



# The cost of electricity for off-grid solar systems





## Overview

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This guide breaks down the real costs of building an off-grid solar system in 2025—and shows you how to make smart space-saving choices while you're at it. What Is an Off-Grid Solar System?

What Affects the Cost of an Off-Grid Solar System?

1. System Size 2. Solar Panels 3. Batteries 4. Inverter 5.

Off-grid solar systems cost an average of \$45,000-\$65,000. Read our guide to determine whether this expense is worth it for your home. Clicking "Get Your Estimate" submits your data to All Star Pros, which will process your data in accordance with the All Star Pros Privacy Policy. By submitting.

Depending on the size, number, and quality of panels, your solar array will cost, on average, anywhere between \$5,000 and \$30,000. Numerous government programs and tax incentives can help significantly offset these costs — and you can recoup those costs over time by eliminating your electricity.

Lithium-ion batteries, known for their longevity and efficiency, cost \$400-\$750 per kWh compared to lead-acid alternatives at \$150-\$200 per kWh. Geographical location impacts equipment efficiency and installation complexity. Sunlight levels, measured in peak sun hours, dictate the number of panels.

Off-grid solar systems typically cost between \$45,000-\$65,000 for a complete home setup, significantly more than grid-tied systems that average \$15,000-\$20,000. Battery storage represents the largest expense in an off-grid system, often accounting for 30-40% of the total system cost. Your location. How much does an on-grid solar system cost?



On-grid systems are built to support energy needs but do not serve as your only electricity source. This means they're smaller and cost less than off-grid options. The average cost of solar panels for an on-grid, 5 kilowatt-hour (kWh) system is \$15,000-\$20,000. An off-grid system costs more than twice as much.

How much do off-grid solar panels cost?

On average, off-grid solar panels cost about \$55,000 but can range from \$20,000 for smaller, older panels to \$100,000 and more for bigger, more complicated systems. Being armed with this information is a key starting point in figuring out how to go off-grid, what you'll need in order to pull it off and how much you might have to pay.

How much does a solar system cost?

Most homes need a 5- to 10-kW system to generate enough energy for a standalone solar power system. For comparison, a 5- to 10-kW grid-tied solar panel system costs \$15,000 to \$45,000 installed on average. Get free estimates from solar panel installers near you. What are off-grid solar systems?

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What is an off-grid solar power system?

An off-grid system is a solar power system that doesn't connect to a utility grid. Typically, these types of systems are used in locations that don't have access to power lines or where the cost of connecting to the grid is prohibitive. If you're considering installing an off-grid solar power system, you'll want to know its cost.

System Size



## The cost of electricity for off-grid solar systems



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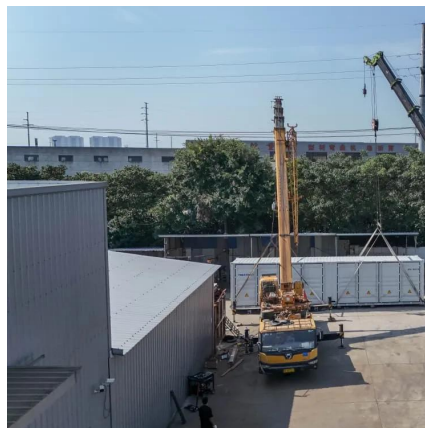
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### [How Much Do Off-Grid Solar Systems Cost in 2025?](#)

Most off-grid solar installations fall into the \$32,500 to \$69,500 range, but many factors can impact your total costs. A small, 2-kilowatt system installed in a very sunny climate ...



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Going off-grid sounds like freedom. No utility bills. No blackouts. Just your own power, on your own terms. But what's it actually ...

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Explore everything about off-grid solar batteries: systems, costs, top products, and setup tips in 2025. Learn how to live off the grid sustainably with solar power solutions.

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Off-grid solar systems typically cost between \$45,000-\$65,000 for a complete home setup, significantly more than grid-tied systems that average \$15,000-\$20,000. Battery ...

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Interested in solar but want to know the price for going off-grid? Learn more about off-grid solar system costs in our all-inclusive guide.

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For properties without existing grid access, an off-grid system can be more economical than paying for costly grid extensions. The true "payback" for off-grid users often ...

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## **How Much Does It Cost to Go Off-Grid With Solar? A Complete ...**

Several factors determine the overall cost of transitioning to an off-grid solar system. These variables impact the initial investment and long-term energy savings. System size is directly ...

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