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TITLE: THE OPPORTUNITY COST OF RATIFYING KYOTO PROTOCOL: AN INPUT-OUTPUT ANALYSIS FOR TURKEY

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ABSTRACT:

Turkey is being pressurized by EU and environmental agencies to ratify Kyoto Protocol so as to reduce GHGs emissions from the atmosphere of our earth. The aim of this paper is to test the impact of three different possible targets of Kyoto Protocol that is reduction of GHGs emissions in 2008 on the final demand (GNP), employee's compensation and total and industrial output by using environmental input-output model. This paper finds that given exogenous targets of 95, 110 and 130 percent of GHGs emissions subject to 1998 levels of emissions, Turkey has to decrease final demand, employees' compensation and total output of all sectors by 60, 38 and 17 percent respectively in 2008. This huge cost in terms of economic and social goals derives the attention of policy makers to substitute renewable energy technologies and may be natural gas substitution partially while Turkey makes her sustainable development strategies and policies.