

Gordon Bennett

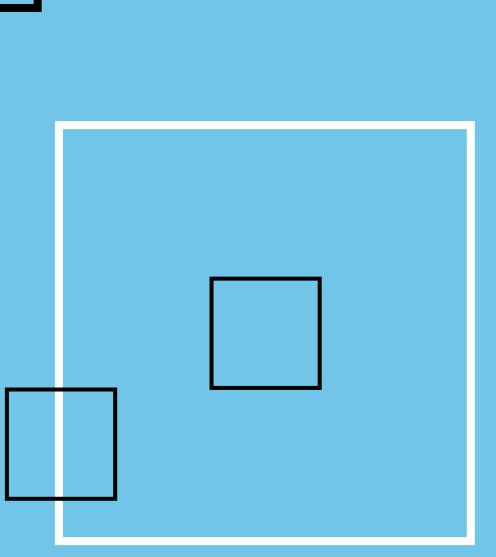
Managing Director, Utility Markets

CFTC's Energy and Environmental Markets Advisory Committee

June 3, 2021

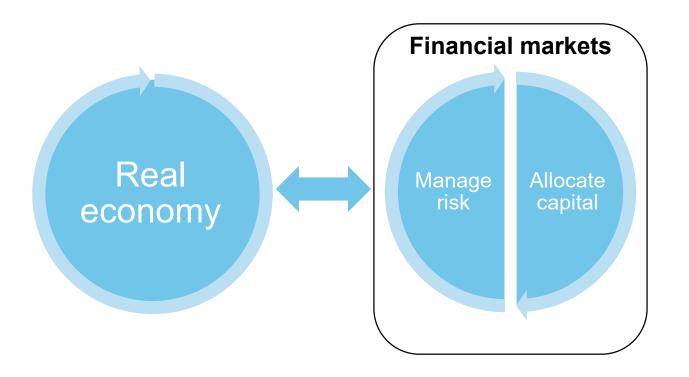


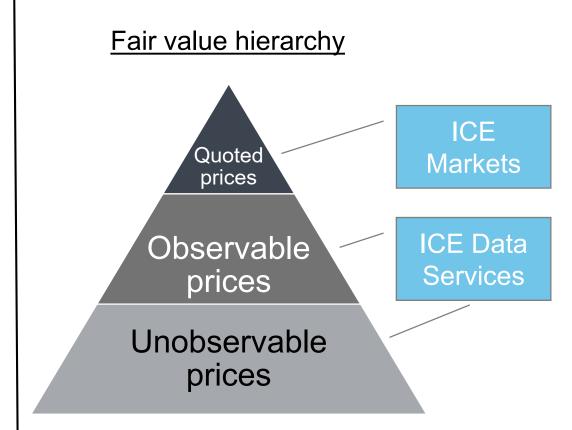
Macro themes



Macro theme - what is finance?

Purpose of financial markets





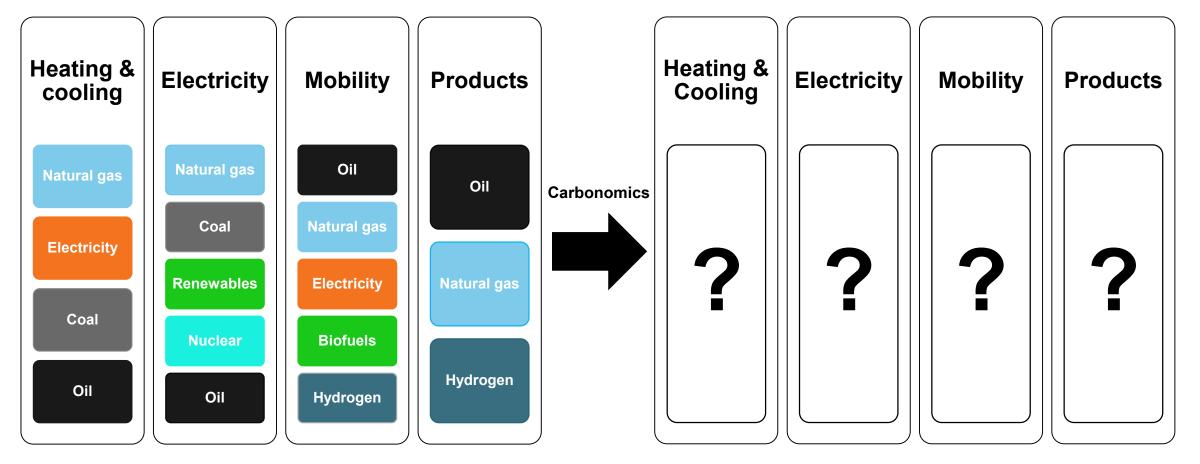


Macro theme - what is the energy transition?

Changing the merit order to meet the goals of the Paris Agreement

Current fuel merit order

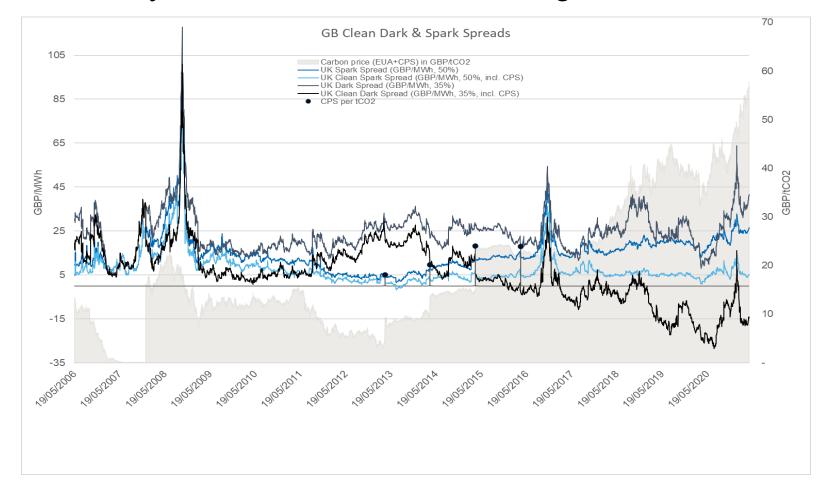
Future fuel merit order





Carbonomics: UK Case Study

When the price of carbon is taken into account, it is less profitable to produce electricity from both coal and natural gas



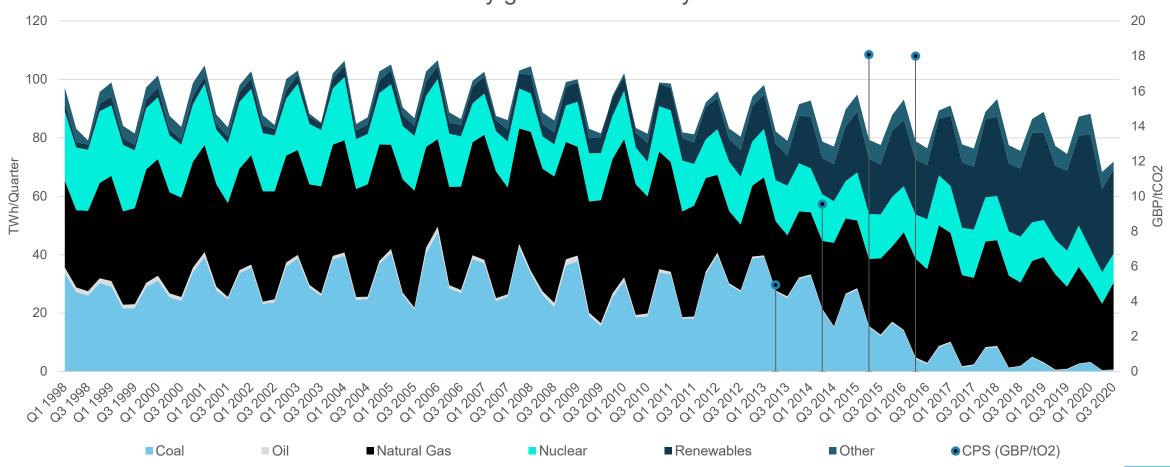
- Applying a cost of carbon can lead to a shift in the fuel merit order
 - In the first half of 2020, electricity generated from renewables exceeded fossil fuels, for the first time in the EU
 - Renewables generated 40% of the EU's electricity, fossil fuels generated 34%
 - The use of coal dropped 32%
- This will help to achieve the goals of the Paris Agreement



Carbonomics: UK Case Study Outcome

Coal is removed from merit order of electricity generation

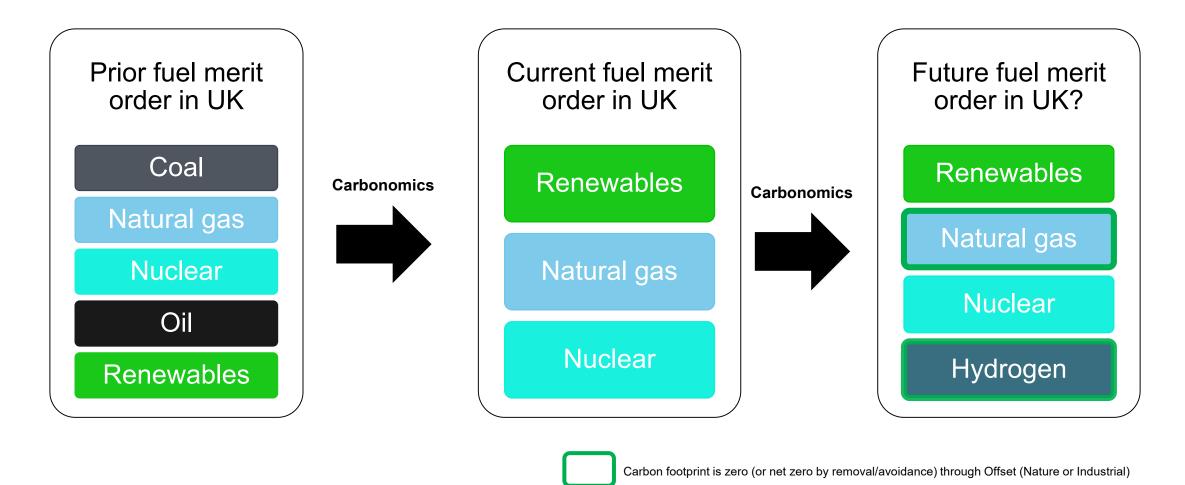
GB Electricity generation mix by fuel source





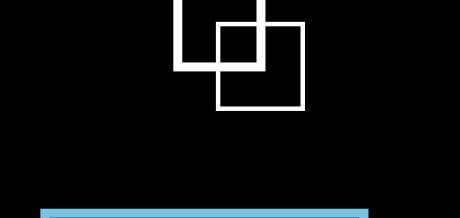
Macro theme - what is the energy transition?

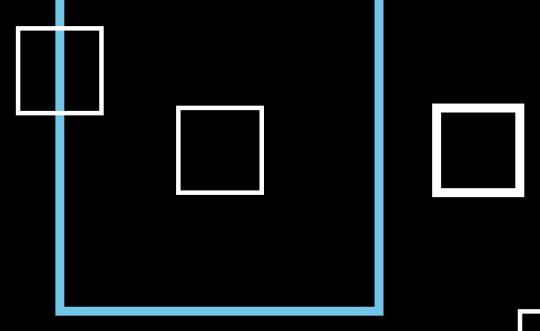
Changing the electricity merit order to meet the goals of the Paris Agreement





UKETS

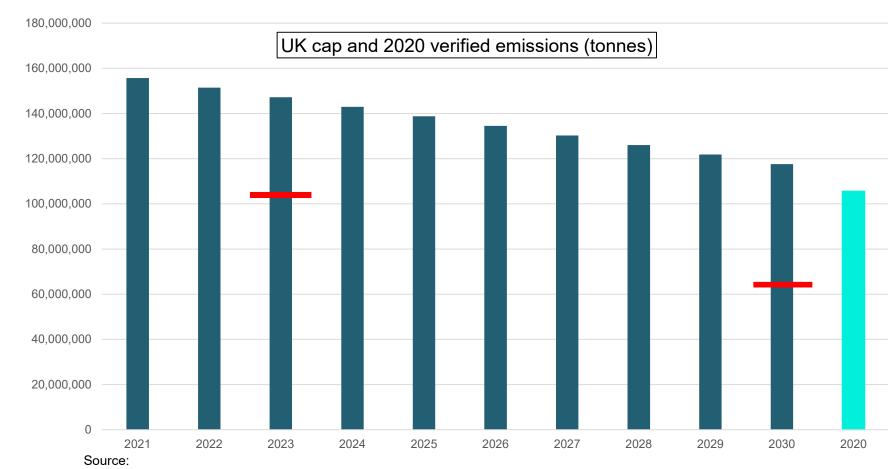




UK ETS

The Greenhouse Gas Emissions Trading Scheme Order 2020

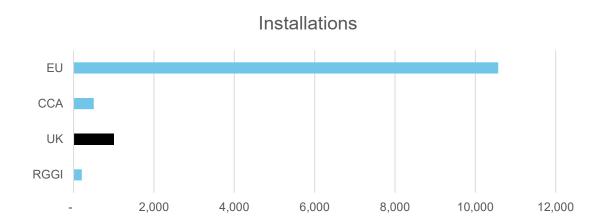
- Cap is 5% less than the applicable cap would've been under the EU ETS
- Cap is higher than the 2020 provisional emissions estimate under the ETS
- Cap is before the recent announcement to reduce emissions to 78% of 1990 levels by 2035
- Cap consultation due 3rd/4th quarter 2021

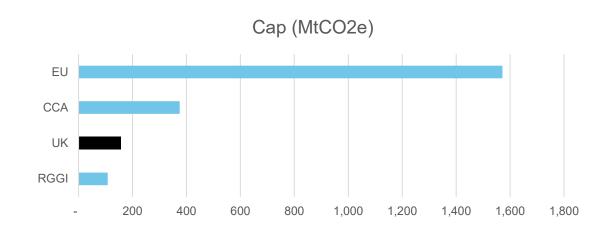


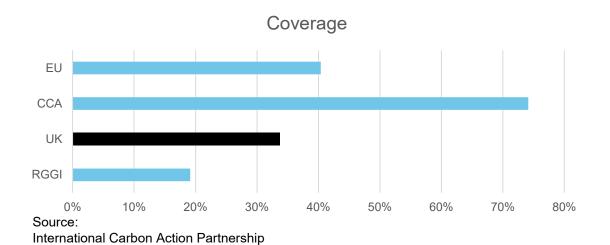
The Greenhouse Gas Emissions Trading Scheme Order 2020 EU Emissions Trading System (ETS) data viewer, European Environment Agency

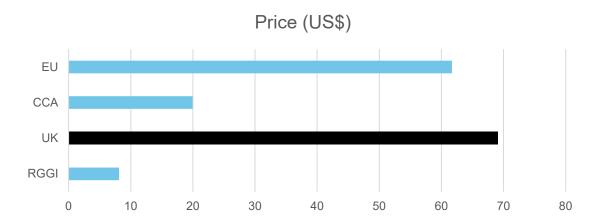


Benchmarking the UK ETS





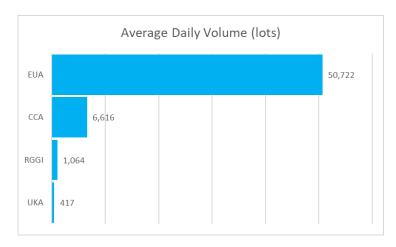


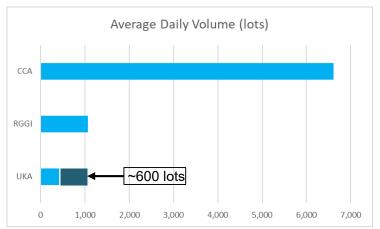


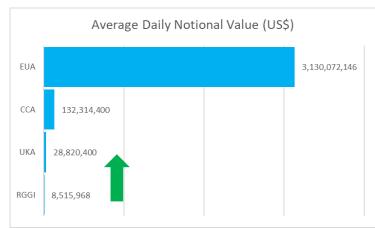


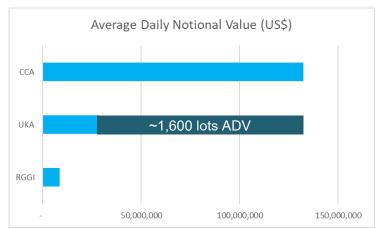
Benchmarking the UK ETS

Auction and first day of trading 19th May 2021









Auction 1 – 19th May

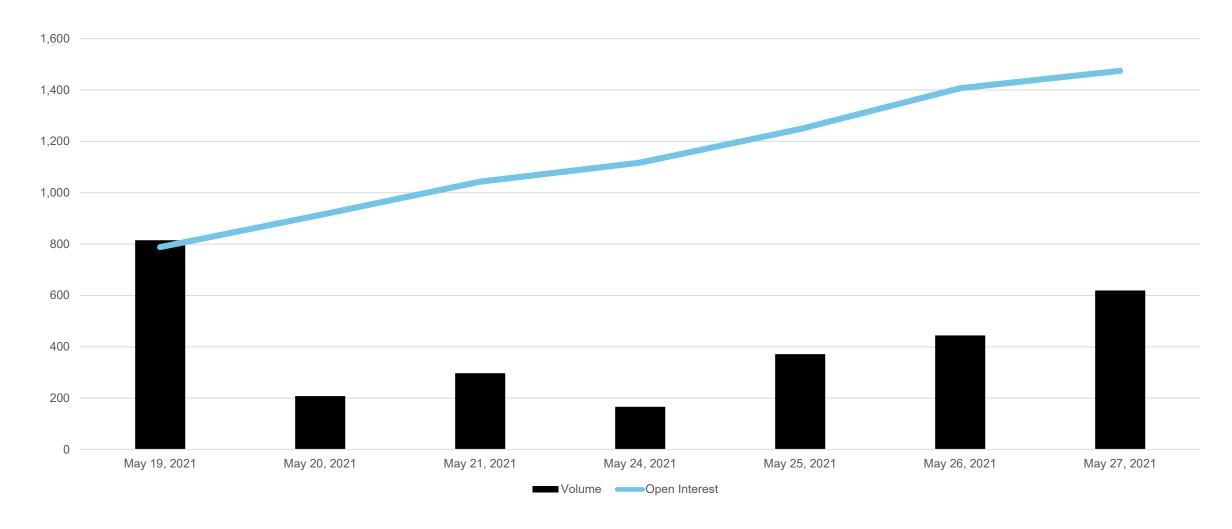
- 6 Million allowances sold at Auction at £43.99 per tonne raising over £266 Million
 - Trading at a premium to EUAs
- Over 29 Million allowances bid for giving a cover ratio of nearly 5 times
- 14 successful bidders

Auction 2 – 2 June

- 6 Million allowances sold at Auction at £44.75 per tonne raising over £271 Million
 - Trading at a premium to EUAs
- Over 22 Million allowances bid for giving a cover ratio of over 3.5 times
- 14 successful bidders



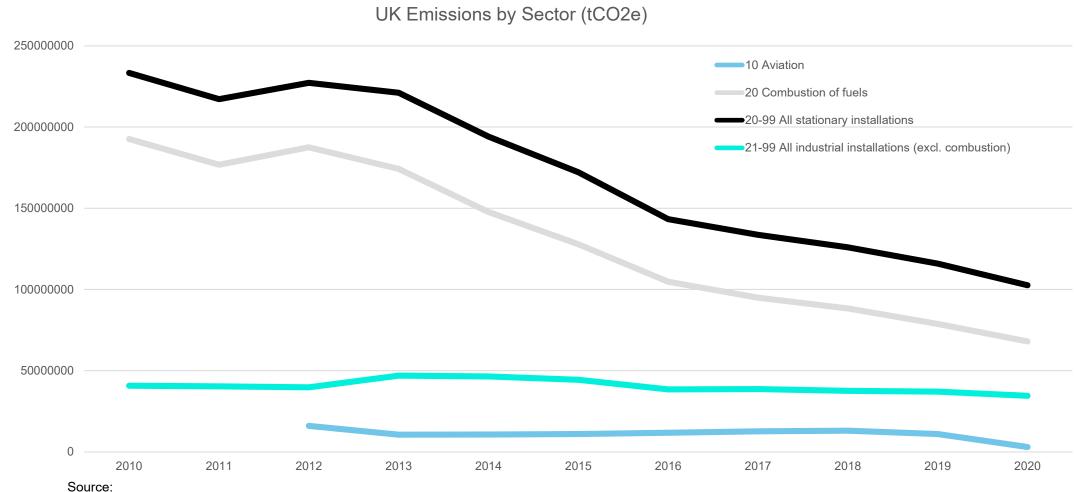
Trading activity and open interest since launch





Carbonomics

Test of policy post coal to natural gas switching in electricity generation





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