

GREEN TECHNOLOGY IN AGRICULTURE

RUPESH AND AJAYSAROHA

M.Sc. Horticulture (Fruit Science), Lovely Professional University Phagwara (Jalandhar), Punjab

ARTICLE ID: 089

Abstract: Agriculture sector is one of the largest contributors to Environmental deterioration today- the production, transportation and consumption of food is extremely carbon intensive and produces immense amount of fossil fuels which end up in our atmosphere, accelerating global warming. The green technology is a broad term for more environmentally friendly solutions. GT for that matter can be used as environmental healing technology that reduces environmental damages created by the product and technologies for people's comfort. The GT is the way for conserving natural environment and prudent use of resources. GT can operate in diversified areas such as bio-fuel, eco forestry, renewable energy and solid waste management.

Keywords: *Environment, Global warming, Green Technology*

Introduction: GT sometimes known as clean technology works to reduce negative impacts of humans on the environment and when implemented correctly, these will support the human population on earth sustainably and give future generation successful agricultural techniques to continue using.

The Top green technologies and techniques helping to make farming more environmentally sustainable are:

1. Renewable Energy

2. Zero Tillage

3. Biotechnology

4. Organic Farming

5. Vertical Farming

6. Irrigation

7. IPM

8. Drones

9. Farming Robots

10. Fleet Management

11. Digital Sensors

Why Green Technology?

1. We need GT because at the end we are going to run out of fossil fuel and we are going to need to find out an alternative. This alternative is GT. If we fail to adopt GT then we will be left with no alternatives.

2. Almost 70% of Indian population depends on agriculture sector, which is one of the energy intensive sector. Agriculture consumes about 35% of the total power generated through electricity operated pump set. It is expected that about 30% of the saving is possible through appropriate technology and GT can be one of them.

Highlights:

www.justagriculture.in



1. It is clean so it does not emit any detrimental substance into the air which has an impact on the environment.
2. It is renewable which means we will never run out of it, unlike oil which is expected to dry up in a decade or so.
3. It requires less maintenance so you don't have to shell out a lot of money to operate it.

Conclusion:

1. The reality is it won't be one single technology that will save the planet from environmental destruction, it will be series of new green technologies sometimes mixed in with a return to some more traditional techniques such as renewable energy and organic farming.
2. When used correctly agro-environment –friendly technologies promotes sustainable agricultural growth and reduce widening rural- urban income disparities.
3. GT minimizes environmental hazards and make farmers productive through enhanced efficiency.

Reference:

1. <http://www.ers.usda.gov/publications/aib752/aib752d.pdf>
2. <http://www.un-csam.org> Green Technology for sustainable agriculture development.
3. Green Technology useful for rural sector-Slide Share.
4. <http://innovate-eco.com> 11. Green Technologies and Techniques in Agriculture-Innovate Eco.