



# Ground mounted solar panels installation

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Ground-mounted solar panels provide an additional option for people to use solar energy to power their home. Ground-mounted solar panels get installed by pole mount or standard mount. Ground-mount solar panels provide homeowners a way to add solar if their home doesn't have ideal conditions for rooftop solar panels.

A ground-mounted solar panel is the same as a rooftop solar panel. The only difference is ground-mount solar panels get set up on the ground and use a standard installation or a pole mount installation. Some ground-mount solar panel systems can move with the sun in order to capture the most sunlight they can each day.

Ground-mounted solar panels use solar photovoltaic panels, favored by the majority of homeowners as the best solar panels for homes; attached to a frame or a pole. A pole-mounted system can use a single-axis or dual-axis system to follow the movement of the sun to maximize sunlight capture. Ground-mounted solar panels have a racking system and the panels can vary in height from the ground. The panels can stand just a few inches off the ground to several feet. Both systems need a concrete foundation to remain securely in place.

When you decide to have ground-mounted solar, you have two options on how to install them on the ground. The panels can get attached with a pole mounted system or a standard mount.

Standard ground mount solar systems are mounted like rooftop solar in that the solar panels get attached to a metal frame. The frame can be tilted to best capture sunlight.

Pole-mounted solar systems plant a pole in the ground with a concrete foundation. Pole-mounted systems can have varying numbers of solar panels attached to one pole, some can hold up to 24 panels.

Pole-mounted solar systems come as either top-of-the-pole setups or side-of-the-pole mounts. The difference between the two is that side-of-pole mounts typically can't use solar tracking, but side-of-pole mounts can work well for smaller solar systems. Side-of-pole mounts typically have two to three solar panels.

Ground-mounted solar panels can potentially capture more solar energy than solar panels on your roof, depending on where they get mounted and how they get mounted. Depending upon how much space you have at your home, you can have more ground-mounted solar panels than you could on your roof. Or, you could install ground-mounted solar panels in addition to your rooftop panels.

Ground-mounted solar panels give you the option on where you want to install your solar panels. With your roof, you're usually limited to the areas that have southern exposure to take advantage of the most sunlight. Your home might not have a lot of southern exposure with your roof and you might not be able to install many



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solar panels.

Depending on the size of your lot, you likely have more space to place solar panels on the ground and add more solar panels with southern exposure to capture more sunlight. With more solar panels, you could increase the amount of power you generate with solar energy.

Your roof can be expensive to repair, ask anyone who's ever had hail damage or had to replace a roof. Solar panels get constructed to withstand weather and not break, but need proper installation to prevent any issues with your roof. If solar panels get improperly installed, you could have water issues, which can lead to expensive repairs.

If you have ground-mounted solar panels, you don't have to worry about the risk of faulty wiring leading to a fire on your roof or improper installation issues.

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