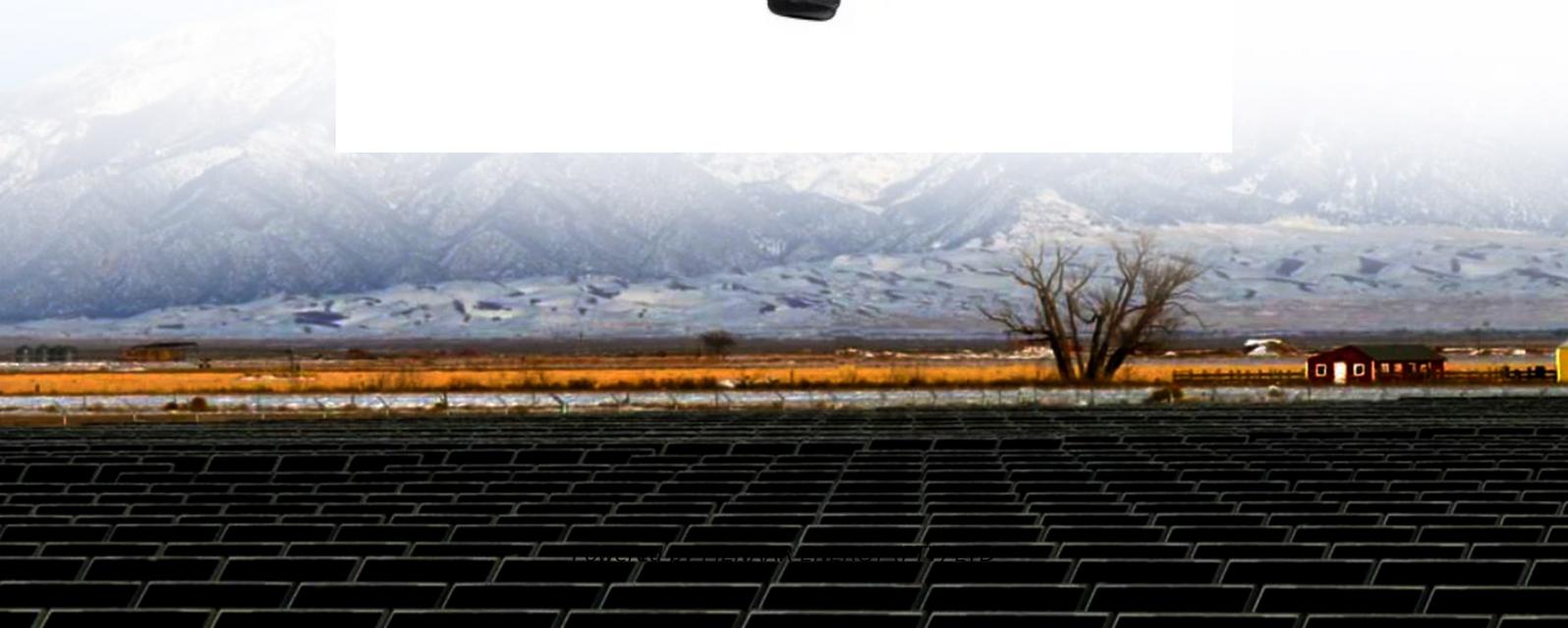


PIENAAR ENERGY (PTY) LTD

Interpretation of the policy on solar power generation for farmers



Overview

While solar installations are not the primary drivers of land-use change in rural areas—low-density development has far outpaced solar utility land use—they have nonetheless attracted significant attention due to their visual prominence on agricultural land, leading to. While solar installations are not the primary drivers of land-use change in rural areas—low-density development has far outpaced solar utility land use—they have nonetheless attracted significant attention due to their visual prominence on agricultural land, leading to. large part by its cost-competitiveness in the marketplace. American Farmland Trust's (AFT) Farms Under Threat 2040 solar modeling projects that, without policy intervention, 83% of new solar development is expected to occur on farmland and rangeland (agricultural land), with almost half on America. Large-scale solar energy installations are a relatively new form of development in many rural areas. Solar energy development can create clean energy, jobs, and other economic benefits in these communities. At the same time, the conversion of agricultural land, which tends to be flat and sunny, to. Agrivoltaics combine the production of crops or livestock with the generation of electricity from solar panels. Sheep grazing is the most popular livestock type. Across the country, solar farms have experienced rapid growth, supported by advancements in technology, cost reductions, and policy initiatives such as state-level renewable portfolio standards and tax credits. As shown in Map 1, roughly 18% of ground-mounted PV facilities in the U. were. Alternative energy sources such as wind, geothermal, hydro and solar have grown increasingly popular as ways to reduce greenhouse gas emissions and strengthen the grid by decentralizing power production. Everyone has a role to play in advancing these.

Interpretation of the policy on solar power generation for farmers



Agrivoltaics: Coming Soon to a Farm Near You?

According to a recent U.S. Department of Energy report, Solar Futures Study, "it is now possible to envision--and chart a path toward--a future where solar provides 40% of the nation's electricity by ...

[Get Price](#)

Smart SolarSM Policy Recommendations

With input from experts and AFT partners, AFT has developed a suite of policy recommendations for all levels of government that will protect farmland, farm viability, rural economies, and agricultural land ...



[Get Price](#)

Harvesting the Sun-Twice: Agrivoltaics and Rural Land-Use

This dual land-use approach allows solar energy production to coexist with farming activities, from crop cultivation to livestock grazing and supporting pollinator habitats.

[Get Price](#)



Designing for dual-use solar: An examination of the agrivoltaic policy

In this perspective, we conduct a policy review of the existing United States federal and state agrivoltaics policy landscape with the objective of establishing an agenda for future research.

[Get Price](#)



The Potential of Agrivoltaics for the U.S. Solar Industry, Farmers, and

Adding farming to existing solar energy sites is being explored as an approach to increase access to land for historically disadvantaged groups, such as Black and immigrant farmers.

[Get Price](#)

Fact sheet: Making the Case for Crops + Solar

When considering the human needs of an operation, protection from the sun and heat can be particularly advantageous.¹⁷ For crops harvested by hand, the shade and microclimates from solar panels ...

[Get Price](#)



Policy Recommendations to

Increase Agrivoltaic Development



Ensure farming can take place within solar arrays for their full life (30-40+ years) and beyond, and that there is value for the farm production component, not just the energy production

[Get Price](#)

The Use and Potential of Agrivoltaics in the United States

Agrivoltaics are the co-location of ground-mounted rows of solar photovoltaic panels to produce electricity together with raising certain types of crops or livestock or providing pollinator ...



[Get Price](#)



Solar Energy Expansion in Rural Communities , Focus on Ag

The U.S. energy system is undergoing rapid development with exploding electricity demand and power generation shifting toward low-carbon, renewable sources. Solar energy is ...

[Get Price](#)

American Farmland Trust makes policy recommendations for agrivoltaics

Solar and farming in the same land area can retain functional use of farmland while adding emissions-free power generation. In the United States, up to 83% of new solar development by 2040

...

[Get Price](#)



Contact Us

For catalog requests, pricing, or partnerships, please visit:
<https://pienaarshof.co.za>

