

# To Study Green Technology in Sustainable Agriculture

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**Abstract:** *Since the production, distribution, and consumption of food are all very carbon-intensive and generate massive amounts of fossil fuels that eventually find their way into the atmosphere and accelerate global warming, agriculture is one of the main causes of environmental deterioration in the modern world. It is now more crucial than ever to concentrate on the greatest green agricultural technology possible due to the growing population and rising living standards.*

*Integrated pest management, drones, fleet management, organic farming, vertical farming, zero tillage, biotechnology, renewable energy, irrigation, and digital sensors are some of the leading green technologies and practices that are making farming more ecologically sustainable.*

*This research paper explores the significant role of green technology in promoting sustainability in agriculture. It discusses various green technologies and their applications in agriculture, highlighting their potential to reduce environmental impacts, enhance productivity, and ensure long-term food security.*

**Keywords:** Green technology, Types of green technology, Advantages of green technology to achieve sustainable agriculture, Disadvantages of green technology to achieve sustainable agriculture, Impact of green technology to achieve sustainable agriculture

## REFERENCES

- [1]. Green Technologies and Techniques In Agriculture -Written by Rob Wreglesworth [https://innovate-eco.com/11-green-technologies-and-techniques-in-agriculture/#google\\_vignette](https://innovate-eco.com/11-green-technologies-and-techniques-in-agriculture/#google_vignette)
- [2]. Amazing Green Technologies Improving Agricultural Practices - <https://globe-net.com/7-amazing-green-technologies-improving-agricultural-practices/>
- [3]. Sustainable Farming Technologies That Make an Impact- by Paula Golka
- [4]. <https://www.transformationholdings.com/agriculture/5-sustainable-farming-technologies/>
- [5]. Green Technology and Sustainable Farming- By Ahsen Soomro - [https://www.environmentbuddy.com/farming/green-technology-and-sustainable-farming/#google\\_vignette](https://www.environmentbuddy.com/farming/green-technology-and-sustainable-farming/#google_vignette)
- [6]. TOP 10 Benefits Of Green Technology- by Simon - <https://sustainability-success.com/benefits-of-green-technology/>
- [7]. How does technology revive sustainable agriculture?- By Madhu Kesavan - <https://www.w2ssolutions.com/blog/technology-in-sustainable-agriculture/>
- [8]. ADVANTAGES OF GREEN TECHNOLOGY- By Ghanshyam Das Soni- [https://www.granthaalayahpublication.org/journals/index.php/granthaalayah/article/view/IJRG15\\_S09\\_32](https://www.granthaalayahpublication.org/journals/index.php/granthaalayah/article/view/IJRG15_S09_32)
- [9]. The benefits of sustainable agriculture and how we get there - <https://www.ibm.com/blog/the-benefits-of-sustainable-agriculture-and-how-we-get-there/>