

CTIER

SEMINAR SERIES

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Analysis of carbon productivity for firms in the manufacturing sector of India

Prantik Bagchi will present findings from his paper, "Analysis of carbon productivity for firms in the manufacturing sector of India".

Abstract: Emission estimation and carbon productivity at the firm level for India's manufacturing sector are scanty. We fill this gap by estimating CO₂ emissions at the firm level and further determining the optimal and the actual trade-offs between emissions and output at the firm level. Using the data of CMIE, Prowess IQ, and MoEF&CC, we find that growth in CO₂ emission and output are 3% and 9%, respectively from 1998 to 2019. This indicates a case of weak decoupling for the manufacturing sector where technology, price policies, and export promotion strategies are the significant determinants of carbon productivity for the sample firms in India's manufacturing sector. We conclude that improving carbon productivity is necessary for better decoupling and R&D intensity to be complemented with R&D efficiency to gain carbon productivity for the manufacturing industry. These findings are crucial for better energy and climate policy for the Indian economy.



DATE
May 18th

TIME
6.00-7.00 p.m.

Link: <https://ctier-pune.webex.com/ctier-pune/j.php?MTID=mb8ca0ab998a18b68e5a37fb16209660b>