

GHG Emission Reduction Potentials and Mitigation Cost Analysis in World Regions

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Measures such as market-driven investments and policy instruments have large impacts on inducing technological developments, so that it is important to analyze the potentials of GHG emission reductions due to technological developments. In order to evaluate global and regional mitigation measures, AIM/enduse model in world regions, which is the bottom-up model of detailed technology selections, has been developed and GHG reduction potentials and marginal abatement costs were estimated in multi-sectors in 21 regions in the year 2020. To achieve these reduction potentials, it is essential to set up frameworks of technology transfers and financial aid to developing nations.

Keywords:

climate change, GHG emission reduction, abatement cost, enduse