



# Tesla solar roof kiev

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Solar Roof brings your roof to life with beautiful tiles that can power your home with clean energy for decades. Created for maximum durability and designed to integrate directly into your home, Solar Roof can help pay for itself over time with the energy you produce.

Every Solar Roof system is designed to integrate seamlessly with Powerwall, a compact home battery that can store energy produced with solar, making it available anytime. You can use this power at night when the sun isn't shining and keep your home running off of your clean energy. Powerwall also detects outages automatically, allowing you to keep your lights on and phones charged when the grid goes down.

Tesla Solar Roof is designed to maximize your roof's energy production without compromising the aesthetics of your home. Solar Roof is constructed with a combination of glass solar tiles and architectural-grade steel tiles. Each tile is virtually indistinguishable in color and trim. Solar Roof is built to enhance your home's design and looks incredible from any angle.

Solar Roof is a premium roof with the added benefit of solar production. Solar Roof tiles are engineered for all-weather durability, ensuring your home stays protected even in extreme conditions. Learn more about our module, product and weatherization warranty.

Since Solar Roof has a smaller footprint than traditional solar panels, Tesla may be able to add more solar to your roof - working around vents, skylights or other obstructions. This helps maximize the amount of solar energy your roof can produce. Control your system with 24/7 mobile monitoring from anywhere in the world. Manage all your Tesla products through the Tesla app and customize your system production to fit your preferences.

All you need to do is take a walk through a city, and you can see them everywhere: solar panels powering homes, offices, and municipal buildings. Since these panels made their way onto roofs in the 1970s, new data from the Solar Energy Industries Association suggests that installed residential capacity in the U.S. equates to 23 gigawatts in 2021. That accounts for nearly 20 percent of the U.S.'s total solar energy generated.

Today, Tesla's Solar Roof is leading the charge with an innovation of its own: cutting out the middle step between building the roof and installing the solar panels. Tesla's specially-designed tiles mean anyone can outfit their home with what looks like a typical (if a bit glossy) roof that provides the house with power.

The roof tiles are limited in availability, which means Tesla Solar Roofs are unlikely to become as ubiquitous as the bulkier panels we see pasted onto roofs around the neighborhood. Some estimates put the cost of Solar Roofs tens of thousands of dollars above a similar, more conventional solar panel installation.



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Tesla is noticeably tight-lipped about how many Solar Roofs it has sold. The company claims it has fitted solar energy systems on 400,000 roofs in the U.S., but does not reveal how many are Solar Roofs versus retrofit solar panels. Pew Research in 2019 found that six percent of U.S. homeowners have installed solar panels, and the Census Bureau found there were 83.5 million owner-occupied housing units at the end of 2021.

"I would definitely recommend the Solar Roof," Tomas Nochta tells Inverse. Nochta lives in Saddle Brook, New Jersey, works in the hospitality industry, and has a 1,175-square-foot roof with enough sunlight-harvesting tiles to generate 7.6 kilowatts of power -- enough to power Nochta's home.

Elon Musk's Solar Roof was first unveiled in October 2016. Around two years later, Reuters reported that Tesla had only activated 12 roofs in California. Installations remained extremely limited in the U.S. until October 2019, when Tesla unveiled a tweaked version of the roof tiles to enable faster installation.

In 2020, Musk claimed he wants Tesla's energy business to expand from less than 10 percent of the company to 50 percent. Evidence suggests, however, that Tesla's solar installs remain relatively limited.

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