

CLIMATE FINANCE AND GREEN TRADE TRANSITIONS: EU CARBON BORDER ADJUSTMENT MECHANISM, GREEN BOND MARKETS, AND CLIMATE RISK IN BANK LENDING PORTFOLIOS

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ABSTRACT

Climate finance and green trade transitions are fundamentally reshaping the architecture of the global economy. As climate commitments intensify — with enhanced pledges by 113 countries projected to cut global emissions by approximately 12% by 2035 — the financial mechanisms and trade policy instruments designed to support these transitions warrant rigorous academic scrutiny (UNFCCC, 2023; Hein et al., 2024). This paper examines three interconnected dimensions of this transformation: (1) the European Union's Carbon Border Adjustment Mechanism (CBAM) and its implications for Indian and other developing country exports; (2) the development and trajectory of global green bond markets; and (3) the incorporation of climate risk in bank lending portfolios.

Drawing on secondary data, policy documents, financial market data, and an extensive review of peer-reviewed literature, this study employs a mixed conceptual and empirical framework to analyze these dimensions. The findings reveal that CBAM imposes asymmetric compliance burdens on developing economies, particularly in carbon-intensive export sectors such as steel, cement, and aluminium, threatening export competitiveness and trade flows with the EU (Mehling et al., 2019; Cosbey et al., 2019). Simultaneously, green bond markets have scaled dramatically, surpassing USD 4 trillion in cumulative issuance by 2023, yet structural challenges around greenwashing, standardization, and market access for developing nations persist (Climate Bonds Initiative, 2023; Fatica et al., 2021). In bank lending, climate-related financial risks — both physical and transition risks — remain incompletely priced, with significant implications for financial stability (TCFD, 2021; Battiston et al., 2017). The paper contributes theoretically to sustainable finance and green HRM-adjacent institutional frameworks and offers policy recommendations targeted at multilateral climate finance architecture, CBAM transition support mechanisms

