MSR THROUGH 2030: IMPACT ON MARKET LIQUIDITY AND CONSIDERATIONS FOR THE 2026 REFORM

PART I: MODELLING APPROACHES AND MSR PROJECTIONS







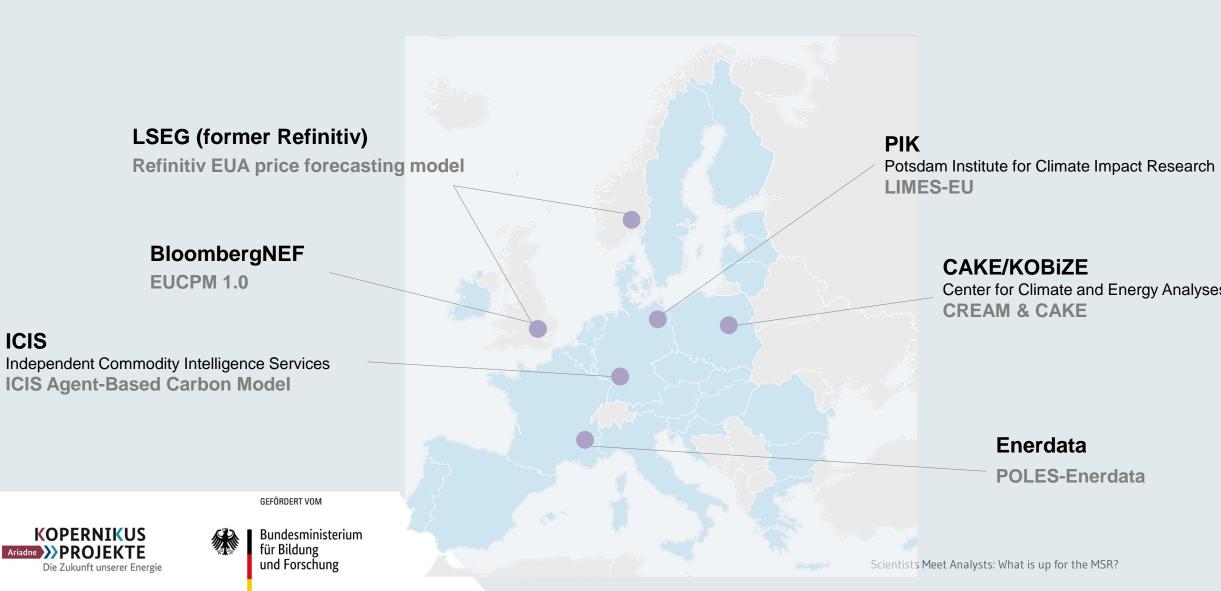
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SIX DIFFERENT ORGANIZATIONS & MODELS

ICIS



MODELLING APPROACHES

EU ETS simulation

- > EU ETS module
 Supply / Demand of certificates
- > Simulation of MSR

Representation of sectors

	Detailed representation	MAC curves	Emission projections
Power sector			
Heating			
Industry			
Aviation, Maritime			
Other			



Foresight

- > Perfect foresight (benchmark approach)
- > Limited foresight of actors (1-10 years)

Market imperfections



- > Limited foresight
- > Non-compliance actors
- > Hedging

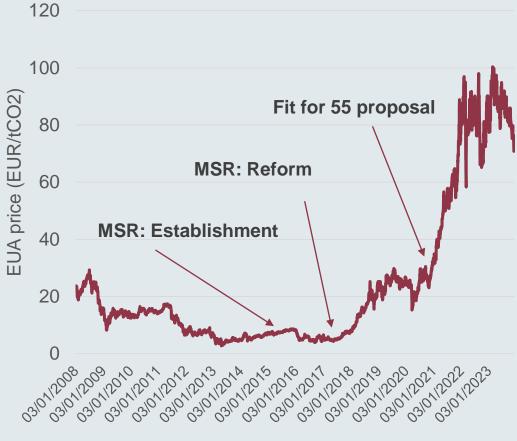
Bundesministerium

für Bildung

und Forschung

> Uncertainty about policies

EUA PRICES AND MSR HISTORIC OPERATION



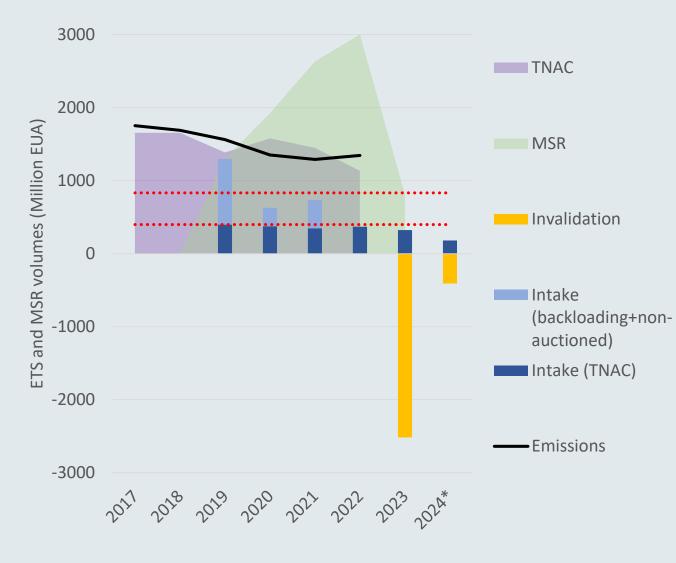
Source: ICIS Carbon EU market data

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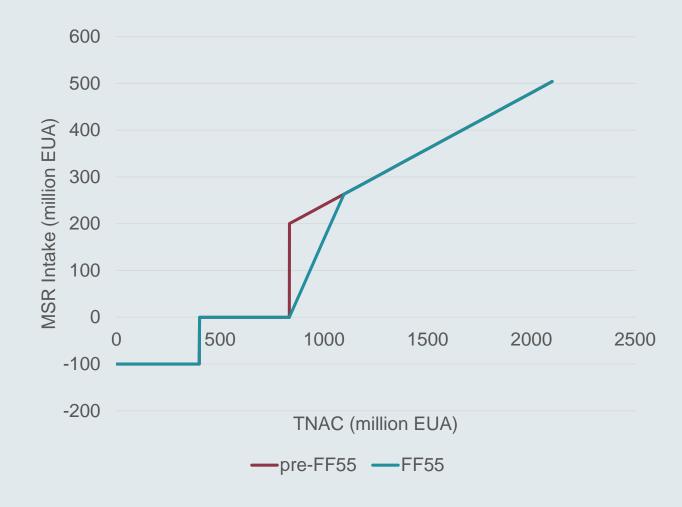






MSR FUNCTIONING

Target by 2030 (vs. 2005)	-62%	
Linear Reduction Factor (LRF)	■ 2020-2023: 2.2%	
	■ 2024-2027: 4.3 %	
	• As of 2028: 4.4 %	
	Rebasing 2024 (90 Mio.) &	
	2026 (27 Mio.)	
EUA intake	TNAC > 1096 Mio:	
	 24% of TNAC until 2030 	
	■ 12% of TNAC from 2031	
	1096 > TNAC > 833 Mio:	
	■ TNAC – 833 Mio	
EUA outtake	TNAC < 400 Mio: 200 Mio until 2023, 100 Mio from 2024 on	
Invalidation mechanism	2023: MSR level – Auctions previous year Since 2024: MSR level – 400 Mio.	

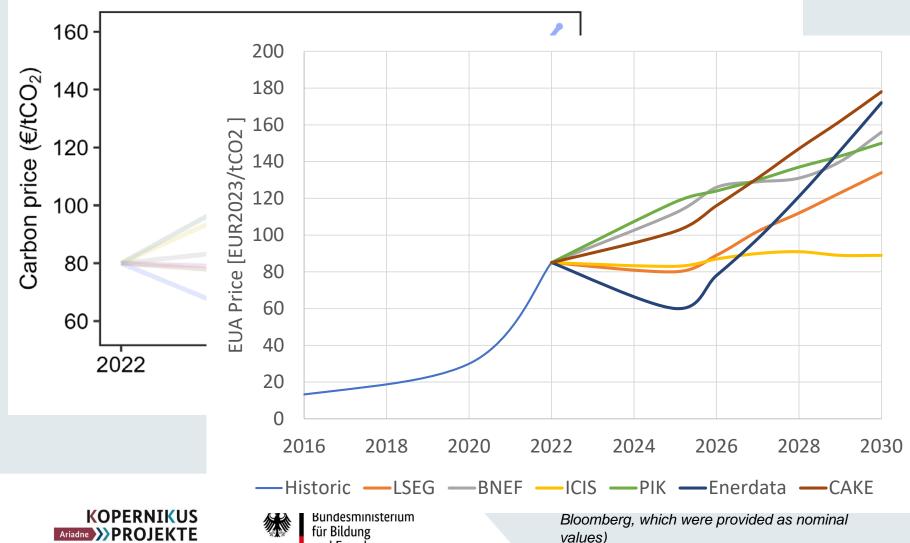








BACK IN 2022...

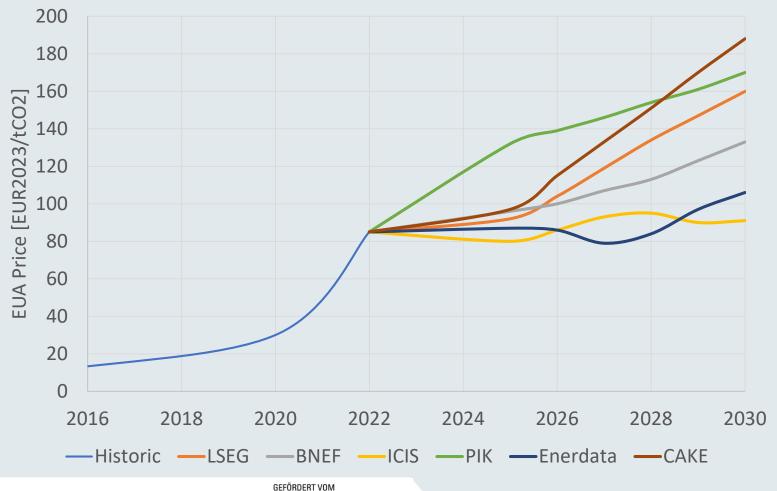


Remarkable convergence between the different modelling approaches in the modelled price path towards the end of the 2020s

-> Fewer choices in the medium to long term than there are in the short-medium term.

values)

PRICE PATHS (FIT FOR 55 TARGET, DEFAULT SCENARIO)

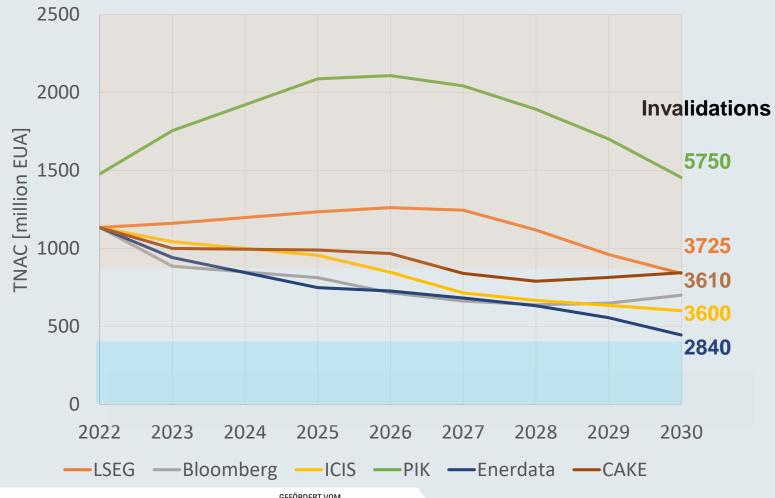


- > Prices from 80-132 EUR2023/tC02 in 2025 to 91-188 EUR2023/tC02 in 2030
- Last year: from 60-118 EUR2023/tC02 in 2025 to 89-178 EUR2023/tC02 in 2030
- **>** What changed wrt 2022?
 - Prices in 2025 higher but still mostly below 100 EUR2023/tCO2
 - **>** Higher divergence by 2030
 - > Still some projections with rather flat prices (ICIS, Enerdata)





MSR: DEVELOPMENT OF TNAC AND ALLOWANCES INVALIDATION



TNAC

- **>** Rather decreasing (except for PIK), ending up below 833 million EUA, but also above 400 million EUA by 2030
 - **>** MSR inactive by 2030
- In some models MSR would be inactive already by 2024

Cancellations

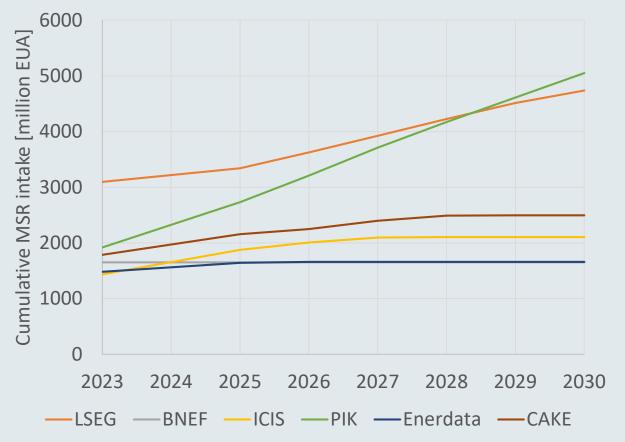
> Between 2840 and 5750 million EUA by 2030

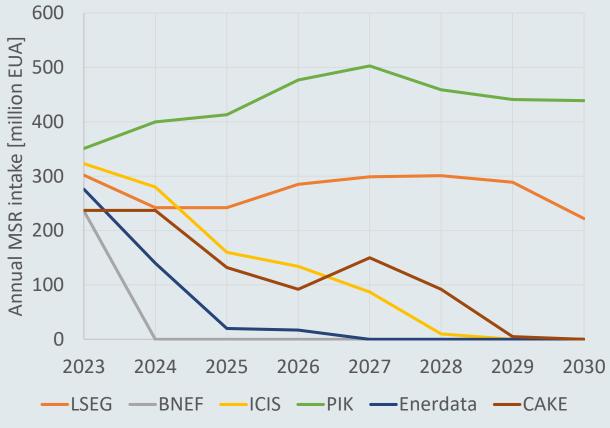






MSR: INTAKE RATES





* Values for 2024 have been approximated based on the 2023 and 2025 values reported





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ADDITIONAL MODEL DETAILS





