

ETS KEY DESIGN ELEMENT: ALLOCATION Case Studie EU ETS / GERMANY

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EU ETS Overview







Allowance Allocation EU ETS/Germany

- Allocation regime subject to several changes and adaptations from Phase I to Phase III of the ETS
- Further adaptations for Phase IV (2021 2030)
- Changes reflecting...
 - Experiences made with different methods and their specific pros and cons
 - Different competitiveness environment in covered sectors, esp. energy sector vs. industrial sectors
 - Grown understanding and acceptance of the ETS



Allowance Allocation

Germany Phase I: "too many choices" I

- No auctioning of allowances
- Grandfathering for incumbent installations as the default method
 - Historic emissions in a Baseline Period x reduction factor (0,97)
- Benchmarking for New Entrants, starting operation after 2004
 - BAT Benchmark x projected output in the future
 - Ex-post correction if actual production was lower than projected



Allowance Allocation

Germany Phase I: "too many choices" II

- Several "special rules" & high flexibility for installations
 - "Early Action Rules": reduction factor was not applied if operators provided evidence for emission reductions in the past
 - "Option Rule": operators could choose to apply for benchmark allocation instead of grandfathering
 - "Cogeneration Bonus" for combined heat and power production
 - "Hardship Rule"
 - "Cessation Rule" for closed plants & "Transfer Rule"
- > 58 combinations of allocations provisions could be used!



Allowance Allocation Germany Phase I: conclusions

- Allocation amount applied for exceeded the cap => additional adjustment factor had to be applied
- Allocation rules turned out to be too complex and not sufficiently transparent
 - disproportionate high administrative efforts for companies & authority
 - High number of administrative & court proceedings regarding allocation decisions
- Windfall profits especially for electricity producers
- **Over-allocation** of allowances and price drop $(30 \in => 0, 10 \in)$:
 - **Cap** was **not** ambitious (higher than actual emissions, no scarcity)
 - No robust emissions data available when determining the Cap



Allowance Allocation Germany Phase II: Simplifications I

- Grandfathering for industry installations only, base period extended
- Less special rules: no "option rule",
 - only hardship provision in case of production growth for small operators and
 - strict hardship provision in case of existence threat
- Reduction factor for industry: -1,25 %
- Bonus for small installations (up to 25,000 t CO₂/a): no reduction factor



Allowance Allocation Germany Phase II: Simplifications II

- Extension of benchmarking allocation instead of grandfathering:
 - All energy installations and all installations with operation starting from 2003 onwards
 - Simplified benchmarks for energy installations
- Phasing-in auctioning to reduce windfall profits of electricity producers
 - Ca. 9 % of the allowances auctioned: 40 Mio allowances
 - Auctioning amount was created by a corresponding adjustment/reduction of allocation for electricity production (15,6 %)
 - preliminary allocation amount (based on benchmarking) x 0,844
 "Auctioning factor"



Allowance Allocation EU ETS Phase III: overview

- EU-wide Cap, with a linear reduction factor of 1.74% per year
- Auctioning as default allocation method
 - 57 % of the allowances available (cap) to be auctioned
 - In general, no free allocation for electricity producers
- (Transitional) free allocation for industry
 - 43 % of the cap as "industry budget"
 - Based on ambitious benchmarks x historic production output
 - Planned phase-in of auctioning for industry (20% in 2013 70% in 2020)
 - Exemptions for sectors exposed to "Carbon Leakage"



Allowance Allocation EU ETS Cap from Phase I to Phase III





Allowance Allocation EU ETS Phase III: Benchmarks

- 52 product benchmarks determined on European Level
- In general : "one product one benchmark"; fallback benchmarks for heat and fuel consumption for heterogeneous products/sectors
- Top-10-benchmarks based on real data:
 - Average performance of 10 % most efficient installations in a (sub-)sector
 - Reference period 2007/2008; data gathered EU-wide, verified by third parties and assessed by the EU Commission



Allowance Allocation EU ETS Phase III: Conclusions

- > In general high acceptance of the allocation regime
 - Incentive to improve performance
 - Benefits for "Early Movers"
 - Recognised approach to address "Carbon Leakage" concerns of EU industry
- However: preliminary allocation applied for exceeded the industry budget
 - Additional "Cross Sectoral Correction Factor" had to be applied
 - Industry exposed to Carbon Leakage challenged these additional cuts



Allowance Allocation Outlook: EU ETS Phase IV

- More ambitious Cap reduction by 2.2 % p.a. instead of 1.74 %
- Continuation of the allocation regime; benchmark to be updated
- Additional measures to address competitiveness concerns
 - "Industry budget": 43 % of the cap
 - 100 % allocation based on benchmarking for Carbon Leakage Sectors 2021 – 2030
 - > Avoidance of "Cross Sectoral Correction Factor" (buffer)
 - "Dynamic Allocation" regarding increases/decreases of the production output (15 % treshold)
 - Allocation for Non-Carbon Leakage sectors to be phased out 2026 -2030 (30 % in 2021)



EU ETS Cap in Phase III & Phase IV





Thank you for your attention

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