



# Photovoltaic panel land use policy

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.

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

Should solar projects be located on public lands?

Additionally, laws enacted in many western states require energy companies to supply a portion of their energy from renewable sources. As a result, the BLM is seeing continued interest by solar developers to locate projects on public lands.

Does solar energy affect land use change?

Although the transition to renewable energies will intensify the global competition for land, the potential impacts driven by solar energy remain unexplored. In this work, the potential solar land requirements and related land use change emissions are computed for the EU, India, Japan and South Korea.

How do utility-scale solar facilities affect land use?

A primary impact of utility-scale solar facilities is the removal of forest or agricultural land from active use. An argument often made by the solar industry is that this preserves the land for future agricultural use, and applicants typically state that the land will be restored to its previous condition.

Can a utility-scale solar facility be used as a land-use permit?

As a land-use application, utility-scale solar facilities are processed as any other land-use permit. Localities use the tools available: the existing comprehensive (general) plan and zoning ordinance. In many cases, however, plans and ordinances do not address this type of use.

In the United States, cities and residences cover about 140 million acres of land. We could supply every kilowatt-hour of our nation's current electricity requirements simply by applying PV to 7% ...

Land use change emissions related to land occupation per kWh of solar energy from 2020 to 2050, for the three solarland management regimes applied (see "Methods" section for more details), and ...

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Expanding rooftop PV could reduce solar land use. Almost 200 GW of rooftop PV are deployed in the decarbonization scenarios by 2050 (10%-20% of total solar deployment). However, the technical potential for ...

Vodapally et al. summarized solar panel integration technology and PV framing to enhance efficiency in PV applications [15]. Zhang et al. assessed solar potential from a spatial ...

o The amount of land occupied by utility -scale PV plants has grown significantly, and will continue to -- raising valid concerns around land requirements and land- use impacts (such as taking ...

According to forecasts by the Solar Energy Industries Association (SEIA), home solar power is expected to grow by around 6,000 to 7,000 MW per year between 2023 and 2027.. A solar land lease can provide an additional revenue stream ...

Beyond potential land-use impacts, the amount of land re-quired to build a utility-scale PV plant is also an important cost consideration. The cost of most components of a utility-scale PV plant ...

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