

A GTAP-E Extension for Emission Abatement Analysis

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In GTAP-E simulations of carbon taxation or tradeable permits for emission abatement, responsiveness varies across countries. Explaining the variation in responsiveness is difficult, both because of the multiplicity of abatement mechanisms in the model, and because at some points, we need not direct but total requirements coefficients. We extend the model to provide a decomposition of changes in emissions, addressing those difficulties.