

Domestic GHG emissions and responsibility of households in different Spanish regions

Topic: Household Impacts

Author: Alfredo J. MAINAR CAUSAP

Co-Authors: Julio Snchez Chliz

The aim of this paper is to analyse the distinct responsibility of Spanish households in the generation of domestic Greenhouse Gas (GHG) emissions, depending on their region of residence, distinguishing between NUTS 1 and NUTS 2 (Comunidades Autnomas). Simultaneously, it delves into the relationship between the average or representative household of each region and their consumption pattern, using for this purpose the most recent data available to the methodology used. Although a relationship between income per capita and regional responsibility in this generation of pollution is observed, this relationship is based on a scale effect on demand, which overlaps the effects of different patterns of regional consumption. Thus, it is found that in the richest regions (Madrid, Northeast, East), despite having a pattern of less polluting than other regions, the level of emissions per capita consumption is above the rest due to their higher level of consumption. The existence of this scale effect and description of these linkages between regional responsibility for emissions and consumption pattern of households are analysed, using Social Accounting Matrices linear models based on estimate of regional emission intensities (average emission per euro spent by each type of regional household).