

Application of Solar Energy in Sustainable Agriculture in Soil-borne Pathogens Management

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Recent global climate changes due to human activities on misuse of fossil energy, deforestation and greenhouse effects have caused global warming and environmental changes and consequently air pollution and unsustainability in agriculture. At present time, gas, oil and charcoal are the main sources of energy which their misuses are responsible partially to global warming and air pollution which must be reduced and replaced to some extent by renewable energy like wind power and solar energy. Use of renewable energy is environmentally safe, very low cost and accessible in remote rural and wild life locations to generate electricity and heat. This review updates the use of renewable energy emphasizing on solar energy in agriculture for soil disinfestations from pathogen, pests and weeds under field and greenhouse conditions. For economical application of renewable energy in sustainable agriculture there is great need on research and technology.

Keywords: Climate change, Greenhouse sterilization, Renewable energy, Soil solarization, Wind energy.

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