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TITLE: IMPACT ASSESSMENT OF GREENHOUSE EFFECT GAS (GEG) EMISSION ON THE MEXICAN ECONOMY: AN INPUT-OUTPUT ANALYSIS

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ABSTRACT:

In this paper we present an assessment of the impact of the GEG emissions on the Mexican economic structure. In the first part the basic data regarding air pollution and input-output is analyzed stressing the links between them, in the case of the Mexican economy. Secondly, the impacts of the diseconomies caused by GEG emissions are evaluated, both in the production and price systems. The data allowed us to locate the main sectors generating GEG emissions and estimate their impact on the economic network depicted by the I-O table for 2003 of the Mexican economy. In this case we applied the Cella-Dietzenbacher extraction method, to a matrix whose technical coefficients have been "loaded" with its ability to generate GEG emissions. Finally we estimated the "field of influence" of the main coefficients of the pollutant branches, applying the Sonis-Hewings methodology. This approach is directed to locate specific inputs that should be substituted or improved technologically in order to diminish its pollutant content.