



# Photovoltaic panel foundation construction price chart

How much does solar installation cost?

Installation labor accounts for around 5.5% of the total cost of a residential solar project, according to a 2022 report from the National Renewable Energy Laboratory. That amounts to \$1,375 for a \$25,000 solar project.

How are rooftop and ground-mounted PV systems modeled?

Both the rooftop and the ground-mounted PV systems are modeled with three-phase string inverters with an ILR of 1.23. Both use 20.3%-efficient monocrystalline silicon modules from a Tier 1 supplier (CA NEM 2022). Figure 10 is a schematic of our commercial-scale system cost model, and Table 5 details the modeled parameters in intrinsic units.

What financing options do solar installers have?

You'll see four major financing options when dealing with a solar installer: cash purchases, solar loans, solar leases, and Power Purchase Agreements (PPAs). With a cash purchase, you'll pay for everything right off the bat.

How much does a preconstruction survey cost per acre?

In the top panel of Figure 5, the high 2022 preconstruction survey material cost of \$45 per acre is excluded, and the remaining 2017-2021 costs (\$19, \$22, \$23, \$24, and \$35 per acre) are averaged to yield an MSP for this component of \$24 per acre.

Do small-scale installers in the residential sector have a larger PV system?

We infer the predominance of small-scale installers in the residential sector using data on residential system financing (Wood Mackenzie 2022b). The higher efficiency of modules assumed for Q1 2022 (CA NEM 2022) results in larger residential PV system sizes compared with systems in Q1 2021.

How are PV and storage market prices influenced?

On the other hand, PV and storage market prices are influenced by short-term policy and market drivers that can obscure the underlying technological development that shapes prices over the longer term.



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