



## Opportunities and Challenges of Low-Carbon Agriculture

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### Message from the Guest Editors

Low-carbon agriculture is emerging as a global trend, focusing on reducing greenhouse gas emissions while enhancing the sustainability of agricultural production. This approach leverages advanced technologies such as precision farming, agroforestry, and organic practices to optimize resource use, lower production costs, and increase farmers' incomes. The growing consumer demand for green and organic products is creating significant market opportunities for low-carbon agricultural products. Government policies and subsidies provide crucial support to farmers transitioning to these sustainable practices.

However, the implementation of low-carbon agriculture faces several challenges. The initial investment required for adopting low-carbon technologies can be substantial. Additionally, these technologies necessitate specialized knowledge and skills. Policy implementation can also be inconsistent. The uncertainties brought about by climate change can impact the effectiveness and benefits of low-carbon agriculture. Overcoming these challenges requires a collaborative effort from multiple stakeholders to promote a green transformation in agriculture and realize its full potential.





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## Message from the Editor-in-Chief

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