

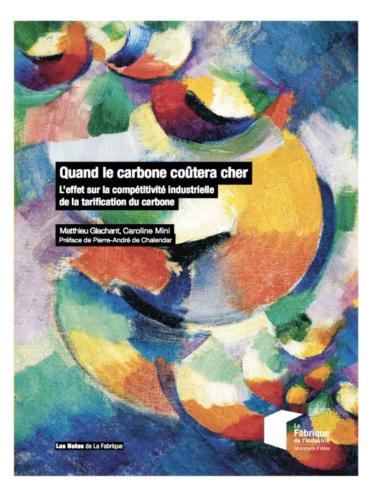
Round table 1 Carbon pricing and competitiveness

Hosts : Matthieu Glachant, Director of CERNA and professor at MINES ParisTech - PSL Caroline Mini, Project manager at La Fabrique de l'industrie

Speakers :

- Antoine Dechezleprêtre (Senior economist, OCDE)
- Susanne Droege (Senior Fellow, German Institute for International and Security Affairs)
- Nicolas de Warren (President of UNIDEN)

What impact of carbon pricing on competitiveness?



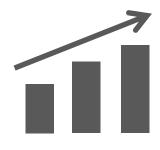
Synthesis of recent econometric studies on

Ex post impact of **EU Emissions Trading System (ETS)** from 2005 to 2012

Empirical effect of **energy price variations** on manufacturing sector









Around **25 €/tCO2** on the EU ETS

A national carbon tax at **44,6 €/tCO2**

Increase in carbon price The value of climate action estimated at **250 € in 2030** (Commission Quinet II) **55 % reduction** of GHG emissions by 2030

EU objective of **carbon neutrality** by 2050

EU Green Deal

The effects of the european carbon market have been positive

No negative impacts on industrial competitiveness (revenues, profits, importations, exportations, employment)

10 % reduction in GHG emissions between 2005 and 2012 due to the carbon market

Carbon leakage that remained limited

10 % increase in low carbon technology patent filing between 2005 and 2009

The impact on competitiveness would remain limited up to 100 €/tCO2

Results based on the empirical effect of energy price variations on competitiveness	Sources
No impact on net manufacturing employment in France	Dussaux (2020)
But reallocation of workers	
No impact on net manufacturing employment	Hille et Möbius (2019)
Modest negative impact on total factor productivity	Marin et Vona (2019)
Modest increase in foreign direct investments in countries with a lower energy price	Saussay et Sato (2018)

No effect on net manufacturing employment

But **reallocation of workers** toward companies and less energyintensive sectors

Differentiated impacts among sectors

Without taking into account indirect job creations

Above 100 €/tCO2



Measures are needed to address carbon leakage

Two objectives :

Address carbon leakage concerns

Level the playing field between EU producers and foreign competitors

Carbon border adjustment mechanisms

Discussions are ongoing on **carbon border adjustment mechanisms** at the European Commission to deal with asymmetric climate policies

A way to **incentivize third countries** to adopt comparable measures to fight climate change

These measures cover multiple technical aspects to solve

Additional measures exist to create a low carbon market (R&D subsidies, product norms, climate conditions in international agreements, ...)