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# EU Roadmaps for inclusive transformation of the European materials sector

Integrating industrial transition in the domestic  
climate and energy policy landscape in Poland

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Berlin  
March 2019

# About WiseEuropa

WiseEuropa Institute is an independent think-tank based in Warsaw that focuses on socio-economic and foreign policy both on the national and European level.

WiseEuropa research areas include:



Social policies and  
labour market



Macroeconomic,  
industrial and  
institutional policies



Digital economy  
and innovation



European and  
global political and  
economic affairs



Energy, climate  
and environment

# Climate policy for industrial sector in Poland

## Current policy focus

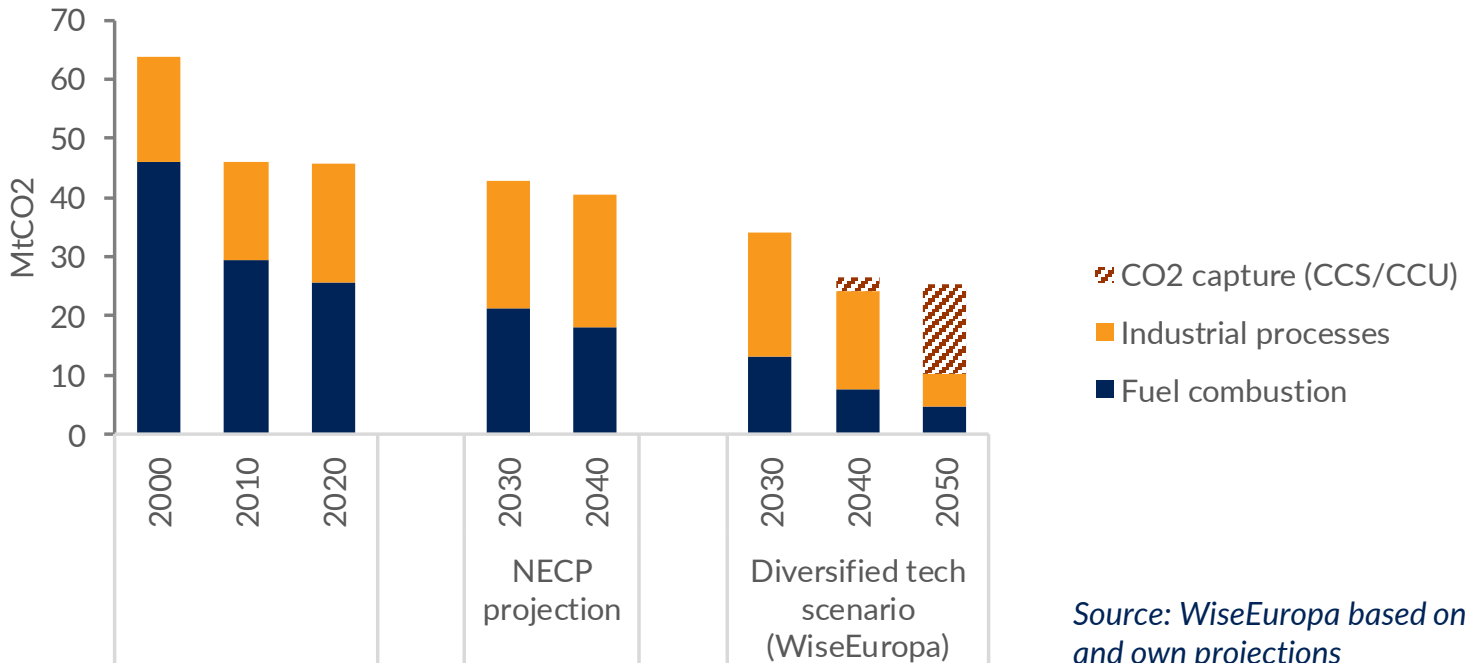
- European carbon leakage protection rules
- Mitigating electricity price hikes for the industry
- Improvements of existing technologies

## Issues beyond policy focus

- Long-term climate targets for the industrial sector
- Domestic support for the radical innovations on the supply side (CCS, P2G, biomass...)
- Ensuring sufficient ambition on the demand side

# Industrial transition in the Polish NECP draft

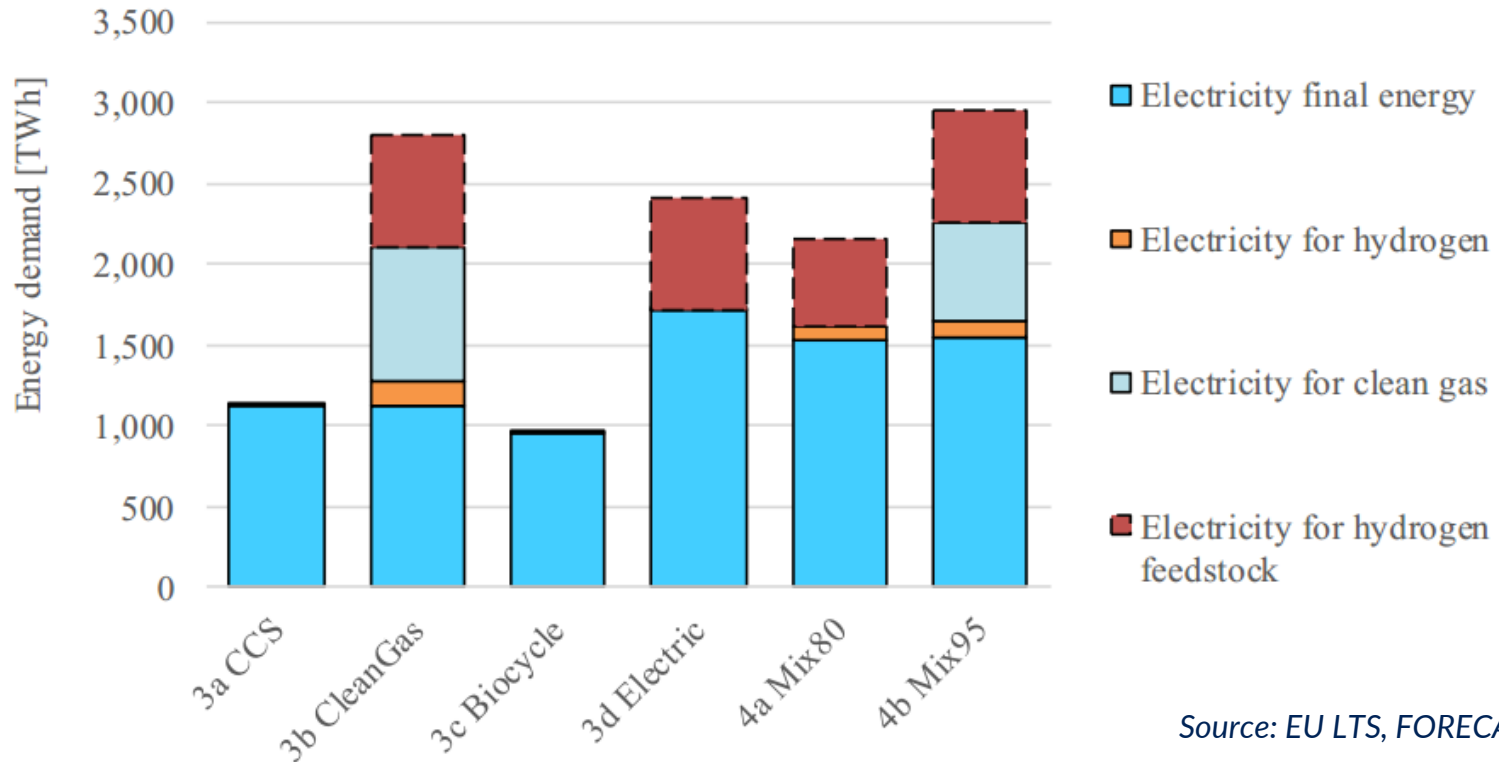
- Long-term deep industrial decarbonisation **not addressed** in the NECP draft
- No mention of CCS, no discussion on materials sector decarbonisation and its links to circular economy
- Transition in steelmaking and perspectives for domestic coking coal industry not addressed
- Industrial emission projections up to 2040 do not foresee introduction of low-carbon technologies:



Source: WiseEuropa based on draft NECP and own projections

# Industrial decarbonisation pathways vs transition in other sectors

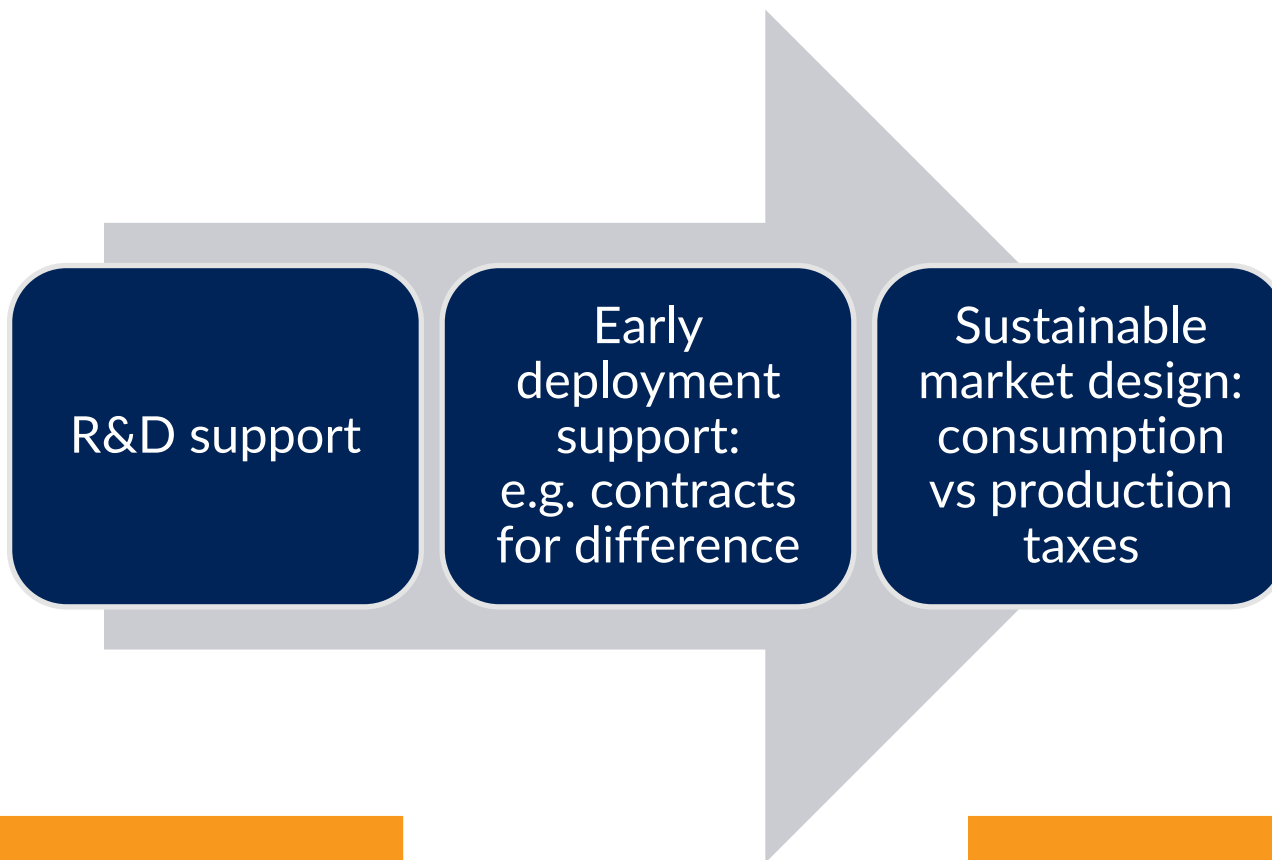
## Industrial electricity demand in Europe in 2050



Source: EU LTS, FORECAST model

- EC assessment shows that industrial decarbonisation requires **systemic shifts beyond industrial plants**: sharp increase in electricity demand, large-scale CCS infrastructure and/or restructuring of bioeconomy
- **Polish case: low awareness of the challenges in other sectors**

# NECP vs key areas of low-carbon industrial transition



Ensuring adequate supply of low-carbon electricity

Cross-border coordination: R&D and infrastructure deployment



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**Thank you for your attention**

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