



GETON CONTAINERS

Average lifespan of solar panels





Overview

How long do solar panels last?

On average, most residential solar panels are designed to last 25 to 30 years. However, this doesn't mean they suddenly stop working after three decades. Instead, their energy output gradually decreases over time, a process known as degradation. Tier 1 panels (like those from SunPower, REC, or LG) may retain up to 92% efficiency after 25 years.

How long do photovoltaic panels last?

The U.S. Department of Energy says photovoltaic (PV) modules should last about 30-35 years. Many panels keep making electricity much longer. Your panels won't just stop working after 30 years. They'll make less electricity gradually but stay functional.

How long will NREL solar panels last?

NREL's median degradation rate of 0.5% means a typical solar panel system will still operate at about 90% of its original capacity after 20 years. Even with a higher degradation rate of 0.8%, your panels would keep about 84% efficiency after the same period. Some systems perform better than expected.

When does a solar panel expire?

The "20% rule" refers to the point at which a solar panel has lost around 20% of its original efficiency, usually after 25 to 30 years of use. Panels are generally considered to have reached the end of their warranted life once they drop below 80% of their initial performance.



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[How Long Do Solar Panels Last? , EnergySage](#)

The lifetime of solar panels impacts your savings. We answer the question "how long do solar panels last" and what it means for you.

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[How Long Do Solar Panels Last: Residential & Commercial](#)

This guide explores how long solar panels last, what factors influence their lifespan, and how to maintain efficiency for decades of clean, renewable power. Average Lifespan of ...

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[How long do solar panels last? , Average lifespan \[2025\]](#)

Find out how long solar panels usually last for, how quickly they degrade over time, and what you can do to maximise their lifespan.

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[Solar Panel Lifespan: From Peak Performance to Power ...](#)

This article gets into how long solar panels last, what impacts their durability, and ways to boost their performance through the years. You'll discover degradation rates, ...

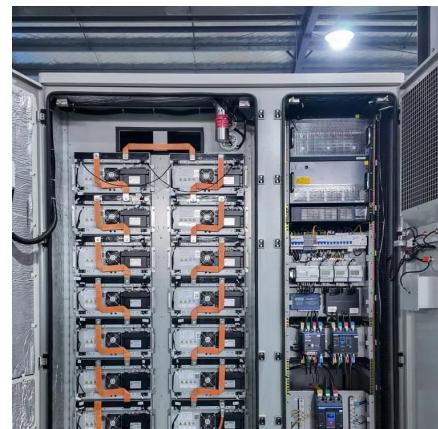
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[What is the Average Lifespan of Solar Panels? \(2025 Guide\)](#)



What's the average lifespan of solar panels? Our 2025 guide covers the 25-30 year average, degradation rates, and why a quality installation is key.

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[This is how long solar panels really last on a typical home](#)

Find out how long solar panels last, what affects their lifespan, why most come with 25-year warranties and if you can recycle them at the end of their life.

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[How long do solar panels last?](#)

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[How Long Do Solar Panels Really Last? The Truth About Lifespan](#)

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