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TITLE: IMPACT ON GREENHOUSE EMISSIONS IN THE AQUITAINE REGION FOR THE CASES OF A BASELINE SCENARIO AND AN ECONOMIC CRISIS

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ABSTRACT:

The region of Aquitaine, situated in the southwest of France, has put in place a climate plan with the goal of reducing greenhouse gas emissions by 10% for the period 2007-2013. Faced with the fact that regional accounting for this has been poorly developed, we constructed an input-output table, with an associated inventory, for emissions. The objective of this paper is to construct a baseline scenario for forecasting emissions for up to 2013. The primary contribution of this paper is development of a methodology for regionalizing national results as they derive from a structural decomposition analysis. We utilize the bootstrap method to produce forecasts in the case of a baseline scenario, taking into account uncertainty stemming from a standard deviation for annual variations. We thus estimated a density function for GDP as well as for emissions for 2013. We also simulated the effects of an economic crisis taking into account historical data to estimate its repercussions on emissions.