

Solar panels on the field





Overview

What are solar panels & how do they work?

These panels generate electricity while simultaneously allowing crops to grow underneath. The solar panels provide partial shade to the crops, which can improve resilience to extreme weather, reduce water needs, and boost crop yields in some cases. PV Modules aren't just energy generators—they're microclimate managers.

How can farmers benefit from solar energy?

Farmers can benefit from solar energy in several ways—by leasing farmland for solar; installing a solar system on a house, barn, or other building; or through agrivoltaics. Agrivoltaics is defined as agriculture, such as crop production, livestock grazing, and pollinator habitat, located underneath solar panels and/or between rows of solar panels.

Should solar panels be integrated with crops?

By integrating solar panels with crops, these systems not only address the land use conflict between agriculture and energy production, but they also provide important benefits such as reducing crop water stress and offering protection against extreme weather events.

How do agrivoltaic solar panels work?

(Let's Get Technical!) In agrivoltaics, solar panels are typically mounted on structures above crops or grazing areas. These panels generate electricity while simultaneously allowing crops to grow underneath.



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