

Special Issue

Biofuel-Induced Land Use Changes: Theory, Modeling Practices, Historical Observations, and Sustainability

Message from the Guest Editors

Over the past 15 years, many papers have studied the economic and environmental impacts of biofuel production and policy. In this area of research, a large number of papers have studied the extent to which biofuel production and policy may Induce Land Use Changes (ILUC) around the world. While from a theoretical point of view, several papers have shown that various market-mediated responses and biophysical conditions are the main factors that affect land use emissions due to biofuels, the numerical assessments of these effects vary significantly across the literature. This Special Issue aims at developing testing and verification methods of these estimates. Validating technological progress in agricultural activities and changes in crop yields, observing land use changes and associated carbon implications in countries that produce biofuels and elsewhere, studying changes in crop prices and their drivers over time, examining changes in trade pattern of crops and food products, and assessing changes in the consumption of food products around the world are important verification approaches. These approaches could also capture sustainability of biofuel production.

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