



LLSE CONTAINERS

# Thimphu solar Container Agriculture





## Overview

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Can agrivoltaics transform Thailand's energy and agricultural sectors?

Enter agrivoltaics—a dual-use approach that integrates solar panels with agricultural activities. This blog explores how Thailand can harness agrivoltaics to transform its energy and agricultural sectors, drawing insights from a recent study by the project CASE and School of Renewable Energy and Smart Grid Technology (SGtech), Naresuan University.

What are the challenges faced by agrivoltaics in Thailand?

While Thailand has policies supporting renewable energy (e.g., the Alternative Energy Development Plan) and sustainable agriculture, agrivoltaics lacks a dedicated regulatory framework. Key challenges include: Land Use Conflicts: Agricultural land zoning prohibits non-farming activities without permits.

Why should you lease land for solar panels in Thailand?

Leasing land for solar installations provides financial stability, especially in regions with low agricultural yields. Solar panels mitigate heat stress on crops, conserve soil moisture, and reduce reliance on fossil fuels. Supports Thailand's pledge to achieve 50% renewable energy by 2030 and net-zero emissions by 2065.

Can Thailand create a tropical agrivoltaics model?

**Community Buy-In:** Farmers and rural communities must be central to project design and benefits. By blending these global insights with Thailand's agricultural strengths, the country can pioneer a tropical agrivoltaics model that boosts food security, cuts emissions, and empowers rural economies.



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