



Solar panels on flat roof

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Do solar panels on flat roofs work? If you're keen on investing in renewable, clean, and green solar energy, you do not have to let a flat roof keep you from installing a solar panel system.

Absolutely yes! As long as your roof is in good condition and no large obstructions are blocking the sunlight and diminishing your energy output.

This is excellent news for most American homeowners who prefer flat roofs. However, it would call for some adjustments.

Solar engineers need to consider the angle of the roof and its orientation when installing solar panels on sloping roofs. In addition, PV panels will produce much less than the desired output if the roof faces east, north, or west.

However, on flat rooftops, you have the freedom to adjust the angle of your solar panel system, so it faces between south and west. You can ensure it aligns with the latitude of your geographic location too.

Since this is the ideal location for any solar panel, you can derive better output from your set-up than you would from a slanting roof not facing the right direction.

The total cost of installing solar panels typically ranges from \$12,000 to \$30,000. Of this 10% - 15% account for labor and installation costs. These costs are lower on a flat roof since it is safer and easier to access without the need for safety equipment.

Compared to a slanted roof, there are significantly fewer chances of men or material falling off the roof during installation.

Ease of access and low installation costs aside, another major advantage of a flat roof is it can withstand the wear and tear of the installation process better than a sloping roof.

Considering all these factors, flat roofs make a compelling case for mounting solar panels. However, they are not entirely without cons.

There are some major disadvantages when laying solar panels on flat roofs. These include:

This will be among your biggest challenges. When it comes to a slanted roof, solar panels can be laid flat against it. But the same cannot be said for flat roofs. Since angled mounts allow for better exposure to sunlight and optimum energy output, it will require specialized equipment to mount solar panels at an angle on a flat



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roof.

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