



# Land approval for solar power stations

Will 22 million acres of land be needed for solar farms?

The Bureau of Land Management (BLM) and the Department of Energy's National Renewable Energy Laboratory have determined that 700,000 acres of federal lands will be needed for solar farms over the next 20 years, so BLM recommended 22 million acres to give "maximum flexibility" to help the US reach its net zero by 2035 power sector goal.

Could public land be used for solar power development?

Officials to date have identified almost 1,400 square miles (3,500 square kilometers) of public land for potential leasing for solar power development. If all that land were developed, the bureau says it could support more than 100 gigawatts of solar power, or enough electricity for 29 million homes.

Do I need a land-use permit to install a solar array?

State land-use and energy permitting policies include all the necessary steps required to obtain approval to install a solar array.

How far away should a solar farm be from a substation?

**Proximity To Utility Infrastructure** The feasibility of a solar farm depends on the size, quality, and location of the land. It is suggested that the land should be within 1,000 feet of three-phase power and 2 miles of a substation to keep interconnection costs low.

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.

How much land is available for solar?

Under the current policy, there are at least 80 million acres of federal lands open to oil and gas development, which is 100 times the amount of public land available for solar. BLM's proposal is a big step in the right direction and recognizes the key role solar plays in our energy economy. True, the true heat issue is only for large solar farms.

Rather, local cities and towns usually exercise their fundamental police powers over solar array land-use and siting decisions, in very different manners. In addition, a significant subset of ...

Local governments may consider solar products such as on-site solar, off-site solar, or purchasing mechanisms such as virtual power purchase agreements (PPAs), community choice aggregation (CCA), renewable energy certificates ...

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Discusses the land use and energy permitting processes for permission to build a solar array and provides examples of why permitting processes can affect farmland solar development.

China will end the subsidies for new centralized photovoltaic stations, distributed photovoltaic projects and onshore wind power projects from the central government budget in ...

Factors to consider include solar irradiation levels, land availability, proximity to transmission infrastructure, land accessibility, and land topography. ... ? Developers must navigate the permitting process to ensure ...

Slope of the Solar Farm. The slope of a site can impact the energy output of a site. This is due to the shade cover from the surrounding, elevated solar panels or land- like the impact of surrounding trees. Land developers should seek large, ...

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Individual counties and townships can adopt rules for: 1) whether to allow a utility-scale solar facility; and, if allowed, 2) the location, size, and retirement of a utility-scale solar facility (see ...

Near Kingman, Mohave Sun Power is negotiating to buy 4,000 acres for a solar-power plant, and Albiassa Solar has tied up 1,400 acres. Those projects are on private land that has been used ...

Consent has been granted for a solar power station at Ruak?k? in Northland that will produce more than three times the energy of the biggest solar farm currently operating in New Zealand. ... following approval by ...

From initial application to final Right-of-Way grant, the current process for a utility-scale solar project requires between three and five years to complete. In contrast, federal agencies ...

