

Measuring the 'float' – from theory to application

EU ETS workshop, 8 December 2025



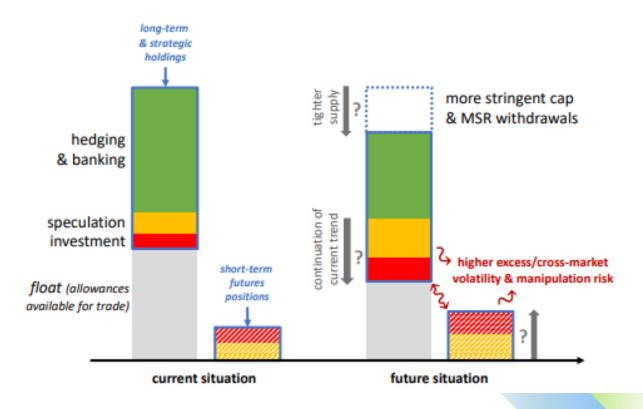
Motivation

- A cap-and-trade system involves a decreasing supply of allowances over time
- In efficient markets, ETS participants can be expected to hoard EUAs to make a future profit
- Futures markets allow participants to lock in a price before allowances even made it to the market
- Price and volatility monitoring requires development of forwardlooking indicators for ETS market integrity

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Reminder: What is the 'float'?



- A smaller 'float' implies
 - Increased risks of market 'squeeze'
 - Price signals becoming less reliable
 - Excess volatility and price distortions

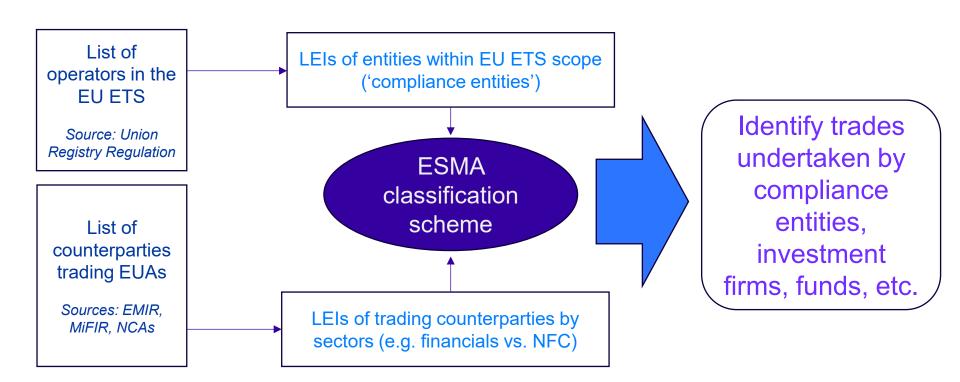


Decomposing the 'float'

- The 'float' is a residual value based on the TNAC
- Calculating this residual requires understanding
 - Current and future commitments of ETS participants
 - The impact of trading strategies of non-ETS participants on EUA supply and demand
- Concretely, this involves
 - i. A classification system for participants
 - ii. Identifying trading strategies
 - iii. Developing accurate volume-based measures
- All three aspects present major challenges

Challenge #1: Classification

 Issue #1 – Identification of counterparties in regulatory financial data



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Challenge #1: Classification

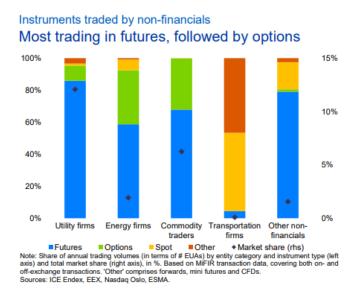
Entities report transactions using the same LEI

➤ Issue #2 – Group trading: some ETS participants trade for hedging and for speculative purposes

➤ Issue #3 – Financial subsidiaries: some financial participants trade on behalf of clients (ETS participants) and on their own account

Challenge #2: Trading strategies

 Issue #1 – Market segment: some trading strategies rely on both spot and derivatives markets



ETS participants mainly rely on futures contracts (except transportation firms), but some combine this with trading in spot contracts

 Issue #2 – Market making: No easy way to identify financials' market-making activities

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Challenge #3: Volume-based measures

- Issue #1 Future commitments: Futures can be rolled over, options are not always exercised → derivatives are not a perfect measure of future commitments
- Issue #2 Data gaps: No information available on spot
 OTC trading in regulatory financial data
- Issue #3 Algos: Algorithmic trading increases trading volumes but the effects on EUA availability are unclear

In a nutshell

 Estimating the 'float' is a complex exercise which will require the development of accurate volumes-based measures

 The vast majority of EUA trading takes place in futures markets. These are key to understanding future commitments



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