



# Latest policy on land use for photovoltaic panels

Are utility-scale photovoltaic plants affecting land-use impacts?

Abstract--The rapid deployment of large numbers of utility-scale photovoltaic (PV) plants in the United States, combined with heightened expectations of future deployment, has raised concerns about land requirements and associated land-use impacts.

Can agrivoltaics reduce land-use impacts?

They ain't making any more of it."--Will Rogers and/or Mark Twain o While there are potentially other ways (such as "agrivoltaics") to mitigate the negative land-use impacts of utility-scale PV, the primary way to mitigate the inevitability of rising land costs is to minimize the amount of land needed to generate each MWh of solar energy

How much land area does a photovoltaic need?

We find that conventional photovoltaic will require 0.5 to 1.2% of global land area to meet projected energy demands by 2085 without accounting for climate change effects. When considering climate impacts, this requirement increases to 0.7-1.5% of the global land area.

Are solar energy development projects permitted on BLM-managed public lands?

Solar energy development projects on BLM-managed public lands are authorized as rights-of-way under Title V of the Federal Land Policy and Management Act of 1976, as amended consistent with appropriate BLM land-use plans. Regulations at 43 CFR 2800 identify requirements for solar development application and permitting.

Does land use for solar energy compete with other land uses?

Based on the spatially defined LUE of solar energy, as well as the identified potential for solar energy in urban areas, deserts and dry scrublands, land use for solar energy competes with other land uses through the inherent relative profitability of each land use.

Are solar panels depleting farmlands?

Farmland preservation groups believe 83 percent of new solar installations will come from farm and ranch lands with half of these installations on the richest land for food and crops. Solar energy is depleting farmlands of their rich soils in the U.S. Midwest.

Agrivoltaics - the co-location of solar energy installations and agriculture beneath or between rows of photovoltaic panels - has the potential to help ease this land-use conflict. To address climate change, the Biden-Harris ...

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