

## Solar Energy South Africa

# Patent for sheep breeding under photovoltaic panels



## Overview

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Can agrivoltaics help grazing sheep in commercial solar farms?

A key conclusion from the study is that agrivoltaics, in this case sheep grazing in commercial solar farms, provides mutual benefits for both sheep grazer and solar farm operator. As the operator at one farm said: “I don’t charge the sheep grazer agistment and he doesn’t charge me for keeping the grass mown.”.

Can sheep be used in a solar park?

Although they have had to adapt their sheep system to fit into the solar park, it is an arrangement that works well, says Mrs Morgan, who explains that the sheep are used as “lawn mowers” to manage grass while producing lambs. See also: Business Clinic: How would solar lease affect IHT reliefs?

Fenton Home Farm, near Haverfordwest, Pembrokeshire.

Are solar panels good for twin lambs?

Figure 2. Mortality rate for twin lambs May to August 2022 for a solar farm in northern Victoria, calculated from weather data recorded at the site by a model accepted by the sheep industry. Shade from the panels also provides lower summer temperatures that sheep may seek out during the middle of the day.

Why do ewes use solar panels?

The panels have the added benefit of providing shade from the hot sun and shelter for the young lambs when weather conditions are challenging. The solar land is mostly rested for three months from November. There is other land the flock can use, and some ewes are sent away to tack grazing for those months.

How many sheep are in a solar park?

The solar park is stocked at 12 sheep/ha in the summer. This drops to 5/ha over the winter months. It took a while for the sheep to adjust to the panels. “We recently bought in 75 ewe lamb replacements and once we had finished quarantining them, we ran them with the ewes so they would adapt to the different environment,” explains Mrs Morgan.

Should solar panels be adapted to a specific crop species?

It would also be interesting to design solar panels adapted to the specific needs of certain crop species, allowing the passage of light frequencies beneficial for plant growth and capturing those frequencies that crops do not use .

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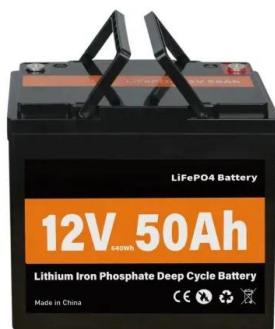
### Solar Sheep and Voltaic Veggies: Uniting Solar Power

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An additional solar and agriculture co-location technique is to keep a herd of sheep or other livestock within the enclosure of a ground-mounted PV system to help control vegetation height. Doing so can significantly reduce ...

### Agrivoltaics - Sheep grazing in solar farms; good for both

Sheep seeking shade under panels in February 2022. The above is a snap-shot of the study findings, which have been submitted to a peer-reviewed journal. A key conclusion from the study is that agrivoltaics, in this ...



### Grass planting and sheep raising method under photovoltaic ...

A photovoltaic solar energy and solar panel technology, applied in the agricultural field, can solve the problems of unfavorable agricultural mechanization operation, unfavorable agricultural ...

### "DOLLY THE SHEEP" PATENT-ELIGIBILITY: WHY THE SUPREME ...

denial of the Roslin Institute claims based upon anticipation under 35 USC § 102. But, the panel refrained from touching anticipation as basis for affirmance but instead created it own analysis ...

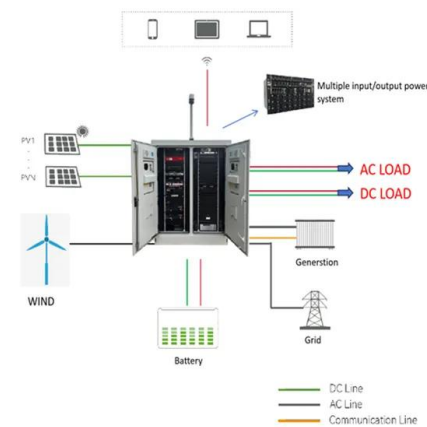


## Mixing sheep grazing with solar farms yields major ...

Combining solar farms and sheep grazing pasture in the same area could massively increase land productivity, a study has found. Oregon State University scientists compared lamb growth and pasture production in ...

## Agrivoltaics Explained: Farming With Solar Panels (And ...

The panels work more efficiently, and the crops stay healthier--a win-win. Solar grazing. Another form of agrivoltaics is called solar grazing. The solar panels are installed on pastures, and animals--usually ...



## Integration of Crops, Livestock, and Solar Panels: A ...

AV systems not only generate energy but also allow agricultural and livestock yields to be maintained or even increased under PV structures, offering a sustainable production strategy that may be more acceptable to ...

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