

ETS2: Fuel for the yellow vests or driver of the green transition?

**1st jan.
2027**



A new European carbon market (ETS2) will come into force across the EU

→ Sectors covered:



road
transport



buildings



construction

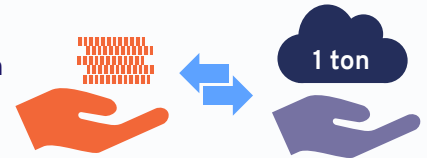


small
industry



The ETS2 relies on the “polluter pays” principle

a trading system (buying and selling) “pollution rights” also known as **emission allowances or permits**. Each allowance corresponds to one ton of CO₂.



The ETS2 is part of the FitFor55 climate policy package¹



**by
2030**



a reduction in greenhouse gas emissions target (compared to 1990 levels).



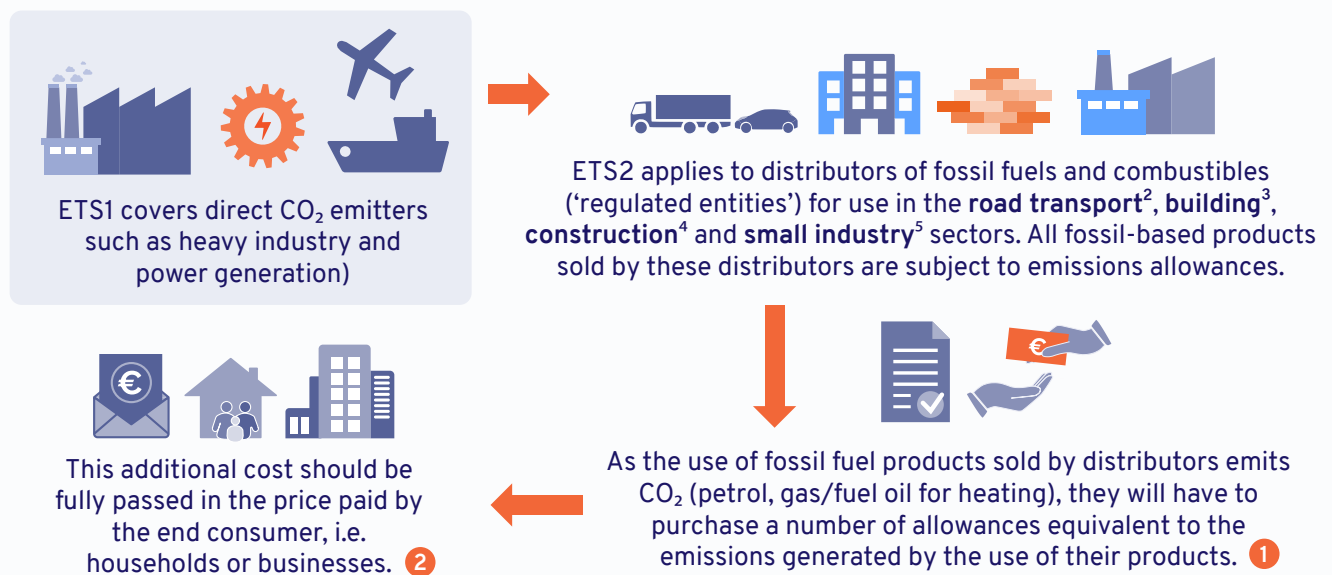
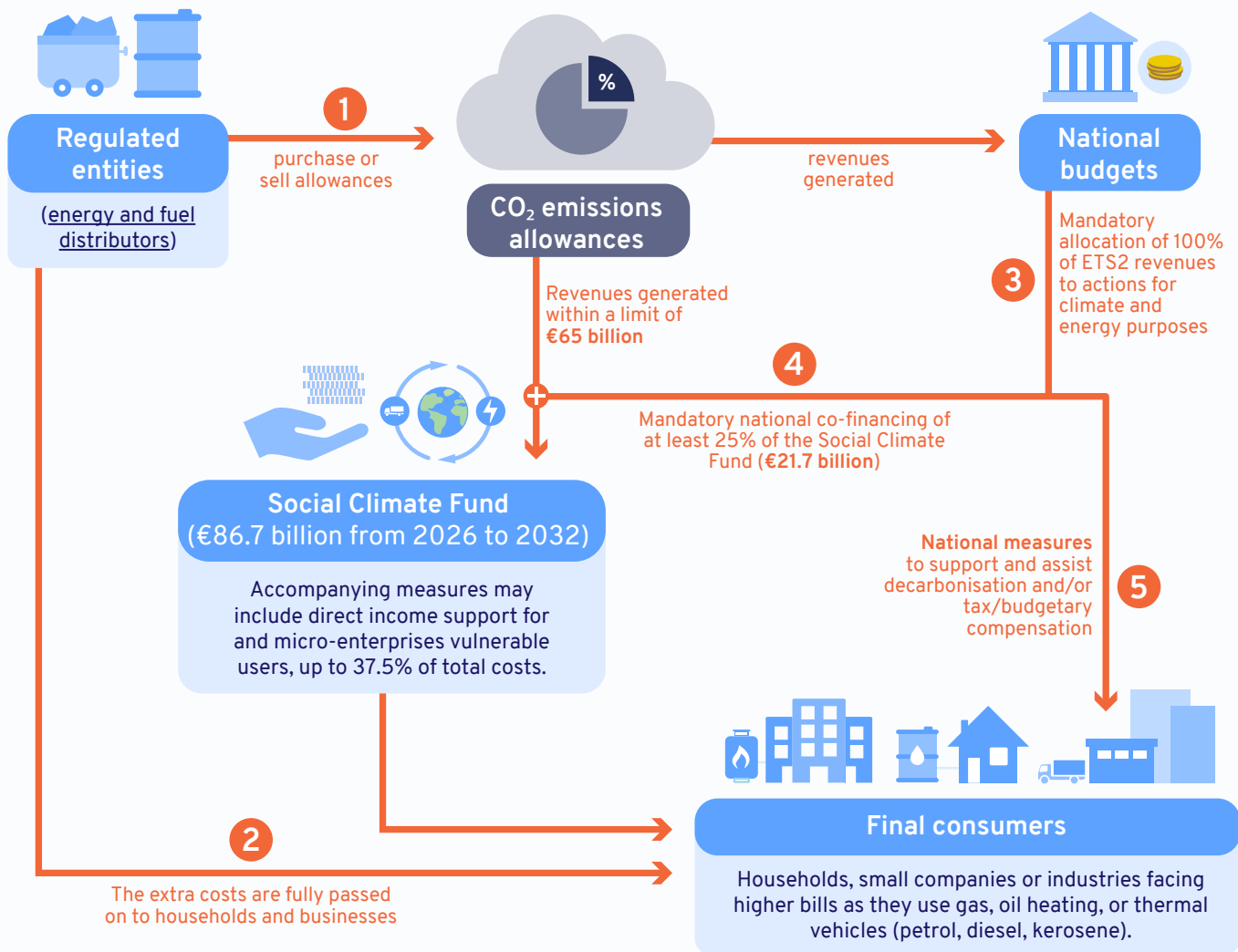
The proposed ETS2 covered nearly 50% of the additional effort required for the transport and building targets.



**1st
semester
2022**

Negotiated during the French Presidency of the Council of the EU, ETS2

Functioning and scope





The carbon price will result in higher bills for end consumers in Europe.



For buildings, the additional cost could be in the range of **10 to 30%**, depending on the fossil fuel concerned and the Member State.

European Commission estimates:

With a 48€tCO₂ price

→ Leading to a surplus of:



13c/L for diesel



11c/L for petrol



The bullish effect of the carbon price will also vary depending on how each Member State decides to combine ETS2 and any existing carbon tax.



Following France's carbon tax example, eight other states⁶ have a carbon tax with a scope that more or less encompasses the one of the ETS2, particularly with regard to the use of fossil fuels in buildings.

Example:



additional cost estimated by the French Court of Auditors⁷:



11 to 13% for gas



10 to 11% for fuel

Rexecode⁸ modelled the average annual additional cost for the average French household:



155€



105€ related to transport



50€ related to buildings

Conversely, other EU countries, particularly in Eastern Europe, who do not have a carbon tax, will see a significant increase in their bills as no carbon pricing mechanism is in place there.



Why a new carbon market, and for what purposes?

The objective of this harmonised price signal is to **encourage users to change their behavior by moving towards carbon-free alternatives.**

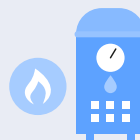
Example:



Internal combustion engine vehicle



electric vehicle



fossil fuel boiler



heat pump

In practical terms, this European carbon price will **increase the cost of using fossil fuels** (fuel oil, gas, petrol, diesel, coal, etc.).



In order to support these changes, the proper use of revenues generated by ETS2 will be crucial. **3**

Each Member State will be able to :

- Use money from the SCF
- As well as revenues from the ETS2

Ex. :



SCF

€1.2 bn/y

ETS2

€6.5bn/y with a 50€tCO₂ price

Measures that could be financed:

- **support and assistance with decarbonisation**⁹, (e.g. via social leasing for electric vehicles or the “MaPrimeRénov” building renovation scheme in France)
- **tax relief** (tax credits, reduced VAT)
- **budgetary measures** (revaluation of the energy cheque or the introduction of a universal carbon income) to mitigate the effects of price increases.



The Social Climate Fund

Starting
2026



A Social Climate Fund (SCF) ⁴ with an estimated envelope of €86.7 bn over the 2026-2032 period will be financed as follows:

ETS1 REVENUES

For 2026 only



50 million

Revenues coming from the auctioning of allowances from ETS1



€4 bn

ETS2 REVENUES

Starting 2027



min. 150 million

Revenues from the auctioning of ETS2 allowances and an additional quantity of allowances determined by the Commission based on the market price.

€65 bn

CO-FINANCING SCF

Through a mandatory co-financing coming from Member States for at least

25%



amounting
€21.7 bn

Maximum amount
of the SCF :

€86.7 bn

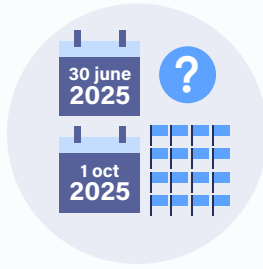


The disbursement of revenues contributing to the Social Climate Fund must be submitted for validation to the European Commission as part of a **national social climate plan** using a mechanism similar to that used for European recovery plans.¹⁰

The distribution of revenues via the Fund is based on a series of criteria (total population, proportion at risk of poverty, gross national income per capita in purchasing power parity terms, etc.) in line with a logic of solidarity towards the poorest and most fossil fuel-dependent countries.

Each plan must list the measures and investments that will be undertaken in order to meet the listed criteria. Operating as a **performance-based instrument**, the disbursement of revenues occurs after milestones and targets have been achieved, allowing for the effectiveness of the measures implemented to be assessed.





The development of the plans must be preceded by a **mandatory public consultation of stakeholders** (local and regional authorities, economic and social partners and relevant civil society organisations). Although a first draft of these plans was expected by 30 June 2025, only 16 states had submitted their plans by 1st October 2025.

ETS2 price scenarios and associated revenues



If 100% of carbon revenues are to be earmarked for actions related to climate and energy...



...the exact amount remains unknown, as it depends on the carbon price.

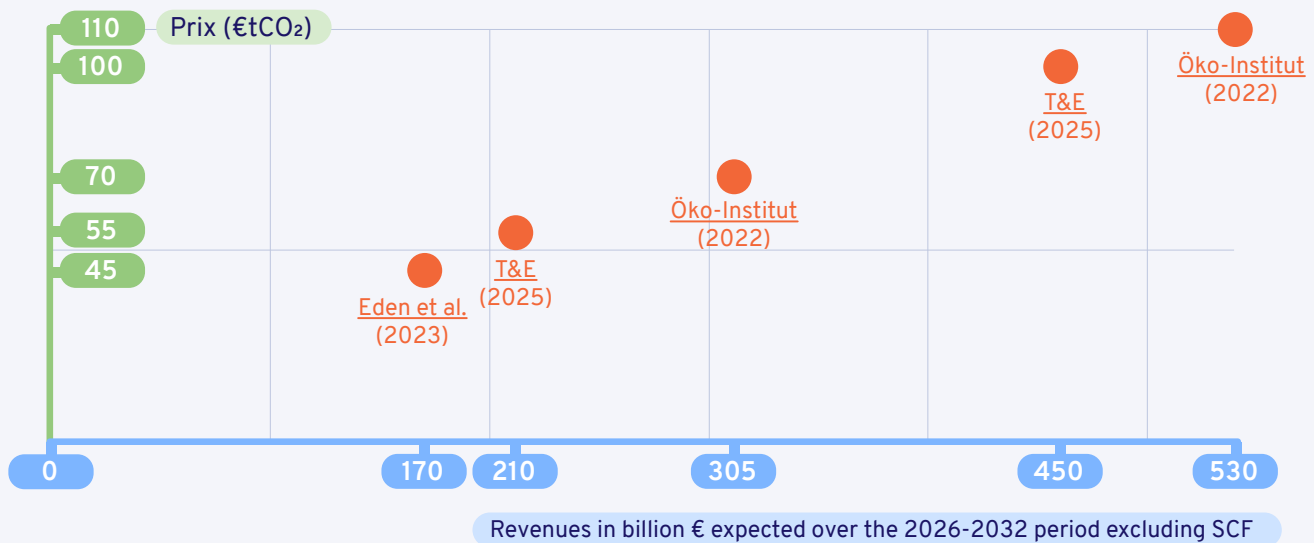
A “central” scenario over the 2027-2032



= €250 bn

of national revenues¹¹

5



Many factors, either political or technical, are likely to cause fluctuation of the CO₂ price, either upwards or downwards:

Rapid implementation of European and national regulations on the transport and building sectors, particularly in the main emitting countries, **would reduce demand for emission permits and therefore the carbon price.**

However, we have been able to demonstrate through a prospective analysis¹² that the trend at European level is heading towards a **downward revision of ambition** rather than maintaining climate targets as they stand.



POSTPONING

would lead to a price increase



A deferral, to be decided no later than 15 July 2026, in the event of exceptional prices for gas or Brent crude oil during the six calendar months prior to 30 June 2026.



Gas price must be:
> 100€/MWh

→ while being at
30€/MWh
currently



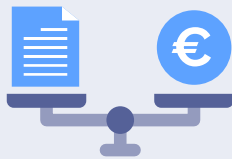
Brent price
160\$/baril

→ while being at
65\$ currently

Such a postponement would effectively reduce the Social Climate Fund's budget and could increase pressure on the carbon price.

MARKET STABILITY RESERVE

would lead to a price decrease



The Market Stability Reserve (**MSR**) is an instrument that regulates the market by absorbing surpluses or releasing quotas in order to maintain price stability.

The MSR is supposed to come live in 2028 but changes have been proposed by 19 Member States :



Starting
2027

the launch of the
MSR could be
revised and moved
forward by a year



2031

Not end in 2031 :
the MSR is expected to
expire in 2031 but the end
date could be extended

To address the Member States' concerns, the European Commission has proposed :
Earlier and more gradual injections of allowances from the MSR in case of lower market liquidity

FRONTLOADING

would lead to a price decrease



An early auction of the allowances

30% additional quotas
(known as 'frontloading')

1 jan.
2027



may
2028



Operating by taking a portion
of the auction volume from
the 2029-2031 period.



This frontloading will make the
market more liquid and keep
prices low due to excess supply.



Starting
2029

If emissions from the sectors concerned have not fallen
as expected, a significant increase can be expected due to
the scarcity of allowances.



This frontloading of allowances should not be confused with the frontloading of carbon revenues as recently proposed by the European Commission through the Frontloading Facility. The frontloading of future carbon revenues consists in granting Member States, in advance and via the European Investment Bank, an amount corresponding to expected future carbon revenues in order to pre-finance decarbonization programs starting now.



SOFT PRICE CAP

would lead to a price decrease



If the carbon price reach a 2020 price of 45€/tCO₂

which is equivalent to 60€/tCO₂ in 2027-2030

OR if the price spikes



x2

x3

compared to the average price of the last 6 months.



The mechanism can be triggered twice a year, to release up to 80 million allowances on the market each year in 2027, 2028 and 2029.

LINEAR REDUCTION FACTOR



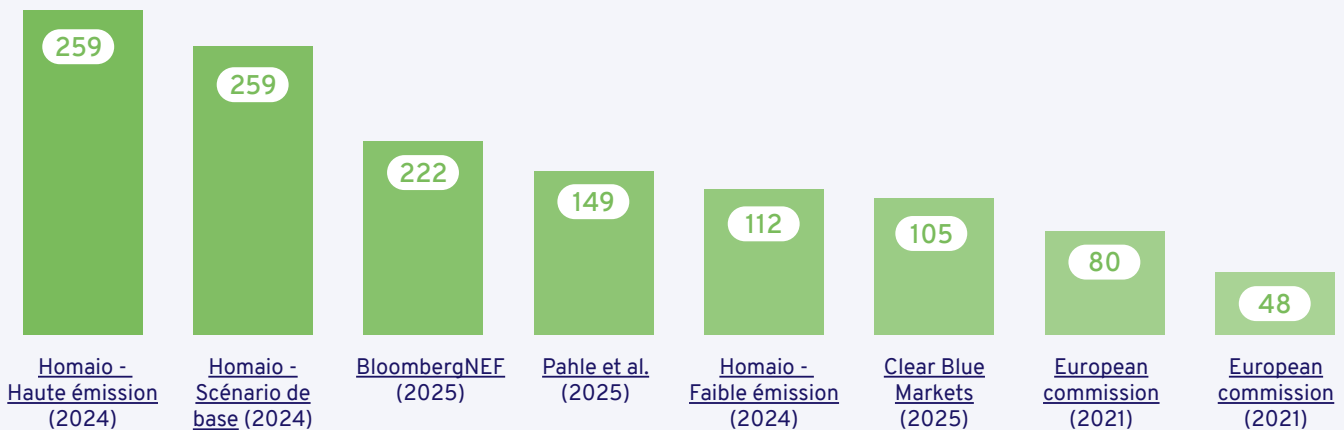
The Linear Reduction Factor (LRF) determines the rate at which the number of allowances put into circulation (cap) decreases each year. If the LRF were increased, the price would do the same, and vice versa.



This dual uncertainty (political and technical) is directly reflected in carbon price projections for 2030:

- wide price ranges
- exceed (the majority of them) the price modelled by the European Commission in its July 2021 impact assessment

Price estimates (€/tCO₂) in 2030



The futures market currently prices

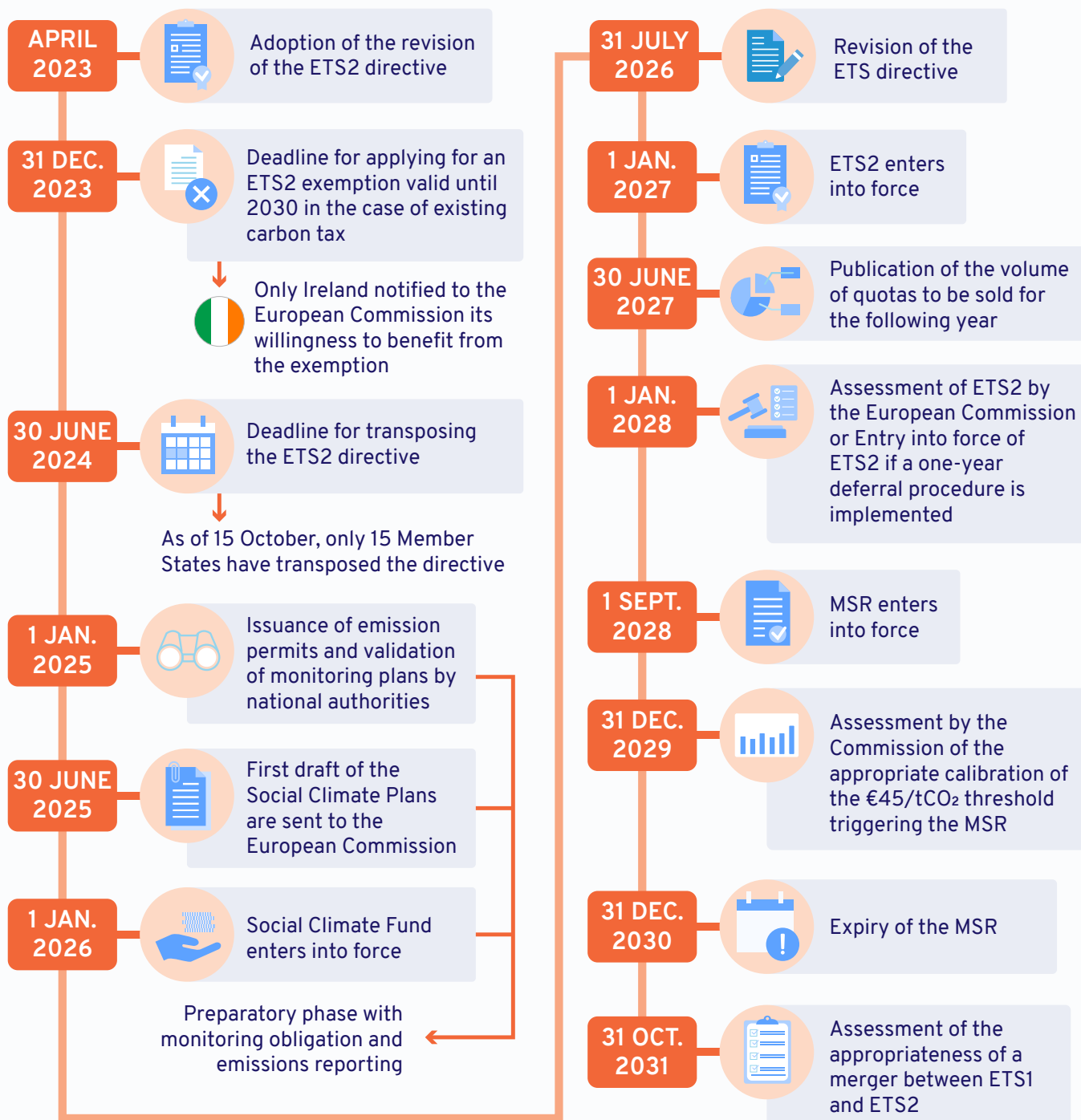
the December 2028

at a 88€/tCO₂ price



However, since its inception, trading has remained largely illiquid for the time being.

Implementation timeframe



1. Defard, C. & Nguyen, P.-V. "Towards climate neutrality: what transformations by 2030 under the FitFor55?", Infographic, Jacques Delors Institute, February 2024.

2. Fuels such as diesel and petrol.

3. Heating fuels such as fuel oil, gas and coal.

4. Non-road diesel.

5. Industrial fuels and combustibles.

6. These are: Sweden, Finland, France, Ireland, Germany, Austria, Denmark, Luxembourg, and Slovenia.

https://assets.bbhub.io/promo/sites/16/EU_ETIS_IL_Pricing_Scenarios_Balancing_Cuts_and_Costs.pdf

7. https://www.ccmptes.fr/sites/default/files/2024-09/20240906-S2024-0646-Place-fiscalite-energie-dans-politique-energetique-et-climatique-francaise_0.pdf

8. <https://www.rexcode.fr/competitivite-croissance/reperes-de-politique-economique/ets-2-nouvel-outil-europeen-pour-la-decarbonation-aux-contours-flous>

9. Eisl, A. Nguyen, P.-V. "How to make the ETS2 socially acceptable? Lessons from national CO₂ price systems for well-designed carbon revenues redistribution and investments", Paper, Jacques Delors Institute, November 2025.

10. [https://www.europarl.europa.eu/RegData/etudes/BRIE/2024/766227/EPRS_BRI\(2024\)766227_EN.pdf](https://www.europarl.europa.eu/RegData/etudes/BRIE/2024/766227/EPRS_BRI(2024)766227_EN.pdf)

11. Jüngling, E., G. Sgaravatti, S. Tagliapietra and G. Zachmann (2025) "Making the best of the new EU Social Climate Fund", Policy Brief 14/2025, Bruegel

12. Nguyen, P.-V. "European Green Deal: continuation or end?", Brief, Jacques Delors Institute, June 2024.