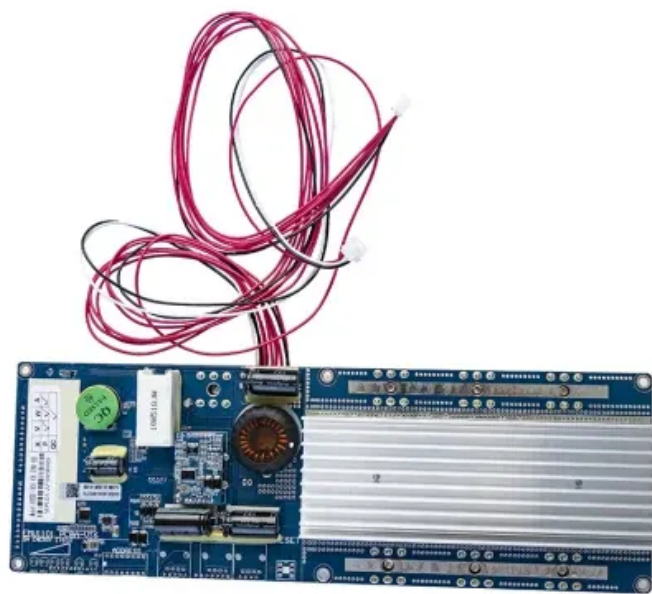


# National Rural Photovoltaic Panels



## Overview

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The United States Large-Scale Solar Photovoltaic Database (USPVDB) provides the locations and array boundaries of U.S. photovoltaic (PV) facilities with capacity of 1 megawatt or more. It includes corresponding PV facility information, including panel type, site type, and . Three years ago, when representatives from the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) first started talking with Josie Hart-a farmer and the associate director of Farm Programs for the Denver Botanic Gardens-she could not have imagined what was possible as a farmer . A flock of sheep at Silicon Ranch's Snipesville Ranch project in Jeff Davis County, Georgia, moving from one pasture to another. Department of Agriculture (USDA) and U.S. Sheep grazing is the most popular livestock type. Vegetables and berries are the leading crops. The program provides guaranteed loan financing and grant funding to agricultural producers and rural small businesses for renewable energy systems or to make energy efficiency improvements. Agricultural producers may also apply for new energy efficient equipment and new system loans for . Source: Heath, Garvin, Dwarakanath Ravikumar, Silvana Ovaitt, Leroy Walston, Taylor Curtis, Dev Millstein, Heather Mirletz, Heidi Hartmann, and James McCall.

## National Rural Photovoltaic Panels

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### [Harvesting the Sun-Twice: Agrivoltaics and Rural Land-Use - Energy](#)

Currently, there are several ways solar panels can be installed to complement agricultural activities. Fixed vertical or tilted panels provide partial shading for crops and vegetables, protecting

### **USDA REAP Program for Rural Solar Projects Guide**

With the costs of photovoltaic cell panels and storage batteries falling dramatically in the last decade and renewable energy incentives growing at all levels of government, rural areas now



### **Agrivoltaics - Rural Power Coalition**

Interest in agrivoltaics is growing, as these systems have enormous potential for both the solar energy and agriculture industries. The National Renewable Energy Laboratory (NREL) currently estimates

### [Agrivoltaics: An economic option for farmers and rural development](#)

Studies suggest that converting just 1% of U.S. farmland into agrivoltaics could meet a significant portion of the country's renewable energy goals without sacrificing food production.



### **U.S. Photovoltaic Database**



### **Rural Energy for America Program Renewable Energy Systems**

The program provides guaranteed loan financing and grant funding to agricultural producers and rural small businesses for renewable energy systems or to make energy efficiency improvements.

The U.S. Large-Scale Solar Photovoltaic Database provides the locations and array boundaries of U.S. photovoltaic facilities, with capacity of 1 megawatt or more.



### **Agrivoltaics: Solar Farming for a Greener Future**

We're exploring how Agrivoltaics can help us facilitate the beneficial adoption of renewable energy, save water, and create a sustainable long-term food system.

### **The Use and Potential of Agrivoltaics in the United States**

Agrivoltaics combine the production of crops or livestock with the generation of electricity from solar panels. To date, the number of agrivoltaics projects has been modest, about 600



### [Lighting the Way for Agrivoltaics: How NREL Empowers Communities](#)

With their reflective, smooth glass sheen, stiff metal posts, and electric wiring, you might be surprised to learn that solar fields can be sites of thriving biodiversity, regenerative agriculture,

## **USDA & DOE Solar Energy and Farming Initiatives**

The U.S. Department of Agriculture (USDA) and U.S. Department of Energy (DOE) are working together to support farmers and rural communities make informed decisions about renewable energy. These



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