



Is it feasible to use solar energy to generate electricity nationwide

Could solar power the world?

"The study illuminates the fact that solar, our cheapest and fastest-growing source of clean energy, could produce enough electricity to power all of the homes in the US by 2035 and employ as many as 1.5 million people in the process," said Secretary of Energy Jennifer Granholm.

How much solar power does the US need?

Solar currently accounts for about 3% of US electricity supply. The study shows the US would need to quadruple its yearly solar capacity additions by 2035, providing 1,000 gigawatts of power to ensure most of the electricity grid was powered by renewables.

Will solar power power 40% of America's electricity by 2035?

The Solar Futures Study from the Department of Energy, released Wednesday, shows that by 2035, solar energy has the potential to power 40% of the nation's electricity and employ as many as 1.5 million people -- without raising electricity costs for consumers.

Is 35% wind and solar energy feasible?

The studies concluded that it is technically feasible to accommodate 35% wind and solar with operational changes, including much greater coordination of power system operations across larger geographic areas, scheduling generation on a sub-hourly basis, and increasing utilization of existing transmission.

Will solar power replace fossil fuels?

Electricity from solar power will play a crucial role in replacing the fossil fuels used to generate electricity today. A range of different models project the future energy mix of the green electricity system, which include technologies such as carbon capture and advanced nuclear.

Will solar power reach 100 percent clean electricity by 2035?

The following report is a collaboration with the Climate and Community Institute. Energy analysts suggest that the United States will need to build millions of acres of solar capacity--totaling an area potentially as large as West Virginia--to reach 100 percent clean electricity by 2035.

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