MODELING CARBON LEAKAGE IMPACTS OF THE EU CLIMATE POLICIES WITH A GLOBAL FOREST SECTOR MODEL

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Several scenarios were defined to analyze changes in the carbon emission flows related to the wood harvest and wood based forest products manufacturing in the different global regions. For the analysis we use a revised version of the partial equilibrium model for the global forest sector, the EFI-GTM model. The results of the scenario analysis provide insights into changes in the carbon emissions from the harvest, trade and production of the wood based products as a result of (i) EU forest conservation and (ii) EU Renewable Energy policies and (iii) maximizing use of wood as environmental friendly material. The main changes in the global carbon emissions are coming from reallocation of the sub regional harvests and changes in the trade of wood and wood based products. Reallocation of forest products manufacturing also play a role in the changes of the carbon emissions.