

"This project has the opportunity to address both issues of achieving energy security and overcoming agricultural challenges in a land-stressed country like Sri Lanka," said Professor Janaka Ekanayake, Senior Professor from the Department of Electrical and Electronic Engineering at the University of Peradeniya.

A feasibility analysis for generating Photovoltaic Solar Electricity from agricultural areas as a sustainable solution for the increasing power demand in Sri Lanka. PV solar panels will be installed above the existing cultivated areas while maintaining spaces among rows of PV solar panels to provide the required solar radiation for the crops.

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The use of shading (PV panels) requires more crop-specific research to determine the optimum percentage of panels and their arrangement that do not reduce agricultural production.

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Pv agriculture Sri Lanka

Agri-voltaic systems have been predicted to increase global land productivity by 35-73% [21], and increase the value of the energy production system by 30% [22]. Application to Sri Lanka Sri Lanka is an upper-middle-income earning country. Approximately 21.67 million people live in a total area of 65,610 km².

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The increasing demand for food and energy in Sri Lanka, coupled with the challenges of fossil fuel-based electricity, highlights the importance of renewable energy. Photovoltaic systems offer a promising solution, given the country's abundant solar resources.

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The Asian Development Bank (ADB) together with the Sri Lanka Sustainable Energy Authority (SEA), the Tea Smallholders Development Authority (TSHDA), the University of Peradeniya and Hayleys Solar inaugurated Sri Lanka's first-ever semi-transparent Solar PV-powered Agrivoltaics Demonstration Project.

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