



# Free standing solar panel mounts

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With over four times as many advantages than disadvantages, free-standing solar panels in your backyard are a worthwhile renewable energy investment for carbon-conscious homeowners.

Are you a suburban or rural homeowner in search of a renewable energy system, but rooftop solar just isn't right for you? Then consider the many advantages of ground mount solar systems compared to their disadvantages. Four times as many pros as cons -- at least!

In this article, you'll find out why a backyard photovoltaic (PV) system deserves a serious look to meet all your home energy needs both now and in the future.

A ground mounted solar system, like rooftop solar panels, is a set of photovoltaic cells that produces direct current (DC) electricity from the sun. Instead of being placed on the roof, the ground mount array is situated somewhere on your property, usually the backyard.

There are a number of ways to arrange a ground mount system. The two most common are the standard (fixed) type or the pole-elevated variety.

Now imagine transferring that setup -- racking and all componentry and wiring -- on to a fixed metal scaffolding that is usually cemented into place. The arrangement is most often placed in a backyard location where there is suitable soil for secure construction and plenty of sunshine. It may be several inches or many feet off the ground, precisely angled and oriented for maximum sun exposure.

One of the major advantages of pole mount solar systems over fixed versions is that there is plenty of space underneath where animals may seek shade or shelter.

Another important consideration with pole mount solar arrays is that they are perfectly suited to be integrated with sun-tracking systems. The panels move as the sun traverses the sky, either daily and/or annually. Their sole objective is to allow your PV modules to seize as much radiant energy as possible all the time (not just for the 4-5 hours/day of peak sunlight).

There are several different types of solar tracking systems. Most of them are either single-axis or dual-axis.

In general, single-axis systems move along just one axis (typically vertical). Dual-axis trackers move horizontally as well as up and down.

If you have a small yard with at least some of it completely free of all obstruction, you may be a good candidate for a ground mounted solar system. But everything depends on how much electricity you wish to



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generate on a daily basis.

More specifically, for a 10 kW size array -- plenty for an average American household -- you need approximately 1,000 sq. ft.

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