

Sustainable Agriculture Practices to Combat Climate Change

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Abstract. Agricultural activities are both a contributor to and a victim of climate change. This paper explores sustainable agricultural practices that can reduce greenhouse gas emissions while enhancing resilience to climate impacts. By integrating innovative techniques, we propose solutions for sustainable food production and climate adaptation.

Keywords: Sustainable agriculture, Climate change, Greenhouse gas emissions, Agroforestry, Food production

Introduction

Agriculture is a major sector affecting and affected by climate change, contributing to greenhouse gas emissions while also facing the consequences of changing climatic conditions. This paper explores sustainable agricultural practices designed to mitigate these impacts and enhance resilience. By examining innovative techniques such as agroforestry, conservation tillage, and precision farming, we propose comprehensive strategies to reduce emissions and improve agricultural sustainability. Our analysis includes case studies from different regions, demonstrating the effectiveness of these practices in promoting sustainable food production and climate adaptation. The research highlights the critical role of policy support and farmer engagement in adopting sustainable agriculture on a global scale.

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References

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