









The EUTL

- Records all transactions of EUAs, CERs, ERUs including allocation, surrendering.
- Published with a 5 year delay (now: Jan 05 Dec 09): Since permits can be surrenderd until April of the following year, this means Phase 1 is up to April 2008.
- Only physical transactions (no price information)
- Additional information on account holders (two different types)
- Data on installation basis, matching to companies manually on the basis of account holder names, email addresses, web research, etc.

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Two types of Market Players

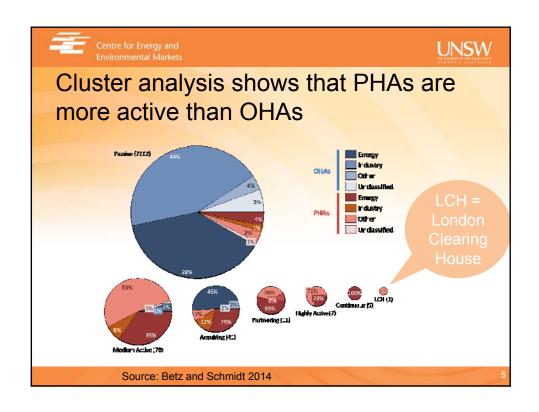
- Regulated players
 - Phase 1: 12,844Operation Holding Accounts (OHAs)
 - Free allocation
 - Compliance incentive
 - Information about own emissions and abatement costs

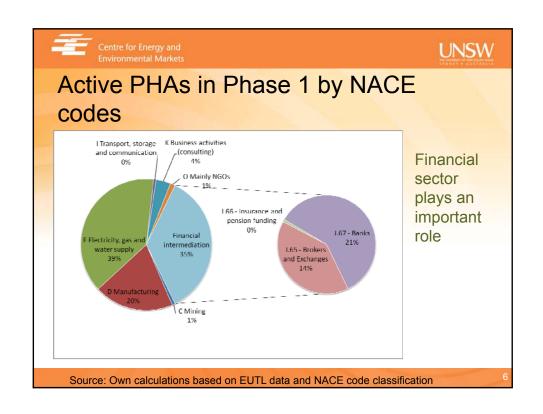
- Non-regulated players
 - Around 5,000 PHAs
 - Phase 1: 650 active
 Person holding
 accounts (PHAs)
 - Have to buy permits first in order to take part in market

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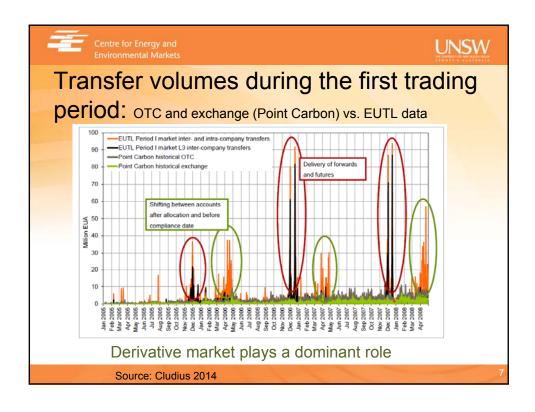


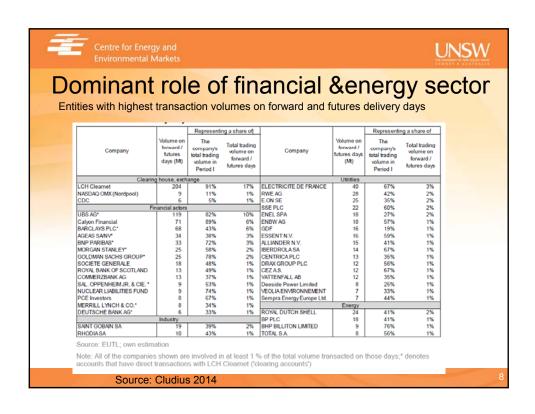








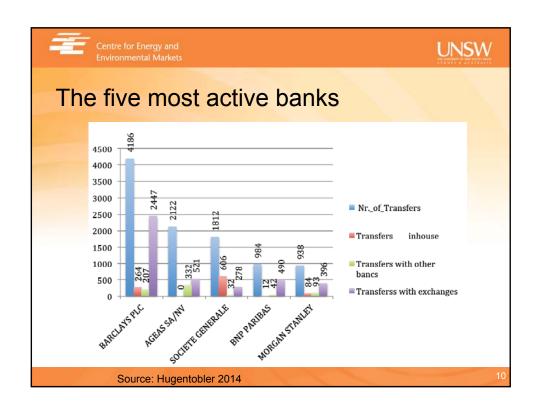






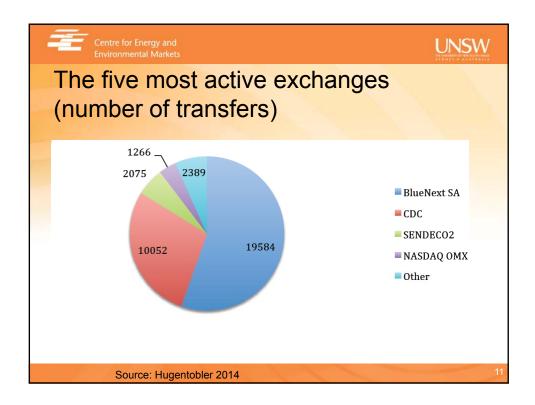


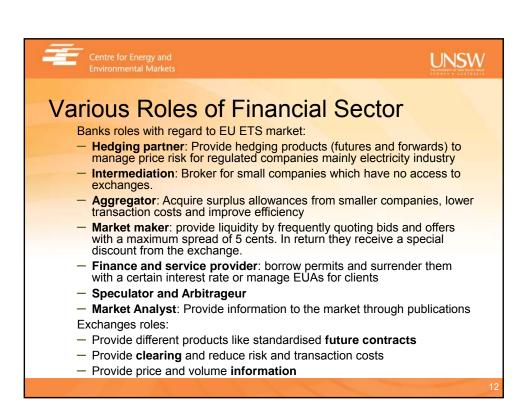


















UNSW

Today Phase 3

Change in EU ETS Design

50% free allocation and 50% auctioning

Financial Sector changes

- Main spot exchanges like BlueNext close down end of 2012
- EEX becomes major spot exchange and provides main auction platform
- ICE ECX is the most active future exchange
- Many banks closed down commodity trading desks due to new regulations for commodity trading which have been introduced after the financial crises
- New trading companies are formed
- Those overtake "bank roles" as they do not fall under financial regulations
- Banks may pursue cost of carry arbitrage, e.g. buy spot from auction/industry, hold EUA and sell futures to electricity providers

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Summary and policy conclusions

- Financial sectors reduces transaction costs by providing exchanges
- High number of exchanges at the beginning lead to competition which did increase liquidity through market makers and ended with only 2 main exchanges (EEX and ICE)
- Banks reduced number of expired EUAs by actively aggregating EUAs from small companies
- Banks were hedging countreparties for electricity industry, but they close down their trading desks
- Service and trading companies are taking over the role of banks since they do not fall under the new regulations and banks provide cheap money

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Final Thoughts

How would an ETS without financial sector/ nonregulated company involvement look like?

- Less liquidity on spot and derivative markets (less market makers and hedging partners)
- Higher transaction costs (less competition of exchanges)
- Lower participation in trading (no aggregators)

Would this market be less volatile?

 Most likely not since energy sector, which is regulated, played similar roles e.g. market maker, aggregator, speculator

What may be the consequences if banks drop out and others are taking over their roles?

...this needs research and will be the trip into the future

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