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This solar-powered IoT-based irrigation system was developed for smart irrigation in the vegetable crop field to minimize water loss, provide better user experience and to protect ...

The project aims to develop a sustainable smart irrigation system (SIS) for the indoor plant irrigation by integrating photovoltaic ...

Smart irrigation leverages data from sensors and weather forecasts to provide precise watering, saving resources and improving crop health. Integrating solar power with AI ...

Therefore, the study aims to advance sustainable urban agriculture by designing and evaluating a solar-powered smart rooftop irrigation system for peppermint cultivation. The ...

This research focuses on developing an intelligent irrigation solution for agricultural systems utilising solar photovoltaic-thermal (PVT) energy applications. This solution integrates ...

Discover how solar-powered irrigation is revolutionising farming cutting costs, saving water, and driving sustainability through smart tech.

The review extensively covers previous PV-irrigation integration systems, their performance in varied environments, and the cost-benefit analysis with special reference to ...

The convergence of artificial intelligence (AI) with solar-powered smart irrigation offers a transformative solution to global agricultural challenges, enabling improved water ...

The use of IoT technology in irrigation systems plays a crucial role in agriculture by enabling precise monitoring and control of water resources. This paper pr.

Smart irrigation system (SIS) offers various benefits such as enhanced air quality and visual appeal. It relies on advanced technologies like sensors and timers to ensure precise and ...

The project aims to develop a sustainable smart irrigation system (SIS) for the indoor plant irrigation by integrating photovoltaic (PV), internet of things (IoT), and rainwater ...

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