

Household solar air conditioning production





Overview

Can rooftop solar power your air conditioning system?

More U.S. homes now hit their annual cooling-cost peak on the same hot, sunny afternoons when rooftop solar cranks out maximum power. Pairing those curves allows a small PV array to shoulder 30–50% of your air conditioning system load on the very first day. What does that mean for you?

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How much does a solar AC retrofit cost?

With the 30% federal tax credit and many state rebates, a solar-AC retrofit often pencils out as the most cost-effective HVAC upgrade you can tackle, especially in hot, sunny regions where peak rates bite. SRECs or PV rebates: \$0.20–\$0.75/W in NJ, MA, IL, CO. Battery rebates: \$300–\$1 000/kWh in CA, NY, HI.

Is a solar retrofit right for Your House?

Solar-powered air conditioning is finally practical: a handful of PV panels, a DC-inverter mini-split, and the 30% tax credit can reduce your hottest-hour electricity use by half, often for under \$ 8,000 in parts. This guide breaks down the numbers and the know-how so a DIYer can decide, “Is a solar retrofit right for my house, roof, and budget?”

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How much solar power does a 400 sq ft bedroom need?

Use the 1 kW-per-ton rule for daylight cooling, then decide if adding battery storage is worth the extra cost for nighttime comfort. Cooling load rule of thumb: 1 ton \approx 12,000 BTUH. A 400 sq ft bedroom needs \sim 0.5 tons. PV sizing rule: 1 kW of PV per ton of cooling capacity covers daylight cooling in most Sun-Belt cities.



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