Centre for Climate and Energy Analyses

National Centre for Emissions Management
Institute of Environmental Protection
National Research Institute

EU CBAM: Carbon Content and Cost Estimates for 2030-2035

LIFE ENSPIRE on-line workshop:

Carbon Pricing: Challenges for the EU and EU Neighbourhood

June 17, 2025

Co-funded by the European Union

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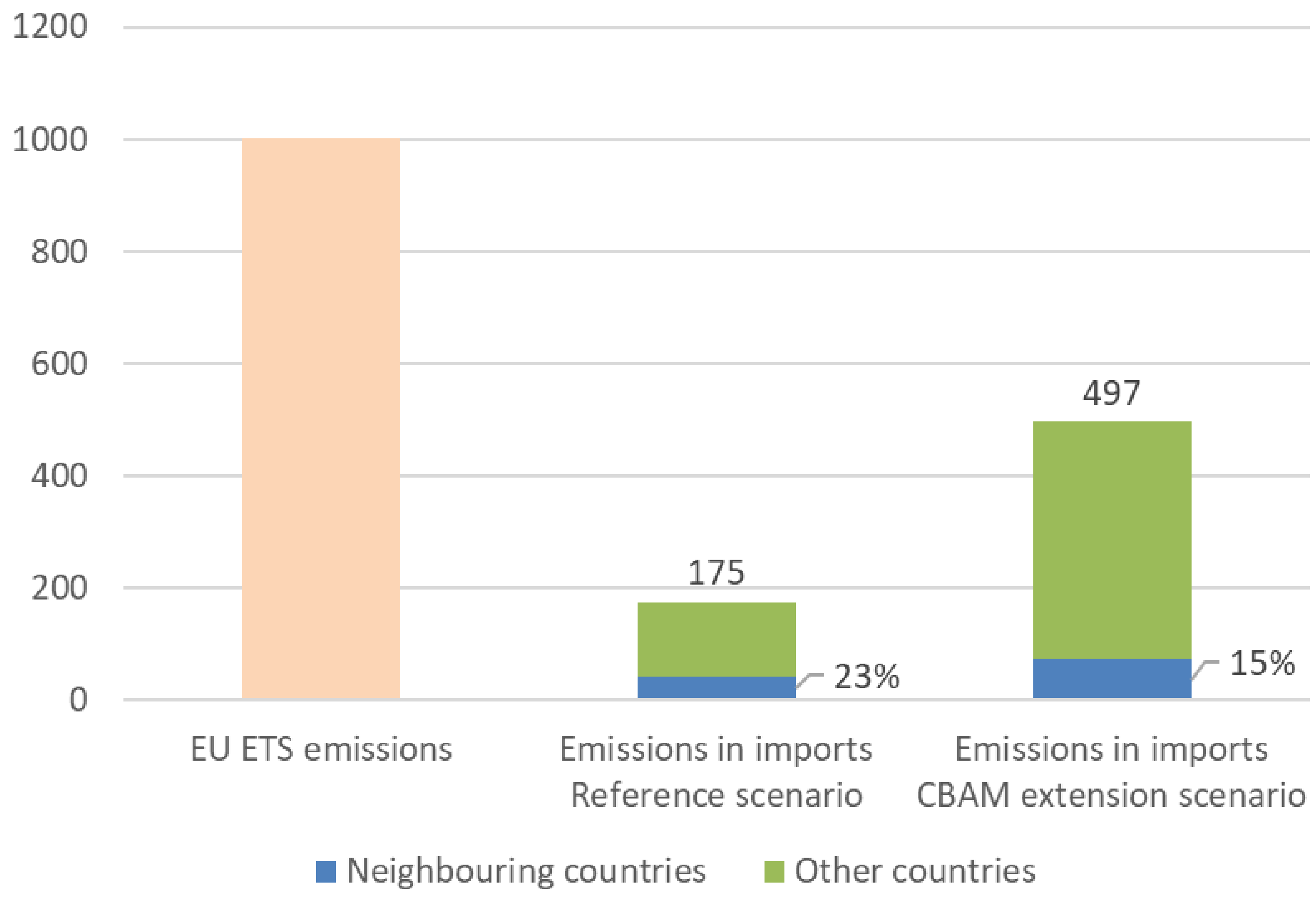
Carbon Border Adjustment Mechanism (EU CBAM)

- Unilateral carbon pricing (EU ETS): risk of carbon leakage and competitive disadvantage of EU producers in the domestic market.
- CBAM introduced to mitigate these risks, launching 2026.
- Principle of operation: pricing CO_2 content of imports, based on carbon price difference between the EU and the partner country.
- Current product coverage (**reference scenario**): iron & steel, aluminium, fertilizers, cement, electricity, [hydrogen].
- EC will propose amendments by the end of 2025, with possible extension.
- Our exploratory CBAM **extension scenario** adds:
  - other energy-intensive goods (scope 1 & 2),
  - selected downstream goods – embedded emissions from current CBAM-listed products,
  - indirect emissions (scope 2) for iron & steel and aluminium.

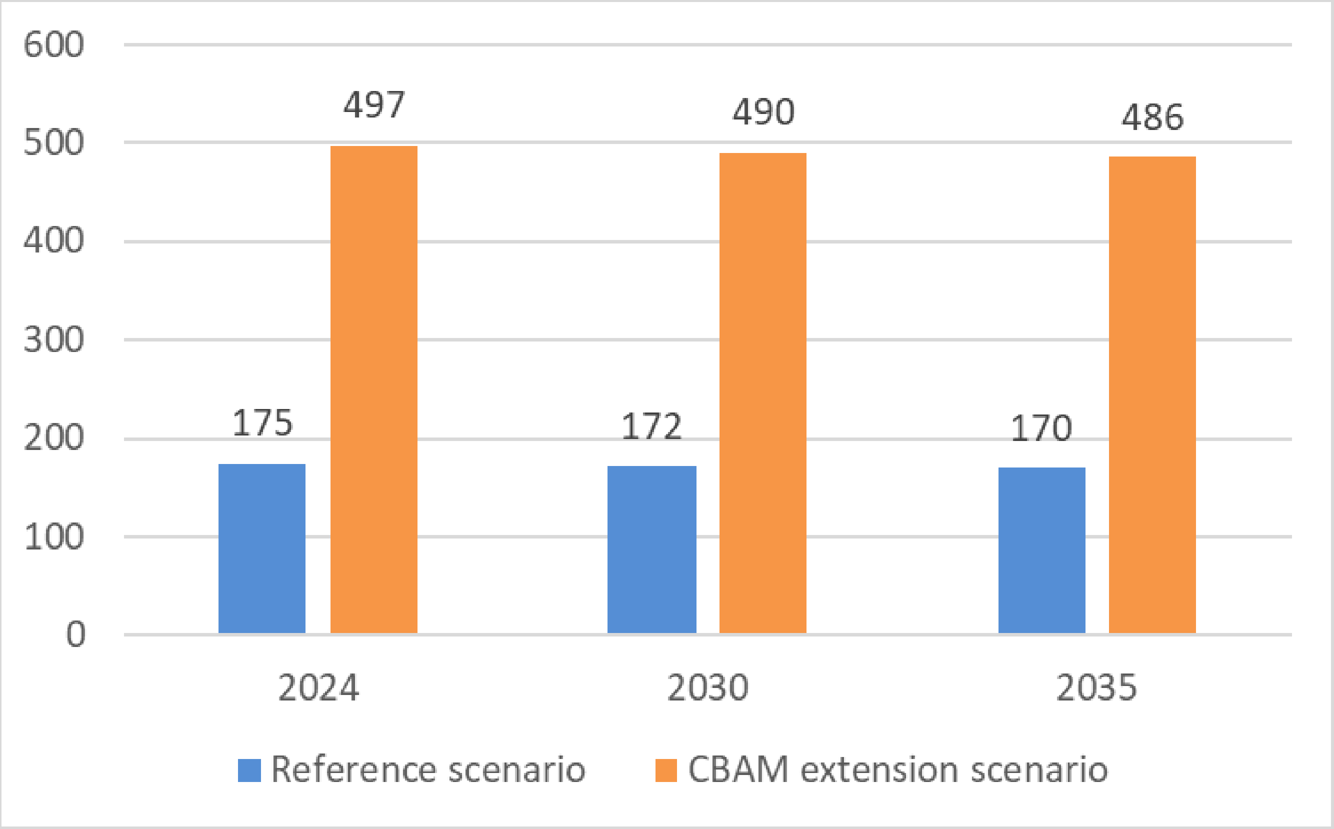
EU ETS emissions and emission embedded in imports (mln tCO_2eq, 2024)



Neighbouring countries:

- Albania
- Armenia
- Bosnia and Herzegovina
- Georgia
- Kosovo
- Moldova
- Montenegro
- North Macedonia
- Serbia
- Türkiye
- Ukraine

Projection of emissions embedded in EU imports (mln tCO_2eq)



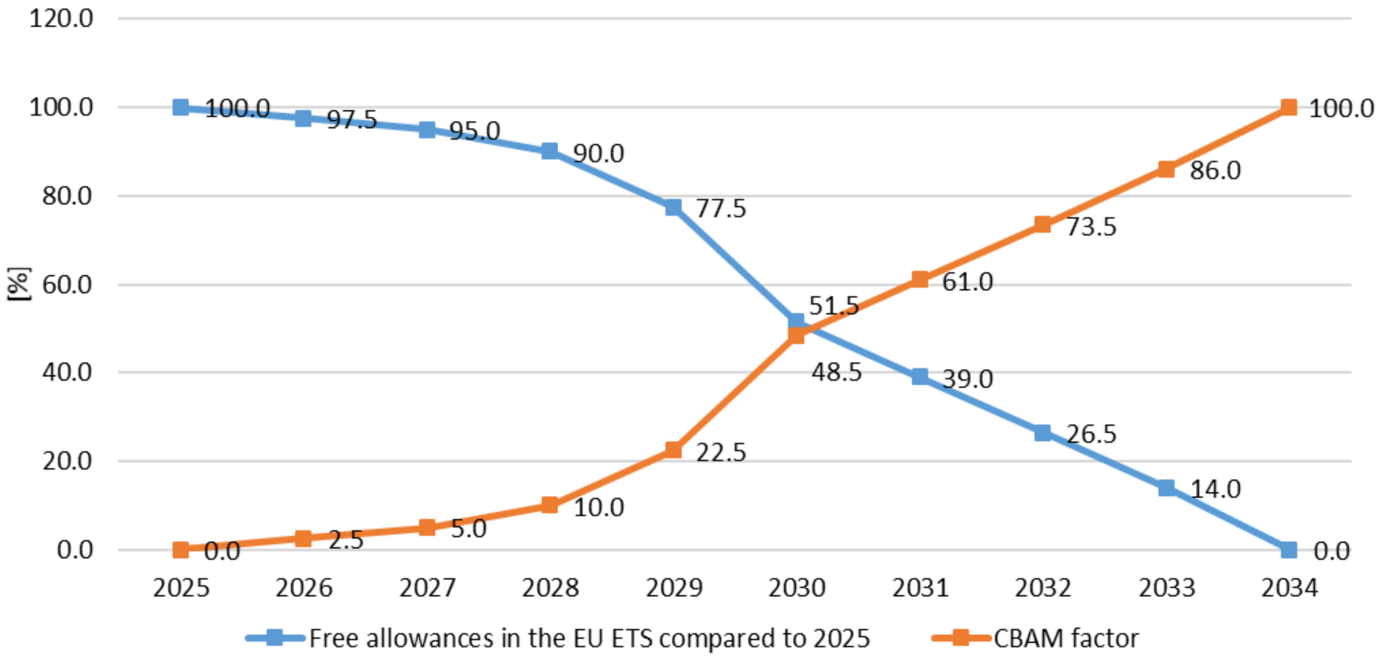
Assumptions:

- Import grotwh equal to GDP growth
- Reduction of emission intensity of imports
- Import structure from 2024

Carbon prices and CBAM factor

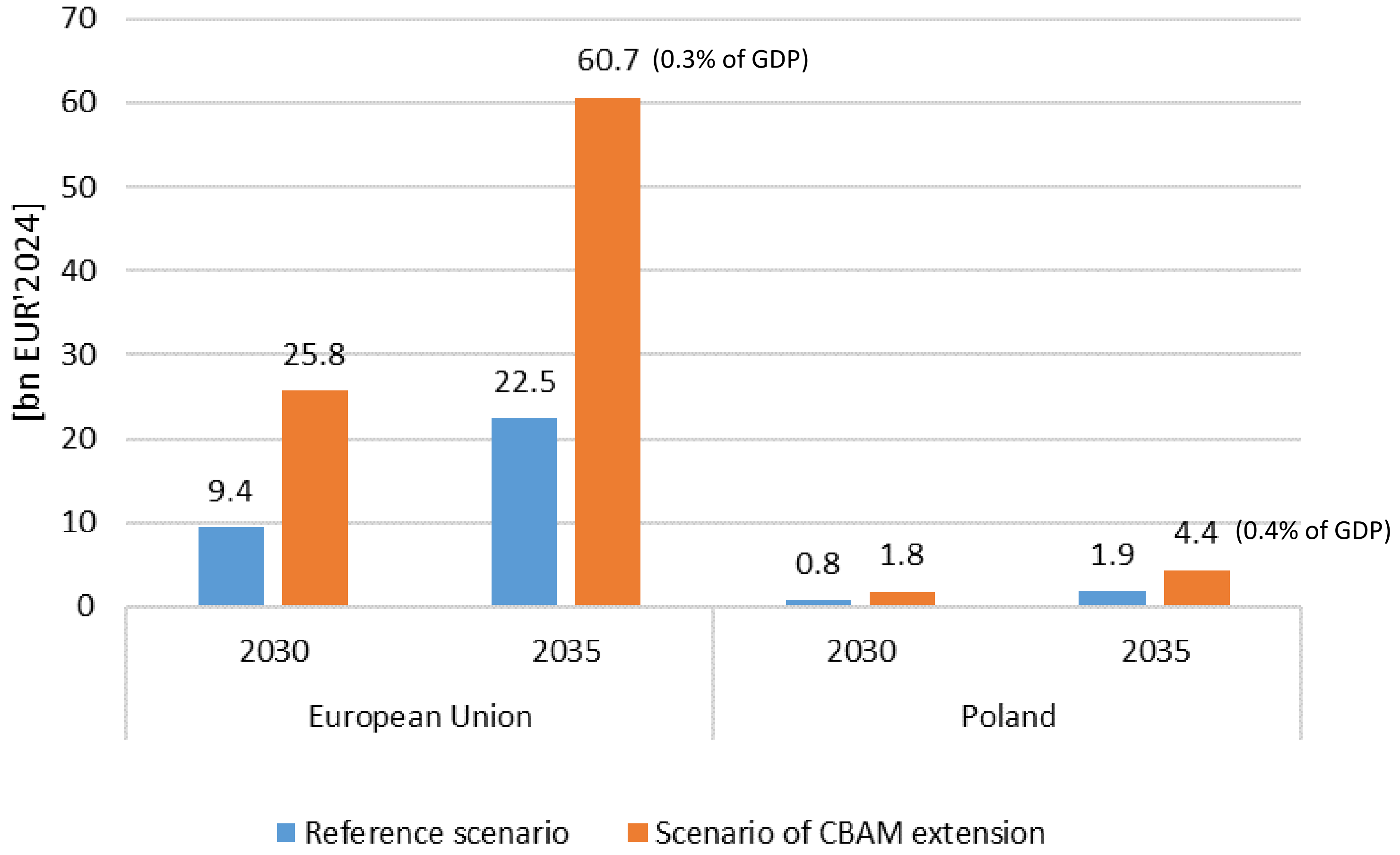
Allowanance Price in EU ETS* [EUR'2024/tCO_2]	2024	2030	2035
	80	123	147

**Poland's update of the NECP.*



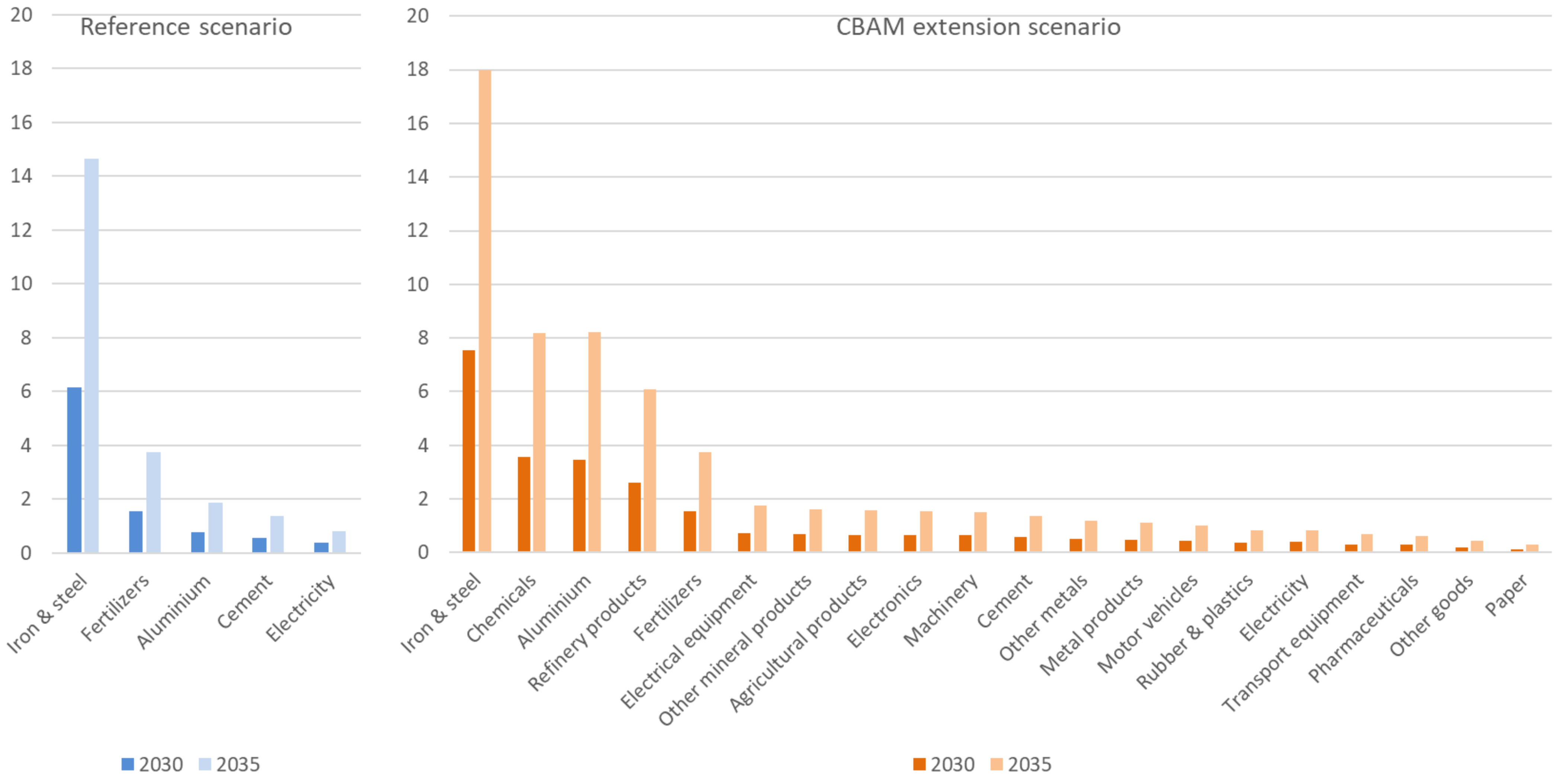
Source: CAKE/KOBiZE, based on Directive 2023/959.

Projected revenues from CBAM in EU and Poland



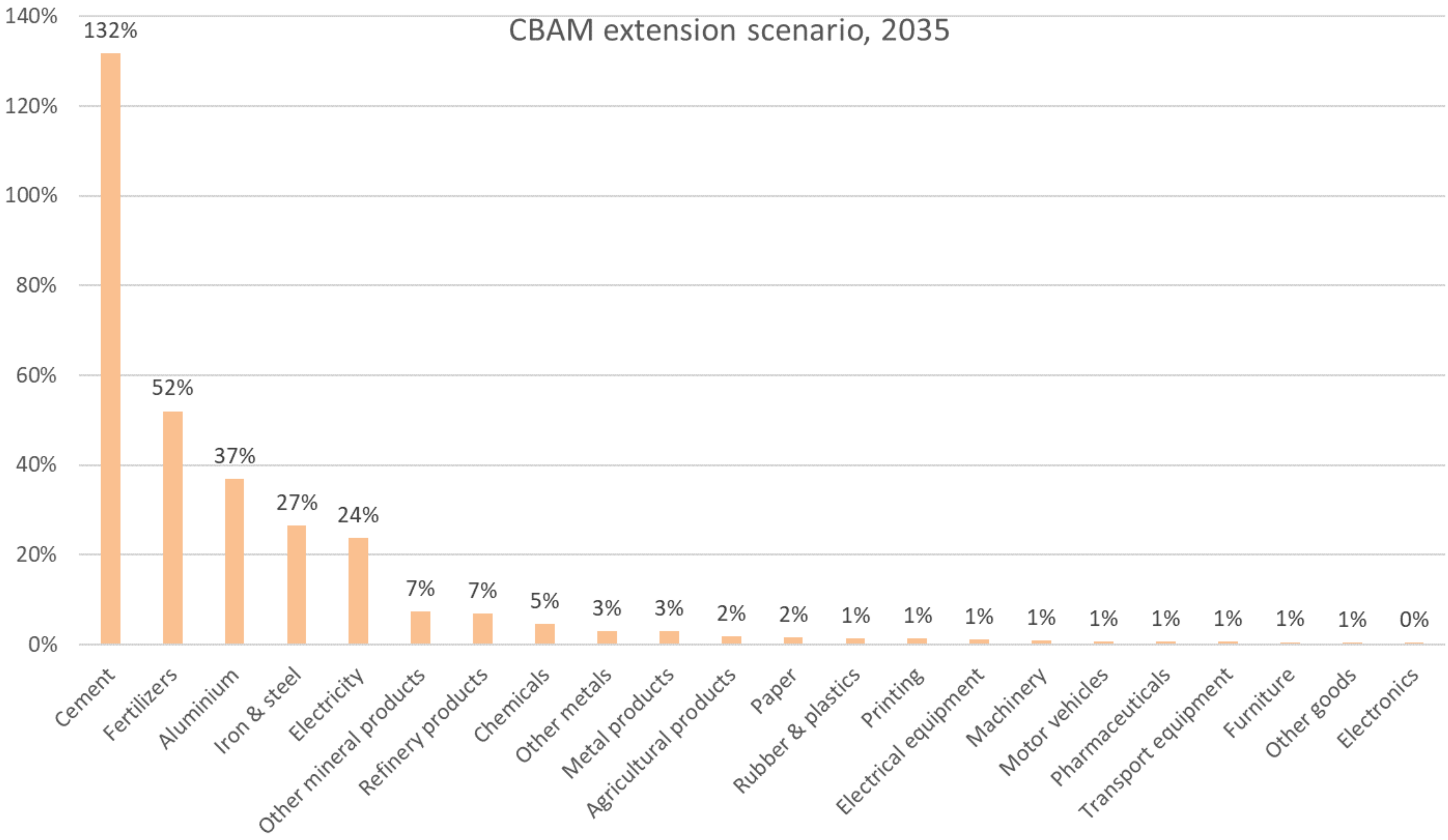
Source: CAKE/KOBiZE

Projected CBAM revenues / import costs in EU by product



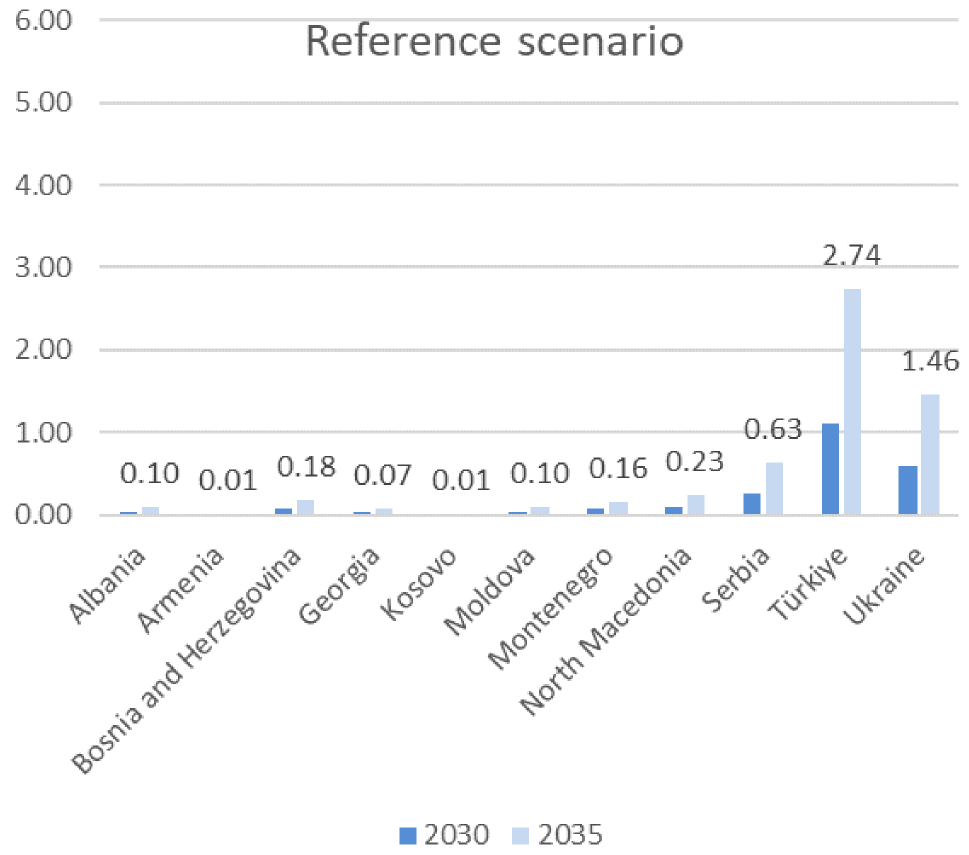
Source: CAKE/KOBiZE

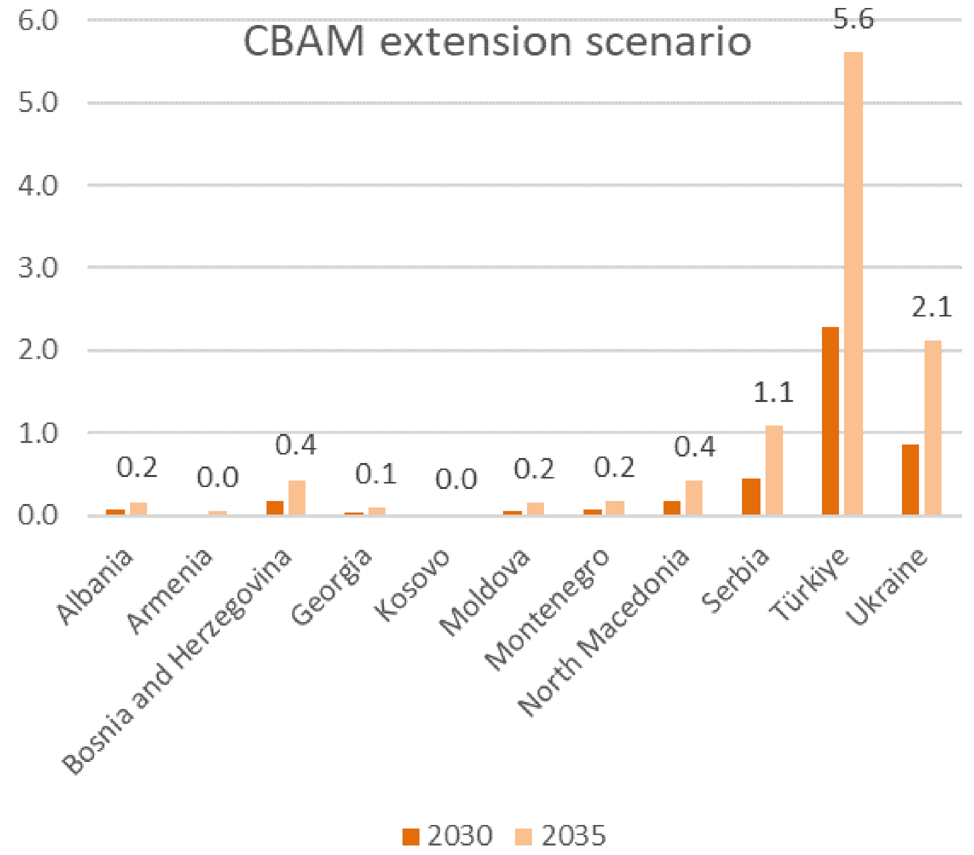
Direct impact on import prices



Source: CAKE/KOBiZE

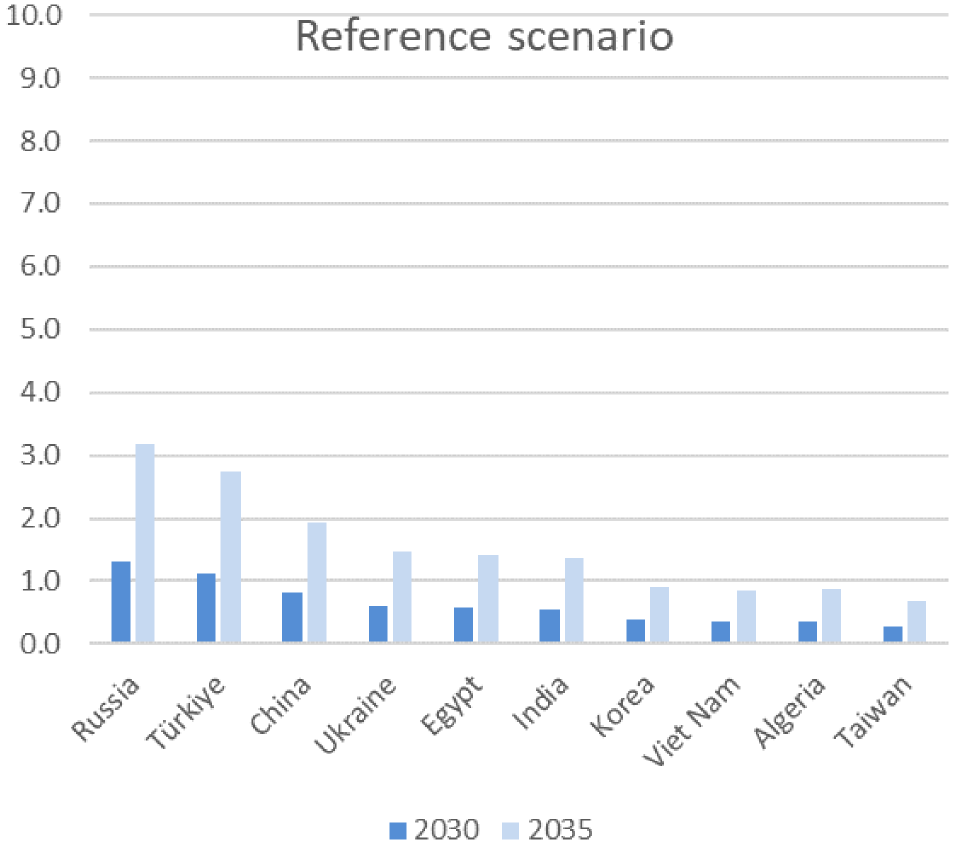
Projected CBAM revenues / import costs in EU by neighbouring countries [bn EUR'2024]

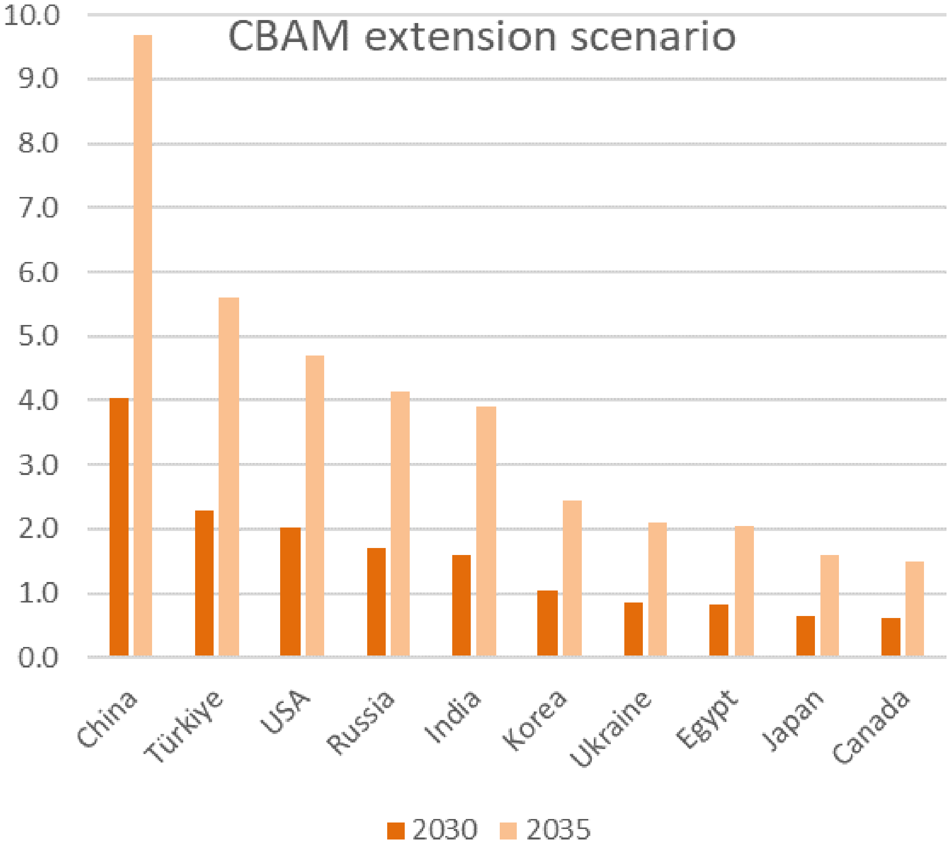




Source: CAKE/KOBiZE

Projected CBAM revenues / import costs in EU by countries, top 10 [bn EUR'2024]





Source: CAKE/KOBiZE

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Thank you for your attention!

Jakub Boratyński

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