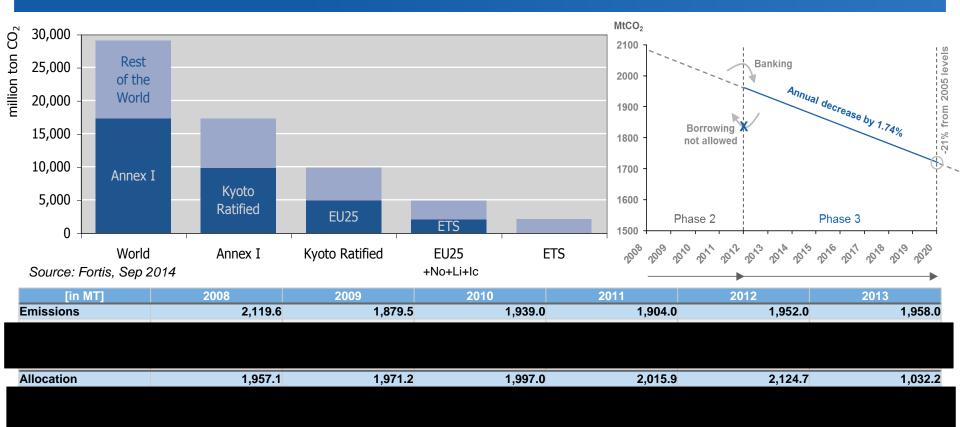


EU Emissions Trading SystemLatest developments

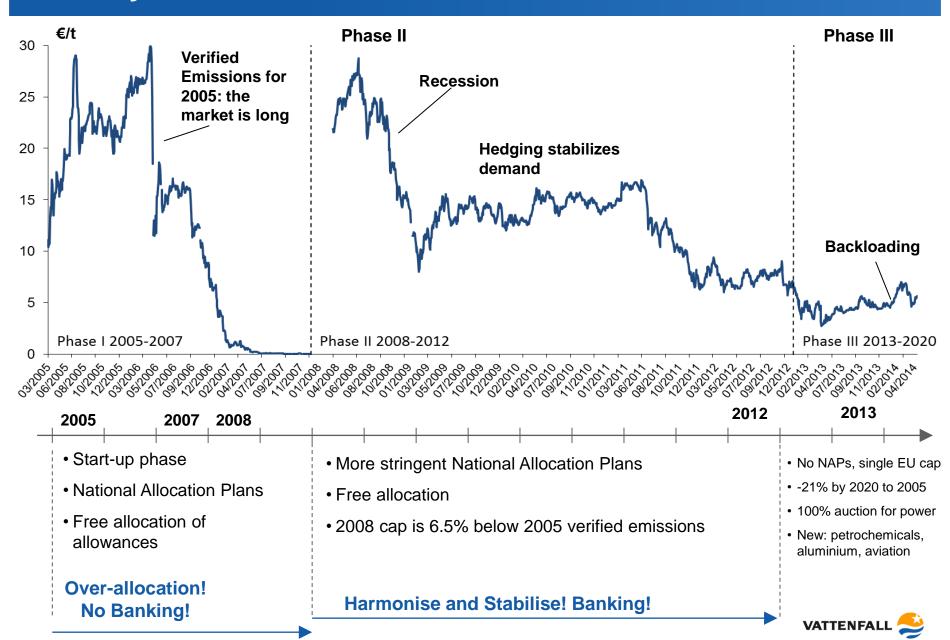
Andreas Schröder, Analyst Vattenfall Energy Trading GmbH Asset Optimisation & Trading

Scope

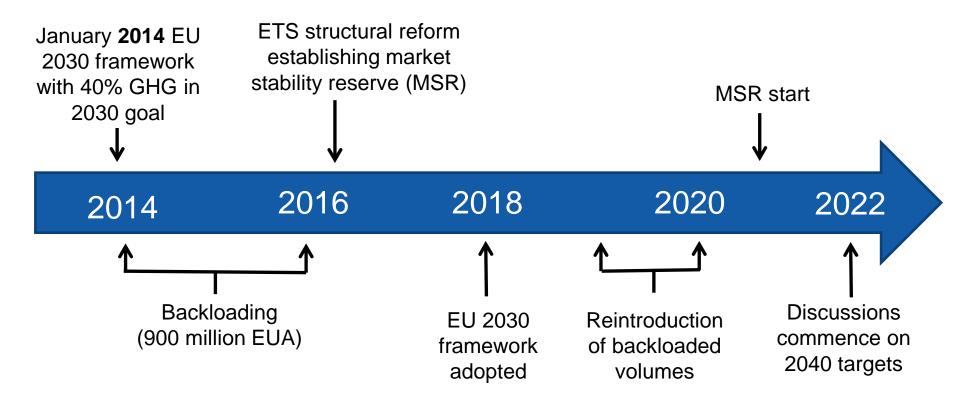




History

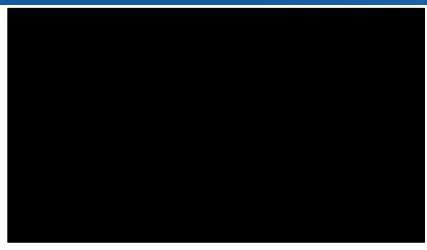


Timeline future



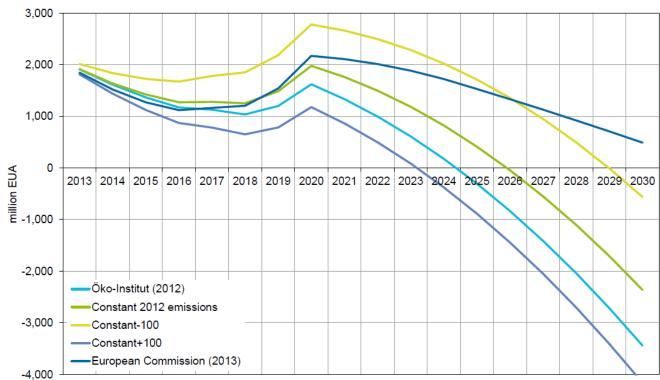


Surplus



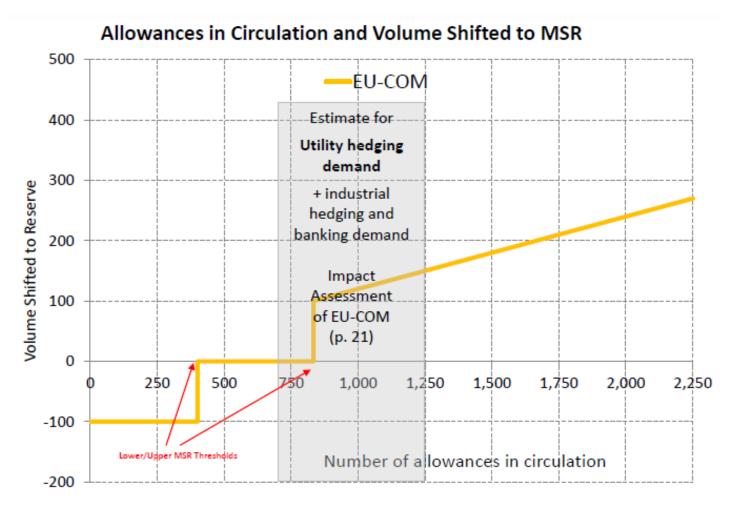
Historic surplus development Source: ICIS/Tschach 2014

> Surplus forecast Source: Öko-Institut June 2014





Market Stability Reserve (MSR)



Source: ICIS/Tschach April 2014



2030 Targets

- Leaked EU Council draft (1 Sep 2014): Triple Target 40/30/30 for 2030
 EU Commission Impact Assessment (June 2014): Triple Target 11 €/t
 vs. 40 €/t Single Target
- EU Council Meeting 23-24 Oct + Env ministers 28 Oct

EU-Commission Impact Assessment (June 2014)	CURRENT POLICY 37.5% emissions cut (EU ETS only)	SINGLE TARGET 40% emissions cut	TRIPLE TARGET 40% emissions 30% renewables 30% energy efficiency	
CO ₂ reduct. 2030 vs 1990 (%)	32	40 Little e		
Renewabls share 2030 (%)	24	27 but hig	30	
Energy savings 2030 relative to 2007 baseline (%)	21	25	30	
Energy efficiency cost [€/toe]	181	184	693	
Renewables cost [€/MWh]	34	34	134	
CO ₂ -price [€/t]	35	40	11	

Source: EU Commission Impact Assessment (June 2014)



Exchange

Auctions/allocation:

EUA, EUAA

EUAs

Secondary market:

EUA futures (most liquid Dec-14, Dec-15, ...)
CER (Kyoto Clean Developm^t Mechanism)
ERU (Kyoto Joint Implementation)
Derivatives (Options on EUA+CER; EUA-CER
Swap, etc.)
EUAA futures

	EUAS European Union Allowances	CERS Certified Emission Reductions	ERUS Emission Reduction Units	EUAAS European Union Avia Allowances
Futures	16,433	146	10	

 Futures
 16,433
 146
 10

 Daily Futures
 246
 1

 Options
 862
 0
 0

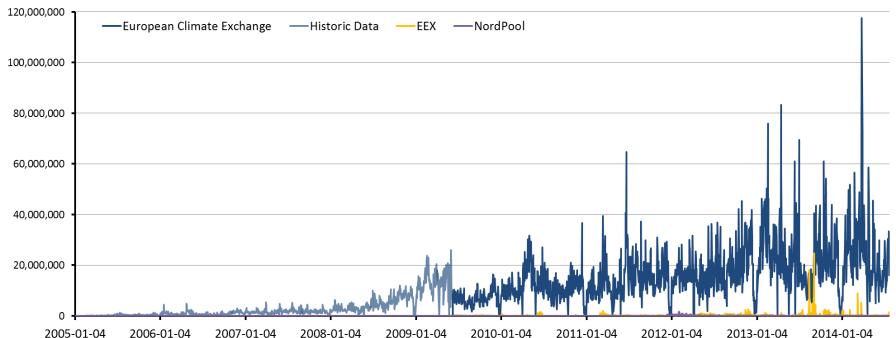
 UK Auctions
 1,215 (Auction Lot Size of 500 (Auction Lo

Source: ICE, Sep 2014

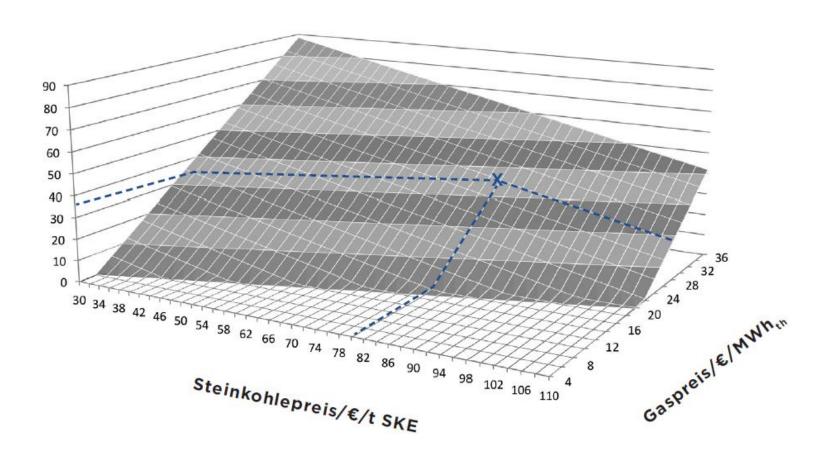


*Volume in Lots. 1 Lot = 1,000 tonnes CO2

tonnes C02)



Source: ICE, EEX, NordPool, 2014



Source: Schäuble, Jacobs, Töpfer (2014)

