

# How long is a solar panel





## Overview

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How long do solar panels last?

That means after 25 to 30 years, most high-quality panels will still generate around 85–90% of their original output. If your panels' output drops below the level promised in the warranty (for example, below 80% after 25 years), you may be entitled to a repair, replacement, or compensation.

Do solar panels need to be replaced after 25 years?

After 25 years, your solar panels won't necessarily need to be replaced; however, their ability to absorb sunlight will be reduced. In this blog, we'll explain how long solar panels last, review solar panel degradation rates, and ways to make sure your solar panels last as long as possible.

Do solar panels still produce electricity after 25 years?

Even after 25 years, solar panels can still produce electricity—just at a lower efficiency than when they were first installed. Many homeowners find that their solar energy system continues to provide value well beyond the solar panels' lifespan, making solar power an excellent long-term investment.

How long do monocrystalline solar panels last?

Generally speaking, the degradation rate of monocrystalline solar panels is 0.5% per year. This means that, after 30 years, most monocrystalline solar panels on the residential market will produce 87% of their original power output. To learn more about solar, check out our rundown the top 17 facts about solar panels.



## How long is a solar panel

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How long do solar panels last? , Average lifespan [2025]

Feb 9, 2024 · 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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Jan 24, 2023 · How long do solar panels last on your house? Solar systems can be expected to perform for 25-30 years and last much longer.

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How long do solar panels last? 7 Ways Solar Panels Save You ...

Jan 20, 2025 · In considering solar energy investments, the lifespan of solar panels is crucial. Typically designed to last 25-30 years, the actual lifespan depends on quality, installation, and ...

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How Long Do Solar Panels Actually Last?

Do solar panels go bad? What is a solar panel's typical life expectancy? Can you do anything to make them last longer? We answer these questions - ...

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Solar Panel Lifespan Guide: How Long Do ...

Aug 19, 2022 · A solar panel lifespan can vary depending on technology. Here, we delve into the specific details of solar panels and how long they ...

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What Is 'Solar Panel Degradation rate'?Do Solar Panels Go Bad?When to Consider Replacing Your Solar PanelsWhat Other Solar System Components Might Need replacing?Can You Extend The Lifespan of A Solar Panel?Should You Replace Your Solar Panels After 25 years?There is technically no expiration date on solar panels. However, over time, they naturally tend to become less efficient at producing energy. Some panels can also break due to physical damage from extreme weather conditions. For example, when there is extreme cold, reoccurring hail storms or physical damage caused by falling debris, solar panels c See more on solarreviews .rcimgcol .cico { background: #f5f5f5; } .b\_drk .rcimgcol .cico, .b\_dark .rcimgcol .cico { background: unset; }.b\_imgSet .b\_hList li.square\_m,.b\_imgSet .b\_hList li.tall\_m{width:75px}.b\_imgSet .b\_hList li.tall\_mlb{width:113px}.b\_imgSet .b\_hList li.tall\_mln{width:96px}.b\_imgSet .b\_hList li.wide\_m{width:128px}.b\_imgSet.b\_Card .b\_hList li{padding-left:1px;padding-right:9px}.b\_imgSet.b\_Card .b\_hList li.tall\_wfn{width:80px;padding-right:6px}.b\_imgSet.b\_Card .b\_hList li:last-child{padding-right:1px}.b\_imgSet.b\_Card .b\_imgSetData{padding:0 8px 8px;height:40px}.b\_imgSet.b\_Card .b\_imgSetItem{box-shadow:0 0 1px rgba(0,0,0,.05),0 2px 3px 0 rgba(0,0,0,.1);border-radius:6px;overflow:hidden}.b\_imgSet .b\_imgSetData p a{color:#444;outline-offset:0}.b\_subModule .b\_clearfix.b\_mhdr .b\_floatR .b\_moreLink,.b\_subModule .b\_clearfix.b\_mhdr .b\_floatR .b\_moreLink:visited,.b\_subModule>.b\_moreLink,.b\_subModule>.b\_moreLink:visited{color:#767676}.b\_imgSet .cico.b\_placeholder{display:flex;justify-



content:center;background-color:#f5f5f5;background-clip:content-box}.b\_imgSet .cico.b\_placeholder a{display:flex}.b\_imgSet .cico.b\_placeholder a img{width:48px;height:48px;margin:auto}@media(max-width:1362.9px){#b\_context .b\_entityTP .b\_imgSet li:nth-child(5){display:none}.b\_imgSet .b\_hList li.wide\_m:nth-child(3){display:none}}@media(max-width:1274.9px){#b\_context .b\_entityTP .b\_imgSet li:nth-child(4){display:none}.b\_imgSet .b\_hList li.wide\_m:nth-child(2){display:none}}.rcimgcol .b\_imgSet{content-visibility:auto;contain-intrinsic-size:1px 124px}.rcimgcol{height:108px;padding-top:var(--smtc-gap-between-content-x-small);padding-bottom:var(--smtc-gap-between-content-x-small)}.b\_algo:has(.b\_agh) .rcimgcol{padding-top:var(--smtc-gap-between-content-xx-small)}.rcimgcol .b\_imgSet{overflow:hidden}.rcimgcol .b\_imgSet ul{overflow-x:auto;overflow-y:hidden;white-space:nowrap;padding-left:var(--mai-smtc-padding-card-default)}.rcimgcol .b\_imgSet ul::-webkit-scrollbar{-webkit-appearance:none}.rcimgcol .b\_imgSet .b\_hList>li{padding-right:var(--smtc-padding-ctrl-text-side)}.rcimgcol .b\_imgSet .cico{border-radius:unset}.rcimgcol .b\_imgSet .b\_hList>li:first-child .cico,.rcimgcol .b\_imgSet .b\_hList>li:first-child .cico a{border-radius:unset;border-top-left-radius:var(--smtc-corner-card-rest);border-bottom-left-radius:var(--smtc-corner-card-rest);overflow:hidden}.rcimgcol .b\_imgSet .b\_hList>li:last-child .cico,.rcimgcol .b\_imgSet .b\_hList>li:last-child .cico a{border-radius:unset;border-top-right-radius:var(--smtc-corner-card-rest);border-bottom-right-radius:var(--smtc-corner-card-rest);overflow:hidden}.rcimgcol .rcimgcol .b\_sideBleed{margin-left:unset;margin-right:unset}.rcimgcol .b\_imgclgovr{cursor:pointer}.rcimgcol .b\_imgclgovr .cico img: hover{transform:scale(1.05);transition:transform .5s ease}#b\_content #b\_results>.b\_algo .b\_caption:has(.rcimgcol){padding-right:var(--mai-smtc-padding-card-default);margin-right:calc(-1\*var(--mai-smtc-padding-card-default));margin-left:calc(-1\*var(--mai-smtc-padding-card-default));padding-left:var(--mai-smtc-padding-card-default)}.rcimgcol .b\_imgSet .b\_hList .cico a{display:flex;outline-offset:-2px}pv magazine USAHow long do residential solar panels last? - pv magazine USAAug 4, 2025 · Several factors affect the productive lifespan of a residential solar panel. In the first part of a series, we look at the solar panels themselves. Residential solar panels are often sold ...

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Aug 29, 2024 · To fully appreciate how long solar panels must be exposed to sunlight for peak performance, understanding their functionality becomes ...

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