



The European Emissions Trading Scheme Where are we?

Electricity Policy Research Group at the University of Cambridge EPRG Winter Research Seminar 2006

Cambridge, 15 December 2006

Dr. Felix Chr. Matthes

The EU ETS Where do we stand?



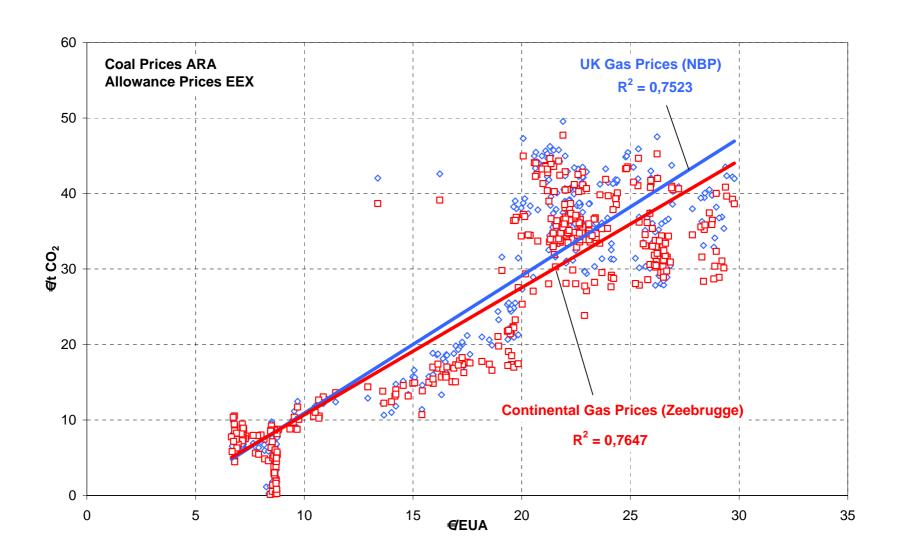
- Phase 2005-2007 is the pilot phase
- Goal of the pilot phase: Raising experiences and prepare adjustments of the scheme
- Crucial issue: Buy-in or lock-in

	2004	2005	2006	2007	2008
Legal basis					
Data management					
Allocation					
European dimension					
Registries					
Trading					
Monitoring					
Verification					
FlexMechs					
Compliance					
	Key experiences form the pilot phase				
	Main use of experiences				

www.oeko.de

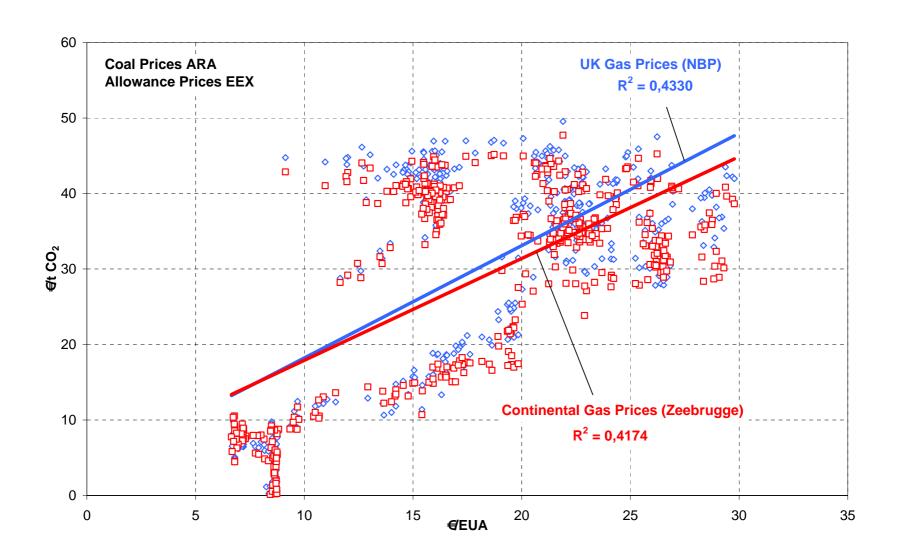
An EU scheme – a single EU price EUA price determinants by April 2006





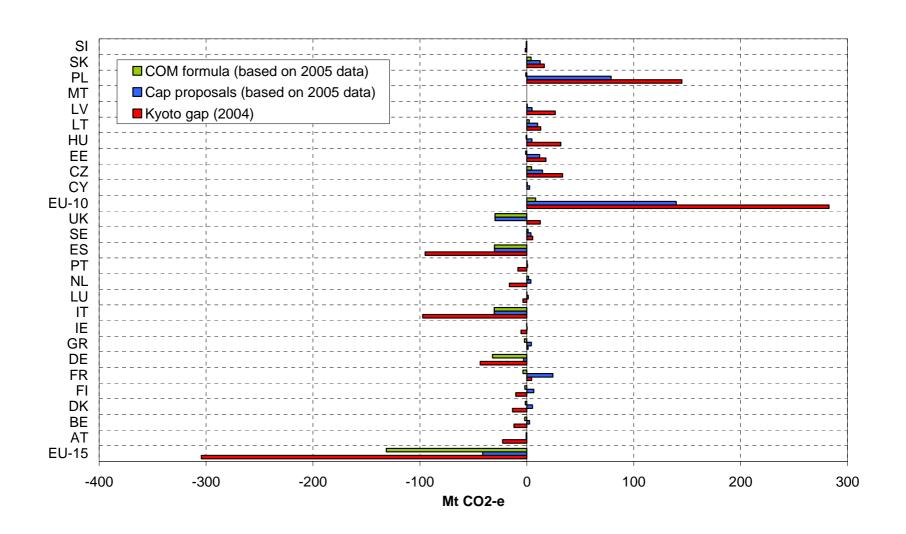
An EU scheme – a single EU price More uncertainties since May 2006





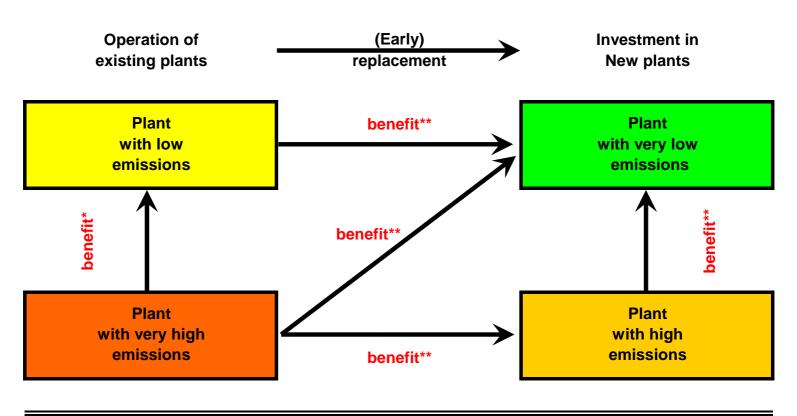
Caps for Phase 2 Closing the Kyoto gap?





The challenge of allocation Ensure incentives from the scheme



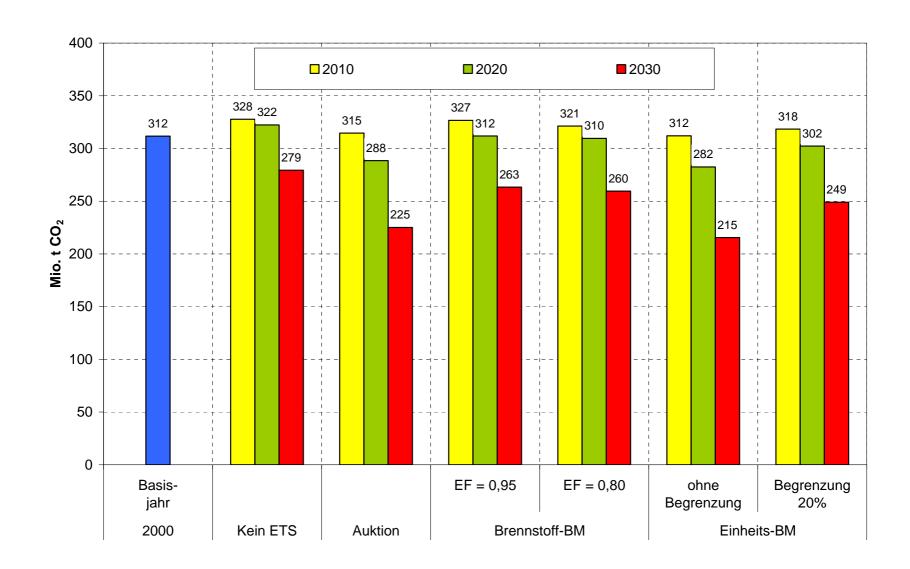


^{*} resulting from full costs of carbon

^{**} resulting from allocation

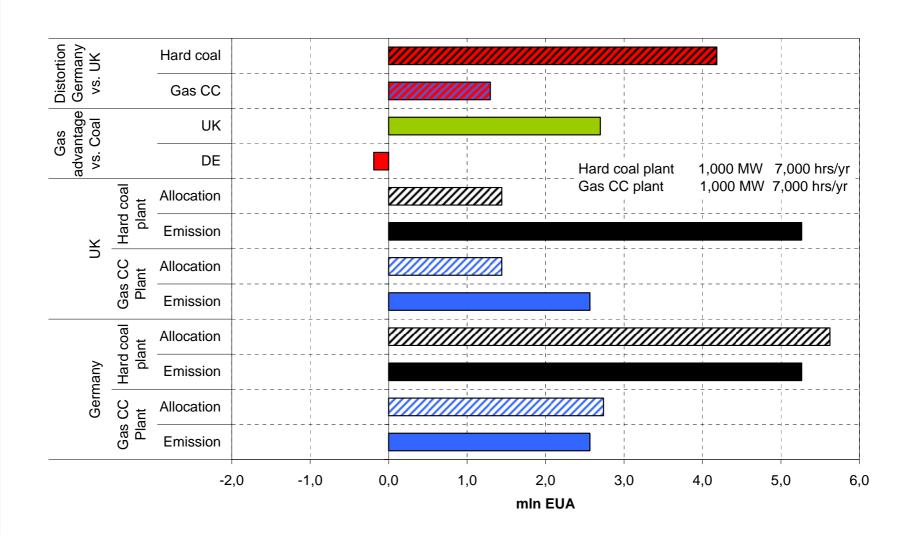
New entrant allocation Effects on long-term CO₂ levels





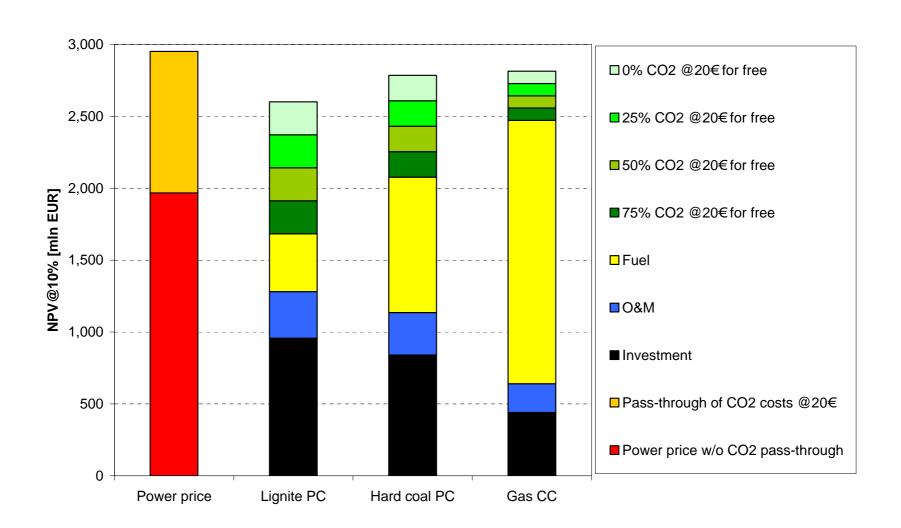
New entrant allocation Economic and competition distortions





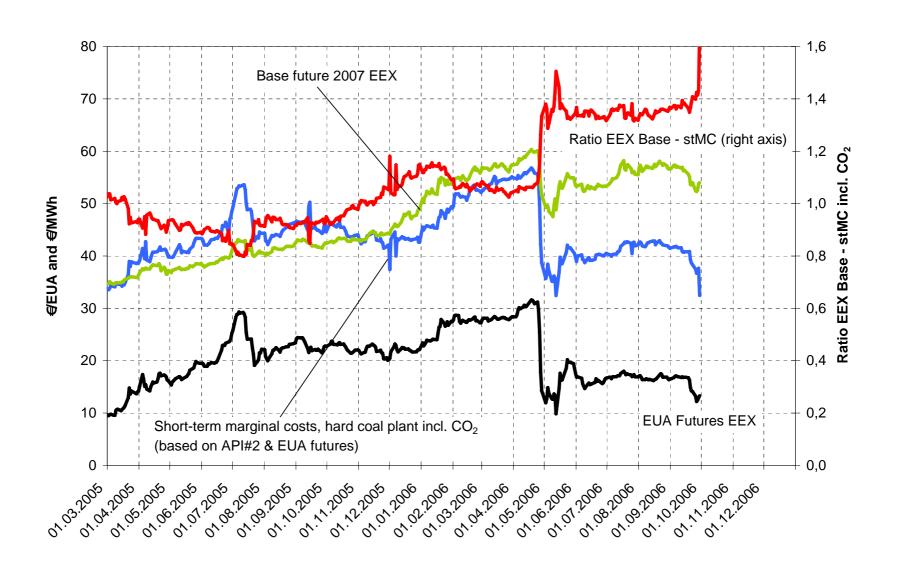
Effects from new entrant allocation and pass-through of CO₂ costs





The EU ETS (price signal) works Many questions remain





Interactions between caps, transaction costs & economic efficiency



- Modeling exercise on the EU ETS in Germany
 - cost reduction of 250...500 mln €a compared to other policies and measures
 - against the background of an 45 Mt/a CO₂ reduction
 - and an EU ETS coverage of about 500 Mt CO2/a
- Transaction costs
 - allocation fee (1st TP in Germany: 1.5 ... 15 ct/EUA)
 - monitoring & certification (1.0 ... 5 ct/t CO2)
 - trading (EEX 2.5 ct per EUA traded)
 - total of 10 ct/EUA p.a. not out of range (equals 50 mln €a for the German ETS)
- What is the economic efficiency gain of an ETS with a 2 Mt CO2 reduction target?
 - certain minimum caps are necessary on the medium and long-term to legitimate the EU-ETS by economic efficiency gains



- The EU ETS works (in the main parts of the EU and after some take off problems in many countries).
- There is a significant price signal and there are emission reductions against the BAU without any doubt. However many questions remain. More empirical data are needed.
- The cap is key for environmental effectiveness:
 - size and consistency of the cap,
 - procedures of cap setting.
- Allocation does matter:
 - no ex post adjustments is important,
 - new entrant allocation can create major distortions (most notably for fuel or process specific free allocation).
- However, significant transactional costs exist.
- There is technological innovation induced by the EU ETS.



Thank you very much

Dr. Felix Chr. Matthes
Energy & Climate Division
Berlin Office
Novalisstrasse 10
D-10115 Berlin
f.matthes@oeko.de
www.oeko.de