Solar energy vs other renewable

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Alternative "green" energy is on the rise everywhere across the world, and solar power"s share of the green market is growing rapidly in many countries just as it is in the United States. For those who have not yet adopted solar energy, the balance between solar energy advantages and disadvantagesis apparently still a critical factor to be weighed before switching.

Sustainable development is now at the forefront of social and political agendas. From the huge international development projects financed by the World Bank and the International Monetary Fund to more local development underwritten by your regional banks, it"s doubtful that funding is even available to projects without a sustainable energy plan.

We, as modern citizens need to compare the advantages and disadvantages of many renewable power sources like bioenergy and geothermal energy, hydroelectricity, wind, and solar energy before settling on the final choice. It"s a question of what fits our needs best and under what conditions.

Solar energy is here to stay, and it has changed the power industry, its business model, and the way electricity is delivered to the grid. Once, the words "public utility" or "power company" conjured images of giant monolithic public or private corporations that owned huge power plants with tall smoky chimneys or cooling towers of reactors. Today, the monolith is gone.

Over the last decade, power companies have divested themselves of their generating capacity and have morphed into "line owners," buying power generation from the lowest bidder--even from their former generators. This has happened in more than 50% of all power markets across the United States, and solar power made it happen.

Everyone recognizes the glistening panels on rooftops or the arrays covering someone"s backyard. These are common enough sights. But that"s only part of what is driving the industry and the world to greener living. Ranging from 50-25,000 megawatts (MW), large-scale commercial solar producers are providingan alternative to conventional generation across the country to create new options for people to "go solar."

Solar energy has taken the lead in overall green energy sources. There are many advantages of solar energy. Among these are its accessibility to most homeowners and, today, to millions of citizens who don"t own their own homes as well, and its increasing affordability. The cost of purchase and installation continues to fall, and there are new contracts in the marketplace, as providers offer lease-to-buy optionswhile still offering energy below the prices offered by conventional utilities. The times are changing, and solar power is changing them.

Below, we will summarize solar energy advantages and disadvantages with comparisons to other types of renewables. After reading the content below, you will have a better understanding about solar energy pros and

cons, and you will know more about why solar energy is the better choice to go green for the general consumer.

Solar power panels can be seen just about anywhere throughout the United States and, increasingly, the rest of the world. Oddly, there are people who still aren"t really certain how it all works. Some even think the heat of the sun is used to make steam. Here"s a quick guide to how solar panels work and what happens inside our homes.

Generally, solar panels are made up of multiple modules of crystalline silicon cells. Silicon is a natural semiconductor. Each cell is made of two layers of cells--the negatively charged N layer and the positively charged P layer immediately below it. When light waves (photon particles) strike the layers, the bonds of the silicon atoms are disrupted and energy is generated.

To see how, we suggest to watch this short video named "How do solar panels work" developed by TED, which has gained more than 2 million views since it was published.

Solar energy holds a number of significant advantages over other alternative energy sources in that individuals can invest in their own power generation. While there is an initial capital investment, those costs are dropping dramatically. And with major advances in home-based energy storage, the benefits of solar energy are increasing, and the advantages of solar energy are becoming more and more obvious year after year. All across the United States, the cost of solar power installation is dropping. The 2018 price has dropped 6% compared to the previous year.

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