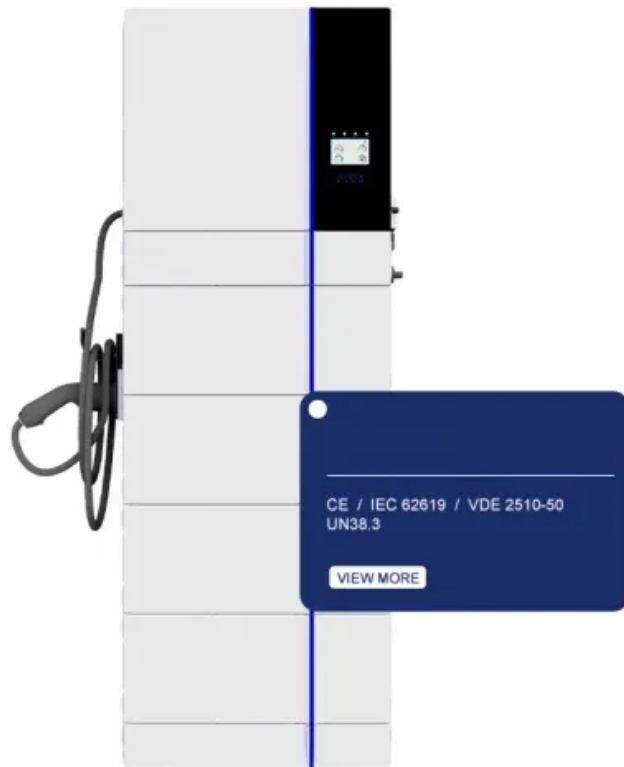


**PIENAAR ENERGY (PTY) LTD**

# Planting citrus under photovoltaic panels



## Overview

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This review examines three key agrivoltaic setups—static tilted, full-sun tracking, and agronomic tracking—dissecting their engineering features' roles in optimizing both the electricity yield and the fruit productivity of some fruit crops. Picture this: rows of sun-kissed citrus trees stretching beneath a canopy of gleaming photovoltaic panels. It sounds like a utopian vision from a climate-conscious future, but farmers from Florida to Sicily are literally planting this future today. The big question isn't whether we can grow citrus. Objective: to determine if the combination of photovoltaic energy and citrus is technically, agronomically and economically viable in the medium and long term. Combining solar panels and mandarin trees on the same plot It's no longer a futuristic idea, but a reality being tested in Lliria. As the world seeks alternatives to fossil fuels, agrivoltaics offer a promising solution by integrating solar panels with farming practices. Crops can thrive under solar panels since they protect from the harsh sun. An amazing, ancient fruit! From the outside, you would be forgiven for thinking that they looked like a large, kind of bumpy lemon. That's the because the citron has an.

## Planting citrus under photovoltaic panels

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### Saving crops and generating solar power at the same time

Farmers couldn't make enough money growing it. But now some farmers, like Antonio Lancellotta of Scalea in southern Italy, are helping to save the fruit by growing new orchards.

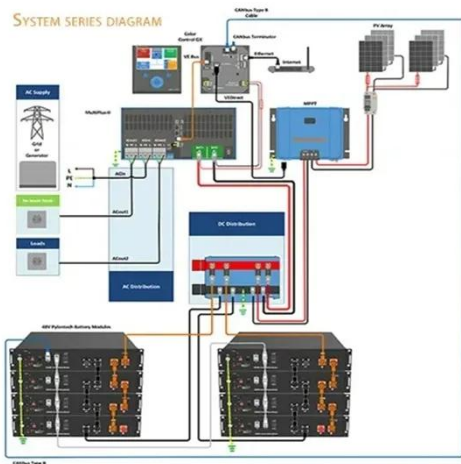
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## Can citrus be grown under photovoltaic panels

Now, with growing demand for clean energy but a paucity of empty land, researchers are exploring how to grow crops under raised solar panels (photovoltaics) instead of trees.



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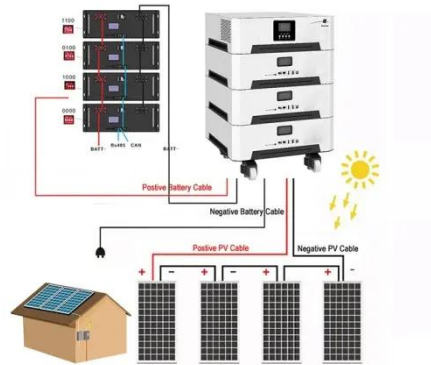
### Can Citrus Trees Thrive Under Photovoltaic Panels? The Surprising

The big question isn't whether we can grow citrus under solar panels - we've got tractors that fit through panel rows and irrigation systems that dance around steel posts.

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## Best Fruit Trees to Grow Under Solar Panels: A 2025 Guide for

You know how solar farms often leave acres of unused land beneath panels? Well, what if that space could produce juicy peaches and clean energy simultaneously? Welcome to agrivoltaics - the game ...



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 LFP 280Ah C&I

## Italian growers turn to solar energy to boost lemon harvest

Crops are grown underneath solar panels, giving farmers two sources of income: the fruits of their harvest and selling electricity generated by the panels. As extreme heat scorched the ...

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## Agrivoltaic plant among mandarin trees: the Lliria experiment

Discover how the first agrivoltaic plant among mandarin trees in Lliria works and what impact it may have on the future of citrus fruits.

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## Agrivoltaics: Which Crops Thrive Under Solar Panels?

Most leafy greens are suitable for growing under solar panels, as are



vegetables such as tomatoes, beets, radishes, peppers, and more. Fruit trees, bushes, and grapevines also do very well

...

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## Planting citrus under photovoltaic panels

The citron of southern Italy had almost died out from extreme weather and lack of economic value. But growing the crop under solar panels revolutionised the way the fruit is farmed.

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## Fruit Crop Species with Agrivoltaic Systems: A Critical Review

Starting from this point, this review underscores the need to extend studies on various fruit crops, particularly those cultivated in semi-arid horticultural regions (i.e., for saving water), and ...

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## The Italian farmers saving an ancient fruit with solar power

The citron of southern Italy had almost

died out from extreme weather and lack of economic value. But growing the crop under solar panels revolutionised the way the fruit is farmed.

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