



Greenhouse Gas Emission Mitigation: Feasibility and Economics

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Message from the Guest Editor

Dear Colleagues,

This Special Issue plans to provide information to decision-makers on the feasibility and economics of mitigation of greenhouse gases from various sectors. GHG mitigation has two basic aspects: technical feasibility and social acceptability. The first aspect requires the provision of scientific evidence that shows that the adoption of certain measures would reduce GHG emissions from a given economic activity. Here, the adoption process and likely bio-physical direct and side effects need to be investigated. The second aspect is about adoption of recommended measures by decision-makers. The economics of adopting a mitigation measure is an important consideration for a decision-maker prior to adopting it. Related to this is the relative cost of mitigation if two or more measures are available for adoption. In these assessments, merely looking at the direct cost to the adopters is insufficient, since the side effects on the rest of society are equally. In addition, equally important is the evaluation of policy instruments that government might like to use to promote the adoption of GHG mitigation measures.

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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