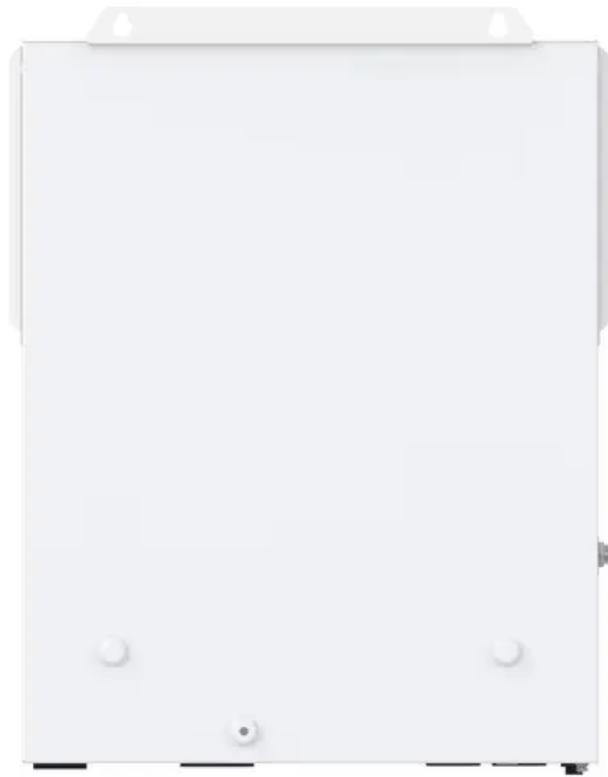


## **PEES Power Systems**

# **Photovoltaic panels can herd sheep**



## Overview

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It may seem an unlikely mission for clean-energy developers, but in many states, including Illinois, grazing sheep between rows of photovoltaic panels is considered the most efficient form of agrivoltaics — the combination of solar and farming on the same land. In a groundbreaking study that combines renewable energy with traditional farming practices, researchers have observed remarkable changes in 1,700 sheep grazing amidst solar panels. This innovative approach, known as agrivoltaics, is revolutionizing how we think about land use while yielding. Western professor Joshua Pearce collaborated with professional shepherd Rafael Lara on a study that shows the profitability of “solar” sheep, raised specifically to trim grass and weeds under traditional solar panels or agrivoltaic arrays. Lara, who studied animal science at Universidade de São. The agrivoltaics practice of raising sheep under solar panels is a win-win for Illinois farmers — but first the market for lamb meat needs to grow. Sheep graze among solar panels in Illinois. “Solar is inexpensive, it's easy to put almost anywhere, and it makes an ideal place where agricultures can also thrive if you plan early in the design and layout phase,” he says. It preserves agricultural land, reduces costs and benefits both farmers and energy companies.

## Photovoltaic panels can herd sheep

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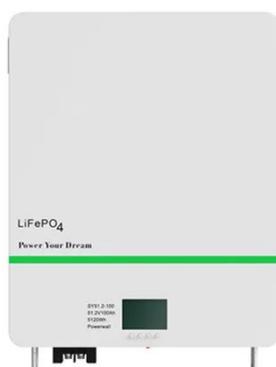
### Sheep and Solar: A Perfect Match , PBS North Carolina

Sheep eat bright green, cool-weather grasses that flourish under the solar panels in the summer. Meanwhile, warm-season grasses that thrived between the panels in the summer take on a ...

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### Agrivoltaics for small ruminants: A review

The farming of ruminants, especially sheep, is particularly suited for agrivoltaics in that little modification of the infrastructure is required to accommodate sheep grazing beneath and ...



### Illinois farmers find that sheep and solar arrays go well together

It may seem an unlikely mission for clean-energy developers, but in many states, including Illinois, grazing sheep between rows of photovoltaic panels is considered the most efficient ...

## How solar and sheep can support each other

New study finds the combination of solar panels and sheep grazing is a success. Innovative methods in agrivoltaics are finding ways to integrate solar into agricultural lands, while ...



## 1,700 sheep installed between solar panels, a surprising change

In a groundbreaking study that combines renewable energy with traditional farming practices, researchers have observed remarkable changes in 1,700 sheep grazing amidst solar panels.

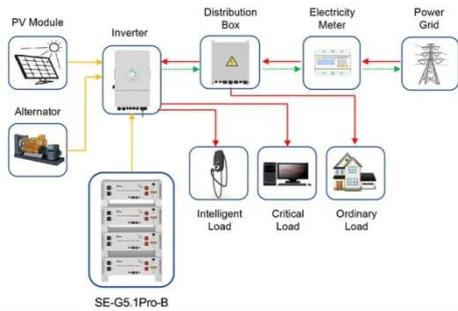
## Why Solar Panels and Sheep are Perfect Together

A single sheep can eat up to four pounds of grass per day and can easily fit underneath the solar panels to nibble up weeds that grow in hard-to-reach areas. Sheep grazing reduces carbon emissions, ...



## Solar grazing: Sheep manage vegetation at solar ...

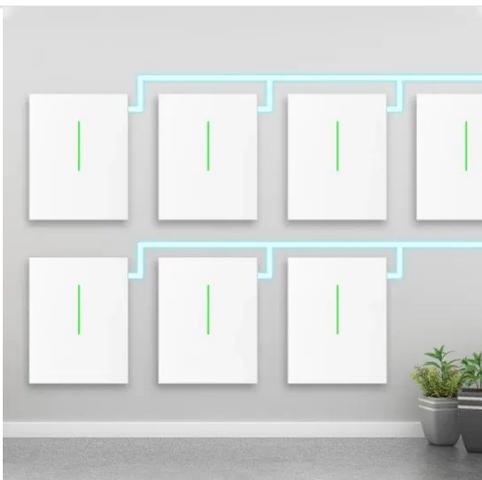
Learn how solar grazing with sheep is revolutionizing vegetation management at solar farms while preserving agricultural land.



Application scenarios of energy storage battery products

## Scientists let 1700 sheep roam through solar panels--what they

It's not every day you see thousands of sheep wandering between rows of gleaming solar panels, but that's exactly what happened at a sprawling site in New South Wales, Australia.



## Solar shepherding: the surprising union between sheep and ...

A study published in 2022 in 'Applied Animal Behaviour Science' found that sheep with access to solar panels spend more time grazing than those without them, due to the shade provided ...

## Grazing 'solar' sheep offer lucrative solution for farmers, Western

New Western study shows using sheep on solar farms is lucrative for farmers and offers a promising path forward to augment agriculture with solar technology.



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