth)50% of emissions





Upcoming tasks for UBA

- Competence:
 - By February 2024, EU COM shall develop a list of shipping companies covered by the EU ETS, including the attribution to the competent authorities of the Member States
 - **DEHSt** is the **competent authority** in Germany
 - As of 2024 there will be approx. 220 shipping companies and approx. 1,600 ships under the administration of Germany (DEHSt)
- Upcoming administrative tasks:
 - Assessment and approval of monitoring plans + changes to monitoring plans.
 - Assessment of aggregated emissions data at company level + enforcement of surrender obligation through initiation and implementation of sanctions
- Preparatory administrative measures:
 - Establishment of an Expert Group on Maritime Transport + a new Section in Division V currently being implemented
 - Establishment of new administrative procedures (IT infrastructure; registers) + Supporting ongoing legislative procedure on EU level
 - **Transposition** of the EU Emission Trading Directive into national legislation

The Aviation Sector



Aviation emissions and European reduction measures

- Emissions:
 - Global: approx. 1 billion metric tons of annual CO₂ aviation emissions (pre-Covid), equivalent to 2-3 % of total emissions → very similar to maritime emissions
 - EU ETS: approx. 70 million metric tons of annual CO₂ emissions (pre-Covid)*
 - Significant increase in aviation emissions expected for the future
- European measures for CO₂ reduction:
 - 2010: Inclusion of aviation CO₂ emissions in EU ETS, MRV system only
 - 2012: Surrender obligation for intra-EEA aviation CO₂ emissions, 85% of allowances allocated for free
 - 2019: Provisional Implementation of ICAO's Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) via Regulations to the Emissions Trading Directive
 - 2021: Linking of the EU ETS with the Swiss ETS
 - 2022: Linking of the EU ETS with the UK ETS

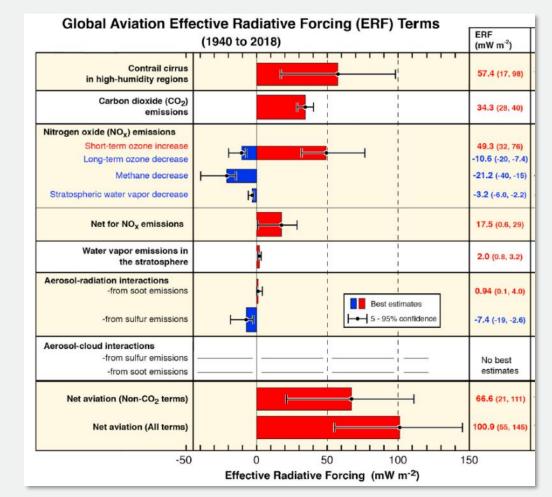
Changes for aviation in the Emissions Trading Directive (I)

Phasing-out of free allocation

- In 2024 only 75%, in 2025 only 50% of the original free allocation (i.e. of 85%)
- Complete auctioning as of 2026
- Allocation of 20 million allowances for use of sustainable aviation fuels (SAFs)
 - Compensation for **price difference** compared to conventional **kerosene** when using SAFs
 - Allowances are deducted from auction quantity, so they are not generated additionally
 - With current prices for allowances **subsidy** for SAFs amounts to approx. **1.7 billion Euro**
- Incorporation of CORSIA rules into the ETS Directive
 - Reduced scope (only intra-EEA flights) for surrender obligation in the EU ETS retained until the end of 2026; therefore no intra-EEA CORSIA obligation
 - CORSIA compensation obligation on remaining int. routes expected to start in 2024
 - Re-evaluation of CORSIA in 2026 by EU COM

Changes for aviation in the Emissions Trading Directive (II): Non-CO₂-Effects

- Total climate impact of aviation three times higher than CO₂ emissions alone; but no linar relation to CO₂ emissions on single flights
- Most important non-CO₂ effects of aviation
 - Contrails and contrail-cirrus
 - NO_x emissions
- UBA research and policy advice on how to include non-CO₂ effects for all EU ETS flights since 2017
- Consideration of non-CO₂ effects
 - from 2025, MRV system for all flights taking off or landing in the EEA, initially without surrender obligation
 - Proposal for full integration by the end of 2027 by EU COM



Source: Lee et al, 2020; The contribution of global aviation to anthropogenic climate forcing for 2000 to 2018 (abridged)

Conclusions

"Fit-for-55" strengthens emissions trading as EU's key instrument

- Status of emissions trading as EU's central climate protection instrument is underlined by the reform package
- For **ETS 1**, significant reduction of the cap from currently -43 % to -62 % compared to 2005.
- The scope of emissions trading is expanded to maritime emissions
- CBAM to gradually replace free allocations for Carbon Leakage protection

 → strengthen the incentives for transformation to climate neutrality in the industry
- New ETS 2 for emissions from buildings, transport and small industry installations
- Upstream system (→ suppliers of fuels liable for submitting allowances); all allowances auctioned





Thank you for your attention!

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This presentation is based on a speech held by the German Emissions Trading Authority (DEHSt) and is not clear for publication. Check against delivery. References and quotations from the presentation must at all times be approved in written form by the DEHSt.