





#### MARKET OVERSIGHT AND REGISTRY SYSTEM

#### **Michael Mehling**

Deputy Director, CEEPR at Massachusetts Institute of Technology (MIT)







## **Background Reading**



#### **ICAP/PMR Handbook**

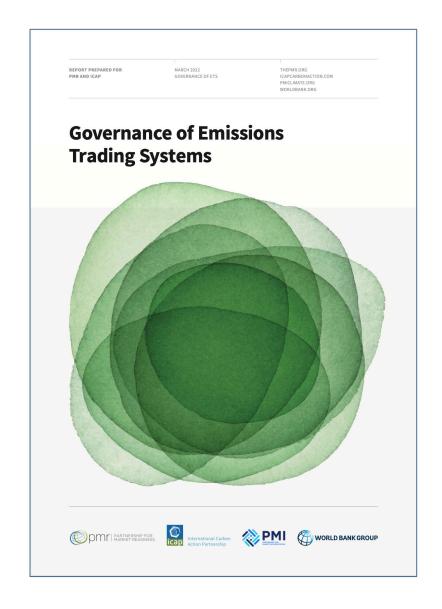
Governance of Emissions Trading Systems (2023)

Chapter 5.3: "Overseeing the market for emission units" (pp. 51-56)



#### Available at:

https://icapcarbonaction.com/system/files/do cument/governance-ofets\_paper\_march\_2022\_0.pdf



### Why do we need carbon market oversight?

- Unlike physical commodities, emission units are intangible, instantly transferable in large volumes, and subject to an artificially constrained supply
- Goal of market oversight is a market that is
  - Efficient, transparent and fair
  - Sufficiently liquid and accessible
  - Yielding a carbon price that reflects the fundamental drivers of supply and demand (price discovery)
  - Protected against fraud and market abuse

#### **Dimensions of carbon market oversight**

- Involves design choices on
  - Who can participate in the market
  - Who is responsible for overseeing the market
  - What exactly can be traded on the market
  - Where transactions may take place; and
- Other rules that affect the market's safety, volatility, and vulnerability to fraud

# Oversight of the primary market (auctions)

Risk	Solutions
Successful bidders defaulting on their bid	Rules on access to auctions, rules on collateral/deposit, exchange clearing
Collusion among bidders	Auction reserve price Market monitoring and reporting
Information asymmetries	Information disclosure to stakeholders/public
Abuse of market power – price manipulation, cornering or squeezing of the market	Monitoring of the market, disclosure rules Position limits Licensing requirements, access rules
Insider trading, money laundering, fraud	KYC-checks, technological safeguards in the registry Market and transaction monitoring Financial criminal law

# Oversight of the secondary market

Risk	Solutions
Buyers or sellers defaulting on a transaction	Rules on access to trading platforms, clearing and settlement systems to lower counterparty risk
Information asymmetries	Information disclosure to stakeholders/public
Abuse of market power – price manipulation, cornering or squeezing of the market	Monitoring of the market, disclosure rules Holding and position limits Licensing requirements, access rules
Insider trading, money laundering, securities fraud, cybercrime	Mandatory use of trading platforms and increased licensing/transparency requirements for risky activities  KYC-checks and technological safeguards in the registry, waiting periods before unit transfers  Market and transaction monitoring, rapid intervention Financial criminal law

### **Market Oversight in the EU ETS (Part 1)**

- When first established, the EU ETS created a new market
  - Trading occurred at exchanges alongside established commodities
  - Futures contracts and other derivatives emerged to cater to demand by market participants for hedging and speculative purposes
  - **Derivatives** were treated like other **financial instruments**, but **allowances** initially were **not**
  - Market intermediaries such as exchanges, brokers and clearing houses were also regulated under financial market rules, but compliance entities and many other market participants were not
- Multiple challenges emerged: insider trading, money laundering, tax fraud, cybertheft and phishing, offset credit recycling
- Market oversight needed to keep pace with the ETS allowance market, hence financial market rules were extended to allowances (see next slide)

### **Market Oversight in the EU ETS (Part 2)**

- Markets in Financial Instruments Directive and Regulation (MiFID/MiFIR)
  - Defines "investment activities" and "financial instruments" (resulting in licensing requirements)
  - Defines exemptions with regard to compliance companies
  - Enhances market transparency and integrity rules for market players and platforms
  - Reduces the scope of OTC trading activities
- Market Abuse Directive and Regulation (MAD/MAR)
  - Specific legal framework on insider dealing and market manipulation
  - Rules apply to auctions and secondary market trading → transaction analysis
  - Market abuse can be punished with multi-year prison sentences (CSMAD)

### **Market Oversight in the EU ETS (Part 3)**

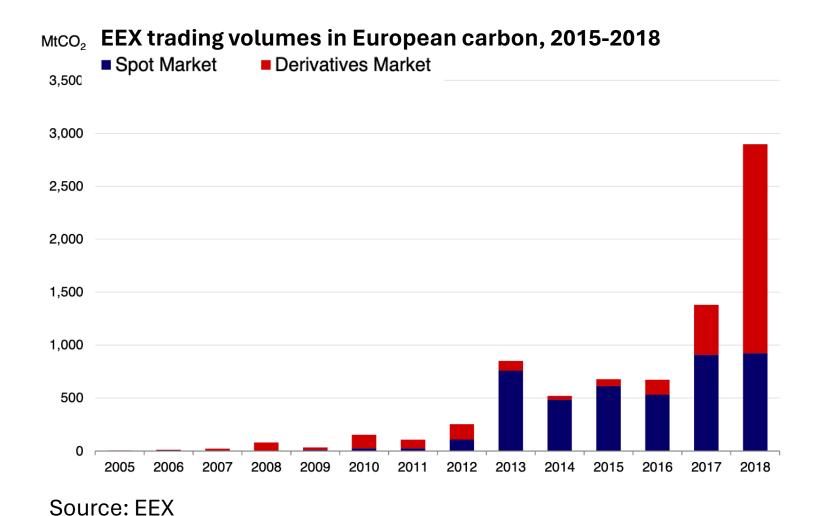
#### Anti-money Laundering Directive

- Due diligence and reporting requirements to combat money laundering and terrorist financing
- Applies to all financial transactions, i.e. also to emission allowances payment transactions

#### Auctioning Regulation

- Specific legal framework for all auctions in the EU ETS
- Prohibition of insider dealing and market manipulation to make sure the protection applies to all auction platforms; same with money laundering provisions

### Tighter regulation – a threat to carbon markets?



#### **Lessons learnt with market oversight**

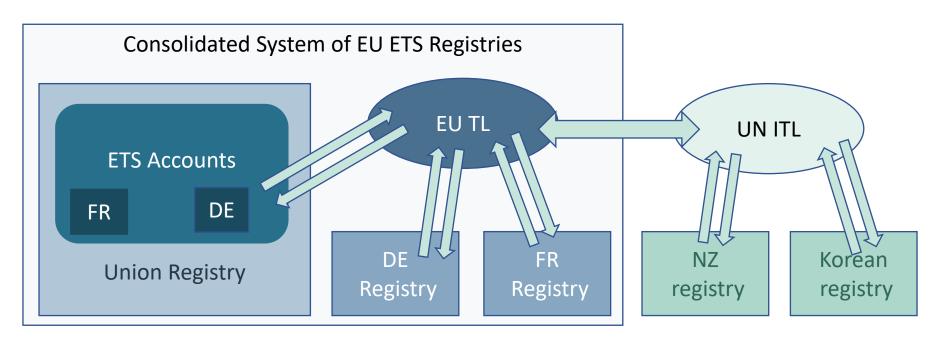
- Carbon markets are financial markets, but designed by environmental regulators. They require financial market expertise, and are usually subject to existing financial market regulation
- Broad access to the carbon market is helpful for liquidity and can limit market power
- Service providers are useful: they allow compliance companies to pursue the trading strategy that best meets their needs
- Regulation is not necessarily bad for the market it creates clarity
- Information disclosure and transparency are key and that also applies to the regulator

#### What is a registry, and why is it needed?

- In an ETS, a registry is an **electronic database system** with specific features:
  - Contains accounts which hold emission units
  - Online access, with public and secure private section
  - Defines different user roles
  - Allows conducting transactions
- ETS Registries ensure proper accounting of emission units and market activities
  - tracking of allowances from issuance to deletion
  - proof of property and compliance

### **Example: EU ETS registry system (1)**

- The EU registry system is a web-based database that records emission unit issuance, holding and transfers, verified emissions, and compliance
- Every EU Member State maintains a national EU ETS registry, and the EU maintains a single consolidated Union Registry and EU Transaction Log

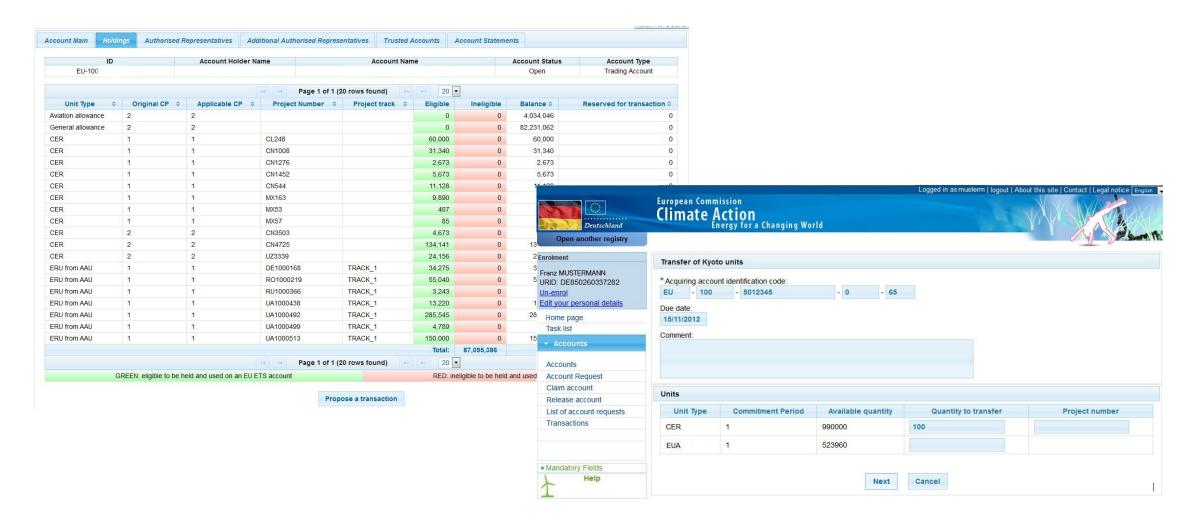


Source: Bart, 2020

### **Example: EU ETS registry system (2)**

- EU ETS registry system contains over 15,000 accounts:
  - operator and aircraft operator holding accounts
  - person holding accounts
  - trading accounts
  - Management accounts
- The EU ETS registry system:
  - enables trading (directly and through trading platforms)
  - is a definitive evidence of unit holdings (safe commerce)
  - controls unit issuance and compliance (enforcement and oversight)
  - Prevents double counting (environmental integrity)
  - Provides information to the public

## **Example: EU ETS registry system (3)**



### **Example: EU ETS registry system (4)**

- Fraud prevention and security measures in the EU:
  - Regulatory requirements & terms of use of the registry
  - Know-your-Customer (KYC) checks at account opening and in periodic intervals
  - Secure Socket Layer (SSL), two-factor-authentication,
     SMS confirmation & additional authorized representative (AAR)
  - Trusted account list and transaction delay of 26 hours
  - Transaction monitoring for suspicious patterns
  - Working Froup on Fraud Prevention of the UNFCCC Secretariat, Agency for the Cooperation of Energy Regulators (ACER)
  - Intensive cooperation with national and international investigation bodies (police, INTERPOL, prosecutors)







## THANK YOU!

