

**A Review**

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# Ameliorating the effects of climate change through organic agriculture system

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## Summary

The paper attempts to explore research findings focusing on the climate change impact on organic agriculture and its impact on climate change through scientific literature review. This review reveals that climate change and agriculture are closely linked and interdependent. Compared to conventional agriculture, organic agriculture is reported to be more efficient and effective both in reducing GHGs (CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O) emission mainly due to the less use of chemical fertilizers and fossil fuel. Organic agriculture also reported to be climate change resilience farming systems as it promotes the proper management of soil, water and biodiversity by acting as a good options for adaptation to climate change. But, due to lack of proper research, the contribution of organic agriculture for climate change adaptation and mitigation is yet to be known. It is argued that organic agriculture positively contributes to offset negative impacts of climate change, but there is inadequate systematic data to substantiate this fact.

**Key words :** Adaptation, Climate change, Greenhouse gases mitigation, Organic agriculture

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