

# Wheat planting under photovoltaic panels



## Overview

---

Wheat and grass-clover grown between the vertical panels produced nearly the same yield as crops in open fields. Because the panels only cover about 10% of the field, farming. Since 2022, the farm of Sylvain Raison, a farmer in Haute-Saône, has integrated an agrivoltaic canopy system. Agrivoltaic farming is the practice of using land for both agriculture and solar energy production. It works by placing solar panels high above crops.

## Wheat planting under photovoltaic panels

---



### **Agrivoltaics Farming , Can You Grow Crops Under Solar Panels**

Discover how agrivoltaics combines solar energy and agriculture. Learn how you can grow crops under solar panels. See if this innovative farming method is right for you.

---

### **The Rise of Agrivoltaics: Can Solar Farming Be the Key to Sustainable**

The project demonstrated that crops grown under the panels showed equal or even higher yields compared to those in open fields, particularly in seasons with extreme heat.



---

### **Why Farmers Are Shielding Their Crops With Solar Panels**

Surprisingly, this is wrong. Each plant has an optimal amount of sunlight that depends on many factors, and it turns out that full sunlight is too much for many of them.

---

### **Farming under solar panels: The promise of agrivoltaics in the fight**

By combining real-world data on sunlight and temperature with detailed models, they compared the performance of organic semiconductor-based photovoltaics to traditional silicon-based photovoltaics.



### **Wheat grows better in agrivoltaic facilities**

Researchers in Italy have conducted a series of experiments to assess the quality of wheat growing under elevated agrivoltaic systems. They have found that it has greater nutritional value for

### **Wheat and watts: How vertical solar panels let farmers harvest twice**

Wheat and grass-clover grown between the vertical panels produced nearly the same yield as crops in open fields. The plants weren't harmed by the shade; in fact, they benefited from reduced



### **Largest Farm to Grow Crops Under Solar Panels Proves To Be A ...**

Agrivoltaics is the combined use of solar panels and agriculture under the panels that together use less energy and produce more crops. It can also provide

shade for livestock.



### **Agrivoltaics and arable farming: growing wheat under the canopy**

On three hectares covered by mobile photovoltaic panels, the farmer chose to grow wheat. This installation, perfectly adapted to field crops, offers promising agronomic results.



### **Agrivoltaic opportunities: Grow crops in solar energy systems**

The reality is that crops can be grown underneath and in proximity to solar panels. Examples of these crops are listed below. Note that this is not an exhaustive list. Oats, potatoes, winter wheat. Wheat ...

### **Influence of agrivoltaic system-induced microclimate modifications on**

This study investigates the impact of photovoltaic panels (PVPs) on

microclimate and wheat production under varying shading conditions during the rabi seasons of 2017-18 and 2018-19.



---

## Contact Us

For catalog requests, pricing, or partnerships, please visit:  
<https://www.scelto.co.za>

