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## Solar-Powered Smart IrrigationMonitoring System Using IoT

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Abstract: Water and food are the basic necessities of human being to survive life. Along with several environmental concerns and climate change, water scarcity and food security are growing concern in today's society. Water irrigation remains the biggest water usage globally and creates a lot of water wastage. With the advancement of technologies nowadays, several strategies are developed in order to minimize the negative impacts on the environment. Using renewable resources and IoT technology, it can generate a sustainable and responsible conservation system over time. Today the farmers are finding it difficult to monitor the field about its moisture content and temperature of the field. Hence the project is created for monitoring the farm lands using the concept of Internet of Things and Image processing.

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**Keywords:** Internet of Things, renewable resource, Irrigation.

