THE IMPACT OF CLIMATE POLICIES ON FINANCIAL MARKETS: EVIDENCE FROM THE EU CARBON BORDER ADJUSTMENT MECHANISM







SUMMARY

Introduction of EU CBAM has triggered statistically significant negative stock market responses

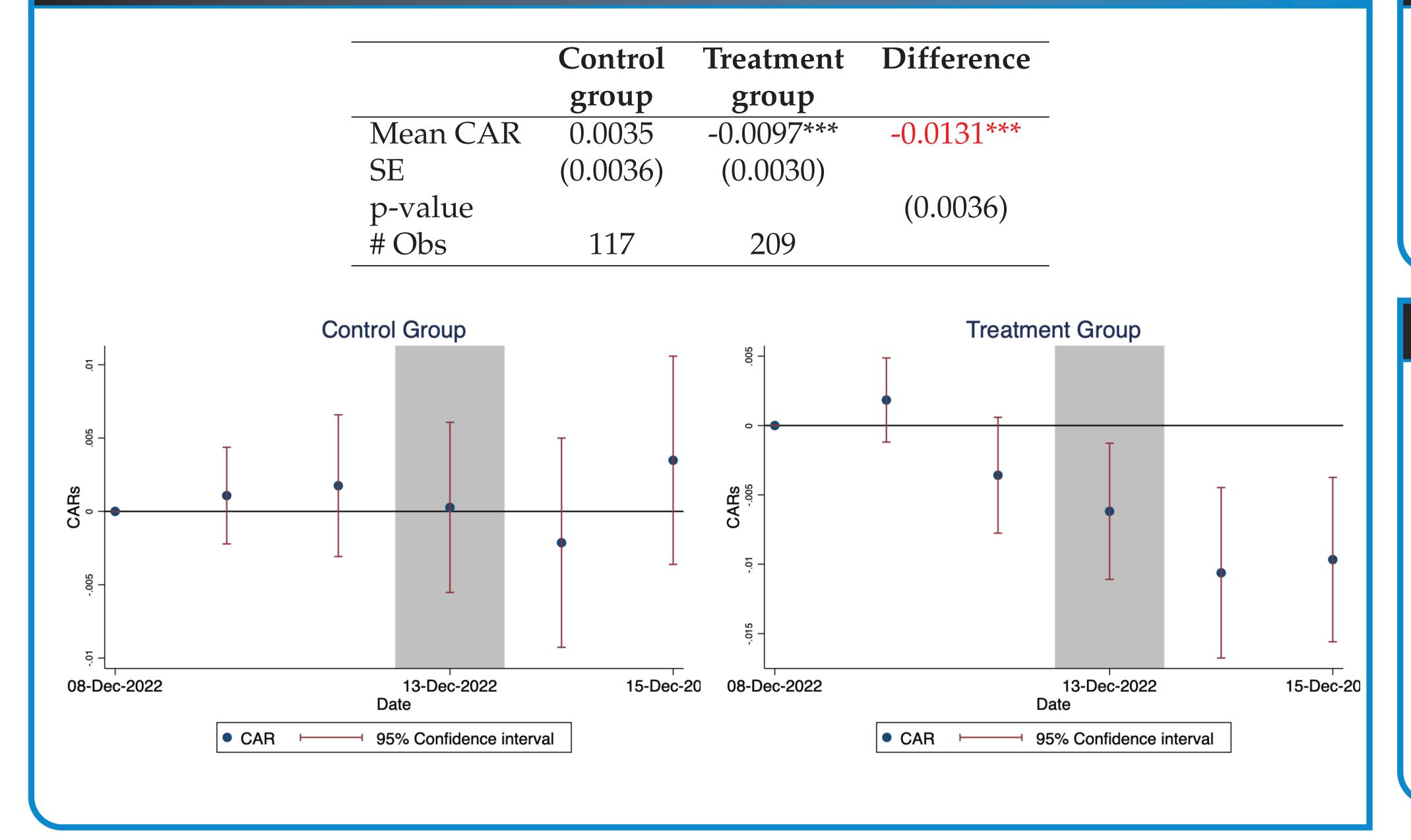
Event study around key legislative event date Dec 13, 2022

- -1.3 percentage points lower cumulative abnormal return for CBAM-treated customer firms within EU
- Substantial anticipatory market responses \longrightarrow updated beliefs about broader climate policy developments

Contributions

- First empirical evidence of carbon border tax impacts on firm valuations through international supply chains
- Complements developing literature about effect of carbon pricing on firm's financial performance

TOTAL TREATMENT EFFECT



MERGED DATASETS

- FactSet Revere Supply Chains
- Compustat+Worldscope+Datastream
- Official Journal of the EU (L 130)
- Goods-industries link table (P. Schott)

EVENT STUDY DESIGN

- Treatment group: EU customers with more non-EU suppliers in CBAM industries
- Control group: EU customers with EU suppliers and in non-CBAM industries
- CARs w.r.t. CAPM, FF 3 and FF 5 factors
- Variations of treatment/control groups
- Broad definition of supplier relations

FREE ALLOWANCES BELIEFS UPDATING EFFECT

	Control group	Only Industry Treatment group	Difference
Mean CAR	0.0035	-0.0069***	-0.0104*
SE	(0.0036)	(0.0025)	
p-value			(0.0088)
# Obs	117	217	

CBAM EXTENSION BELIEFS UPDATING EFFECT

Control	Only Location Treatment	Difference
group	group	
0.0035	-0.0072	-0.0106*
(0.0036)	(0.0045)	
		(0.0982)
117	362	
	group 0.0035 (0.0036)	groupgroup0.0035-0.0072(0.0036)(0.0045)

BACKGROUND INFORMATION ON EU CBAM

- World's first carbon border tax
- Addresses carbon leakage in EU Emissions Trading System (EU ETS) \rightarrow level playing field
- Importers of specified goods need to pay import tax based on carbon footprint of the goods
- Effective as of 2026 (reporting requirements already as of 2023)
- Closely aligned with EU ETS (e.g. phasing out of free allowances under EU ETS)
- Part of the EU's "Fit for 55" package \rightarrow Challenge to disentangle effects of different policies
- EU legislative process started in 2021, breakthrough in negotiations on Dec 13, 2022

FURTHER DETAILS

