

ContainerPower Energy Solutions

New version of solar smart on-site energy price



Overview

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Take control of your energy costs with solar power. Solar panels generate “free” electricity, but installing a system still costs money. A typical American household needs a 10-kilowatt (kW) system to adequately power their home, which costs \$28,241 in 2025. That price effectively drops to \$19,873.

Beginning at the ring of the new year in 2025, Illinois will start to sunset its current Full Retail Net Metering program, to be replaced by the “Smart Solar Billing” program, which includes a few key changes on billing and pricing. On and after January 1, 2025, all new solar customers in the state.

Smart Energy is an electricity company offering 100% green energy plans in deregulated areas. Smart Energy specializes in renewable energy plans and products, helping customers lower their environmental impact by investing in wind, solar, and other clean energy sources. Enter your ZIP code on this.

How much do solar panels cost on average?

As of 2025, the average cost of residential solar panels in the U.S. is between \$15,000 and \$25,000 before incentives. This typically translates to about \$2.50 to \$3.50 per watt of installed capacity (more on price per watt below). The total price depends.

NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. This work has grown to include cost models for solar-plus-storage systems. NREL's PV cost benchmarking work uses a bottom-up.

There are now 255 gigawatts direct-current of solar capacity installed nationwide, enough to power over 43 million homes. In the last decade, solar deployments have experienced an average annual growth rate of 28%. Strong federal policies like the solar Investment Tax Credit (ITC), rapidly. How much does a solar system cost in 2025?

Solar panels generate “free” electricity, but installing a system still costs money. A typical American household needs a 10-kilowatt (kW) system to adequately power their home, which costs \$28,241 in 2025. That price effectively drops to \$19,873 after considering the full federal solar tax credit.

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. $\text{Net cost of the system} / \text{lifetime output} = \text{cost per kilowatt hour}$.

How much does a commercial solar system cost?

Commercial solar installations are larger, costing \$100,000 to \$500,000 or more depending on the system’s size and energy requirements. Systems larger than 250 kilowatts can achieve a lower cost per watt, often ranging from \$1.50 to \$2.50, as bulk pricing and economies of scale apply.

Does smart energy offer solar?

Smart Energy offers residential and business energy plans for customers in deregulated states. All Smart Energy plans are 100% renewable and support wind, solar, geothermal, and hydropower. Does Smart Energy run a credit check?

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How much does solar cost per square foot?

The average system cost only drops by \$1,000 and the cost per square foot increases to \$12.83. Installing less solar will lower your cost but on a non-linear basis as there are a lot of fixed costs for installers to design, permit, and install your system.

How much does a solar system cost per watt?

As of publishing, the average cost per watt is \$2.84. Most solar companies set the price according to the solar system's wattage. A solar installation's "cost per watt" is a little like the "price per square foot" when you buy a house. It helps compare the value of solar energy systems in different sizes.

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