

How much does one kilowatt of solar energy cost





Overview

How much does solar cost per watt?

The national average cost per watt of solar PV is currently \$2.76 per watt. This is the historic minimum price. According to the National Renewable Energy Laboratory (NREL), a typical U.S. household installs a 5kW solar system. The solar panel cost is a portion of the total price you have to pay for installing solar panels.

How much does a 5 kilowatt solar system cost?

The average national cost for a 5-kilowatt system ranges from \$14,000 to \$20,900, depending on the source and period of data. EnergySage reports that the average cost of a 10.8 kW solar panel installation is around \$29,926 before federal tax credits, which reduces to \$20,948 after the credits are applied.

What is the relative cost of solar energy?

Another measure of the relative cost of solar energy is its price per kilowatt-hour (kWh). Whereas the price per watt considers the solar system's size, the price per kWh shows the price of the solar system per unit of energy it produces over a given period of time. $\text{Net cost of the system} / \text{lifetime output} = \text{cost per kilowatt hour}$.

Why is solar energy cost per kWh important?

For one, the cost per kWh can be informative because it allows you to compare the cost of solar to your utility costs. The solar energy cost per kWh can also help you compare two system proposals because two systems of the same kW size could produce different total kWh because of design choices.



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