

**PIENAAR ENERGY (PTY) LTD**

# **Can corn be used to generate solar power**



## Overview

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A new study described in Anthropocene this month shows that it would require about 31 hectares' worth of corn ethanol to produce the same amount of energy generated by one hectare of land covered in solar panels. A new study conducted by Matthew A. Sturchio, Adam Gallaher, and Steven Grodsky of Cornell University explores the relationship between devoting arable land to growing corn or using it for creating solar energy. Let the best of Anthropocene come to you. Solar energy expansion is often viewed as a threat to US food security. And yet roughly 12 million. In the past, some corn in the Southeast has been grown for ethanol, although the closing of an ethanol producing plant in Camilla GA in 2020 reduced the market for this. 2% of land used for corn-ethanol crops could significantly boost energy output, plus financial resiliency for farmers.

## Can corn be used to generate solar power

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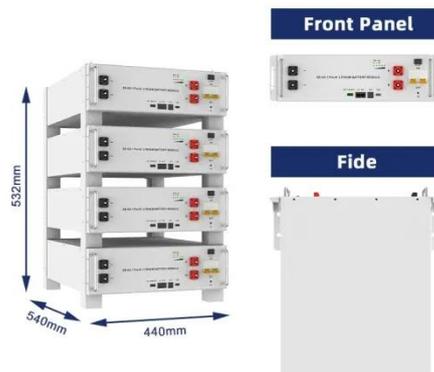
### Should Farmers Plant Solar Panels or Corn? - Energy Institute Blog

Generating that much electricity from solar farms would require only 20% of current corn acres. The realistic ceiling for solar generation is much lower than that. Thus, we should expect more ...

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### Study looks at if US farmland is better used for corn ethanol or solar

Each year, about 90 million acres of corn are planted in the U.S. Approximately 40% of it helps make ethanol, a key ingredient in gasoline. However, a recent study examines whether ...



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### There Is One Clear Winner In The Corn Vs. Solar Battle

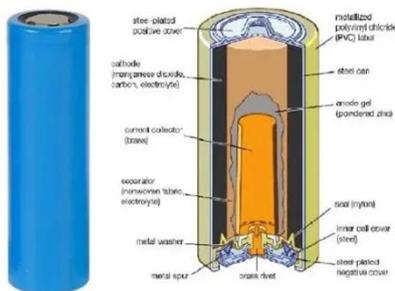
Researchers claim putting solar on less than 4 percent of farmland used to grow corn for ethanol would benefit everyone, especially farmers.

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## When it Comes to Land Use, Solar Power Outshines Corn

A recent study published in Proceedings of the National Academy of Sciences and featured in Anthropocene Magazine delivers a compelling message: when it comes to using land to ...

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## New study compares growing corn for energy to solar production. It's ...

A new study described in Anthropocene this month shows that it would require about 31 hectares' worth of corn ethanol to produce the same amount of energy generated by one hectare of ...

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## America's Cornfields Could Power the Future--With Solar Panels

By replacing just a sliver of the land used to grow corn for ethanol with solar panels, scientists say, the United States could dramatically boost its renewable energy production while

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## Corn grows with solar panels in new study



In an innovative study from Purdue University, researchers are examining the potential for corn, a crop previously thought to be shade-intolerant, to coexist with solar panel arrays.

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## What's more efficient: Growing corn for energy or solar?

New study compares growing corn for energy to solar production. It's no contest. In fact, it would require about 31 hectares of corn ethanol to produce the same amount of energy generated by ...

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## Solar Energy Boost Could Come From Corn-Ethanol Land

In a paper published April 21 in the Proceedings of the National Academy of Sciences, researchers found that putting solar facilities on just 3.2% of land currently used for corn-ethanol ...

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## Corn or solar: one victor emerges

The researchers argue that converting just a minuscule portion of corn-for-

ethanol farmland into solar farms could significantly boost the United States' solar energy capacity while ...

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