



Tesla solar roof budapest

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Interested in understanding the impact solar can have on your home? Enter some basic information below, and we'll instantly provide a free estimate of your energy savings.

The idea behind Tesla's Solar Roof is to create photovoltaic modules that double as a roofing material while also harvesting energy from the sun to power your home. Rather than the big, standard rectangular solar panels we're used to seeing on countless roofs and elsewhere, Tesla's Solar Roof is made up of smaller solar shingles and matching blank ones. The solar shingles are shaped somewhat like conventional roofing shingles, but consist of photovoltaic cells.

In most cases, a Tesla Solar Roof will completely replace or cover your existing roof. However, not every single piece of the new roof has to be energy-generating; Tesla also uses glass and steel roofing panels. So the amount of actual solar shingles in your Tesla roof will be determined by the amount of energy you want to generate. This will vary from house to house. Some jurisdictions and utilities may not allow you to install solar energy systems exceeding a set number of kilowatts.

Figuring out the potential wattage for a Tesla roof is essentially the same as determining the total wattage you want from any other solar array. Have a look at CNET's article on how to determine how much solar you need for your situation. It should apply to a Tesla Solar Roof as well.

In short, you'll need to have a good idea of your energy usage and how much sun your roof gets. From there, you can size your Solar Roof to meet your energy needs by estimating how much it will produce given your available sunlight.

The biggest difference between Tesla's solar panels and the Tesla Solar Roof is the way these systems are installed on your home. Tesla solar panels are mounted on your roof, while the Tesla Solar Roof is integrated into your roof. Solar shingle products are designed to generate solar energy, but also blend in with traditional roofing materials. This offers a discreet way of getting a solar system on your roof.

But you'll likely have to replace your entire roof to install solar shingles, which drives up the cost quite a bit. If you choose to install the Tesla Solar Roof, you'll also have to purchase at least one Powerwall battery with your system. This adds another \$10,000 or more to your overall cost. Both products have similar capabilities to meet your power needs, you'll just likely be paying more to install a Tesla Solar Roof than you would with traditional solar panels.

The basic trade-off with the Tesla Solar Roof is that it looks sleeker than solar panels and doubles as a roofing material, but solar shingles are more expensive and less efficient than conventional photovoltaic modules.

“For most people you’re going to be able to put more generating capacity on your roof with a framed module versus a solar shingle at probably a lower price point per watt,” said Corey Ramsden with Solar United Neighbors.”

Tesla no longer operates a press office to answer specific questions about pricing, but we used the company’s solar roof estimator tool to calculate the below estimates based on a Houston home.”

A Solar Roof will vary in cost based on the size, shape and location of the roof it’s replacing. The estimates below were gathered from Tesla’s cost estimator for a specific home in Houston. The estimates include incentives and were retrieved on Feb. 5, 2024.

A Tesla Solar Roof can be installed on top of an existing shingle roof that isn’t too old, new construction and a few other limited scenarios. Otherwise, installation is typically going to require ripping off the old roofing material and replacing it with solar shingles, which will be an additional cost.”

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