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Monitoring trends in EU CO₂ emissions: A carbonization index through divisia index

oncerns on rising concentrations of Çto the atmosphere and global warming have increased in recent years. Numerous Jenvironmental studies analyze the trends in, €@issions and their main drivers. In this paper we focus on the dynamics of the carbonization e ect as a driving force for @nissions in the European Union (EU). By implementing the Sato-Vartia logarithmic mean Divisia index method, the trend of European emissions in the 2000-2010 period is factorized by both sector and country. e analysis stresses the relevance of the carbonization and intensity e ects in order to reduce emissions. en, based on so-called attribution analysis we present a new theoretical framework that enables the attribution of both economic sector and individual EU Member State to percentage changes in the carbonization index. Results show strong concentratio of this reducing in uence in some big economies. In fact, Germany, the United Kingdom, France and Italy have contributed by more than 50%. Industry emerges as the most in uential sector, contributing to o set any improvement in the carbonization index. Our indings suggest strategies aiming at encouraging innovation, technical change, research on higher quality energies fuel substitution, and installation of abatement technologies, particularly in the industrial sector of large economies.

Biography

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