

**PIENAAR ENERGY (PTY) LTD**

# Can I plant sorghum under photovoltaic panels



IP65/IP55 OUTDOOR CABINET

IP54/55

OUTDOOR ENERGY STORAGE CABINET

OUTDOOR BATTERY CABINET



## Overview

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Researchers at the University of Illinois Urbana-Champaign found that shading from agrivoltaic systems reduces grain numbers in both sorghum and soybean, but sorghum can partially compensate by increasing grain weight while soybean cannot. Scientists have found that certain crops can grow remarkably well in the shade of solar panels, potentially allowing us to grow food and generate clean energy simultaneously. Growing food alongside solar arrays in an agrivoltaic system can help maximize the productivity of a given plot of land. Agrivoltaic farming is the practice of using land for both agriculture and solar energy production. To achieve. What would you think if vegetables, wheat and small fruit could be grown in a solar project in your township?

This scenario could happen in Michigan if we think about agriculture and solar photovoltaic technologies on the same land in novel configurations (Figure 1). Thinking this way requires a.

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### **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, ...

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### **Researchers make revolutionary discovery about key crops grown ...**

Even though both of the shaded crops produced lower grain numbers than the full-sun controls, sorghum was able to partially offset the yield penalty by increasing the weight of each grain, ...



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### **What Can You Grow with Agrivoltaics? A Guide to Crops for Dual-Use**

Cover Crops: Legumes such as clover and vetch can be planted as cover crops in agrivoltaic systems. These plants are used to improve soil health and prevent erosion. Their ability to ...

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## Study: Certain Crops Can Thrive Beneath Solar Panels -- How To ...

Researchers measured grain production under shaded conditions created by solar panels and compared it with plants grown in full sunlight. Both shaded crops produced fewer grains than the ...

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## Agrivoltaics: Which Crops Thrive Under Solar Panels?

You can put whatever you want under solar panels as long as it does not affect the airflow underneath or damage the panels in any way. Farms can successfully grow crops under solar panels ...

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

Those solar panels can be raised high enough for tractors and farmworkers to easily pass underneath for all the usual tasks like weeding, pruning, and harvesting. So, can you really grow plants under ...

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## Shading impacts on sorghum and soybean grain yields in agrivoltaics



Overall, there was no difference in plant height of sorghum between full sun and shaded environments in the 2024 growing season, while sorghum was slightly taller under PV panels during ...

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## Agrivoltaics - Growing Under Solar Panels , Weekly Crop Update

Several projects across the country are researching the synergistic benefits of co-locating photovoltaic arrays on vegetable and fruit farms. Potential benefits to the crops will derive from lower ...

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## Agrivoltaics for sorghum and soybeans - pv magazine USA

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