



# Good Field Solar Power Generation





## Overview

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The Solar Energy Technologies Office (SETO) is researching the opportunities and trade-offs of agrivoltaics. This guide helps answer some questions that farmers may have about going solar and agrivoltaics. What are the benefits of co-locating solar and crop production?

. Two “agri-dreamers” believe agrivoltaics promise a highly profitable harvest for many North American farmers and ranchers. Joshua Pearce and Ethan Winter lead efforts to understand the impact and encourage large-scale solar power generation on farmland. Agrivoltaics, a relatively new term, unites. NREL researcher Jordan Macknick works with teams from University of Massachusetts (UMass) Clean Energy Extension and Hyperion on a photovoltaic dual-use research project at the UMass Crop Animal Research and Education Center in South Deerfield, MA. Photo by Dennis Schroeder / NREL. AgriSolar. Just south of Longmont, Colorado, in the sun-drenched foothills of the Front Range, is a small but bustling family-owned farm., the Department of Energy predicts that. Using solar energy can have a positive, indirect effect on the environment when solar energy replaces or reduces the use of other energy sources that have larger effects on the environment. (Purdue Agricultural Communications/Joshua Clark) WEST LAFAYETTE, Ind.



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### [Expansion of Large-Scale Solar Power Generation on Farmland Is ...](#)

Joshua Pearce and Ethan Winter lead efforts to understand the impact and encourage large-scale solar power generation on farmland. Agrivoltaics, a relatively new term, unites cropping ...

### Solar energy and the environment

Solar energy technologies and power plants do not produce air pollution or greenhouse gases when operating. Using solar energy can have a positive, indirect effect on the environment when solar ...



### [Solar power occupies a lot of space - here's how to make it more](#)

A growing alternative to using land solely for solar power generation is called agrivoltaics. As its name suggests, this strategy combines agriculture and solar power on the same piece of



### [Agrivoltaic farms grow both solar power and food in ...](#)

Two agrivoltaic test farms in Colorado are showing how solar farming and food production can coexist.



### [Validated simulations optimize solar power generation with row crops](#)

-- A Purdue University research team has demonstrated how to optimize yield in corn fields equipped with solar power arrays that throughout the day cast dynamic shadows across ...



### [Eco-Friendly Farming: How Solar Power Can Boost Sustainable ...](#)

Agrovoltatics--the practice of combining agriculture with solar power generation on the same land--is another promising innovation for modern farming. By installing solar panels above ...



### **Large-scale Ohio Research Project to Explore how Solar and Farming ...**

The range of technologies includes remote sensing of field conditions with drones, in-ground sensors, automated weeders and more. The big question is which precision agriculture ...



### [What is good for solar power generation? .. NenPower](#)



Solar power generation is optimized by various factors, including 1. location suitability, 2. technology selection, 3. maintenance frequency, 4. environmental conditions. A detailed examination ...

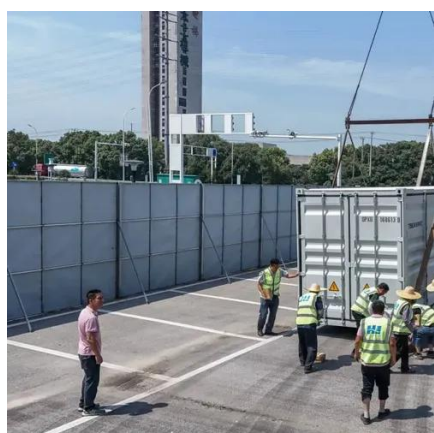


[Farmer's Guide to Going Solar , Department of Energy](#)

If you are an agricultural land owner and are considering your options to go solar, here are some resources to help you decide what's best for you.

[Expansion of Large-Scale Solar Power Generation on ...](#)

Joshua Pearce and Ethan Winter lead efforts to understand the ...



[How to expand solar power without using precious land , PNAS](#)

Solar power can be a land-hungry competitor to farming. But deployed in the right way, solar installations can boost crop yields, save water, and protect biodiversity.



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